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

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by

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Introduction

This publication presents estimates of projected costs and returns for rice production in Louisiana for the 2019 crop year. Crop producers are annually faced with critical management decisions that impact the employment of production inputs for various crop enterprises and the combination of crops that will be assembled into a cropping system. The need for reliable information is crucial if sound production decisions are to be made. Planning information plays a pivotal role in the development of annual crop production plans by producers and is important in supporting their efforts to secure the necessary resources to carry out their plans. In addition, information regarding production alternatives and costs and returns for major crop enterprises is needed by extension personnel, researchers, lending institutions, and others involved in agriculture or agribusiness. The purpose of this report is to provide planning information regarding crop production costs and market returns for the 2019 crop year.

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

Procedure

The general procedure used in this study was to project machinery and other input price data and apply these data to the production practice data for crop enterprises produced in Louisiana. Input prices were obtained from surveys of farm suppliers, machinery dealers, and aerial applicators to provide a basis for estimating 2019 planning budgets. Machinery and other input cost data are presented in the Appendix.

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

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

Expected Crop Yields and Market Prices

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

Direct Production Costs

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

Hired labor was charged at $10.73 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at $15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was charged for these classes of operators because of the relatively higher skills required to run these types of machinery and the general consensus that these operators are generally twelve month (salaried) employees i.e. foremen. Farm labor may not be generally available on an hourly basis; however, an hourly charge represents a practical method for charging labor to the respective crop enterprises on a per acre basis.

Interest on operating capital (short term) was charged at a nominal rate of 6.00% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel prices for diesel was $2.50 per gallon. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

The intermediate term interest rate was charged at an historical real rate of 6.50%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

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

Overhead Costs

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

Land and Management Charges

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

Acknowledgments

Several individuals were instrumental in making this report possible. The authors are particularly indebted to Louisiana crop producers and LSU Agricultural Center Extension Service agents and Experiment Station scientists for their cooperation and assistance in providing specific production practice information, as well as farm suppliers and agribusiness firms for supplying input price information. This work is supported in part by the U.S.D.A. National Institute of Food and Agriculture, Hatch Project 1014068.

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,
Rice, Conventional Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	9.0000	3.15	________
App by Air (5 gal)	appl	6.50	5.0000	32.50	________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	________
FERTILIZERS					
LA Nitrogen	lb	0.43	130.0000	55.90	________
LA Phosphate	lb	0.55	40.0000	22.00	________
LA Potash	lb	0.32	60.0000	19.20	________
FUNGICIDES					
Quadris	oz	1.13	10.0000	11.30	________
HERBICIDES					
Facet 75DF	lb	50.00	0.5000	25.00	________
Londax 60DF	oz	18.08	1.0000	18.08	________
2,4-D Amine 4	pt	2.31	2.5000	5.78	________
INSECTICIDES					
Karate Z	oz	1.02	4.0000	4.08	________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	________
SEED/PLANTS					
Rice Seed Conv.	lb	0.30	120.0000	36.00	________
Seed Tmt	oz	0.30	21.6000	6.48	________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	________
CUSTOM PLANT					
LARice Air Plant SW	cwt	5.60	1.2000	6.72	________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	________
LA Hired Labor					
Tractors	hour	10.73	0.8574	9.20	________
LA Irrigation Labor					
Irrigation System 1	hour	10.73	0.2153	2.30	________
DIESEL FUEL					
Tractors	gal	2.50	10.5417	26.35	________
Self-Propelled	gal	2.50	2.5825	6.46	________
Irrigation System 1	gal	2.50	32.8389	82.10	________
REPAIR & MAINTENANCE					
Implements	acre	3.79	1.0000	3.79	________
Tractors	acre	5.72	1.0000	5.72	________
Self-Propelled	acre	14.53	1.0000	14.53	________
Irrigation System 1	acre	3.75	1.0000	3.75	________
INTEREST ON OP. CAP.	acre	12.92	1.0000	12.92	________

TOTAL DIRECT EXPENSES				539.54	________
FIXED EXPENSES					
Implements	acre	9.32	1.0000	9.32	________
Tractors	acre	39.24	1.0000	39.24	________
Self-Propelled	acre	23.93	1.0000	23.93	________
Irrigation System 1	acre	39.31	1.0000	39.31	________

TOTAL FIXED EXPENSES				111.80	________

TOTAL SPECIFIED EXPENSES				651.34	________

Table 1.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Water Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2019.

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---------		
Disk Harrow	32'	4WD 225	0.061	2.00	Nov	4.11	3.90	2.00	4.68	0.12	1.32				16.01
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.75	6.17	0.15	0.40	0.10	1.07				12.54
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.22	2.88	0.51	2.36	0.04	0.50				8.47
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.43	30.10	30.10
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.55	22.00	22.00
LA Potash	lb											60.0000	0.32	19.20	19.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Ditcher		MFWD 150	0.020	1.00	Feb	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Rice Gates	each			1.00	Feb							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Feb	0.58	0.67	0.13	0.20	0.02	0.27				1.85
LARice Water Level	24 ft	4WD 300	0.149	2.00	Feb	14.26	18.51	0.46	1.07	0.29	3.22				37.52
LARice Air Plant SW	cwt			1.00	Apr							1.2000	5.60	6.72	6.72
Rice Seed Conv.	lb											120.0000	0.30	36.00	36.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Seed Tmt	oz											21.6000	0.30	6.48	6.48
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Facet 75DF	lb											0.5000	50.00	25.00	25.00
Londax 60DF	oz											1.0000	18.08	18.08	18.08
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
2,4-D Amine 4	pt											2.5000	2.31	5.78	5.78
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.43	25.80	25.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.13	11.30	11.30
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.99	23.93			0.33	5.05				49.97
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.31	0.08	0.15	0.01	0.12				0.93
LARice Haul	cwt			1.00	Aug							70.0000	0.30	21.00	21.00
LARice Dry	cwt			1.00	Aug							77.7000	0.90	69.93	69.93
Irrigation System 1	acre				Mar			85.85	39.31	0.21	2.30	1.0000			127.46
TOTALS						53.06	63.17	89.64	48.63	1.40	16.55			367.37	638.42
INTEREST ON OPERATING CAPITAL															12.92
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															651.34

Table 1.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Conventional Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	15	41	67	93	119	146	172	198	224
85%	59.5	45	73	102	130	158	186	214	242	270
90%	63.0	76	106	136	166	196	226	257	287	317
95%	66.5	107	139	171	203	235	267	299	331	363
100%	70.0	138	172	206	239	273	307	341	375	409
105%	73.5	169	204	240	276	312	348	384	419	455
110%	77.0	199	237	275	313	350	388	426	464	501
115%	80.5	230	270	309	349	389	429	468	508	548
120%	84.0	261	303	344	386	427	469	511	552	594

Net returns above direct costs for an owner operator is calculated here as market revenue less direct production costs. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses.

Table 1.C2 Estimated Net Returns above Total Specified Costs for an Owner Operator
Rice, Conventional Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-89	-62	-36	-10	16	42	69	95	121
85%	59.5	-58	-30	-2	27	55	83	111	139	167
90%	63.0	-27	3	33	63	93	123	153	183	214
95%	66.5	4	36	68	100	132	164	196	228	260
100%	70.0	35	68	102	136	170	204	238	272	306
105%	73.5	65	101	137	173	209	245	280	316	352
110%	77.0	96	134	172	209	247	285	323	361	398
115%	80.5	127	167	206	246	286	325	365	405	445
120%	84.0	158	199	241	283	324	366	407	449	491

Net returns above total specified costs for an owner operator is calculated here as market revenue less total specified costs. <u>Specified costs include charges for direct costs and fixed machinery costs but excludes charges for land, general farm overhead and management expenses</u>.

Table 1.D1 Estimated Net Returns above Direct Costs for a Tenant Operator
Rice, Conventional Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-23	-4	14	32	51	69	87	106	124
85%	59.5	-1	19	38	58	78	97	117	137	156
90%	63.0	20	41	63	84	105	126	147	168	189
95%	66.5	42	64	87	109	132	154	176	199	221
100%	70.0	64	87	111	135	159	182	206	230	253
105%	73.5	85	110	135	160	185	211	236	261	286
110%	77.0	107	133	160	186	212	239	265	292	318
115%	80.5	128	156	184	212	239	267	295	323	351
120%	84.0	150	179	208	237	266	295	325	354	383

Net returns above direct costs for a tenant operator is calculated here as the grower's share of market revenue less direct production costs paid by the grower. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 1.D2 Estimated Net Returns above Total Specified Costs for a Tenant Operator
Rice, Conventional Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-87	-68	-50	-31	-13	5	24	42	60
85%	59.5	-65	-45	-26	-6	14	34	53	73	93
90%	63.0	-43	-22	-1	20	41	62	83	104	125
95%	66.5	-22	1	23	45	68	90	113	135	157
100%	70.0	0	23	47	71	95	118	142	166	190
105%	73.5	21	46	71	97	122	147	172	197	222
110%	77.0	43	69	96	122	149	175	201	228	254
115%	80.5	64	92	120	148	176	203	231	259	287
120%	84.0	86	115	144	173	202	232	261	290	319

Net returns above total specified costs for a tenant operator is calculated here as the grower's share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 2.A Estimated costs per acre, Rice, Clearfield Variety, Water Planted, Conventional Tillage, Southwest Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	9.0000	3.15	________
App by Air (5 gal)	appl	6.50	5.0000	32.50	________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	________
FERTILIZERS					
LA Nitrogen	lb	0.43	130.0000	55.90	________
LA Phosphate	lb	0.55	40.0000	22.00	________
LA Potash	lb	0.32	60.0000	19.20	________
FUNGICIDES					
Quadris	oz	1.13	10.0000	11.30	________
HERBICIDES					
Newpath 2SL	oz	3.83	8.0000	30.64	________
Aim 2EC	oz	5.25	1.6000	8.40	________
INSECTICIDES					
Karate Z	oz	1.02	4.0000	4.08	________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	________
SEED/PLANTS					
Rice Clearfield 161	lb	1.05	100.0000	105.00	________
Seed Tmt	oz	0.30	18.0000	5.40	________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	________
CUSTOM PLANT					
LARice Air Plant SW	cwt	5.60	1.0000	5.60	________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	________
LA Hired Labor					
Tractors	hour	10.73	0.8574	9.20	________
LA Irrigation Labor					
Irrigation System 1	hour	10.73	0.2153	2.30	________
DIESEL FUEL					
Tractors	gal	2.50	11.0156	27.54	________
Self-Propelled	gal	2.50	2.5825	6.46	________
Irrigation System 1	gal	2.50	32.8389	82.10	________
REPAIR & MAINTENANCE					
Implements	acre	3.79	1.0000	3.79	________
Tractors	acre	6.26	1.0000	6.26	________
Self-Propelled	acre	14.53	1.0000	14.53	________
Irrigation System 1	acre	3.75	1.0000	3.75	________
INTEREST ON OP. CAP.	acre	14.26	1.0000	14.26	________

TOTAL DIRECT EXPENSES				599.59	________
FIXED EXPENSES					
Implements	acre	9.32	1.0000	9.32	________
Tractors	acre	42.92	1.0000	42.92	________
Self-Propelled	acre	23.93	1.0000	23.93	________
Irrigation System 1	acre	39.31	1.0000	39.31	________

TOTAL FIXED EXPENSES				115.48	________

TOTAL SPECIFIED EXPENSES				715.07	________

Table 2.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Water Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2019.

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---------		
Disk Harrow	32'	4WD 300	0.061	2.00	Nov	5.84	7.58	2.00	4.68	0.12	1.32				21.42
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.75	6.17	0.15	0.40	0.10	1.07				12.54
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.22	2.88	0.51	2.36	0.04	0.50				8.47
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.43	30.10	30.10
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.55	22.00	22.00
LA Potash	lb											60.0000	0.32	19.20	19.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Ditcher		MFWD 150	0.020	1.00	Feb	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Rice Gates	each			1.00	Feb							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Feb	0.58	0.67	0.13	0.20	0.02	0.27				1.85
LARice Water Level	24 ft	4WD 300	0.149	2.00	Feb	14.26	18.51	0.46	1.07	0.29	3.22				37.52
Irrigation System 1					Mar										
LARice Air Plant SW	cwt			1.00	Apr							1.0000	5.60	5.60	5.60
Rice Clearfield 161	lb											100.0000	1.05	105.00	105.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Seed Tmt	oz											18.0000	0.30	5.40	5.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
Aim 2EC	oz											1.6000	5.25	8.40	8.40
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.43	25.80	25.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.13	11.30	11.30
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.99	23.93			0.33	5.05				49.97
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.31	0.08	0.15	0.01	0.12				0.93
LARice Haul	cwt			1.00	Aug							70.0000	0.30	21.00	21.00
LARice Dry	cwt			1.00	Aug							77.7000	0.90	69.93	69.93
Irrigation System 1	acre				Mar			85.85	39.31	0.21	2.30	1.0000			127.46
TOTALS						54.79	66.85	89.64	48.63	1.40	16.55			424.35	700.81
INTEREST ON OPERATING CAPITAL															14.26
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															715.07

Table 2.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Clearfield Variety, Water Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-89	-63	-37	-10	16	42	68	94	121
85%	59.5	-58	-30	-2	26	54	82	111	139	167
90%	63.0	-28	3	33	63	93	123	153	183	213
95%	66.5	3	35	67	99	131	163	195	227	259
100%	70.0	34	68	102	136	170	204	238	272	305
105%	73.5	65	101	137	172	208	244	280	316	352
110%	77.0	96	133	171	209	247	285	322	360	398
115%	80.5	126	166	206	246	285	325	365	404	444
120%	84.0	157	199	241	282	324	365	407	449	490

Net returns above direct costs for an owner operator is calculated here as market revenue less direct production costs. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses.

Table 2.C2 Estimated Net Returns above Total Specified Costs for an Owner Operator Rice, Clearfield Variety, Water Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-205	-178	-152	-126	-100	-73	-47	-21	5
85%	59.5	-174	-146	-117	-89	-61	-33	-5	23	51
90%	63.0	-143	-113	-83	-53	-23	7	37	68	98
95%	66.5	-112	-80	-48	-16	16	48	80	112	144
100%	70.0	-81	-47	-14	20	54	88	122	156	190
105%	73.5	-51	-15	21	57	93	129	164	200	236
110%	77.0	-20	18	56	94	131	169	207	245	282
115%	80.5	11	51	90	130	170	209	249	289	329
120%	84.0	42	83	125	167	208	250	292	333	375

Net returns above total specified costs for an owner operator is calculated here as market revenue less total specified costs. Specified costs include charges for direct costs and fixed machinery costs but excludes charges for land, general farm overhead and management expenses.

Table 2.D1 Estimated Net Returns above Direct Costs for a Tenant Operator
Rice, Clearfield Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-133	-115	-96	-78	-59	-41	-23	-4	14
85%	59.5	-111	-92	-72	-52	-33	-13	7	27	46
90%	63.0	-90	-69	-48	-27	-6	15	37	58	79
95%	66.5	-68	-46	-23	-1	21	44	66	89	111
100%	70.0	-47	-23	1	25	48	72	96	120	143
105%	73.5	-25	0	25	50	75	100	125	151	176
110%	77.0	-4	23	49	76	102	129	155	182	208
115%	80.5	18	46	74	101	129	157	185	213	240
120%	84.0	40	69	98	127	156	185	214	244	273

Net returns above direct costs for a tenant operator is calculated here as the grower’s share of market revenue less direct production costs paid by the grower. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 2.D2 Estimated Net Returns above Total Specified Costs for a Tenant Operator
Rice, Clearfield Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-209	-191	-172	-154	-136	-117	-99	-81	-62
85%	59.5	-187	-168	-148	-128	-109	-89	-69	-50	-30
90%	63.0	-166	-145	-124	-103	-82	-61	-40	-19	2
95%	66.5	-144	-122	-100	-77	-55	-32	-10	12	35
100%	70.0	-123	-99	-75	-52	-28	-4	20	43	67
105%	73.5	-101	-76	-51	-26	-1	24	49	74	99
110%	77.0	-80	-53	-27	0	26	53	79	105	132
115%	80.5	-58	-30	-3	25	53	81	109	136	164
120%	84.0	-37	-7	22	51	80	109	138	167	197

Net returns above total specified costs for a tenant operator is calculated here as the grower’s share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 3.A Estimated costs per acre,
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	7.0000	2.45	________
App by Air (5 gal)	appl	6.50	4.0000	26.00	________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	________
FERTILIZERS					
LA Nitrogen	lb	0.43	130.0000	55.90	________
LA Phosphate	lb	0.55	40.0000	22.00	________
LA Potash	lb	0.32	60.0000	19.20	________
FUNGICIDES					
Quadris	oz	1.13	10.0000	11.30	________
HERBICIDES					
Command 3ME	pt	18.50	0.8000	14.80	________
Permit 75DF	oz	18.50	1.0000	18.50	________
INSECTICIDES					
Karate Z	oz	1.02	4.0000	4.08	________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	________
SEED/PLANTS					
Rice Seed Conv.	lb	0.30	90.0000	27.00	________
Seed Tmt	oz	0.30	16.2000	4.86	________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	________
LA Hired Labor					
Tractors	hour	10.73	0.7118	7.63	________
LA Irrigation Labor					
Irrigation System 2	hour	10.73	0.2074	2.22	________
DIESEL FUEL					
Tractors	gal	2.50	7.5765	18.94	________
Self-Propelled	gal	2.50	2.5825	6.46	________
Irrigation System 2	gal	2.50	35.4660	88.66	________
REPAIR & MAINTENANCE					
Implements	acre	4.83	1.0000	4.83	________
Tractors	acre	4.20	1.0000	4.20	________
Self-Propelled	acre	14.53	1.0000	14.53	________
Irrigation System 2	acre	3.61	1.0000	3.61	________
INTEREST ON OP. CAP.	acre	11.73	1.0000	11.73	________

TOTAL DIRECT EXPENSES				495.98	________
FIXED EXPENSES					
Implements	acre	11.33	1.0000	11.33	________
Tractors	acre	28.57	1.0000	28.57	________
Self-Propelled	acre	23.93	1.0000	23.93	________
Irrigation System 2	acre	39.31	1.0000	39.31	________

TOTAL FIXED EXPENSES				103.14	________

TOTAL SPECIFIED EXPENSES				599.12	________

Table 3.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Drill Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2019.

