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

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Farm Management Research & Extension
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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 2021 crop year. Crop producers are annually faced with critical management decisions that impact the employment of production inputs for various crop enterprises and the combination of crops that will be assembled into a cropping system. The need for reliable information is crucial if sound production decisions are to be made. Planning information plays a pivotal role in the development of annual crop production plans by producers and is important in supporting their efforts to secure the necessary resources to carry out their plans. In addition, information regarding production alternatives and costs and returns for major crop enterprises is needed by extension personnel, researchers, lending institutions, and others involved in agriculture or agribusiness. The purpose of this report is to provide planning information regarding crop production costs and market returns for the 2021 crop year.

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

Procedure

The general procedure used in this study was to project machinery and other input price data and apply these data to the production practice data for crop enterprises produced in Louisiana. Input prices were obtained from surveys of farm suppliers, machinery dealers, and aerial applicators to provide a basis for estimating 2021 planning budgets. Machinery and other input cost data are presented in the Appendix.

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

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

Expected Crop Yields and Market Prices

Projected crop enterprise budgets in this report include a calculation of expected market returns for the crop. Expected crop yields and market prices are selected at the beginning of the crop year. Projected crop yields are determined based on recent production history for expected yield given normal weather conditions. Projected market prices are specified as expected marketing year average prices for the commodity, based on harvest time futures price quotes as well as other market information at the beginning of the crop year. No estimate of income from farm program 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 $11.83 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at $15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was charged for these classes of operators because of the relatively higher skills required to run these types of machinery and the general consensus that these operators are generally twelve month (salaried) employees i.e. foremen. Farm labor may not be generally available on an hourly basis; however, an hourly charge represents a practical method for charging labor to the respective crop enterprises on a per acre basis.

Interest on operating capital (short term) was charged at a nominal rate of 4.00% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel prices for diesel was $1.73 per gallon. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

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

Farm Machinery Costs

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

Overhead Costs

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

Land and Management Charges

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

Acknowledgments

Several individuals were instrumental in making this report possible. The authors are particularly indebted to Louisiana crop producers and LSU Agricultural Center Extension Service agents and Experiment Station scientists for their cooperation and assistance in providing specific production practice information, as well as farm suppliers and agribusiness firms for supplying input price information. 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, 2021.

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	7.00	5.0000	35.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	_________
FERTILIZERS					
LA Nitrogen	lb	0.38	130.0000	49.40	_________
LA Phosphate	lb	0.39	40.0000	15.60	_________
LA Potash	lb	0.28	60.0000	16.80	_________
FUNGICIDES					
Quadris	oz	0.94	10.0000	9.40	_________
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	1.85	2.5000	4.63	_________
INSECTICIDES					
Karate Z	oz	1.00	4.0000	4.00	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Seed Conv.	lb	0.32	120.0000	38.40	_________
Seed Tmt	oz	0.30	21.6000	6.48	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.50	3.8000	28.50	_________
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	11.83	0.8574	10.15	_________
LA Irrigation Labor					
Irrigation System 1	hour	11.83	0.2153	2.55	_________
DIESEL FUEL					
Tractors	gal	1.73	10.5417	18.23	_________
Self-Propelled	gal	1.73	2.5825	4.47	_________
Irrigation System 1	gal	1.73	32.8389	56.80	_________
REPAIR & MAINTENANCE					
Implements	acre	3.90	1.0000	3.90	_________
Tractors	acre	5.99	1.0000	5.99	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 1	acre	3.75	1.0000	3.75	_________
INTEREST ON OP. CAP.	acre	7.55	1.0000	7.55	_________

TOTAL DIRECT EXPENSES				497.21	_________
FIXED EXPENSES					
Implements	acre	8.37	1.0000	8.37	_________
Tractors	acre	36.28	1.0000	36.28	_________
Self-Propelled	acre	21.48	1.0000	21.48	_________
Irrigation System 1	acre	32.74	1.0000	32.74	_________

TOTAL FIXED EXPENSES				98.87	_________

TOTAL SPECIFIED EXPENSES				596.08	_________

Table 1.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Water Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2021.