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---------		
Disk Harrow	32'	4WD 300	0.061	2.00	Nov	5.84	7.58	2.00	4.68	0.12	1.32				21.42
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.75	6.17	0.15	0.40	0.10	1.07				12.54
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.22	2.88	0.51	2.36	0.04	0.50				8.47
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.43	30.10	30.10
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.55	22.00	22.00
LA Potash	lb											60.0000	0.32	19.20	19.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.20	2.54	1.37	2.92	0.18	1.86				10.89
Rice Seed Conv.	lb											90.0000	0.30	27.00	27.00
Seed Tmt	oz											16.2000	0.30	4.86	4.86
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.67	0.13	0.20	0.02	0.27				1.85
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.40	1.62	0.13	0.16	0.05	0.64				3.95
Command 3ME	pt											0.8000	18.50	14.80	14.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Permit 75DF	oz											1.0000	18.50	18.50	18.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.43	25.80	25.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.13	11.30	11.30
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.99	23.93			0.33	5.05				49.97
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.31	0.08	0.15	0.01	0.12				0.93
LARice Haul	cwt			1.00	Aug							70.0000	0.30	21.00	21.00
LARice Dry	cwt			1.00	Aug							77.7000	0.90	69.93	69.93
Irrigation System 2	acre				Mar			92.27	39.31	0.20	2.22	1.0000			133.80
TOTALS						44.13	52.50	97.10	50.64	1.34	15.75			327.27	587.39
INTEREST ON OPERATING CAPITAL															11.73
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															599.12

Table 3.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Conventional Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	15	41	67	93	119	146	172	198	224
85%	59.5	45	73	102	130	158	186	214	242	270
90%	63.0	76	106	136	166	196	226	257	287	317
95%	66.5	107	139	171	203	235	267	299	331	363
100%	70.0	138	172	206	239	273	307	341	375	409
105%	73.5	169	204	240	276	312	348	384	419	455
110%	77.0	199	237	275	313	350	388	426	464	501
115%	80.5	230	270	309	349	389	429	468	508	548
120%	84.0	261	303	344	386	427	469	511	552	594

Net returns above direct costs for an owner operator is calculated here as market revenue less direct production costs. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses.

Table 3.C2 Estimated Net Returns above Total Specified Costs for an Owner Operator Rice, Conventional Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-89	-62	-36	-10	16	42	69	95	121
85%	59.5	-58	-30	-2	27	55	83	111	139	167
90%	63.0	-27	3	33	63	93	123	153	183	214
95%	66.5	4	36	68	100	132	164	196	228	260
100%	70.0	35	68	102	136	170	204	238	272	306
105%	73.5	65	101	137	173	209	245	280	316	352
110%	77.0	96	134	172	209	247	285	323	361	398
115%	80.5	127	167	206	246	286	325	365	405	445
120%	84.0	158	199	241	283	324	366	407	449	491

Net returns above total specified costs for an owner operator is calculated here as market revenue less total specified costs. Specified costs include charges for direct costs and fixed machinery costs but excludes charges for land, general farm overhead and management expenses.

Table 3.D1 Estimated Net Returns above Direct Costs for a Tenant Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-23	-4	14	32	51	69	87	106	124
85%	59.5	-1	19	38	58	78	97	117	137	156
90%	63.0	20	41	63	84	105	126	147	168	189
95%	66.5	42	64	87	109	132	154	176	199	221
100%	70.0	64	87	111	135	159	182	206	230	253
105%	73.5	85	110	135	160	185	211	236	261	286
110%	77.0	107	133	160	186	212	239	265	292	318
115%	80.5	128	156	184	212	239	267	295	323	351
120%	84.0	150	179	208	237	266	295	325	354	383

Net returns above direct costs for a tenant operator is calculated here as the grower’s share of market revenue less direct production costs paid by the grower. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 3.D2 Estimated Net Returns above Total Specified Costs for a Tenant Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-87	-68	-50	-31	-13	5	24	42	60
85%	59.5	-65	-45	-26	-6	14	34	53	73	93
90%	63.0	-43	-22	-1	20	41	62	83	104	125
95%	66.5	-22	1	23	45	68	90	113	135	157
100%	70.0	0	23	47	71	95	118	142	166	190
105%	73.5	21	46	71	97	122	147	172	197	222
110%	77.0	43	69	96	122	149	175	201	228	254
115%	80.5	64	92	120	148	176	203	231	259	287
120%	84.0	86	115	144	173	202	232	261	290	319

Net returns above total specified costs for a tenant operator is calculated here as the grower’s share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 4.A Estimated costs per acre,
Rice, Clearfield Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	8.0000	2.80	_________
App by Air (5 gal)	appl	6.50	5.0000	32.50	_________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	_________
FERTILIZERS					
LA Nitrogen	lb	0.43	130.0000	55.90	_________
LA Phosphate	lb	0.55	40.0000	22.00	_________
LA Potash	lb	0.32	60.0000	19.20	_________
FUNGICIDES					
Quadris	oz	1.13	10.0000	11.30	_________
HERBICIDES					
Newpath 2SL	oz	3.83	8.0000	30.64	_________
Aim 2EC	oz	5.25	1.6000	8.40	_________
INSECTICIDES					
Karate Z	oz	1.02	4.0000	4.08	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Clearfield 161	lb	1.05	75.0000	78.75	_________
Seed Tmt	oz	0.30	13.5000	4.05	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	_________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	10.73	0.6518	6.99	_________
LA Irrigation Labor					
Irrigation System 2	hour	10.73	0.2074	2.22	_________
DIESEL FUEL					
Tractors	gal	2.50	7.2104	18.02	_________
Self-Propelled	gal	2.50	2.5825	6.46	_________
Irrigation System 2	gal	2.50	35.4660	88.66	_________
REPAIR & MAINTENANCE					
Implements	acre	4.70	1.0000	4.70	_________
Tractors	acre	4.02	1.0000	4.02	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 2	acre	3.61	1.0000	3.61	_________
INTEREST ON OP. CAP.	acre	13.21	1.0000	13.21	_________

TOTAL DIRECT EXPENSES				559.12	_________
FIXED EXPENSES					
Implements	acre	11.17	1.0000	11.17	_________
Tractors	acre	27.42	1.0000	27.42	_________
Self-Propelled	acre	23.93	1.0000	23.93	_________
Irrigation System 2	acre	39.31	1.0000	39.31	_________

TOTAL FIXED EXPENSES				101.83	_________

TOTAL SPECIFIED EXPENSES				660.95	_________

Table 4.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Drill Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2019.

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---------		
Disk Harrow	32'	4WD 300	0.061	2.00	Nov	5.84	7.58	2.00	4.68	0.12	1.32				21.42
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.75	6.17	0.15	0.40	0.10	1.07				12.54
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.22	2.88	0.51	2.36	0.04	0.50				8.47
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.43	30.10	30.10
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.55	22.00	22.00
LA Potash	lb											60.0000	0.32	19.20	19.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Irrigation System 2					Mar										
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.50	3.01	1.37	2.92	0.18	1.86				11.66
Rice Clearfield 161	lb											75.0000	1.05	78.75	78.75
Seed Tmt	oz											13.5000	0.30	4.05	4.05
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.67	0.13	0.20	0.02	0.27				1.85
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
Aim 2EC	oz											1.6000	5.25	8.40	8.40
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.43	25.80	25.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.13	11.30	11.30
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.99	23.93			0.33	5.05				49.97
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.31	0.08	0.15	0.01	0.12				0.93
LARice Haul	cwt			1.00	Aug							70.0000	0.30	21.00	21.00
LARice Dry	cwt			1.00	Aug							77.7000	0.90	69.93	69.93
Irrigation System 2	acre				Mar			92.27	39.31	0.20	2.22	1.0000			133.80
TOTALS						43.03	51.35	96.97	50.48	1.28	15.11			390.80	647.74
INTEREST ON OPERATING CAPITAL															13.21
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															660.95

Table 4.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-49	-22	4	30	56	82	109	135	161
85%	59.5	-18	10	38	67	95	123	151	179	207
90%	63.0	13	43	73	103	133	163	193	223	254
95%	66.5	44	76	108	140	172	204	236	268	300
100%	70.0	75	108	142	176	210	244	278	312	346
105%	73.5	105	141	177	213	249	285	320	356	392
110%	77.0	136	174	212	249	287	325	363	401	438
115%	80.5	167	207	246	286	326	365	405	445	485
120%	84.0	198	239	281	323	364	406	447	489	531

Net returns above direct costs for an owner operator is calculated here as market revenue less direct production costs. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses.

Table 4.C2 Estimated Net Returns above Total Specified Costs for an Owner Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-150	-124	-98	-72	-46	-19	7	33	59
85%	59.5	-120	-92	-63	-35	-7	21	49	77	106
90%	63.0	-89	-59	-29	1	31	61	92	122	152
95%	66.5	-58	-26	6	38	70	102	134	166	198
100%	70.0	-27	7	41	74	108	142	176	210	244
105%	73.5	4	39	75	111	147	183	219	254	290
110%	77.0	34	72	110	148	185	223	261	299	337
115%	80.5	65	105	145	184	224	264	303	343	383
120%	84.0	96	138	179	221	262	304	346	387	429

Net returns above total specified costs for an owner operator is calculated here as market revenue less total specified costs. <u>Specified costs include charges for direct costs and fixed machinery costs but excludes charges for land, general farm overhead and management expenses</u>.

Table 4.D1 Estimated Net Returns above Direct Costs for a Tenant Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-86	-67	-49	-31	-12	6	24	43	61
85%	59.5	-64	-45	-25	-5	15	34	54	74	93
90%	63.0	-43	-22	-1	20	41	63	84	105	126
95%	66.5	-21	1	24	46	68	91	113	136	158
100%	70.0	0	24	48	72	95	119	143	167	190
105%	73.5	22	47	72	97	122	147	173	198	223
110%	77.0	44	70	96	123	149	176	202	229	255
115%	80.5	65	93	121	148	176	204	232	260	287
120%	84.0	87	116	145	174	203	232	261	291	320

Net returns above direct costs for a tenant operator is calculated here as the grower's share of market revenue less direct production costs paid by the grower. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 4.D2 Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	56.0	-148	-130	-112	-93	-75	-57	-38	-20	-2
85%	59.5	-127	-107	-87	-68	-48	-28	-9	11	31
90%	63.0	-105	-84	-63	-42	-21	0	21	42	63
95%	66.5	-84	-61	-39	-16	6	28	51	73	95
100%	70.0	-62	-38	-15	9	33	57	80	104	128
105%	73.5	-41	-15	10	35	60	85	110	135	160
110%	77.0	-19	7	34	60	87	113	140	166	193
115%	80.5	3	30	58	86	114	141	169	197	225
120%	84.0	24	53	82	112	141	170	199	228	257

Net returns above total specified costs for a tenant operator is calculated here as the grower's share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 5.A Estimated costs per acre,
Rice, Hybrid Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	7.0000	2.45	_________
App by Air (5 gal)	appl	6.50	4.0000	26.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	88.8000	79.92	_________
FERTILIZERS					
LA Nitrogen	lb	0.43	150.0000	64.50	_________
LA Phosphate	lb	0.55	40.0000	22.00	_________
LA Potash	lb	0.32	60.0000	19.20	_________
FUNGICIDES					
Stratego	pt	76.88	0.7100	54.58	_________
HERBICIDES					
Command 3ME	pt	18.50	0.8000	14.80	_________
Permit 75DF	oz	18.50	1.0000	18.50	_________
INSECTICIDES					
Karate Z	oz	1.02	4.0000	4.08	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
LA Hybrid Rice Seed	acre	165.00	1.0000	165.00	_________
Seed Tmt	oz	0.30	3.6000	1.08	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	80.0000	24.00	_________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	10.73	0.6505	6.97	_________
LA Irrigation Labor					
Irrigation System 2	hour	10.73	0.2074	2.22	_________
DIESEL FUEL					
Tractors	gal	2.50	6.6287	16.57	_________
Self-Propelled	gal	2.50	2.5825	6.46	_________
Irrigation System 2	gal	2.50	35.4660	88.66	_________
REPAIR & MAINTENANCE					
Implements	acre	3.83	1.0000	3.83	_________
Tractors	acre	3.65	1.0000	3.65	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 2	acre	3.61	1.0000	3.61	_________
INTEREST ON OP. CAP.	acre	19.88	1.0000	19.88	_________

TOTAL DIRECT EXPENSES				698.64	_________
FIXED EXPENSES					
Implements	acre	8.99	1.0000	8.99	_________
Tractors	acre	24.78	1.0000	24.78	_________
Self-Propelled	acre	23.93	1.0000	23.93	_________
Irrigation System 2	acre	39.31	1.0000	39.31	_________

TOTAL FIXED EXPENSES				97.01	_________

TOTAL SPECIFIED EXPENSES				795.65	_________

Table 5.B Estimated resource use and costs for field operations, per acre, Rice, Hybrid Variety, Drill Planted, (In Rotation), Southwest Louisiana, 2019.

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---------		
Disk Harrow	32'	4WD 300	0.061	1.00	Nov	2.92	3.79	1.00	2.34	0.06	0.66				10.71
LA Hybrid Rice Seed	acre											1.0000	165.00	165.00	165.00
Seed Tmt	oz											3.6000	0.30	1.08	1.08
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.75	6.17	0.15	0.40	0.10	1.07				12.54
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.22	2.88	0.51	2.36	0.04	0.50				8.47
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											75.0000	0.43	32.25	32.25
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.55	22.00	22.00
LA Potash	lb											60.0000	0.32	19.20	19.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.20	2.54	1.37	2.92	0.18	1.86				10.89
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.67	0.13	0.20	0.02	0.27				1.85
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.40	1.62	0.13	0.16	0.05	0.64				3.95
Command 3ME	pt											0.8000	18.50	14.80	14.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Permit 75DF	oz											1.0000	18.50	18.50	18.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											75.0000	0.43	32.25	32.25
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Stratego	pt											0.7100	76.88	54.58	54.58
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.99	23.93			0.33	5.05				49.97
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.31	0.08	0.15	0.01	0.12				0.93
LARice Haul	cwt			1.00	Aug							80.0000	0.30	24.00	24.00
LARice Dry	cwt			1.00	Aug							88.8000	0.90	79.92	79.92
Irrigation System 2	acre				Mar			92.27	39.31	0.20	2.22	1.0000			133.80
TOTALS						41.21	48.71	96.10	48.30	1.28	15.09			526.36	775.77
INTEREST ON OPERATING CAPITAL															19.88
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															795.65

Table 5.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Hybrid Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	64.0	-115	-85	-55	-25	5	35	65	95	125
85%	68.0	-80	-48	-16	16	49	81	113	145	177
90%	72.0	-45	-10	24	58	93	127	161	196	230
95%	76.0	-10	27	64	100	137	173	210	246	283
100%	80.0	26	64	103	142	181	219	258	297	336
105%	84.0	61	102	143	184	225	266	307	348	389
110%	88.0	96	139	182	225	269	312	355	398	441
115%	92.0	131	177	222	267	313	358	403	449	494
120%	96.0	166	214	262	309	357	404	452	499	547

Net returns above direct costs for an owner operator is calculated here as market revenue less direct production costs. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses.