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	3.02	3.44	2.09	4.27	0.12	1.45				14.27
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	3.60	5.68	0.15	0.36	0.10	1.18				10.97
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	1.88	2.75	0.19	0.15	0.10	1.25				6.22
Ditcher		MFWD 150	0.020	1.00	Nov	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	1.68	2.65	0.51	2.07	0.04	0.55				7.46
App Fert by Air	cwt			1.00	Feb							1.5000	7.50	11.25	11.25
LA Nitrogen	lb											70.0000	0.38	26.60	26.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.50	7.50	7.50
LA Phosphate	lb											40.0000	0.39	15.60	15.60
LA Potash	lb											60.0000	0.28	16.80	16.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Ditcher		MFWD 150	0.020	1.00	Feb	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	1.88	2.75	0.19	0.15	0.10	1.25				6.22
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	0.44	0.65	0.13	0.18	0.02	0.30				1.70
LARice Water Level	24 ft	4WD 300	0.149	2.00	Feb	10.80	17.02	0.46	0.93	0.29	3.55				32.76
LARice Air Plant SW	cwt			1.00	Apr							1.2000	5.60	6.72	6.72
Rice Seed Conv.	lb											120.0000	0.32	38.40	38.40
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	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
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	7.00	7.00	7.00
2,4-D Amine 4	pt											2.5000	1.85	4.63	4.63
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.50	9.75	9.75
LA Nitrogen	lb											60.0000	0.38	22.80	22.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Quadris	oz											10.0000	0.94	9.40	9.40
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	19.00	21.48			0.33	5.05				45.53
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.20	0.30	0.08	0.14	0.01	0.14				0.86
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
Digital Ag Fee	acre			1.00	Aug							1.0000	8.50	8.50	8.50
Irrigation System 1	acre				Mar			60.55	32.74	0.21	2.55	1.0000			95.84
TOTALS						43.22	57.76	64.45	41.11	1.40	17.75			364.24	588.53
INTEREST ON OPERATING CAPITAL															7.55
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															596.08

Table 1.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Conventional Variety, Water Planted, Conventional Tillage, Southwest Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	58	87	116	145	174	203	232	261	290
85%	59.5	92	123	154	185	216	247	278	310	341
90%	63.0	125	158	192	225	258	291	325	358	391
95%	66.5	159	194	230	265	300	335	371	406	441
100%	70.0	192	230	267	305	342	380	417	454	492
105%	73.5	226	266	305	345	384	424	463	503	542
110%	77.0	260	301	343	385	426	468	509	551	593
115%	80.5	293	337	381	424	468	512	556	599	643
120%	84.0	327	373	419	464	510	556	602	648	693

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	-41	-12	17	46	75	104	133	162	191
85%	59.5	-7	24	55	86	117	148	180	211	242
90%	63.0	26	60	93	126	159	193	226	259	292
95%	66.5	60	95	131	166	201	237	272	307	343
100%	70.0	94	131	168	206	243	281	318	356	393
105%	73.5	127	167	206	246	285	325	364	404	443
110%	77.0	161	202	244	286	327	369	411	452	494
115%	80.5	194	238	282	326	369	413	457	500	544
120%	84.0	228	274	320	365	411	457	503	549	595

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 1.D1 Estimated Net Returns above Direct Costs for a Tenant Operator Rice, Conventional Variety, Water Planted, Conventional Tillage, Southwest Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	-24	-4	16	37	57	77	97	118	138
85%	59.5	-1	21	43	64	86	108	130	152	173
90%	63.0	23	46	69	92	116	139	162	185	209
95%	66.5	46	71	96	120	145	170	194	219	244
100%	70.0	70	96	122	148	174	201	227	253	279
105%	73.5	93	121	148	176	204	231	259	287	314
110%	77.0	117	146	175	204	233	262	291	321	350
115%	80.5	140	171	201	232	263	293	324	354	385
120%	84.0	164	196	228	260	292	324	356	388	420

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	-91	-70	-50	-30	-9	11	31	52	72
85%	59.5	-67	-45	-24	-2	20	42	64	85	107
90%	63.0	-44	-20	3	26	49	73	96	119	142
95%	66.5	-20	5	29	54	79	104	128	153	178
100%	70.0	3	30	56	82	108	134	161	187	213
105%	73.5	27	55	82	110	138	165	193	221	248
110%	77.0	51	80	109	138	167	196	225	254	284
115%	80.5	74	105	135	166	196	227	258	288	319
120%	84.0	98	130	162	194	226	258	290	322	354

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, 2021.

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	7.00	5.0000	35.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	_________
FERTILIZERS					
LA Nitrogen	lb	0.38	130.0000	49.40	_________
LA Phosphate	lb	0.39	40.0000	15.60	_________
LA Potash	lb	0.28	60.0000	16.80	_________
FUNGICIDES					
Quadris	oz	0.94	10.0000	9.40	_________
HERBICIDES					
Newpath 2SL	oz	3.83	8.0000	30.64	_________
Aim 2EC	oz	5.00	1.6000	8.00	_________
INSECTICIDES					
Karate Z	oz	1.00	4.0000	4.00	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Clearfield 161	lb	0.90	100.0000	90.00	_________
Seed Tmt	oz	0.30	18.0000	5.40	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.50	3.8000	28.50	_________
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	11.83	0.8574	10.15	_________
LA Irrigation Labor					
Irrigation System 1	hour	11.83	0.2153	2.55	_________
DIESEL FUEL					
Tractors	gal	1.73	11.0156	19.05	_________
Self-Propelled	gal	1.73	2.5825	4.47	_________
Irrigation System 1	gal	1.73	32.8389	56.80	_________
REPAIR & MAINTENANCE					
Implements	acre	3.90	1.0000	3.90	_________
Tractors	acre	6.57	1.0000	6.57	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 1	acre	3.75	1.0000	3.75	_________
INTEREST ON OP. CAP.	acre	8.14	1.0000	8.14	_________

TOTAL DIRECT EXPENSES				539.53	_________
FIXED EXPENSES					
Implements	acre	8.37	1.0000	8.37	_________
Tractors	acre	39.81	1.0000	39.81	_________
Self-Propelled	acre	21.48	1.0000	21.48	_________
Irrigation System 1	acre	32.74	1.0000	32.74	_________

TOTAL FIXED EXPENSES				102.40	_________

TOTAL SPECIFIED EXPENSES				641.93	_________

Table 2.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Water Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2021.

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	4.42	6.97	2.09	4.27	0.12	1.45				19.20
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	3.60	5.68	0.15	0.36	0.10	1.18				10.97
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	1.88	2.75	0.19	0.15	0.10	1.25				6.22
Ditcher		MFWD 150	0.020	1.00	Nov	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	1.68	2.65	0.51	2.07	0.04	0.55				7.46
App Fert by Air	cwt			1.00	Feb							1.5000	7.50	11.25	11.25
LA Nitrogen	lb											70.0000	0.38	26.60	26.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.50	7.50	7.50
LA Phosphate	lb											40.0000	0.39	15.60	15.60
LA Potash	lb											60.0000	0.28	16.80	16.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Ditcher		MFWD 150	0.020	1.00	Feb	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	1.88	2.75	0.19	0.15	0.10	1.25				6.22
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	0.44	0.65	0.13	0.18	0.02	0.30				1.70
LARice Water Level	24 ft	4WD 300	0.149	2.00	Feb	10.80	17.02	0.46	0.93	0.29	3.55				32.76
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	0.90	90.00	90.00
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	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
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	7.00	7.00	7.00
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
Aim 2EC	oz											1.6000	5.00	8.00	8.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.50	9.75	9.75
LA Nitrogen	lb											60.0000	0.38	22.80	22.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Quadris	oz											10.0000	0.94	9.40	9.40
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	19.00	21.48			0.33	5.05				45.53
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.20	0.30	0.08	0.14	0.01	0.14				0.86
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
Digital Ag Fee	acre			1.00	Aug							1.0000	8.50	8.50	8.50
Irrigation System 1	acre				Mar			60.55	32.74	0.21	2.55	1.0000			95.84
TOTALS						44.62	61.29	64.45	41.11	1.40	17.75			404.57	633.79
INTEREST ON OPERATING CAPITAL															8.14
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															641.93