Table 5.C2 Estimated Net Returns above Total Specified Costs for an Owner Operator Rice, Hybrid Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	64.0	-212	-182	-152	-122	-92	-62	-32	-2	28
85%	68.0	-177	-145	-113	-81	-48	-16	16	48	80
90%	72.0	-142	-107	-73	-39	-4	30	64	99	133
95%	76.0	-107	-70	-34	3	40	76	113	149	186
100%	80.0	-71	-33	6	45	84	122	161	200	239
105%	84.0	-36	5	46	87	128	169	210	251	292
110%	88.0	-1	42	85	128	172	215	258	301	344
115%	92.0	34	80	125	170	216	261	306	352	397
120%	96.0	69	117	164	212	260	307	355	402	450

Net returns above total specified costs for an owner operator is calculated here as market revenue less total specified costs. Specified costs include charges for direct costs and fixed machinery costs but excludes charges for land, general farm overhead and management expenses.

Table 5.D1 Estimated Net Returns above Direct Costs for a Tenant Operator
Rice, Hybrid Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2019.

						Percent				
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield				Rice Market Price ($/cwt)					
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
						($/acre)				
80%	64.0	-170	-149	-128	-107	-87	-66	-45	-24	-3
85%	68.0	-146	-123	-101	-78	-56	-33	-11	12	34
90%	72.0	-121	-97	-73	-49	-25	-1	23	47	71
95%	76.0	-96	-71	-45	-20	6	31	57	83	108
100%	80.0	-72	-45	-18	10	37	64	91	118	145
105%	84.0	-47	-19	10	39	67	96	125	154	182
110%	88.0	-23	8	38	68	98	129	159	189	219
115%	92.0	2	34	66	97	129	161	193	224	256
120%	96.0	27	60	93	127	160	193	226	260	293

Net returns above direct costs for a tenant operator is calculated here as the grower’s share of market revenue less direct production costs paid by the grower. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 5.D2 Estimated Net Returns above Total Specified Costs for a Tenant Operator
Rice, Hybrid Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2019.

						Percent				
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield				Rice Market Price ($/cwt)					
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
						($/acre)				
80%	64.0	-228	-207	-186	-165	-144	-123	-102	-81	-60
85%	68.0	-203	-181	-158	-136	-113	-91	-68	-46	-23
90%	72.0	-179	-155	-131	-107	-83	-59	-34	-10	14
95%	76.0	-154	-129	-103	-77	-52	-26	-1	25	51
100%	80.0	-130	-102	-75	-48	-21	6	33	60	88
105%	84.0	-105	-76	-48	-19	10	38	67	96	125
110%	88.0	-80	-50	-20	10	41	71	101	131	161
115%	92.0	-56	-24	8	40	71	103	135	167	198
120%	96.0	-31	2	36	69	102	135	169	202	235

Net returns above total specified costs for a tenant operator is calculated here as the grower’s share of market revenue less total specified costs paid by the grower. <u>Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses</u>. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 6.A Estimated costs per acre,
Rice, Ratoon Crop,
Southwest Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	1.0000	0.35	_________
GIN/DRY					
LARice Dry	cwt	0.90	25.5000	22.95	_________
FERTILIZERS					
LA Nitrogen	lb	0.43	55.0000	23.65	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	1.2000	8.40	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	23.0000	6.90	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	10.73	0.0820	0.88	_________
LA Irrigation Labor					
Irrigation System 3	hour	10.73	0.0861	0.93	_________
DIESEL FUEL					
Tractors	gal	2.50	0.6332	1.58	_________
Self-Propelled	gal	2.50	2.5825	6.46	_________
Irrigation System 3	gal	2.50	13.1355	32.84	_________
REPAIR & MAINTENANCE					
Implements	acre	0.20	1.0000	0.20	_________
Tractors	acre	0.34	1.0000	0.34	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
INTEREST ON OP. CAP.	acre	2.11	1.0000	2.11	_________

TOTAL DIRECT EXPENSES				127.17	_________
FIXED EXPENSES					
Implements	acre	0.26	1.0000	0.26	_________
Tractors	acre	2.21	1.0000	2.21	_________
Self-Propelled	acre	23.93	1.0000	23.93	_________

TOTAL FIXED EXPENSES				26.40	_________

TOTAL SPECIFIED EXPENSES				153.57	_________

Table 6.B Estimated resource use and costs for field operations, per acre, Rice, Ratoon Crop, Southwest Louisiana, 2019.

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---------		
Blade-Scraper	10'	MFWD 150	1.176	0.06	Aug	1.65	1.90	0.12	0.11	0.07	0.76				4.54
Irrigation System 3					Aug										
App Fert by Air	cwt			1.00	Aug							1.2000	7.00	8.40	8.40
LA Nitrogen	lb											55.0000	0.43	23.65	23.65
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine-2	25 ft		0.300	1.00	Oct	20.99	23.93			0.33	5.05				49.97
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Oct	0.27	0.31	0.08	0.15	0.01	0.12				0.93
LARice Haul	cwt			1.00	Oct							23.0000	0.30	6.90	6.90
LARice Dry	cwt			1.00	Nov							25.5000	0.90	22.95	22.95
Irrigation System 3	acre				Aug			32.84		0.08	0.93	1.0000			33.77
TOTALS						22.91	26.14	33.04	0.26	0.49	6.86			62.25	151.46
INTEREST ON OPERATING CAPITAL															2.11
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															153.57

Table 6.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Ratoon Crop,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	18.4	41	49	58	66	75	84	92	101	109
85%	19.6	51	60	69	78	88	97	106	115	125
90%	20.7	61	71	81	90	100	110	120	130	140
95%	21.9	71	81	92	102	113	123	134	144	155
100%	23.0	81	92	103	114	126	137	148	159	170
105%	24.2	91	103	115	126	138	150	162	174	185
110%	25.3	101	114	126	138	151	163	176	188	201
115%	26.5	111	124	137	151	164	177	190	203	216
120%	27.6	121	135	149	163	176	190	204	217	231

Net returns above direct costs for an owner operator is calculated here as market revenue less direct production costs. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses.

Table 6.C2 Estimated Net Returns above Total Specified Costs for an Owner Operator
Rice, Ratoon Crop,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	18.4	14	23	31	40	49	57	66	74	83
85%	19.6	24	34	43	52	61	70	80	89	98
90%	20.7	34	44	54	64	74	84	94	104	113
95%	21.9	44	55	66	76	87	97	108	118	129
100%	23.0	55	66	77	88	99	110	121	133	144
105%	24.2	65	77	88	100	112	124	135	147	159
110%	25.3	75	87	100	112	124	137	149	162	174
115%	26.5	85	98	111	124	137	150	163	176	189
120%	27.6	95	109	122	136	150	163	177	191	204

Net returns above total specified costs for an owner operator is calculated here as market revenue less total specified costs. <u>Specified costs include charges for direct costs and fixed machinery costs but excludes charges for land, general farm overhead and management expenses</u>.

Table 6.D1 Estimated Net Returns above Direct Costs for a Tenant Operator
Rice, Ratoon Crop,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	18.4	32	38	44	50	56	62	68	74	80
85%	19.6	39	46	52	59	65	71	78	84	91
90%	20.7	46	53	60	67	74	81	88	95	102
95%	21.9	53	61	68	75	83	90	97	105	112
100%	23.0	60	68	76	84	92	99	107	115	123
105%	24.2	67	76	84	92	100	109	117	125	133
110%	25.3	75	83	92	101	109	118	127	135	144
115%	26.5	82	91	100	109	118	127	136	146	155
120%	27.6	89	98	108	117	127	137	146	156	165

Net returns above direct costs for a tenant operator is calculated here as the grower’s share of market revenue less direct production costs paid by the grower. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 6.D2 Estimated Net Returns above Total Specified Costs for a Tenant Operator
Rice, Ratoon Crop,
Southwest Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	18.4	6	12	18	24	30	36	42	48	54
85%	19.6	13	19	26	32	39	45	52	58	64
90%	20.7	20	27	34	41	47	54	61	68	75
95%	21.9	27	34	42	49	56	64	71	78	86
100%	23.0	34	42	50	57	65	73	81	89	96
105%	24.2	41	49	58	66	74	82	91	99	107
110%	25.3	48	57	65	74	83	92	100	109	118
115%	26.5	55	64	73	83	92	101	110	119	128
120%	27.6	62	72	81	91	101	110	120	129	139

Net returns above total specified costs for a tenant operator is calculated here as the grower’s share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 7.A Estimated costs per acre,
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Northeast Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge_NE	acre	0.25	7.0000	1.75	_________
App by Air (5 gal)	appl	6.50	4.0000	26.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	78.0000	70.20	_________
FERTILIZERS					
LA Nitrogen	lb	0.43	170.0000	73.10	_________
FUNGICIDES					
Quadris	oz	1.13	10.0000	11.30	_________
HERBICIDES					
Command 3ME	pt	18.50	0.8000	14.80	_________
Permit 75DF	oz	18.50	1.0000	18.50	_________
INSECTICIDES					
Karate Z	oz	1.02	4.0000	4.08	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Seed Conv.	lb	0.30	90.0000	27.00	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.7000	25.90	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	71.0000	21.30	_________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	10.73	0.8249	8.85	_________
LA Irrigation Labor					
Irrigation System 5	hour	10.73	0.4361	4.66	_________
DIESEL FUEL					
Tractors	gal	2.50	7.9039	19.76	_________
Self-Propelled	gal	2.50	2.5825	6.46	_________
Irrigation System 5	gal	2.50	28.5331	71.34	_________
REPAIR & MAINTENANCE					
Implements	acre	5.93	1.0000	5.93	_________
Tractors	acre	4.35	1.0000	4.35	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 5	acre	2.17	1.0000	2.17	_________
INTEREST ON OP. CAP.	acre	8.63	1.0000	8.63	_________

TOTAL DIRECT EXPENSES				450.16	_________
FIXED EXPENSES					
Implements	acre	14.11	1.0000	14.11	_________
Tractors	acre	29.68	1.0000	29.68	_________
Self-Propelled	acre	23.93	1.0000	23.93	_________
Irrigation System 5	acre	15.02	1.0000	15.02	_________

TOTAL FIXED EXPENSES				82.74	_________

TOTAL SPECIFIED EXPENSES				532.90	_________

Table 7.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Drill Plant, Conventional Tillage, (In Rotation), Northeast Louisiana, 2019.

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---------		
Disk Harrow	32'	4WD 300	0.061	1.00	Nov	2.92	3.79	1.00	2.34	0.06	0.66				10.71
Ditcher		MFWD 150	0.020	2.00	Nov	0.93	1.08	0.09	0.13	0.04	0.43				2.66
Disk Harrow	28'	MFWD 190	0.070	2.00	Mar	4.20	5.30	2.03	4.74	0.14	1.51				17.78
Irrigation System 5					Mar										
Ditcher		MFWD 150	0.020	1.00	Mar	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Field Cultivate	32'	4WD 300	0.046	1.00	Mar	2.22	2.88	0.51	2.36	0.04	0.50				8.47
LARice Levee Plow	8 ft	MFWD 190	0.050	4.00	Mar	5.98	7.55	0.31	0.81	0.20	2.15				16.80
App Fert by Air	cwt			1.00	Apr							0.4000	7.00	2.80	2.80
LA Nitrogen	lb											20.0000	0.43	8.60	8.60
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.20	2.54	1.37	2.92	0.18	1.86				10.89
Rice Seed Conv.	lb											90.0000	0.30	27.00	27.00
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.67	0.13	0.20	0.02	0.27				1.85
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.40	1.62	0.13	0.16	0.05	0.64				3.95
Command 3ME	pt											0.8000	18.50	14.80	14.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Permit 75DF	oz											1.0000	18.50	18.50	18.50
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	May							2.0000	7.00	14.00	14.00
LA Nitrogen	lb											90.0000	0.43	38.70	38.70
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.43	25.80	25.80
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.13	11.30	11.30
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
LA Rice Combine	25 ft		0.300	1.00	Aug	20.99	23.93			0.33	5.05				49.97
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.31	0.08	0.15	0.01	0.12				0.93
LARice Haul	cwt			1.00	Aug							71.0000	0.30	21.30	21.30
LARice Dry	cwt			1.00	Aug							78.0000	0.90	70.20	70.20
Irrigation System 5	acre				Mar			73.51	15.02	0.43	4.66	1.0000			93.19
TOTALS						45.10	53.61	79.44	29.13	1.68	19.41			297.58	524.27
INTEREST ON OPERATING CAPITAL															8.63
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															532.90

Table 7.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Conventional Variety, Drill Planted, Conventional Tillage, Northeast Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	59.2	85	113	140	168	196	223	251	279	307
85%	62.9	117	147	177	207	236	266	296	326	355
90%	66.6	150	182	214	245	277	309	341	373	404
95%	70.3	183	216	250	284	318	352	385	419	453
100%	74.0	215	251	287	323	359	394	430	466	502
105%	77.7	248	286	323	361	399	437	475	513	551
110%	81.4	280	320	360	400	440	480	520	560	600
115%	85.1	313	355	397	439	481	523	565	607	649
120%	88.8	345	389	433	477	521	565	609	653	697

Net returns above direct costs for an owner operator is calculated here as market revenue less direct production costs. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses.

Table 7.C2 Estimated Net Returns above Total Specified Costs for an Owner Operator Rice, Conventional Variety, Drill Planted, Conventional Tillage, Northeast Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	59.2	2	30	58	85	113	141	168	196	224
85%	62.9	35	64	94	124	154	183	213	243	273
90%	66.6	67	99	131	163	194	226	258	290	322
95%	70.3	100	134	167	201	235	269	303	337	370
100%	74.0	132	168	204	240	276	312	348	383	419
105%	77.7	165	203	241	279	317	354	392	430	468
110%	81.4	197	237	277	317	357	397	437	477	517
115%	85.1	230	272	314	356	398	440	482	524	566
120%	88.8	263	307	351	395	439	483	527	571	615

Net returns above total specified costs for an owner operator is calculated here as market revenue less total specified costs. Specified costs include charges for direct costs and fixed machinery costs but excludes charges for land, general farm overhead and management expenses.

Table 7.D1 Estimated Net Returns above Direct Costs for a Tenant Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Northeast Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	59.2	23	43	62	81	101	120	140	159	178
85%	62.9	46	67	88	108	129	150	171	192	213
90%	66.6	69	91	113	135	158	180	202	225	247
95%	70.3	92	115	139	163	186	210	234	257	281
100%	74.0	114	139	165	190	215	240	265	290	315
105%	77.7	137	164	190	217	243	270	296	323	349
110%	81.4	160	188	216	244	272	300	328	356	384
115%	85.1	183	212	241	271	300	330	359	388	418
120%	88.8	205	236	267	298	329	359	390	421	452

Net returns above direct costs for a tenant operator is calculated here as the grower’s share of market revenue less direct production costs paid by the grower. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 7.D2 Estimated Net Returns above Total Specified Costs for a Tenant Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Northeast Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	59.2	-45	-25	-6	14	33	52	72	91	111
85%	62.9	-22	-1	20	41	62	82	103	124	145
90%	66.6	1	23	46	68	90	112	135	157	179
95%	70.3	24	47	71	95	119	142	166	190	213
100%	74.0	47	72	97	122	147	172	197	222	247
105%	77.7	69	96	122	149	175	202	229	255	282
110%	81.4	92	120	148	176	204	232	260	288	316
115%	85.1	115	144	174	203	232	262	291	321	350
120%	88.8	138	169	199	230	261	292	323	353	384

Net returns above total specified costs for a tenant operator is calculated here as the grower’s share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 8.A Estimated costs per acre,
Rice, Clearfield Variety, Drill Planted, Conventional Tillage,
Northest Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge_NE	acre	0.25	8.0000	2.00	_________
App by Air (5 gal)	appl	6.50	5.0000	32.50	_________
GIN/DRY					
LARice Dry	cwt	0.90	82.1000	73.89	_________
FERTILIZERS					
LA Nitrogen	lb	0.43	170.0000	73.10	_________
FUNGICIDES					
Quadris	oz	1.13	10.0000	11.30	_________
HERBICIDES					
Newpath 2SL	oz	3.83	8.0000	30.64	_________
Aim 2EC	oz	5.25	1.6000	8.40	_________
INSECTICIDES					
Karate Z	oz	1.02	4.0000	4.08	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Clearfield 161	lb	1.05	75.0000	78.75	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.7000	25.90	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	74.0000	22.20	_________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	10.73	0.7537	8.08	_________
LA Irrigation Labor					
Irrigation System 5	hour	10.73	0.4361	4.66	_________
DIESEL FUEL					
Tractors	gal	2.50	6.7604	16.91	_________
Self-Propelled	gal	2.50	2.5825	6.46	_________
Irrigation System 5	gal	2.50	28.5331	71.34	_________
REPAIR & MAINTENANCE					
Implements	acre	5.77	1.0000	5.77	_________
Tractors	acre	3.70	1.0000	3.70	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 5	acre	2.17	1.0000	2.17	_________
INTEREST ON OP. CAP.	acre	10.08	1.0000	10.08	_________

TOTAL DIRECT EXPENSES				516.01	_________
FIXED EXPENSES					
Implements	acre	13.92	1.0000	13.92	_________
Tractors	acre	25.26	1.0000	25.26	_________
Self-Propelled	acre	23.93	1.0000	23.93	_________
Irrigation System 5	acre	15.02	1.0000	15.02	_________

TOTAL FIXED EXPENSES				78.13	_________

TOTAL SPECIFIED EXPENSES				594.14	_________

Table 8.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Drill Plant, Conventional Tillage, (In Rotation), Northeast Louisiana, 2019.