Table 2.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Clearfield Variety, Water Planted, Conventional Tillage, Southwest Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	16	45	74	103	132	161	190	219	248
85%	59.5	49	80	112	143	174	205	236	267	298
90%	63.0	83	116	149	183	216	249	282	316	349
95%	66.5	117	152	187	223	258	293	328	364	399
100%	70.0	150	188	225	262	300	337	375	412	450
105%	73.5	184	223	263	302	342	381	421	460	500
110%	77.0	217	259	301	342	384	425	467	509	550
115%	80.5	251	295	338	382	426	470	513	557	601
120%	84.0	285	330	376	422	468	514	559	605	651

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	-87	-58	-29	0	29	58	87	117	146
85%	59.5	-53	-22	9	40	71	103	134	165	196
90%	63.0	-19	14	47	80	113	147	180	213	246
95%	66.5	14	49	85	120	155	191	226	261	297
100%	70.0	48	85	123	160	197	235	272	310	347
105%	73.5	81	121	160	200	239	279	318	358	398
110%	77.0	115	157	198	240	281	323	365	406	448
115%	80.5	149	192	236	280	323	367	411	455	498
120%	84.0	182	228	274	320	365	411	457	503	549

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	-67	-46	-26	-6	15	35	55	75	96
85%	59.5	-43	-21	0	22	44	66	87	109	131
90%	63.0	-20	4	27	50	73	97	120	143	166
95%	66.5	4	29	53	78	103	127	152	177	202
100%	70.0	27	54	80	106	132	158	184	211	237
105%	73.5	51	79	106	134	162	189	217	245	272
110%	77.0	74	104	133	162	191	220	249	278	307
115%	80.5	98	128	159	190	220	251	282	312	343
120%	84.0	121	153	186	218	250	282	314	346	378

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	-136	-116	-96	-75	-55	-35	-15	6	26
85%	59.5	-113	-91	-69	-48	-26	-4	18	40	61
90%	63.0	-89	-66	-43	-20	4	27	50	73	97
95%	66.5	-66	-41	-16	8	33	58	82	107	132
100%	70.0	-42	-16	10	36	62	89	115	141	167
105%	73.5	-19	9	37	64	92	120	147	175	203
110%	77.0	5	34	63	92	121	150	180	209	238
115%	80.5	28	59	89	120	151	181	212	242	273
120%	84.0	52	84	116	148	180	212	244	276	308

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 3.A Estimated costs per acre,
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2021.

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	7.00	4.0000	28.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	_________
FERTILIZERS					
LA Nitrogen	lb	0.38	130.0000	49.40	_________
LA Phosphate	lb	0.39	40.0000	15.60	_________
LA Potash	lb	0.28	60.0000	16.80	_________
FUNGICIDES					
Quadris	oz	0.94	10.0000	9.40	_________
HERBICIDES					
Command 3ME	pt	18.56	0.8000	14.85	_________
Permit 75DF	oz	15.00	1.0000	15.00	_________
INSECTICIDES					
Karate Z	oz	1.00	4.0000	4.00	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Seed Conv.	lb	0.32	90.0000	28.80	_________
Seed Tmt	oz	0.30	16.2000	4.86	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.50	3.8000	28.50	_________
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	11.83	0.7118	8.43	_________
LA Irrigation Labor					
Irrigation System 2	hour	11.83	0.2074	2.44	_________
DIESEL FUEL					
Tractors	gal	1.73	7.5765	13.10	_________
Self-Propelled	gal	1.73	2.5825	4.47	_________
Irrigation System 2	gal	1.73	35.4660	61.35	_________
REPAIR & MAINTENANCE					
Implements	acre	5.03	1.0000	5.03	_________
Tractors	acre	4.47	1.0000	4.47	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 2	acre	3.61	1.0000	3.61	_________
INTEREST ON OP. CAP.	acre	6.66	1.0000	6.66	_________

TOTAL DIRECT EXPENSES				450.73	_________
FIXED EXPENSES					
Implements	acre	10.28	1.0000	10.28	_________
Tractors	acre	26.80	1.0000	26.80	_________
Self-Propelled	acre	21.48	1.0000	21.48	_________
Irrigation System 2	acre	32.74	1.0000	32.74	_________

TOTAL FIXED EXPENSES				91.30	_________

TOTAL SPECIFIED EXPENSES				542.03	_________

Table 3.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Drill Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2021.