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---------		
Disk Harrow	28'	MFWD 190	0.070	1.00	Nov	2.10	2.65	1.01	2.37	0.07	0.75				8.88
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Disk Harrow	28'	MFWD 190	0.070	2.00	Mar	4.20	5.30	2.03	4.74	0.14	1.51				17.78
Irrigation System 5					Mar										
Ditcher		MFWD 150	0.020	1.00	Mar	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Field Cultivate	32'	MFWD 190	0.046	1.00	Mar	1.40	1.76	0.51	2.36	0.04	0.50				6.53
LARice Levee Plow	8 ft	MFWD 190	0.050	4.00	Mar	5.98	7.55	0.31	0.81	0.20	2.15				16.80
App Fert by Air	cwt			1.00	Apr							0.4000	7.00	2.80	2.80
LA Nitrogen	lb											20.0000	0.43	8.60	8.60
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.20	2.54	1.37	2.92	0.18	1.86				10.89
Rice Clearfield 161	lb											75.0000	1.05	78.75	78.75
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.47	2.86	0.18	0.16	0.10	1.14				6.81
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.54	0.05	0.07	0.02	0.21				1.34
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.67	0.13	0.20	0.02	0.27				1.85
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
Aim 2EC	oz											1.6000	5.25	8.40	8.40
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	May							2.0000	7.00	14.00	14.00
LA Nitrogen	lb											90.0000	0.43	38.70	38.70
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.43	25.80	25.80
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.13	11.30	11.30
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	1.02	2.04	2.04
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
LA Rice Combine	25 ft		0.300	1.00	Aug	20.99	23.93			0.33	5.05				49.97
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.31	0.08	0.15	0.01	0.12				0.93
LARice Haul	cwt			1.00	Aug							74.0000	0.30	22.20	22.20
LARice Dry	cwt			1.00	Aug							82.1000	0.90	73.89	73.89
Irrigation System 5	acre				Mar			73.51	15.02	0.43	4.66	1.0000			93.19
TOTALS						41.60	49.19	79.28	28.94	1.61	18.64			366.41	584.06
INTEREST ON OPERATING CAPITAL															10.08
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															594.14

Table 8.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Northeast Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	59.2	23	51	78	106	134	161	189	217	245
85%	62.9	55	85	115	145	174	204	234	264	293
90%	66.6	88	120	152	183	215	247	279	310	342
95%	70.3	120	154	188	222	256	290	323	357	391
100%	74.0	153	189	225	261	296	332	368	404	440
105%	77.7	186	224	261	299	337	375	413	451	489
110%	81.4	218	258	298	338	378	418	458	498	538
115%	85.1	251	293	335	377	419	461	503	544	586
120%	88.8	283	327	371	415	459	503	547	591	635

Net returns above direct costs for an owner operator is calculated here as market revenue less direct production costs. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses.

Table 8.C2 Estimated Net Returns above Total Specified Costs for an Owner Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Northeast Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	59.2	-55	-27	1	29	56	84	112	140	167
85%	62.9	-22	8	38	67	97	127	157	186	216
90%	66.6	11	42	74	106	138	170	201	233	265
95%	70.3	43	77	111	145	178	212	246	280	314
100%	74.0	76	112	147	183	219	255	291	327	363
105%	77.7	108	146	184	222	260	298	336	374	411
110%	81.4	141	181	221	261	301	340	380	420	460
115%	85.1	173	215	257	299	341	383	425	467	509
120%	88.8	206	250	294	338	382	426	470	514	558

Net returns above total specified costs for an owner operator is calculated here as market revenue less total specified costs. Specified costs include charges for direct costs and fixed machinery costs but excludes charges for land, general farm overhead and management expenses.

Table 8.D1 Estimated Net Returns above Direct Costs for a Tenant Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Northeast Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	59.2	-39	-19	0	19	39	58	78	97	116
85%	62.9	-16	5	26	46	67	88	109	130	151
90%	66.6	7	29	51	73	96	118	140	162	185
95%	70.3	29	53	77	101	124	148	172	195	219
100%	74.0	52	77	102	128	153	178	203	228	253
105%	77.7	75	102	128	155	181	208	234	261	287
110%	81.4	98	126	154	182	210	238	266	294	321
115%	85.1	121	150	179	209	238	268	297	326	356
120%	88.8	143	174	205	236	267	297	328	359	390

Net returns above direct costs for a tenant operator is calculated here as the grower’s share of market revenue less direct production costs paid by the grower. Direct costs include charges for variable production costs for items such as seed, fertilizer, chemicals, fuel, labor, repair and custom application expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 8.D2 Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Northeast Louisiana, 2019.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$8.80	$9.35	$9.90	$10.45	$11.00	$11.55	$12.10	$12.65	$13.20
		($/acre)								
80%	59.2	-101	-82	-62	-43	-24	-4	15	35	54
85%	62.9	-78	-58	-37	-16	5	26	47	67	88
90%	66.6	-56	-33	-11	11	33	56	78	100	122
95%	70.3	-33	-9	15	38	62	86	109	133	157
100%	74.0	-10	15	40	65	90	115	141	166	191
105%	77.7	13	39	66	92	119	145	172	198	225
110%	81.4	36	63	91	119	147	175	203	231	259
115%	85.1	58	88	117	146	176	205	235	264	293
120%	88.8	81	112	143	174	204	235	266	297	328

Net returns above total specified costs for a tenant operator is calculated here as the grower’s share of market revenue less total specified costs paid by the grower. <u>Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses</u>. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Appendix Table 1. Rice Irrigation System 1 Costs, Water Planted, Southwest Louisiana, 2019.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST (dollars)								
Underground Pipe 1	each								13.05	13.05
Gearhead 1	each								2.29	2.29
Engine 1	each								9.08	9.08
Application 1	Ac-in		13.14	0.60	0.37		0.71	14.82		14.82
Application 2	Ac-in		13.14	0.60	0.37		0.63	14.74		14.74
Application 3	Ac-in		16.42	0.75	0.46		0.71	18.34		18.34
Application 4	Ac-in		19.70	0.90	0.55		0.74	21.89		21.89
Application 5	Ac-in		19.70	0.90	0.55		0.63	21.78		21.78
Well 1	each								7.67	7.67
Pump 1	each								7.22	7.22
TOTALS		0.00	82.10	3.75	2.30	0.00	3.42	91.57	39.31	130.88

Note: Total irrigation application of 25 acre-inches.

Appendix Table 2. Rice Irrigation System 2 Costs, Drill Planted, Southwest Louisiana, 2019.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST (dollars)								
Pump 2	each								7.22	7.22
Gearhead 2	each								2.29	2.29
Engine 2	each								9.08	9.08
Application 1	Ac-in		9.85	0.40	0.25		0.53	11.03		11.03
Application 2	Ac-in		9.85	0.40	0.25		0.53	11.03		11.03
Application 3	Ac-in		16.42	0.67	0.41		0.79	18.29		18.29
Application 4	Ac-in		16.42	0.67	0.41		0.70	18.20		18.20
Application 5	Ac-in		19.70	0.80	0.49		0.73	21.72		21.72
Application 6	Ac-in		16.42	0.67	0.41		0.53	18.03		18.03
Well 2	each								7.67	7.67
Underground Pipe 2	each								13.05	13.05
TOTALS		0.00	88.66	3.61	2.22	0.00	3.81	98.30	39.31	137.61

Note: Total irrigation application of 28 acre-inches.

Appendix Table 3. Rice Irrigation System 3 Costs, Ratoon Crop, Southwest Louisiana, 2019.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST (dollars)								
Engine 1a	each									
Application 1	Ac-in		22.99		0.65		0.59	24.23		24.23
Application 2	Ac-in		9.85		0.28		0.20	10.33		10.33
TOTALS		0.00	32.84	0.00	0.93	0.00	0.79	34.56	0.00	34.56

Note: Total irrigation application of 10 acre-inches.

Appendix Table 4. Rice Irrigation System 5 Costs, Drill Planted, Northeast Louisiana, 2019.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST (dollars)								
Engine 4	each								4.44	4.44
Application 1	Ac-in		11.51	0.34	0.75		0.57	13.17		13.17
Application 2	Ac-in		11.51	0.34	0.75		0.57	13.17		13.17
Application 3	Ac-in		11.51	0.34	0.75		0.44	13.04		13.04
Application 4	Ac-in		23.01	0.67	1.51		0.76	25.95		25.95
Application 5	Ac-in		11.51	0.34	0.75		0.32	12.92		12.92
Gearhead 4	each								1.20	1.20
Pump 4	each								3.81	3.81
Well 4	each								2.56	2.56
Underground Pipe 4	each								3.26	3.26
TOTALS		0.00	69.05	2.03	4.51	0.00	2.66	78.25	15.27	93.52

Note: Total irrigation application of 31 acre-inches

Appendix Table 5. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
		dollars
ADJUVANTS		
Surfactant	**pt**	**1.75**
CUSTOM FERT/LIME		
App Fert by Air	**cwt**	**7.00**
App Fert by Air(Min)	**appl**	**7.00**
Custom Apply Fert	**acre**	**7.50**
Custom Spread(Truc	**appl**	**4.50**
Lime (Spread)	**ton**	**38.00**
CUSTOM HARVEST/HAUL		
Custom Combine Rice	**acre**	**0.00**
Haul Corn	**bu**	**0.23**
Haul Cotton	**lb**	**0.02**
Haul Rice	**bu**	**0.35**
Haul Rice (cwt)	**cwt**	**0.25**
Haul Sorghum	**bu**	**0.25**
Haul Soybeans	**bu**	**0.27**
Haul Wheat	**bu**	**0.26**
LARice Haul	**cwt**	**0.30**
CUSTOM PLANT		
Custom Spread + Seed	**appl**	**0.00**
LARice Air Plant NE	**cwt**	**5.50**
LARice Air Plant SW	**cwt**	**5.60**
Plant by Air	**cwt**	**7.00**
CUSTOM SPRAY		
App 2,4-D Helicopter	**appl**	**0.00**
App by Air (1 gal)	**appl**	**2.50**
App by Air (2 gal)	**appl**	**4.00**
App by Air (3 gal)	**appl**	**5.00**
App by Air (5 gal)	**appl**	**6.50**
App by Air (10 gal)	**appl**	**9.00**
App Furadan by Air	**appl**	**0.00**
App Ordram by Air	**appl**	**0.00**
Custom Apply	**acre**	**7.00**
Custom Terragator	**acre**	**5.00**
LARice GPS Charge-SW	**acre**	**0.35**
LARice GPS Charge_NE	**acre**	**0.25**
Spray Levees, 4whlr	**acre**	**0.00**
FERTILIZERS		
Amm Nitrate (34% N)	**cwt**	**22.50**
Amm Sulfate (21% N)	**cwt**	**13.43**
Anhy Ammonia (82% N)	**cwt**	**28.00**
Boron (Solubor)	**lb**	**0.75**
Crop Oil (Seed Oil)	**pt**	**4.60**
DAP	**cwt**	**23.76**
Fert 0-20-20	**cwt**	**0.00**
Fert 10-10-10	**cwt**	**0.00**
Fert 10-34-0	**cwt**	**22.25**
Fert 10-34-0	**gal**	**2.59**
Fert 13-13-13	**cwt**	**0.00**
Fert 41-0-0-4	**cwt**	**13.50**
Fert 5-20-20	**cwt**	**0.00**
LA Nitrogen	**lb**	**0.43**
LA Phosphate	**lb**	**0.55**
LA Potash	**lb**	**0.32**
Phosphorus(46% P2O5)	**cwt**	**23.75**
Potash (60% K2O)	**cwt**	**20.00**
Sulfur	**lb**	**0.34**
UAN (32% N)	**cwt**	**11.25**
UAN + Sulfur (28% N)	**cwt**	**12.40**
Urea, Solid (46% N)	**cwt**	**14.50**
Zinc	**lb**	**0.50**
FUNGICIDES		
Apron Maxx RTA	**oz**	**0.95**
Apron XL	**oz**	**6.98**
Apron XL LS	**oz**	**5.27**
Benlate 50 WP	**lb**	**15.95**
Captan 4L	**pt**	**2.83**
Captan 50 WP	**lb**	**4.28**
Crop Oil (Petroleum)	**pt**	**2.37**
Cruiser 5FS	**oz**	**17.38**
Delta Coat AD	**oz**	**3.75**
Dithane F-45	**qt**	**7.81**

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
FUNGICIDES CONT'D		
Dithane Rainsheild	**lb**	**4.08**
Fungicide	**lb**	**2.82**
Gem 25 WG	**oz**	**3.70**
Manzate 75 DF	**lb**	**4.86**
Manzate Flowable	**pt**	**4.60**
Moncut 70 DF	**lb**	**32.81**
Orbit	**oz**	**2.75**
Prevail	**lb**	**28.50**
Quadris	**oz**	**1.13**
Ridomil GoldPC 10G	**lb**	**2.08**
Ridomil Gold PC	**lb**	**5.30**
Ridomil Gold PC Liq	**oz**	**6.42**
Rovral 4F	**pt**	**14.90**
Rovral WG	**lb**	**0.00**
Shelter	**oz**	**8.50**
Stiletto	**oz**	**0.58**
Stratego	**pt**	**76.88**
Terrachlor Flowable	**pt**	**4.74**
Terraclor 2EC	**pt**	**1.87**
Terraclor Super X EC	**pt**	**3.95**
Terraclor Super X G	**lb**	**2.82**
Tilt 3.6 EC	**oz**	**0.75**
Vitavax 200	**oz**	**0.47**
Vitavax M Flowable	**oz**	**1.06**
Vitavax RTU-Thiram	**oz**	**0.40**
Vitavax T-L	**oz**	**0.29**
GIN/DRY		
Dry Corn	**bu**	**0.19**
Dry Grain Sorghum	**cwt**	**0.25**
Dry Rice	**bu**	**0.40**
Dry Rice (cwt)	**cwt**	**0.90**
Gin	**lb**	**0.11**
LARice Dry	**cwt**	**0.90**
GROWTH REGULATORS		
Early Harvest PGR	**oz**	**1.55**
LA Polado	**oz**	**0.18**
Mepex	**oz**	**0.08**
PGR IV	**oz**	**1.55**
Pix Plus	**oz**	**0.40**
Pix Ultra	**oz**	**0.39**
HARVEST AIDS		
Accelerate	**pt**	**2.59**
Ammonium Sulfate	**lb**	**0.24**
Boll'd	**pt**	**7.01**
CottonQuik	**pt**	**6.06**
Def 6	**pt**	**6.88**
Def/Folex	**pt**	**7.00**
Dropp 50 WP	**lb**	**45.45**
Dropp SC	**oz**	**1.09**
Ethephon 6E	**pt**	**3.53**
Finish 6	**pt**	**9.60**
Folex 6EC	**pt**	**10.90**
Ginstar EC	**pt**	**26.41**
Gramoxone Extra	**pt**	**4.86**
Gramoxone Max	**pt**	**4.16**
Harvade 5F	**oz**	**0.67**
Leafless	**pt**	**18.56**
Prep	**pt**	**3.00**
Sodium Chlorate 3L	**gal**	**3.50**
Solium Chlorate 6L	**gal**	**5.57**
Starfire	**pt**	**0.00**
HERBICIDES		
2,4-D Amine 4	**pt**	**2.31**
2,4-D Ester	**pt**	**4.17**
AAtrex 4L	**pt**	**2.12**
AAtrex NINE-O	**lb**	**3.96**
Accent Gold	**oz**	**6.12**
Accent SP	**oz**	**36.25**
Aim 2EC	**oz**	**5.25**
Aim DF	**oz**	**9.65**

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Arrosolo	**qt**	**7.88**
Assure II	**oz**	**0.74**
Atrazine 4L	**pt**	**1.50**
Atrazine 90DF	**lb**	**3.38**
Authority 75DF	**lb**	**26.95**
Axiom 68DF	**lb**	**25.74**
Backdraft	**pt**	**2.40**
Banvel	**pt**	**13.43**
Basagran	**pt**	**12.31**
Basis Gold	**lb**	**9.00**
Beacon 75% WSP	**oz**	**34.87**
Beyond	**oz**	**4.48**
Bicep II Magnum	**qt**	**11.01**
Bicep II zmsgnum	**qt**	**10.97**
bladex 4L	**qt**	**0.00**
Bladex 90DF	**lb**	**0.00**
Blazer 2L	**pt**	**0.00**
Blazer Ultra	**pt**	**9.79**
Boa	**pt**	**3.63**
Bolero 8EC	**pt**	**7.73**
Boundary	**pt**	**11.21**
Buctril 4EC	**pt**	**17.06**
Butoxone 175(2,4-DB)	**pt**	**3.24**
Butoxone 200(2,4-DB)	**pt**	**3.92**
Butyrac 175 (2,4-DB)	**pt**	**3.29**
Butyrac 200 (2,4-DB)	**pt**	**4.34**
Canopy 75%	**oz**	**2.74**
Canopy XL	**oz**	**2.23**
Caparol 4L	**pt**	**4.52**
Caparol Accu-Pak	**lb**	**0.00**
Celebrity Plus	**lb**	**84.50**
Clarity	**pt**	**11.51**
Classic	**oz**	**17.18**
Clincher EC	**oz**	**2.30**
Cobra 2EC	**oz**	**1.72**
Command 3ME	**pt**	**18.50**
Command XTRA	**pt**	**0.00**
Conclude Ultra	**pt**	**0.00**
Conclude Ultra	**pt**	**0.00**
Conclude XACT	**pt**	**11.32**
Conclude XTRA	**pt**	**8.32**
Cornerstone	**pt**	**2.50**
Cotoran 4L	**pt**	**6.42**
Cotoran DF	**lb**	**7.92**
Cotton Pro Flowable	**pt**	**3.52**
Crossbow	**pt**	**8.05**
Cy-Pro 4L	**qt**	**0.00**
Cypro 90DF	**lb**	**0.00**
Delta Goal	**pt**	**9.44**
Denim 0.16 EC	**pt**	**24.06**
Detail	**pt**	**7.99**
Direx 4L	**pt**	**3.99**
Direx 80 DF	**lb**	**6.20**
Diuron 4L	**pt**	**3.90**
Diuron 80 DF	**lb**	**5.09**
Domain 60DF	**lb**	**12.75**
DSMA 4	**pt**	**0.90**
Dual 8E	**pt**	**0.00**
Dual II Magnum	**pt**	**14.50**
Dual Magnum	**pt**	**13.81**
Duet	**pt**	**5.35**
Evik DF 80W	**lb**	**11.22**
Exceed	**oz**	**10.71**
Exceed Custom Pak	**oz**	**11.50**
Expert	**pt**	**4.39**
Facet 75DF	**lb**	**50.00**
First Rate	**oz**	**43.40**
Flexstar HL	**pt**	**4.50**
FloMet 4L	**pt**	**4.74**
Freedom	**qt**	**2.51**
Front Row	**oz**	**21.92**
Frontier 6.0	**oz**	**0.63**

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
Fultime	**pt**	**6.29**
Fusilade DX	**oz**	**1.00**
Fusion	**pt**	**29.86**
Glyfos	**pt**	**1.80**
Glyphomax	**pt**	**3.49**
Glyphosate Plus 4L	**pt**	**2.00**
Glystar Plus	**pt**	**2.17**
Goal 2XL	**pt**	**9.89**
Gramoxone Extra	**pt**	**0.00**
Gramoxone Max	**pt**	**4.16**
Gramoxone Max	**pt**	**4.16**
Grandstand R	**qt**	**17.15**
Guardsman	**pt**	**4.66**
Guardsman Max	**pt**	**7.22**
Harmony Extra	**oz**	**14.43**
Hoelon 3EC	**pt**	**11.03**
Karmex DF	**lb**	**5.93**
LA Asulox/Asulam	**gal**	**42.20**
LA Weedmaster	**qt**	**5.75**
Lariat	**qt**	**7.58**
Lasso 4EC	**qt**	**6.60**
Lasso II 15G	**lb**	**0.00**
Layby Pro	**qt**	**12.60**
Lexone 75DF	**lb**	**18.90**
Liberty	**pt**	**8.84**
Lightning	**oz**	**14.25**
Lightning	**oz**	**14.25**
Linex 4L	**pt**	**9.28**
Londax 60DF	**oz**	**18.08**
Lorox 50DF	**lb**	**24.12**
Matador	**pt**	**0.00**
MSMA 6.6	**pt**	**3.68**
MSMA6 + Surfactant	**pt**	**3.63**
Newpath 2SL	**oz**	**3.83**
Ordram 15-G	**lb**	**1.34**
Ordram 8-E	**pt**	**9.42**
Outlook	**pt**	**17.47**
Pendimax 3.3	**pt**	**2.47**
Permit 75DF	**oz**	**18.50**
Poast 1.53	**pt**	**12.77**
Poast Plus	**pt**	**9.69**
Propanil 4E	**qt**	**5.15**
Prowl 3.3 EC	**pt**	**5.44**
Pursuit DG	**oz**	**11.59**
Pursuit Plus EC	**pt**	**7.10**
Python WDG	**oz**	**15.58**
Raptor	**oz**	**4.38**
Reflex 2LC	**pt**	**6.52**
Regiment 80WP	**oz**	**4.38**
Remedy	**pt**	**8.45**
Resource .86EC	**pt**	**29.40**
Ricestar	**pt**	**24.35**
Roundup Original	**pt**	**6.00**
Roundup Original Max	**oz**	**0.38**
Roundup Power Max	**pt**	**2.94**
Roundup Ultra MAX	**pt**	**5.97**
Roundup Ultra Dry	**lb**	**6.14**
Roundup WeatherMax	**oz**	**0.26**
Scepter 70 DG	**oz**	**4.48**
Select 2EC	**oz**	**0.70**
Sencor 4F	**pt**	**14.74**
Sencor DF	**lb**	**12.75**
Squadron CE	**pt**	**12.50**
Stam 4E	**qt**	**5.12**
Stam 80 EDF	**lb**	**9.64**
Staple 85%	**oz**	**16.01**
Staple Plus	**oz**	**8.55**
Steadfast	**oz**	**12.26**
Steel	**pt**	**10.28**
Storm	**pt**	**11.41**
Strongarm	**oz**	**56.42**
Superwham	**qt**	**9.20**
Suprend	**lb**	**13.74**

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	9.32
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	6.97
Treflan HFP	pt	3.52
Treflan TR-10	lb	1.10
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.52
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	4.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	7.92
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.92
Asana .66 XL	oz	0.58
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.30
Bidrin 8L	oz	1.33
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	5.37
Comite	pt	8.45
Condor XL	pt	0.00
Confirm 2F	oz	1.86
Counter 15G	lb	4.51
Counter CR	lb	2.65
Curacron 8E	pt	10.75
Decis 1.5EC	oz	2.84
Declare	pt	4.08
Denim 0.16EC	pt	32.63
Di-Syston 15G	lb	3.48
Di-Syston 8	pt	14.32
Dimethoate 4E	pt	5.35
Dimilin 2L	oz	2.13
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	6.03
Furadan 3G	lb	0.00
Furadan 4F	pt	9.81
Fury 1.5 EC	oz	1.30
Gaucho 480	oz	5.80
Intrepid 2F	oz	1.80
Intruder 70WP	oz	9.71
Karate Z	oz	1.02
Lannate LV	pt	10.99
Lannate SP	oz	2.42
Larvin 3.2	oz	0.63
Leverage 2.7	oz	2.17
Lorsban 15G	lb	2.35
Lorsban 4E	pt	6.10
Malathion 57EC	pt	4.23
Malathion 8E	pt	5.50
Malathion ULV	pt	4.93
Mepichlor 4.2% Liq	pt	5.91
Methyl Parathion	pt	5.79
Monitor 4	pt	16.50
Monitor 4	pt	16.50
Mustang Max	oz	1.48
Organophosphate	oz	0.00
Orthene 90S	lb	6.00
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00
Penncap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	14.13
Pounce 3.2 EC	oz	0.34

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
INSECTICIDES CONT'D		
Provado 1.6F	**oz**	**1.94**
Scout X-TRA	**oz**	**0.00**
Sevin 80S	**lb**	**7.40**
Sevin XLR Plus	**qt**	**13.23**
Spintor 2SC	**oz**	**4.93**
Steward	**pt**	**39.51**
Synthetic Pyrethroid	**oz**	**0.00**
Temik 15G Grit	**lb**	**4.00**
Thimet 20-G	**lb**	**3.65**
Thionex 3EC	**pt**	**4.17**
Thionex 50W	**lb**	**10.45**
Tracer	**oz**	**9.73**
Trimax	**oz**	**1.85**
Vydate C-LV	**oz**	**0.93**
Warrior Z	**oz**	**1.80**
Warrior ZT	**oz**	**1.88**
IRRIGATION SUPPLIES		
Rice Gates	**each**	**3.65**
Roll-Out Pipe	**ft**	**0.25**
OVERHEAD		
Farmstead & Drainage	**Dol**	**1.00**
LARice Insurance	**Dollar**	**1.00**
LARice Misc. Overhd	**dollar**	**1.00**
LARice Property Tax	**dollar**	**1.00**
Shops Bldg & Equip.	**Dol**	**6.55**
SERVICE FEE		
Utilities	**Dol**	**1.00**
SEED/PLANTS		
Corn Seed Bt	**thous**	**2.60**
Corn Seed BtRR	**thous**	**3.63**
Corn Seed Conv.	**thous**	**2.89**
Corn Seed RR	**thous**	**3.13**
Cotton Seed Bt	**thoud**	**0.28**
Cotton Seed BtRR	**thous**	**1.26**
Cotton Seed Bxn	**thous**	**0.00**
Cotton Seed Conv.	**thous**	**0.00**
Cotton Seed Liberty	**thous**	**1.05**
Cotton Seed RR	**thous**	**0.63**
Cotton Seed RR	**thous**	**0.63**
LA Hybrid Rice Seed	**acre**	**165.00**
Rice Clearfield 161	**lb**	**1.05**
Rice Clearfield XL8	**lb**	**6.12**
Rice Seed (Levees)	**lb**	**0.43**
Rice Seed CF(Levees)	**lb**	**0.90**
Rice Seed Conv.	**lb**	**0.30**
Rice Seed Hybrid	**lb**	**5.66**
SC Cultured seedcane	**acre**	**484.00**
Sorghum Concept	**lb**	**2.10**
Sorghum NonConcept	**lb**	**1.18**
Soybean Seed Private	**lb**	**0.38**
Soybean Seed Public	**lb**	**0.00**
Soybean Seed RR	**lb**	**1.30**
Wheat Seed Private	**lb**	**0.22**
Wheat Seed Public	**lb**	**0.00**
SERVICE FEE		
Crop Consultant	**acre**	**7.00**
Insect Scouting	**acre**	**7.00**
Rice Consultant	**acre**	**8.00**
SC Treating Charge	**acre**	**0.00**
Survey & Mark Levees	**acre**	**4.50**
Survey & Mark Levees	**acre**	**4.50**
TECHNOLOGY FEE		
BG Cot Tech Fee	**thous**	**0.28**
BG Cot Tech Fee	**cap/ac**	**19.50**
BG II Cot Tech Fee	**thous**	**0.76**
BG II Cot Tech Fee	**cap/ac**	**31.91**
BG II/RR Tech Fee	**thous**	**1.49**
BG II/RR Tech Fee	**cap/ac**	**62.69**
BG/RR Cot Tech Fee	**thous**	**1.49**
BG/RR Cot Tech Fee	**cap/ac**	**62.69**
Eradication Fee	**acre**	**6.00**
Eradication Zone 1	**acre**	**6.00**
Eradication Zone 1A	**acre**	**6.00**

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

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

Appendix Table 6. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2019.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	----------------$/hour----------------					
Combine (170-199 hp)	190hp	0	300	8	9.78	13.51	24.45	0.00	37.96	0.00	37.96
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	30.87	16.82	61.21	72.40	133.62
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	32.17	0.00	45.68	0.00	45.68
Combine (250-299 hp)	275hp	339,000	300	8	14.15	13.51	35.37	35.31	84.19	151.94	236.14
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	37.95	22.73	74.19	97.81	172.00
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	37.32	0.00	50.83	0.00	50.83
Combine (300-349 hp)	325hp	362,000	300	8	16.73	13.51	41.82	37.70	93.04	162.25	255.29
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	41.17	0.00	54.68	0.00	54.68
Combine (350-379 hp)	370hp	354,000	300	8	19.04	13.51	47.60	36.87	97.98	158.67	256.65
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	46.97	0.00	60.48	0.00	60.48
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	20.20	26.56	60.27	114.29	174.56
SC Tractor 93 MDR	93	46,683	600	10	4.79	10.73	11.97	2.72	25.42	8.74	34.17
SC Tractpr 68 MDR	68	27,049	600	10	3.50	10.73	8.75	1.57	21.05	5.06	26.12
test-mes		0	0	0	0.00	13.51	0.00	0.00	0.00	0.00	0.00
Tractor(40-59hp)Cab	2WD 50	29,400	600	8	2.57	10.73	6.43	0.91	18.08	6.10	24.18
Tractor(40-59hp)Cab	MFWD 50	39,500	600	8	2.57	10.73	6.43	1.23	18.39	8.19	26.59
Tractor(40-59hp)RB	2WD 50	22,900	600	8	2.57	10.73	6.43	0.71	17.87	4.75	22.63
Tractor(40-59hp)RB	MFWD 50	27,800	600	8	2.57	10.73	6.43	0.86	18.03	5.77	23.80
Tractor(60-89hp)CAB	2WD 75	52,800	600	8	3.86	10.73	9.65	1.65	22.03	10.95	32.99
Tractor(60-89hp)CAB	MFWD 75	62,500	600	8	3.86	10.73	9.65	1.95	22.33	12.97	35.30
Tractor(60-89hp)RB	2WD 75	38,600	600	8	3.86	10.73	9.65	1.20	21.58	8.01	29.59
Tractor(60-89hp)RB	MFWD 75	40,100	600	8	3.86	10.73	9.65	1.25	21.63	8.32	29.95
Tractor(90-119hp)CB	2WD 105	69,200	600	8	5.40	10.73	13.51	2.16	26.40	14.36	40.76
Tractor(90-119hp)CB	MFWD 105	83,000	600	8	5.40	10.73	13.51	2.59	26.83	17.22	44.06
Tractor(90-119hp)RB	2WD 105	61,200	600	8	5.40	10.73	13.51	1.91	26.15	12.70	38.85
Tractor(90-119hp)RB	MFWD 105	67,500	600	8	5.40	10.73	13.51	2.10	26.35	14.01	40.36
Tractor(120-139hp)CB	2WD 130	103,000	600	8	6.69	10.73	16.72	3.21	30.67	21.37	52.05
Tractor(120-139hp)CB	MFWD 130	114,000	600	8	6.69	10.73	16.72	3.56	31.02	23.66	54.68
Tractor(140-159hp)CB	2WD 150	109,000	600	8	7.72	10.73	19.30	3.40	33.43	22.62	56.06
Tractor(140-159hp)CB	MFWD 150	130,000	600	8	7.72	10.73	19.30	4.06	34.09	26.98	61.07
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	10.73	21.87	4.87	37.48	33.67	71.15
Tractor(160-179hp)CB	MFWD 170	148,000	600	8	8.75	10.73	21.87	4.62	37.23	31.94	69.17
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.73	23.16	4.45	38.35	30.80	69.15
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	10.73	24.44	4.46	39.64	30.86	70.51
Tractor(180-199hp)CB	MFWD 190	175,000	600	8	9.77	10.73	24.44	5.46	40.64	37.77	78.42
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.73	28.95	4.59	44.27	31.74	76.02
Tractor(200-249hp)CB	MFWD 225	191,000	600	8	11.58	10.73	28.95	5.96	45.65	41.22	86.87
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	10.73	28.95	8.65	48.33	59.78	108.12
Tractor(250-349hp)CB	4WD 300	286,000	600	8	15.44	10.73	38.60	8.93	58.27	61.73	120.00
Tractor(250-349hp)CB	Track 300	317,000	600	8	15.44	10.73	38.60	9.90	59.24	68.42	127.66
Tractor(350-449hp)CB	4WD 400	328,000	600	8	20.58	10.73	51.47	10.25	72.45	70.79	143.24
Tractor(350-449hp)CB	Track 400	420,000	600	8	20.58	10.73	51.47	13.12	75.32	90.65	165.98
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.73	61.12	8.74	80.59	60.40	141.00

Appendix Table 7. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Louisiana 2019.

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

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2019.