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	4.42	6.97	2.09	4.27	0.12	1.45				19.20
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	3.60	5.68	0.15	0.36	0.10	1.18				10.97
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	1.88	2.75	0.19	0.15	0.10	1.25				6.22
Ditcher		MFWD 150	0.020	1.00	Nov	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	1.68	2.65	0.51	2.07	0.04	0.55				7.46
App Fert by Air	cwt			1.00	Feb							1.5000	7.50	11.25	11.25
LA Nitrogen	lb											70.0000	0.38	26.60	26.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.50	7.50	7.50
LA Phosphate	lb											40.0000	0.39	15.60	15.60
LA Potash	lb											60.0000	0.28	16.80	16.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	1.68	2.45	1.46	2.70	0.18	1.97				10.26
Rice Seed Conv.	lb											90.0000	0.32	28.80	28.80
Seed Tmt	oz											16.2000	0.30	4.86	4.86
Ditcher		MFWD 150	0.020	1.00	Apr	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	1.88	2.75	0.19	0.15	0.10	1.25				6.22
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	0.44	0.65	0.13	0.18	0.02	0.30				1.70
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.07	1.56	0.13	0.14	0.05	0.71				3.61
Command 3ME	pt											0.8000	18.56	14.85	14.85
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Permit 75DF	oz											1.0000	15.00	15.00	15.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.50	9.75	9.75
LA Nitrogen	lb											60.0000	0.38	22.80	22.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Quadris	oz											10.0000	0.94	9.40	9.40
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	19.00	21.48			0.33	5.05				45.53
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.20	0.30	0.08	0.14	0.01	0.14				0.86
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
Digital Ag Fee	acre			1.00	Aug							1.0000	8.50	8.50	8.50
Irrigation System 2	acre				Mar			64.96	32.74	0.20	2.44	1.0000			100.14
TOTALS						36.57	48.28	69.99	43.02	1.34	16.77			320.74	535.37
INTEREST ON OPERATING CAPITAL															6.66
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															542.03

Table 3.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	105	134	163	192	221	250	279	308	337
85%	59.5	138	169	200	232	263	294	325	356	387
90%	63.0	172	205	238	271	305	338	371	404	438
95%	66.5	205	241	276	311	347	382	417	453	488
100%	70.0	239	276	314	351	389	426	463	501	538
105%	73.5	273	312	352	391	431	470	510	549	589
110%	77.0	306	348	389	431	473	514	556	598	639
115%	80.5	340	383	427	471	515	558	602	646	690
120%	84.0	373	419	465	511	557	602	648	694	740

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	13	42	71	100	129	158	187	216	245
85%	59.5	47	78	109	140	171	202	234	265	296
90%	63.0	80	114	147	180	213	247	280	313	346
95%	66.5	114	149	185	220	255	291	326	361	397
100%	70.0	148	185	222	260	297	335	372	410	447
105%	73.5	181	221	260	300	339	379	418	458	497
110%	77.0	215	256	298	340	381	423	465	506	548
115%	80.5	248	292	336	380	423	467	511	555	598
120%	84.0	282	328	374	420	465	511	557	603	649

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	27	47	67	88	108	128	148	169	189
85%	59.5	50	72	94	115	137	159	181	203	224
90%	63.0	74	97	120	143	167	190	213	236	260
95%	66.5	97	122	147	171	196	221	246	270	295
100%	70.0	121	147	173	199	225	252	278	304	330
105%	73.5	144	172	200	227	255	283	310	338	366
110%	77.0	168	197	226	255	284	313	343	372	401
115%	80.5	191	222	252	283	314	344	375	405	436
120%	84.0	215	247	279	311	343	375	407	439	471