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	1,221	200	20	0.020	0.21	0.33	0.01	0.06	0.62	0.01	0.42	1.06
Blade-Box	10'	2WD 50	3,700	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	14'	2WD 50	6,270	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'	2WD 50	1,213	200	20	1.176	12.62	7.56	0.67	0.84	21.71	0.62	5.59	27.92
Blade-Scraper	10'	2WD 50	3,550	200	20	1.176	12.62	7.56	1.98	0.84	23.01	1.81	5.59	30.42
Blade-Scraper	14'	2WD 50	6,860	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.23	1.93	0.93	0.37	4.48	1.82	2.47	8.77
Chisel Plow(Folding)	24'	MFWD 190	39,900	150	12	0.076	0.82	1.86	1.10	0.41	4.20	2.14	2.88	9.23
Chisel Plow(Folding)	32'	MFWD 225	51,900	150	12	0.057	0.61	1.67	1.08	0.34	3.72	2.10	2.38	8.20
Chisel Plow(Folding)	42'	MFWD 225	62,500	150	12	0.044	0.47	1.27	0.99	0.26	3.00	1.93	1.81	6.74
Chisel Plow(Rigid)	15'	2WD 130	11,800	150	12	0.123	1.32	2.06	0.52	0.39	4.30	1.02	2.63	7.96
Chisel Plow(Rigid)	24'	MFWD 190	11,700	150	12	0.077	0.82	1.88	0.32	0.42	3.45	0.63	2.90	6.99
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	0.94	2.15	0.21	0.39	3.70	0.41	2.71	6.83
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.73	1.98	0.34	0.40	3.47	0.67	2.82	6.97
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	0.94	2.15	0.61	0.39	4.10	1.18	2.71	8.00
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.73	1.98	0.59	0.40	3.71	1.15	2.82	7.69
Corn Grain Cart 8R30	500 bu	MFWD 190	25,700	200	12	0.031	0.34	0.78	0.22	0.17	1.52	0.43	1.20	3.15
Corn Grain Cart 8R40	700bu	MFWD 190	37,300	200	12	0.025	0.26	0.61	0.25	0.13	1.26	0.49	0.94	2.70
Cult & Post	4R-38	2WD 105	19,500	150	10	0.173	2.64	2.34	0.90	0.33	6.21	2.63	2.20	11.04
Cult & Post	6R-30	MFWD 150	23,600	150	10	0.146	2.23	2.83	0.92	0.59	6.58	2.69	3.95	13.24
Cult & Post	6R-38	MFWD 150	24,500	150	10	0.115	1.76	2.23	0.75	0.47	5.22	2.21	3.12	10.56
Cult & Post	8R-30	MFWD 190	28,700	150	10	0.110	1.67	2.68	0.84	0.60	5.81	2.45	4.15	12.42
Cult & Post	8R-38	MFWD 190	29,800	150	10	0.086	1.32	2.12	0.69	0.47	4.61	2.01	3.28	9.92
Cult & Post	8R-38 2x1	MFWD 190	47,800	150	10	0.057	0.88	1.41	0.73	0.31	3.35	2.15	2.18	7.69
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.34	2.54	0.75	0.52	5.16	2.19	3.62	10.98
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	0.99	1.88	0.00	0.38	3.26	0.00	2.68	5.94
Cult & Post	12R-30	MFWD 225	47,200	150	10	0.073	1.11	2.12	0.92	0.43	4.60	2.69	3.02	10.32
Cult & Post	12R-38	MFWD 225	56,500	150	10	0.057	0.88	1.67	0.87	0.34	3.77	2.54	2.38	8.71
Cultipacker	12'	2WD 130	6,910	300	12	0.124	1.33	2.08	0.20	0.40	4.02	0.31	2.66	6.99
Cultipacker	20'	MFWD 150	17,000	300	12	0.074	0.80	1.44	0.29	0.30	2.84	0.45	2.01	5.31
Cultivate	4R-38	2WD 105	12,200	150	10	0.162	1.74	2.19	0.52	0.31	4.77	1.54	2.06	8.38
Cultivate	6R-30	MFWD 150	16,300	150	10	0.137	1.47	2.65	0.59	0.55	5.28	1.74	3.71	10.74
Cultivate	6R-38	MFWD 150	17,200	150	10	0.108	1.16	2.09	0.49	0.44	4.19	1.45	2.92	8.58
Cultivate	8R-30	MFWD 190	21,400	150	10	0.103	1.10	2.52	0.58	0.56	4.78	1.71	3.89	10.39
Cultivate	8R-38	MFWD 190	22,600	150	10	0.081	0.87	1.99	0.49	0.44	3.80	1.43	3.07	8.31
Cultivate	8R-38 2x1	MFWD 190	35,400	150	10	0.054	0.58	1.32	0.51	0.29	2.71	1.49	2.05	6.26
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.88	2.38	0.62	0.49	4.38	1.81	3.40	9.60
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.69	1.88	0.00	0.38	2.97	0.00	2.68	5.65
Cultivate	12R-30	MFWD 225	39,900	150	10	0.068	0.73	1.99	0.73	0.41	3.87	2.13	2.83	8.84
Cultivate	12R-38	MFWD 225	39,100	150	10	0.054	0.58	1.57	0.56	0.32	3.04	1.65	2.23	6.93
Disk & Incorporate	14'	2WD 130	31,900	200	10	0.149	2.28	2.50	1.43	0.48	6.70	2.78	3.19	12.69
Disk & Incorporate	24'	MFWD 190	50,000	200	10	0.087	1.33	2.13	1.30	0.47	5.25	2.55	3.29	11.10
Disk & Incorporate	32'	4WD 225	66,000	200	10	0.068	1.04	1.99	1.36	0.31	4.71	2.65	2.18	9.55
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.74	1.42	0.44	0.29	2.91	0.87	2.02	5.81
Disk Bed (Hipper)	4R-38	MFWD 150	9,200	160	10	0.147	1.58	2.84	0.33	0.59	5.37	0.99	3.98	10.34
Disk Bed (Hipper)	6R-30	MFWD 170	15,100	160	10	0.125	1.34	2.73	0.47	0.57	5.12	1.37	3.99	10.49
Disk Bed (Hipper)	6R-38	MFWD 170	13,000	160	10	0.098	1.05	2.15	0.32	0.45	3.99	0.93	3.15	8.08
Disk Bed (Hipper)	8R-30	MFWD 190	17,800	160	10	0.093	1.00	2.29	0.41	0.51	4.22	1.21	3.54	8.98
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	29,200	160	10	0.049	0.52	1.20	0.36	0.26	2.36	1.05	1.86	5.28
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.80	2.17	0.37	0.44	3.79	1.09	3.09	7.97
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.63	1.71	0.34	0.35	3.04	0.99	2.43	6.47
Disk Bed (Hipper)	12R-30	MFWD 225	31,000	160	10	0.062	0.67	1.80	0.48	0.37	3.33	1.41	2.57	7.32
Disk Bed (Hipper)	12R-38	MFWD 225	29,200	160	10	0.049	0.52	1.42	0.36	0.29	2.61	1.05	2.03	5.69
Disk Bed (Hipper)Fld	8R-38	MFWD 190	20,000	160	10	0.074	0.79	1.81	0.37	0.40	3.38	1.08	2.79	7.26
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	18,400	160	10	0.074	0.79	1.81	0.34	0.40	3.35	0.99	2.79	7.14
Disk Bed w/roller	8R-30	2WD 190	26,600	160	10	0.093	1.00	2.29	0.62	0.41	4.34	1.82	2.89	9.05
Disk Bed w/roller	12R-30	MFWD 225	47,000	160	10	0.062	0.67	1.80	0.73	0.37	3.58	2.14	2.57	8.30
Disk Harrow	14'	2WD 130	24,600	180	10	0.140	1.50	2.34	0.95	0.45	5.26	2.24	2.99	10.50
Disk Harrow	24'	MFWD 190	42,700	180	10	0.081	0.87	2.00	0.97	0.44	4.29	2.26	3.09	9.65
Disk Harrow	28'	MFWD 225	52,000	180	10	0.070	0.75	2.03	1.01	0.41	4.21	2.36	2.89	9.47
Disk Harrow	32'	MFWD 225	58,700	180	10	0.061	0.65	1.77	1.00	0.36	3.80	2.33	2.53	8.67
Disk Harrow	42'	MFWD 225	104,000	180	10	0.046	0.50	1.35	1.35	0.27	3.48	3.15	1.92	8.57
Ditcher		2WD 130	5,700	200	10	0.020	0.21	0.33	0.04	0.06	0.65	0.06	0.42	1.15
Ditcher (1m/160a)		2WD 130	5,700	200	10	0.009	0.10	0.15	0.02	0.03	0.30	0.03	0.20	0.54
Fert Appl (Liquid)	4R-38	MFWD 150	12,900	150	8	0.154	2.36	2.98	1.33	0.62	7.30	1.65	4.17	13.13
Fert Appl (Liquid)	6R-30	MFWD 170	16,700	150	8	0.130	1.99	2.86	1.45	0.60	6.92	1.81	4.18	12.92
Fert Appl (Liquid)	6R-38	MFWD 170	16,100	150	8	0.103	1.57	2.26	1.10	0.47	5.42	1.38	3.30	10.11
Fert Appl (Liquid)	8R-30	MFWD 190	16,900	150	8	0.098	1.49	2.40	1.10	0.53	5.54	1.37	3.70	10.63
Fert Appl (Liquid)	8R-38	MFWD 190	19,000	150	8	0.077	1.18	1.89	0.98	0.42	4.49	1.22	2.93	8.64
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	20,300	150	8	0.051	0.78	1.26	0.69	0.28	3.03	0.87	1.95	5.85
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.19	2.27	0.97	0.46	4.91	1.21	3.23	9.36
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	0.94	1.79	0.83	0.36	3.94	1.04	2.55	7.54
Fert Appl (Liquid)	12R-30	MFWD 225	22,600	150	8	0.078	1.19	2.27	1.18	0.46	5.12	1.47	3.23	9.83
Fert Appl (Liquid)	12R-38	MFWD 225	19,900	150	8	0.051	0.78	1.49	0.68	0.30	3.27	0.85	2.13	6.26
Field Cult & Inc	12'	2WD 150	15,800	100	10	0.132	2.01	2.55	0.52	0.45	5.54	2.44	2.99	10.97
Field Cult & Inc	24'	MFWD 170	34,500	100	10	0.066	1.00	1.44	0.57	0.30	3.33	2.66	2.11	8.10

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2019.
(Continued)

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							--------------------
Field Cult & Inc	32'	MFWD 190	43,800	100	10	0.049	0.75	1.21	0.54	0.27	2.78	2.53	1.87	7.19
Field Cult & Inc	42'	MFWD 225	69,400	100	10	0.037	0.57	1.09	0.65	0.22	2.55	3.06	1.55	7.17
Field Cultivate	50'	MFWD 225	65,900	100	10	0.029	0.32	0.86	0.49	0.17	1.85	2.29	1.23	5.38
Gate Installer		2WD 130	2,960	10	10	0.020	0.39	0.33	0.17	0.06	0.97	0.66	0.42	2.06
Grain Drill	12'	2WD 130	26,800	150	8	0.157	3.10	2.62	1.57	0.50	7.82	3.35	3.35	14.54
Grain Drill	15'	MFWD 150	32,600	150	8	0.125	2.48	2.42	1.53	0.51	6.96	3.26	3.39	13.62
Grain Drill	20'	MFWD 170	38,800	150	8	0.094	1.86	2.06	1.37	0.43	5.73	2.91	3.01	11.66
Grain Drill	24'	MFWD 190	65,600	150	8	0.078	1.55	1.92	1.93	0.42	5.83	4.10	2.96	12.91
Grain Drill	30'	MFWD 225	63,800	150	8	0.062	1.24	1.82	1.50	0.37	4.94	3.19	2.59	10.73
Grain Drill & Pre	12'	2WD 130	34,100	150	8	0.169	3.34	2.83	2.16	0.54	8.88	4.60	3.61	17.10
Grain Drill & Pre	15'	MFWD 150	39,900	150	8	0.135	2.67	2.61	2.02	0.55	7.86	4.30	3.65	15.82
Grain Drill & Pre	20'	MFWD 170	46,000	150	8	0.101	2.00	2.22	1.75	0.46	6.45	3.72	3.24	13.41
Grain Drill & Pre	24'	MFWD 190	71,000	150	8	0.084	1.67	2.06	2.25	0.46	6.45	4.78	3.19	14.44
Grain Drill & Pre	30'	MFWD 225	71,000	150	8	0.067	1.33	1.95	1.80	0.40	5.50	3.83	2.79	12.12
Harrow	13'	2WD 130	4,360	200	10	0.119	1.28	1.99	0.18	0.38	3.84	0.30	2.55	6.70
Harrow	21'	2WD 150	6,750	200	10	0.073	0.79	1.42	0.17	0.25	2.64	0.29	1.67	4.61
Harrow	40'	MFWD 190	20,200	200	10	0.038	0.41	0.94	0.27	0.21	1.85	0.45	1.46	3.77
Harrow	47'	MFWD 190	23,700	200	10	0.033	0.35	0.80	0.27	0.18	1.61	0.45	1.24	3.32
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.71	6.20	1.26	3.38	13.57	2.09	14.56	30.23
Header - Corn	6R30"	240hp	48,900	300	8	0.170	2.30	5.25	2.08	2.86	12.50	3.45	12.32	28.29
Header - Corn	6R38"	240hp	48,800	300	8	0.134	1.81	4.15	1.64	2.26	9.86	2.72	9.73	22.32
Header - Corn	8R-30	240hp	62,300	300	8	0.127	1.72	3.94	1.98	2.14	9.80	3.30	9.24	22.35
Header - Corn	8R-38	275hp	63,000	300	8	0.100	1.36	3.57	1.59	3.56	10.09	2.64	15.34	28.07
Header - Corn	12R-20	275hp	95,600	300	8	0.127	1.72	4.51	3.05	4.50	13.80	5.06	19.40	38.27
Header - Corn	12R-30	275hp	98,200	300	8	0.085	1.15	3.01	2.09	3.00	9.25	3.47	12.93	25.66
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	3.89	8.90	4.64	4.85	22.30	7.71	20.88	50.90
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.42	7.83	4.08	4.27	19.62	6.78	18.38	44.79
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.85	7.48	3.91	7.47	21.72	6.50	32.14	60.38
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.37	7.71	4.02	4.20	19.32	6.68	18.10	44.11
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.97	6.79	3.54	3.70	17.00	5.88	15.93	38.82
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.47	6.48	3.39	6.47	18.83	5.63	27.85	52.32
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.30	5.25	0.00	2.86	10.42	0.00	12.32	22.75
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.91	4.38	0.72	2.38	9.40	1.19	10.27	20.87
Header - Soybean	22' Flex	240hp	32,600	300	8	0.116	1.56	3.58	0.94	1.95	8.05	1.57	8.40	18.03
Header - Soybean	25' Flex	275hp	34,600	300	8	0.102	1.38	3.29	0.88	3.49	9.05	1.32	13.77	24.15
Header - Soybean	30' Flex	275hp	41,400	300	8	0.085	1.15	2.74	0.88	2.90	7.68	1.32	11.47	20.49
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.91	3.99	0.67	2.38	8.97	1.01	9.42	19.41
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.56	3.26	0.57	1.95	7.36	0.86	7.70	15.93
Header Wheat/Sorghum	25' Rigid	240hp	21,000	300	8	0.102	1.38	3.15	0.53	1.71	6.79	0.89	7.39	15.07
Header Wheat/Sorghum	30' Rigid	275hp	23,600	300	8	0.085	1.15	3.01	0.50	3.00	7.67	0.83	12.93	21.44
Header-Cotton Bcast	13'	173hp	21,300	200	8	0.251	5.68	5.08	1.00	6.68	18.46	3.34	28.78	50.58
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	4.61	4.13	0.91	5.43	15.09	3.03	23.38	41.51
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	3.88	3.48	0.84	4.57	12.79	2.81	19.69	35.29
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	7.38	6.61	1.25	8.69	23.95	4.18	37.41	65.55
Header-Cotton-Brush	4R30"2X1	173hp	34,400	200	8	0.218	4.92	4.40	1.40	5.79	16.53	4.67	24.94	46.15
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	5.81	5.20	1.64	6.84	19.51	5.45	29.46	54.43
Header-Cotton-Brush	4R38"2X1	173hp	36,000	200	8	0.172	3.88	3.48	1.16	4.57	13.10	3.86	19.69	36.66
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	5.91	5.29	2.10	6.95	20.25	6.98	29.93	57.17
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	4.67	4.18	1.72	5.50	16.08	5.71	23.68	45.48
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	4.92	4.40	2.15	5.79	17.28	7.16	24.94	49.39
Heavy Disk	14'	MFWD 150	31,900	180	10	0.145	1.56	2.81	1.29	0.59	6.26	3.02	3.93	13.23
Heavy Disk	21'	MFWD 170	40,600	180	10	0.097	1.04	2.12	1.09	0.45	4.71	2.56	3.10	10.39
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.81	1.85	1.05	0.41	4.13	2.47	2.85	9.47
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.64	1.15	0.13	0.24	2.17	0.15	1.61	3.95
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.60	5.93	0.29	1.32	10.15	0.85	9.16	20.17
Land Plane	50'x16'	MFWD 190	14,300	200	10	0.151	1.62	3.70	0.43	0.82	6.59	1.26	5.72	13.59
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.36	9.65	2.64	2.03	19.68	3.95	13.49	37.13
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	2.03	3.66	0.15	0.77	6.63	0.72	5.13	12.49
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.53	1.93	0.07	0.44	2.99	0.20	3.08	6.27
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.60	5.78	0.23	1.33	8.96	0.53	9.25	18.75
Levee Splitter (1/80	2 blade	2WD 150	7,180	50	10	0.004	0.04	0.08	0.00	0.01	0.14	0.06	0.09	0.30
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.56	3.55	0.26	0.79	6.18	0.53	5.49	12.21
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.28	2.32	0.36	0.48	4.45	1.24	3.24	8.94
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.22	2.79	0.55	0.62	5.19	1.92	4.31	11.43
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	0.96	2.20	0.38	0.49	4.05	1.32	3.40	8.78
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.64	1.46	0.41	0.32	2.85	1.42	2.27	6.54
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	0.98	2.64	0.62	0.54	4.79	2.16	3.76	10.72
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.77	2.08	0.54	0.42	3.83	1.87	2.96	8.67
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.64	1.74	0.41	0.35	3.15	1.42	2.47	7.05
Module Builder-1st	2R-38(157)	MFWD 190	31,300	200	10	0.519	10.28	12.70	4.06	2.84	29.89	9.20	19.62	58.72
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	6.47	8.00	2.84	1.79	19.11	6.42	12.36	37.90
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	6.47	8.00	2.84	1.79	19.11	6.42	12.36	37.90
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	5.10	6.30	2.23	1.40	15.05	5.06	9.73	29.84
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	5.10	6.30	2.23	1.40	15.05	5.06	9.73	29.84
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	3.40	4.21	1.49	0.94	10.05	3.38	6.50	19.95
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	5.18	6.40	2.27	1.43	15.29	5.14	9.89	30.32
Module Builder-1st	5R-38(255)	MFWD 190	34,700	200	10	0.207	4.10	5.06	1.79	1.13	12.09	4.06	7.82	23.99
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	4.31	5.33	1.89	1.19	12.74	4.28	8.24	25.27
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	3.40	4.21	1.49	0.94	10.05	3.38	6.50	19.95
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	8.71	10.76	3.81	2.40	25.69	8.64	16.62	50.96
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	5.48	6.78	2.40	1.51	16.19	5.44	10.47	32.10

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2019.