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	-32	-12	9	29	49	70	90	110	131
85%	59.5	-8	13	35	57	79	100	122	144	166
90%	63.0	15	38	62	85	108	131	155	178	201
95%	66.5	39	63	88	113	137	162	187	212	236
100%	70.0	62	88	115	141	167	193	219	245	272
105%	73.5	86	113	141	169	196	224	252	279	307
110%	77.0	109	138	167	197	226	255	284	313	342
115%	80.5	133	163	194	224	255	286	316	347	378
120%	84.0	156	188	220	252	284	317	349	381	413

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, 2021.

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	7.00	5.0000	35.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	_________
FERTILIZERS					
LA Nitrogen	lb	0.38	130.0000	49.40	_________
LA Phosphate	lb	0.39	40.0000	15.60	_________
LA Potash	lb	0.28	60.0000	16.80	_________
FUNGICIDES					
Quadris	oz	0.94	10.0000	9.40	_________
HERBICIDES					
Newpath 2SL	oz	3.83	8.0000	30.64	_________
Aim 2EC	oz	5.00	1.6000	8.00	_________
INSECTICIDES					
Karate Z	oz	1.00	4.0000	4.00	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Clearfield 161	lb	0.90	75.0000	67.50	_________
Seed Tmt	oz	0.30	13.5000	4.05	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.50	3.8000	28.50	_________
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	11.83	0.6518	7.72	_________
LA Irrigation Labor					
Irrigation System 2	hour	11.83	0.2074	2.44	_________
DIESEL FUEL					
Tractors	gal	1.73	7.2104	12.47	_________
Self-Propelled	gal	1.73	2.5825	4.47	_________
Irrigation System 2	gal	1.73	35.4660	61.35	_________
REPAIR & MAINTENANCE					
Implements	acre	4.90	1.0000	4.90	_________
Tractors	acre	4.25	1.0000	4.25	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 2	acre	3.61	1.0000	3.61	_________
INTEREST ON OP. CAP.	acre	7.49	1.0000	7.49	_________

TOTAL DIRECT EXPENSES				503.90	_________
FIXED EXPENSES					
Implements	acre	10.14	1.0000	10.14	_________
Tractors	acre	25.66	1.0000	25.66	_________
Self-Propelled	acre	21.48	1.0000	21.48	_________
Irrigation System 2	acre	32.74	1.0000	32.74	_________

TOTAL FIXED EXPENSES				90.02	_________

TOTAL SPECIFIED EXPENSES				593.92	_________

Table 4.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Drill Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2021.

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	4.42	6.97	2.09	4.27	0.12	1.45				19.20
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	3.60	5.68	0.15	0.36	0.10	1.18				10.97
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	1.88	2.75	0.19	0.15	0.10	1.25				6.22
Ditcher		MFWD 150	0.020	1.00	Nov	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	1.68	2.65	0.51	2.07	0.04	0.55				7.46
App Fert by Air	cwt			1.00	Feb							1.5000	7.50	11.25	11.25
LA Nitrogen	lb											70.0000	0.38	26.60	26.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.50	7.50	7.50
LA Phosphate	lb											40.0000	0.39	15.60	15.60
LA Potash	lb											60.0000	0.28	16.80	16.80
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	1.90	2.87	1.46	2.70	0.18	1.97				10.90
Rice Clearfield 161	lb											75.0000	0.90	67.50	67.50
Seed Tmt	oz											13.5000	0.30	4.05	4.05
Ditcher		MFWD 150	0.020	1.00	Apr	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	1.88	2.75	0.19	0.15	0.10	1.25				6.22
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	0.44	0.65	0.13	0.18	0.02	0.30				1.70
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
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	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
Aim 2EC	oz											1.6000	5.00	8.00	8.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.50	9.75	9.75
LA Nitrogen	lb											60.0000	0.38	22.80	22.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Quadris	oz											10.0000	0.94	9.40	9.40
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	19.00	21.48			0.33	5.05				45.53
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.20	0.30	0.08	0.14	0.01	0.14				0.86
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
Digital Ag Fee	acre			1.00	Aug							1.0000	8.50	8.50	8.50
Irrigation System 2	acre				Mar			64.96	32.74	0.20	2.44	1.0000			100.14
TOTALS						35.72	47.14	69.86	42.88	1.28	16.06			374.77	586.43
INTEREST ON OPERATING CAPITAL															7.49
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															593.92

Table 4.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2021.