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--------------------							
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	4.39	5.42	1.92	1.21	12.95	4.35	8.37	25.68
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	3.47	4.29	1.52	0.95	10.24	3.44	6.62	20.32
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	3.65	4.52	1.60	1.01	10.79	3.62	6.98	21.40
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	2.88	3.56	1.26	0.79	8.52	2.86	5.51	16.89
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	4.98	4.86	2.18	1.02	13.05	4.94	6.79	24.79
Module Builder-Strip	16' Bcast	MFWD 150	34,700	200	10	0.204	4.04	3.94	1.77	0.83	10.60	4.01	5.52	20.14
Module Builder-Strip	19' Brush	MFWD 150	34,700	200	10	0.172	3.41	3.32	1.49	0.70	8.93	3.38	4.64	16.96
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	6.47	6.31	2.84	1.32	16.96	6.42	8.83	32.23
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.31	4.21	1.89	0.88	11.31	4.28	5.88	21.48
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.10	4.97	2.23	1.04	13.36	5.06	6.95	25.37
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.41	3.32	1.49	0.70	8.93	3.38	4.64	16.96
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.18	5.05	2.27	1.06	13.57	5.14	7.06	25.78
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.10	3.99	1.79	0.84	10.73	4.06	5.59	20.39
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.31	4.21	1.89	0.88	11.31	4.28	5.88	21.48
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.73	1.97	0.00	0.40	3.10	0.00	2.80	5.91
NT Grain Drill	12'	2WD 130	47,900	150	8	0.163	3.23	2.73	2.94	0.52	9.44	6.25	3.49	19.19
NT Grain Drill & Pre	15'	MFWD 150	62,400	150	8	0.141	2.79	2.72	3.29	0.57	9.38	7.01	3.80	20.20
NT Grain Drill & Pre	20'	MFWD 170	78,400	150	8	0.105	2.09	2.31	3.10	0.48	8.00	6.61	3.37	17.99
NT Grain Drill & Pre	24'	MFWD 190	97,700	150	8	0.088	1.74	2.15	3.22	0.48	7.61	6.86	3.32	17.80
NT Grain Drill & Pre	30'	MFWD 225	111,000	150	8	0.070	1.39	2.04	2.93	0.42	6.79	6.23	2.90	15.93
NT Plant&Pre-Folding	8R-38	MFWD 170	65,000	150	8	0.083	1.65	1.82	2.03	0.38	5.90	4.33	2.67	12.91
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	102,000	150	8	0.055	1.10	1.21	2.12	0.25	4.70	4.52	1.77	11.01
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.67	2.06	1.82	0.46	6.03	3.88	3.19	13.11
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.32	1.63	1.32	0.36	4.64	2.81	2.52	9.97
NT Plant&Pre-Folding	12R-20	MFWD 190	78,700	150	8	0.105	2.09	2.58	3.12	0.57	8.37	6.63	3.99	19.01
NT Plant&Pre-Folding	12R-30	MFWD 190	87,500	150	8	0.070	1.39	1.72	2.31	0.38	5.81	4.91	2.66	13.40
NT Plant&Pre-Folding	12R-38	MFWD 190	102,000	150	8	0.055	1.10	1.36	2.12	0.30	4.89	4.52	2.10	11.52
NT Plant&Pre-Folding	16R-30	MFWD 190	130,000	150	8	0.052	1.04	1.29	2.57	0.28	5.20	5.48	1.99	12.68
NT Plant&Pre-Folding	23R-15	MFWD 190	163,000	150	8	0.073	1.45	1.79	4.48	0.40	8.14	9.54	2.77	20.45
NT Plant&Pre-Folding	24R-20	MFWD 190	182,000	150	8	0.052	1.04	1.29	3.60	0.28	6.23	7.67	1.99	15.90
NT Plant&Pre-Folding	24R-30	MFWD 190	200,000	150	8	0.035	0.69	0.86	2.64	0.19	4.39	5.62	1.33	11.34
NT Plant&Pre-Rigid	4R-30	2WD 130	29,300	150	8	0.211	4.18	3.53	2.32	0.68	10.73	4.94	4.52	20.19
NT Plant&Pre-Rigid	4R-38	2WD 130	35,200	150	8	0.166	3.29	2.78	2.19	0.53	8.81	4.67	3.56	17.05
NT Plant&Pre-Rigid	6R-30	MFWD 150	43,100	150	8	0.141	2.79	2.72	2.27	0.57	8.36	4.84	3.80	17.01
NT Plant&Pre-Rigid	6R-38	MFWD 150	41,800	150	8	0.111	2.20	2.14	1.74	0.45	6.54	3.71	3.00	13.26
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	2.84	3.14	1.41	0.66	8.07	3.00	4.59	15.68
NT Plant&Pre-Rigid	8R-30	MFWD 170	53,100	150	8	0.105	2.09	2.31	2.10	0.48	7.00	4.47	3.37	14.85
NT Plant&Pre-Rigid	8R-38	MFWD 170	50,600	150	8	0.077	1.52	1.68	1.46	0.35	5.03	3.11	2.46	10.61
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	1.67	2.06	1.64	0.46	5.85	3.50	3.19	12.54
NT Plant&Pre-Rigid	12R-20	MFWD 190	65,000	150	8	0.105	2.09	2.58	2.57	0.57	7.83	5.48	3.99	17.31
NT Plant&Pre-Rigid	12R-30	MFWD 190	79,300	150	8	0.070	1.39	1.72	2.09	0.38	5.60	4.45	2.66	12.72
NT Plant-Folding	8R-38	MFWD 170	57,800	150	8	0.077	1.53	1.69	1.68	0.35	5.27	3.57	2.48	11.33
NT Plant-Folding	8R-38 2x1	MFWD 170	93,000	150	8	0.051	1.02	1.13	1.80	0.23	4.19	3.83	1.65	9.67
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.55	1.92	1.53	0.42	5.43	3.26	2.96	11.66
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.22	1.51	1.10	0.33	4.18	2.35	2.34	8.88
NT Plant-Folding	12R-20	MFWD 190	71,100	150	8	0.098	1.94	2.40	2.61	0.53	7.50	5.56	3.70	16.77
NT Plant-Folding	12R-30	MFWD 190	78,900	150	8	0.065	1.29	1.60	1.93	0.35	5.19	4.11	2.47	11.78
NT Plant-Folding	12R-38	MFWD 190	93,000	150	8	0.051	1.02	1.26	1.80	0.28	4.37	3.83	1.95	10.15
NT Plant-Folding	16R-30	MFWD 190	122,000	150	8	0.049	0.97	1.20	2.24	0.26	4.68	4.77	1.85	11.31
NT Plant-Folding	23R-15	MFWD 190	155,000	150	8	0.068	1.34	1.66	3.96	0.37	7.35	8.42	2.57	18.35
NT Plant-Folding	24R-20	MFWD 190	174,000	150	8	0.049	0.97	1.20	3.20	0.26	5.64	6.81	1.85	14.31
NT Plant-Folding	24R-30	MFWD 190	184,000	150	8	0.032	0.64	0.80	2.25	0.17	3.88	4.80	1.23	9.92
NT Plant-Rigid	4R-30	2WD 130	22,100	150	8	0.196	3.88	3.28	1.62	0.63	9.43	3.46	4.19	17.09
NT Plant-Rigid	4R-38	2WD 130	27,900	150	8	0.154	3.06	2.58	1.61	0.49	7.76	3.44	3.30	14.51
NT Plant-Rigid	6R-30	MFWD 150	35,800	150	8	0.130	2.59	2.52	1.75	0.53	7.40	3.73	3.53	14.68
NT Plant-Rigid	6R-38	MFWD 150	34,500	150	8	0.103	2.04	1.99	1.33	0.41	5.79	2.84	2.78	11.43
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	2.64	2.92	1.05	0.61	7.24	2.25	4.26	13.76
NT Plant-Rigid	8R-30	MFWD 170	45,800	150	8	0.098	1.94	2.14	1.68	0.45	6.23	3.58	3.13	12.95
NT Plant-Rigid	8R-38	MFWD 170	43,300	150	8	0.077	1.53	1.69	1.26	0.35	4.85	2.68	2.48	10.01
NT Plant-Rigid	10R-30	MFWD 190	46,500	150	8	0.078	1.55	1.92	1.37	0.42	5.27	2.91	2.96	11.15
NT Plant-Rigid	12R-20	MFWD 190	57,800	150	8	0.098	1.94	2.40	2.12	0.53	7.01	4.52	3.70	15.24
NT Plant-Rigid	12R-30	MFWD 190	70,700	150	8	0.065	1.29	1.60	1.73	0.35	4.99	3.69	2.47	11.15
Paratill & Bed	4R-30	MFWD 225	12,300	150	12	0.204	2.19	5.91	0.90	1.21	10.23	1.76	8.42	20.42
Paratill & Bed	4R-38	MFWD 225	12,300	150	12	0.160	1.72	4.65	0.71	0.96	8.05	1.38	6.63	16.08
Paratill & Bed	6R-30	MFWD 225	17,300	150	12	0.136	1.46	3.94	0.85	0.81	7.06	1.65	5.61	14.33
Paratill & Bed	6R-38	MFWD 225	17,200	150	12	0.107	1.15	3.11	0.66	0.64	5.57	1.29	4.43	11.30
Paratill & Bed	8R-30	MFWD 225	22,600	150	12	0.102	1.09	2.95	0.83	0.60	5.49	1.62	4.21	11.33
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.57	1.55	1.34	0.32	3.79	2.60	2.21	8.62
Paratill & Bed Fold.	8R-38	MFWD 225	54,400	150	12	0.080	0.86	2.33	1.58	0.48	5.27	3.08	3.32	11.68
Paratill & Bed Fold.	12R-38	MFWD 225	69,100	150	12	0.053	0.57	1.55	1.34	0.32	3.79	2.60	2.21	8.62
Paratill & Bed Rigid	8R-38	MFWD 225	22,600	150	12	0.080	0.86	2.33	0.65	0.48	4.34	1.28	3.32	8.95
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.55	0.99	0.00	0.17	1.74	0.02	1.17	2.93
Pipe Spool 160ac	1/4m roll	2WD 130	3,600	15	12	0.003	0.09	0.05	0.00	0.01	0.15	0.07	0.06	0.30
Pipe Trailer 1m/160a	30'	2WD 130	1,380	100	15	0.003	0.17	0.06	0.00	0.01	0.25	0.00	0.08	0.33
Plant & Pre Folding	8R-38	MFWD 170	57,900	150	8	0.080	1.58	1.75	1.74	0.37	5.45	3.70	2.56	11.72
Plant & Pre Folding	8R38 2x1	MFWD 170	91,000	150	8	0.053	1.05	1.16	1.82	0.24	4.29	3.87	1.70	9.88
Plant & Pre Folding	10R-30	MFWD 190	51,900	150	8	0.081	1.60	1.98	1.58	0.44	5.61	3.36	3.06	12.04
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.26	1.56	1.15	0.35	4.34	2.46	2.41	9.22
Plant & Pre Folding	12R-20	MFWD 190	67,600	150	8	0.101	2.00	2.48	2.57	0.55	7.62	5.47	3.83	16.92

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2019.

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							--------------------
lant & Pre Folding	12R-38	MFWD 190	91,000	150	8	0.053	1.05	1.30	1.82	0.29	4.48	3.87	2.01	10.37
Plant & Pre Folding	16R-30	MFWD 190	116,000	150	8	0.050	1.00	1.24	2.20	0.27	4.73	4.69	1.91	11.34
Plant & Pre Folding	23R-15	MFWD 190	143,000	150	8	0.070	1.39	1.72	3.78	0.38	7.28	8.03	2.66	17.98
Plant & Pre Folding	24R-20	MFWD 190	161,000	150	8	0.050	1.00	1.24	3.06	0.27	5.58	6.51	1.91	14.02
Plant & Pre Folding	24R-30	MFWD 190	178,000	150	8	0.033	0.66	0.82	2.25	0.18	3.94	4.80	1.27	10.02
Plant & Pre Rigid	4R-30	2WD 130	25,800	150	8	0.203	4.01	3.39	1.96	0.65	10.03	4.17	4.34	18.55
Plant & Pre Rigid	4R-38	2WD 130	31,600	150	8	0.159	3.16	2.67	1.89	0.51	8.24	4.02	3.41	15.69
Plant & Pre Rigid	6R-30	MFWD 150	25,900	150	8	0.135	2.67	2.61	1.31	0.55	7.15	2.79	3.65	13.60
Plant & Pre Rigid	6R-38	MFWD 150	36,400	150	8	0.106	2.11	2.06	1.45	0.43	6.07	3.10	2.88	12.05
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	2.73	3.02	1.22	0.63	7.61	2.59	4.41	14.62
Plant & Pre Rigid	8R-30	MFWD 170	46,000	150	8	0.101	2.00	2.22	1.75	0.46	6.45	3.72	3.24	13.41
Plant & Pre Rigid	8R-38	MFWD 170	43,400	150	8	0.080	1.58	1.75	1.30	0.37	5.02	2.77	2.56	10.36
Plant & Pre Rigid	10R-30	MFWD 190	46,000	150	8	0.081	1.60	1.98	1.40	0.44	5.43	2.97	3.06	11.48
Plant & Pre Rigid	12R-20	MFWD 190	54,300	150	8	0.101	2.00	2.48	2.06	0.55	7.11	4.39	3.83	15.34
Plant & Pre Rigid	12R-30	MFWD 190	68,600	150	8	0.067	1.33	1.65	1.74	0.37	5.10	3.70	2.55	11.36
Plant - Folding	8R-38	MFWD 170	50,600	150	8	0.074	1.47	1.63	1.41	0.34	4.86	3.00	2.38	10.25
Plant - Folding	8R-38 2x1	MFWD 170	82,300	150	8	0.049	0.98	1.08	1.53	0.22	3.82	3.25	1.58	8.66
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.49	1.84	1.34	0.41	5.09	2.85	2.84	10.79
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.17	1.45	0.95	0.32	3.91	2.03	2.24	8.20
Plant - Folding	12R-20	MFWD 190	60,400	150	8	0.094	1.86	2.30	2.13	0.51	6.82	4.53	3.56	14.92
Plant - Folding	12R-30	MFWD 190	68,200	150	8	0.062	1.24	1.53	1.60	0.34	4.73	3.41	2.37	10.52
Plant - Folding	12R-38	MFWD 190	82,300	150	8	0.049	0.98	1.21	1.53	0.27	3.99	3.25	1.87	9.12
Plant - Folding	16R-30	MFWD 190	97,900	150	8	0.047	0.93	1.15	1.73	0.25	4.07	3.67	1.78	9.53
Plant - Folding	23R-15	MFWD 190	134,000	150	8	0.065	1.29	1.60	3.29	0.35	6.54	6.99	2.47	16.01
Plant - Folding	24R-20	MFWD 190	152,000	150	8	0.047	0.93	1.15	2.68	0.25	5.03	5.71	1.78	12.52
Plant - Folding	24R-30	MFWD 190	178,000	150	8	0.031	0.62	0.76	2.09	0.17	3.66	4.45	1.18	9.30
Plant - Rigid	4R-30	2WD 130	18,500	150	8	0.188	3.73	3.15	1.30	0.60	8.80	2.78	4.03	15.61
Plant - Rigid	4R-38	2WD 130	24,300	150	8	0.148	2.93	2.48	1.35	0.47	7.25	2.87	3.17	13.30
Plant - Rigid	6R-30	MFWD 150	30,500	150	8	0.125	2.48	2.42	1.43	0.51	6.86	3.05	3.39	13.31
Plant - Rigid	6R-38	MFWD 150	29,200	150	8	0.099	1.96	1.91	1.08	0.40	5.36	2.31	2.67	10.35
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	2.53	2.79	0.88	0.59	6.80	1.88	4.08	12.77
Plant - Rigid	8R-30	MFWD 170	38,700	150	8	0.094	1.86	2.06	1.36	0.43	5.73	2.90	3.01	11.65
Plant - Rigid	8R-38	MFWD 170	36,200	150	8	0.074	1.47	1.63	1.01	0.34	4.46	2.15	2.38	8.99
Plant - Rigid	10R-30	MFWD 190	40,700	150	8	0.075	1.49	1.84	1.15	0.41	4.90	2.44	2.84	10.19
Plant - Rigid	12R-20	MFWD 190	47,100	150	8	0.094	1.86	2.30	1.66	0.51	6.35	3.54	3.56	13.45
Plant - Rigid	12R-30	MFWD 190	59,900	150	8	0.062	1.24	1.53	1.41	0.34	4.53	3.00	2.37	9.91
Plant - Rigid	15R-15	2WD 150	58,900	150	8	0.094	1.86	1.81	2.08	0.32	6.08	4.42	2.13	12.64
Pull Levee (1m/80a))	4 blade	2WD 50	3,180	100	10	0.003	0.03	0.02	0.00	0.00	0.06	0.01	0.01	0.09
Rice Grain Cart	500 Bu	MFWD 190	25,700	200	12	0.057	0.61	1.39	0.39	0.31	2.71	0.77	2.15	5.64
Rice Grain Cart	700 Bu	MFWD 190	37,300	200	12	0.063	0.68	1.55	0.64	0.34	3.22	1.24	2.39	6.86
Roller	32'	MFWD 170	22,800	100	12	0.046	0.50	1.02	0.17	0.21	1.91	1.12	1.49	4.52
Rotary Cutter	7'	MFWD 130	4,760	185	10	0.168	1.80	2.81	0.64	0.59	5.87	0.50	3.98	10.36
Rotary Cutter	12'	2WD 150	11,600	185	10	0.098	1.05	1.89	0.92	0.33	4.20	0.71	2.22	7.14
Rotary Cutter	15'	MFWD 150	22,800	185	10	0.078	0.84	1.51	1.45	0.31	4.13	1.13	2.12	7.38
Row Cond & Inc	13'	2WD 130	14,600	100	10	0.137	2.10	2.30	0.50	0.44	5.36	2.35	2.94	10.66
Row Cond & Inc	21'	2WD 170	20,700	100	10	0.085	1.30	1.86	0.44	0.41	4.02	2.06	2.87	8.97
Row Cond & Inc	26'	MFWD 190	26,600	100	10	0.063	0.96	1.55	0.42	0.34	3.28	1.97	2.39	7.65
Row Cond & Inc	38'	MFWD 225	33,800	100	10	0.047	0.72	1.36	0.39	0.28	2.76	1.86	1.94	6.57
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.61	1.16	0.20	0.23	2.22	0.95	1.65	4.83
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.23	1.92	0.20	0.36	3.73	0.97	2.45	7.16
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.76	1.55	0.21	0.34	2.87	0.99	2.39	6.27
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.61	1.40	0.17	0.31	2.51	0.83	2.16	5.51
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.42	1.13	0.21	0.23	2.01	1.01	1.62	4.65
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.38	1.02	0.13	0.21	1.76	0.64	1.46	3.87
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.68	2.62	0.27	0.50	5.10	1.30	3.36	9.77
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	1.04	2.12	0.28	0.47	3.93	1.33	3.27	8.53
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.84	1.92	0.24	0.42	3.43	1.13	2.96	7.54
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.57	1.55	0.22	0.32	2.67	1.04	2.21	5.93
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.52	1.40	0.18	0.29	2.41	0.88	2.00	5.30
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.10	2.25	1.02	0.50	4.89	1.15	3.47	9.52
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.73	1.68	0.98	0.30	3.71	1.11	2.12	6.95
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.38	2.82	1.28	0.62	6.11	1.44	4.34	11.90
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	0.92	2.10	1.23	0.38	4.64	1.39	2.65	8.68
RT Cult + PD (Early)	8R-30	2WD 150	20,774	200	12	0.110	1.67	2.12	1.09	0.37	5.27	1.23	2.48	8.99
RT Cult + PD (Early)	12R-30	MFWD 225	29,998	200	12	0.073	1.11	2.12	1.05	0.43	4.73	1.18	3.02	8.94
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.09	3.00	1.73	0.67	7.50	1.95	4.62	14.08
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.39	2.24	1.55	0.40	5.60	1.75	2.82	10.19
Spin Spreader	5 ton	MFWD 190	12,400	100	8	0.042	0.83	1.02	0.29	0.23	2.38	0.65	1.58	4.62
Spin Spreader	5 ton	MFWD 190	12,400	100	8	0.042	0.83	1.02	0.29	0.23	2.38	0.65	1.58	4.62
Spray (Band)	27'	MFWD 170	7,270	200	8	0.062	0.95	1.37	0.21	0.28	2.83	0.28	2.00	5.11
Spray (Band)	40'	MFWD 170	8,630	200	8	0.042	0.64	0.92	0.17	0.19	1.93	0.22	1.35	3.51
Spray (Band)	50'	MFWD 170	13,700	200	8	0.033	0.51	0.74	0.21	0.15	1.63	0.28	1.08	3.00
Spray (Band)	53'	MFWD 170	9,940	200	8	0.031	0.48	0.69	0.14	0.14	1.48	0.19	1.01	2.69
Spray (Band)	60'	MFWD 170	15,600	200	8	0.028	0.43	0.61	0.20	0.13	1.38	0.27	0.90	2.55
Spray (Bcast/HB)	13' Rigid	MFWD 150	6,760	200	8	0.130	1.98	2.51	0.41	0.52	5.44	0.54	3.51	9.50
Spray (Bcast/HB)	20' Rigid	2WD 50	7,920	200	8	0.084	1.29	0.54	0.31	0.06	2.21	0.41	0.40	3.03
Spray (Bcast/HB)	27' Fold	MFWD 170	15,100	200	8	0.062	0.95	1.37	0.44	0.28	3.06	0.58	2.00	5.65

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2019.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	---------------------$/acre							--------------------
Spray (Bcast/HB)	27' Fold	MFWD 170	15,100	200	8	0.062	0.95	1.37	0.44	0.28	3.06	0.58	2.00	5.65
Spray (Bcast/HB)	27' Rigid	MFWD 170	9,570	200	8	0.062	0.95	1.37	0.28	0.28	2.89	0.37	2.00	5.27
Spray (Bcast/HB)	30' Fold	MFWD 170	18,600	200	8	0.056	0.86	1.23	0.49	0.26	2.84	0.65	1.80	5.30
Spray (Bcast/HB)	40' Fold	MFWD 170	21,800	200	8	0.042	0.64	0.92	0.43	0.19	2.19	0.57	1.35	4.12
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	0.95	1.37	0.65	0.28	3.27	0.87	2.00	6.15
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.64	0.92	0.63	0.19	2.40	0.84	1.35	4.60
Spray (Broadcast)	27'	MFWD 170	7,270	200	8	0.062	0.95	1.37	0.21	0.28	2.83	0.28	2.00	5.11
Spray (Broadcast)	40'	MFWD 170	8,630	200	8	0.042	0.64	0.92	0.17	0.19	1.93	0.22	1.35	3.51
Spray (Broadcast)	50'	MFWD 170	13,700	200	8	0.033	0.51	0.74	0.21	0.15	1.63	0.28	1.08	3.00
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.48	0.69	0.14	0.14	1.48	0.19	1.01	2.69
Spray (Broadcast)	60'	MFWD 170	15,600	200	8	0.028	0.43	0.61	0.20	0.13	1.38	0.27	0.90	2.55
Spray (Direct/Hood)	8R-30	MFWD 170	20,000	200	8	0.084	1.29	1.85	0.79	0.39	4.32	1.05	2.70	8.08
Spray (Direct/Hood)	8R-38	MFWD 170	21,500	200	8	0.066	1.02	1.46	0.67	0.30	3.46	0.89	2.13	6.49
Spray (Direct/Hood)	12R-30	MFWD 170	24,800	200	8	0.056	0.86	1.23	0.65	0.26	3.01	0.87	1.80	5.68
Spray (Direct/Hood)	12R-38	MFWD 170	26,600	200	8	0.044	0.67	0.97	0.55	0.20	2.41	0.73	1.42	4.57
Spray (Direct/Layby)	8R-30	MFWD 170	11,300	200	8	0.084	1.29	1.85	0.44	0.39	3.98	0.59	2.70	7.28
Spray (Direct/Layby)	8R-38	MFWD 170	11,300	200	8	0.066	1.02	1.46	0.35	0.30	3.14	0.47	2.13	5.75
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	14,900	200	8	0.044	0.67	0.97	0.31	0.20	2.17	0.41	1.42	4.00
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.03	1.48	0.38	0.31	3.21	0.51	2.16	5.89
Spray (Direct/Layby)	12R-30	MFWD 170	14,900	200	8	0.056	0.86	1.23	0.39	0.26	2.74	0.52	1.80	5.07
Spray (Direct/Layby)	12R-38	MFWD 170	14,900	200	8	0.044	0.67	0.97	0.31	0.20	2.17	0.41	1.42	4.00
Spray (Direct/Layby)	16R-20	MFWD 170	17,100	200	8	0.063	0.96	1.38	0.50	0.29	3.15	0.67	2.02	5.85
Spray (Spot)	27'	MFWD 170	7,270	200	8	0.062	0.95	1.37	0.21	0.28	2.83	0.28	2.00	5.11
Spray (Spot)	40'	MFWD 170	8,630	200	8	0.042	0.64	0.92	0.17	0.19	1.93	0.22	1.35	3.51
Spray (Spot)	50'	MFWD 170	13,700	200	8	0.033	0.51	0.74	0.21	0.15	1.63	0.28	1.08	3.00
Spray (Spot)	53'	MFWD 170	9,940	200	8	0.031	0.48	0.69	0.14	0.14	1.48	0.19	1.01	2.69
Spray (Spot)	60'	MFWD 170	15,600	200	8	0.028	0.43	0.61	0.20	0.13	1.38	0.27	0.90	2.55
Stalk Shredder	14'	MFWD 150	21,100	200	10	0.117	1.26	2.27	2.17	0.47	6.19	1.45	3.18	10.82
Stalk Shredder	20'	MFWD 150	29,300	200	10	0.082	0.88	1.59	2.11	0.33	4.92	1.41	2.22	8.56
Stalk Shredder-Flail	12'	MFWD 150	17,400	200	10	0.137	1.47	2.65	2.09	0.55	6.78	1.39	3.71	11.88
Stalk Shredder-Flail	20'	MFWD 150	29,300	200	10	0.082	0.88	1.59	2.11	0.33	4.92	1.41	2.22	8.56
Subsoiler	3 shank	MFWD 190	5,860	100	15	0.204	2.19	4.99	0.39	1.11	8.70	1.12	7.71	17.54
Subsoiler	4 shank	MFWD 225	9,200	100	15	0.153	1.64	4.44	0.47	0.91	7.48	1.32	6.33	15.14
Subsoiler	5 shank	MFWD 225	12,600	100	15	0.122	1.31	3.54	0.51	0.73	6.09	1.44	5.04	12.59
Subsoiler low-till	4 shank	MFWD 225	10,800	100	15	0.153	1.64	4.44	0.55	0.91	7.56	1.55	6.33	15.45
Subsoiler low-till	6 shank	MFWD 225	14,600	100	15	0.102	1.09	2.95	0.49	0.60	5.16	1.40	4.21	10.77
Subsoiler low-till	8 shank	MFWD 225	20,000	100	15	0.076	0.82	2.21	0.51	0.45	4.00	1.43	3.15	8.59
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.72	4.65	0.83	0.96	8.17	1.61	6.63	16.42
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.15	3.11	0.75	0.64	5.66	1.46	4.43	11.56
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.19	5.91	1.05	1.21	10.38	2.05	8.42	20.85
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.46	3.94	0.75	0.81	6.97	1.46	5.61	14.05
Boll Buggy-1st Pick	2R38"157hp	MFWD 190	30,500	200	10	0.519	5.57	12.70	3.96	2.84	25.08	8.96	19.62	53.68
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	1.84	4.21	1.31	0.94	8.31	2.97	6.50	17.80
Boll Buggy-1st pick	4R30"255hp	MFWD 190	30,500	200	10	0.327	3.51	8.00	2.49	1.79	15.80	5.64	12.36	33.81
Boll Buggy-1st pick	4R30"325hp	MFWD 190	30,500	200	10	0.327	3.51	8.00	2.49	1.79	15.80	5.64	12.36	33.81
Boll Buggy-1st pick	4R38"255hp	MFWD 190	30,500	200	10	0.257	2.76	6.30	1.96	1.40	12.44	4.44	9.73	26.62
Boll Buggy-1st pick	4R38"325hp	MFWD 190	30,500	200	10	0.257	2.76	6.30	1.96	1.40	12.44	4.44	9.73	26.62
Boll Buggy-1st pick	5R30"255hp	MFWD 190	30,500	200	10	0.261	2.81	6.40	1.99	1.43	12.64	4.51	9.89	27.05
Boll Buggy-1st pick	5R38"255hp	MFWD 190	30,500	200	10	0.207	2.22	5.06	1.57	1.13	10.00	3.57	7.82	21.40
Boll Buggy-1st pick	6R30"325hp	MFWD 190	30,500	200	10	0.218	2.34	5.33	1.66	1.19	10.53	3.76	8.24	22.54
Boll Buggy-1st pick	6R38"325hp	MFWD 190	30,500	200	10	0.172	1.84	4.21	1.31	0.94	8.31	2.97	6.50	17.80
Boll Buggy-2nd pick	2R38"157hp	MFWD 190	30,500	200	10	0.440	4.72	10.76	3.35	2.40	21.24	7.59	16.62	45.47
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.56	3.56	1.11	0.79	7.04	2.51	5.51	15.07
Boll Buggy-2nd pick	4R30"255hp	MFWD 190	30,500	200	10	0.277	2.97	6.78	2.11	1.51	13.38	4.78	10.47	28.64
Boll Buggy-2nd pick	4R30"325hp	MFWD 190	30,500	200	10	0.277	2.97	6.78	2.11	1.51	13.38	4.78	10.47	28.64
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.34	5.33	1.66	1.19	10.54	3.76	8.24	22.55
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.34	5.33	1.66	1.19	10.54	3.76	8.24	22.55
Boll Buggy-2nd pick	5R30"255hp	MFWD 190	30,500	200	10	0.221	2.38	5.42	1.69	1.21	10.70	3.82	8.37	22.91
Boll Buggy-2nd pick	5R38"255hp	MFWD 190	30,500	200	10	0.175	1.88	4.29	1.33	0.95	8.47	3.02	6.62	18.13
Boll Buggy-2nd pick	6R30"325hp	MFWD 190	30,500	200	10	0.184	1.98	4.51	1.40	1.01	8.92	3.19	6.98	19.09
Boll Buggy-2nd pick	6R38"325hp	MFWD 190	30,500	200	10	0.145	1.56	3.56	1.11	0.79	7.04	2.51	5.51	15.07
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.70	4.86	1.92	1.02	10.50	4.34	6.79	21.64
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.19	3.94	1.56	0.83	8.53	3.53	5.52	17.58
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	1.84	3.32	1.31	0.70	7.18	2.97	4.64	14.81
Boll Buggy-Stripper	4R30"2X1Br	MFWD 150	30,500	200	10	0.218	2.34	4.21	1.66	0.88	9.10	3.76	5.88	18.76
Boll Buggy-Stripper	4R30"Brush	MFWD 150	30,500	200	10	0.327	3.51	6.31	2.49	1.32	13.65	5.64	8.83	28.14
Boll Buggy-Stripper	4R38"2X1Br	MFWD 150	30,500	200	10	0.172	1.84	3.32	1.31	0.70	7.18	2.97	4.64	14.81
Boll Buggy-Stripper	4R38"Brush	MFWD 150	30,500	200	10	0.257	2.76	4.97	1.96	1.04	10.75	4.44	6.95	22.15
Boll Buggy-Stripper	5R30"Brush	MFWD 150	30,500	200	10	0.261	2.81	5.05	1.99	1.06	10.92	4.51	7.06	22.51
Boll Buggy-Stripper	5R38"Brush	MFWD 150	30,500	200	10	0.207	2.22	3.99	1.57	0.84	8.64	3.57	5.59	17.81
Boll Buggy-Stripper	6R30"Brush	MFWD 150	30,500	200	10	0.218	2.34	4.21	1.66	0.88	9.10	3.76	5.88	18.76