						Percent				
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield					Rice Market Price ($/cwt)				
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
						($/acre)				
80%	56.0	51	80	109	138	167	196	226	255	284
85%	59.5	85	116	147	178	209	241	272	303	334
90%	63.0	119	152	185	218	251	285	318	351	384
95%	66.5	152	188	223	258	293	329	364	399	435
100%	70.0	186	223	261	298	335	373	410	448	485
105%	73.5	219	259	298	338	377	417	457	496	536
110%	77.0	253	295	336	378	419	461	503	544	586
115%	80.5	287	330	374	418	461	505	549	593	636
120%	84.0	320	366	412	458	503	549	595	641	687

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, 2021.

						Percent				
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield					Rice Market Price ($/cwt)				
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
						($/acre)				
80%	56.0	-39	-10	19	48	77	106	135	165	194
85%	59.5	-5	26	57	88	119	151	182	213	244
90%	63.0	29	62	95	128	161	195	228	261	294
95%	66.5	62	97	133	168	203	239	274	309	345
100%	70.0	96	133	171	208	245	283	320	358	395
105%	73.5	129	169	208	248	287	327	366	406	446
110%	77.0	163	205	246	288	329	371	413	454	496
115%	80.5	197	240	284	328	371	415	459	503	546
120%	84.0	230	276	322	368	413	459	505	551	597

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 4.D1 Estimated Net Returns above Direct Costs for a Tenant Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	-27	-6	14	34	55	75	95	116	136
85%	59.5	-3	19	41	62	84	106	128	149	171
90%	63.0	20	44	67	90	113	137	160	183	207
95%	66.5	44	69	93	118	143	168	192	217	242
100%	70.0	68	94	120	146	172	198	225	251	277
105%	73.5	91	119	146	174	202	229	257	285	312
110%	77.0	115	144	173	202	231	260	289	318	348
115%	80.5	138	169	199	230	260	291	322	352	383
120%	84.0	162	194	226	258	290	322	354	386	418

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	56.0	-84	-64	-43	-23	-3	18	38	58	79
85%	59.5	-60	-39	-17	5	27	49	70	92	114
90%	63.0	-37	-14	10	33	56	79	103	126	149
95%	66.5	-13	11	36	61	86	110	135	160	185
100%	70.0	10	36	63	89	115	141	167	194	220
105%	73.5	34	61	89	117	144	172	200	227	255
110%	77.0	57	86	116	145	174	203	232	261	290
115%	80.5	81	111	142	173	203	234	264	295	326
120%	84.0	104	136	168	201	233	265	297	329	361

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, 2021.

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	7.00	4.0000	28.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	88.8000	79.92	_________
FERTILIZERS					
LA Nitrogen	lb	0.38	150.0000	57.00	_________
LA Phosphate	lb	0.39	40.0000	15.60	_________
LA Potash	lb	0.28	60.0000	16.80	_________
FUNGICIDES					
Stratego	pt	77.60	0.7100	55.10	_________
HERBICIDES					
Command 3ME	pt	18.56	0.8000	14.85	_________
Permit 75DF	oz	15.00	1.0000	15.00	_________
INSECTICIDES					
Karate Z	oz	1.00	4.0000	4.00	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
LA Hybrid Rice Seed	acre	172.50	1.0000	172.50	_________
Seed Tmt	oz	0.30	3.6000	1.08	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.50	3.8000	28.50	_________
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	11.83	0.6505	7.71	_________
LA Irrigation Labor					
Irrigation System 2	hour	11.83	0.2074	2.44	_________
DIESEL FUEL					
Tractors	gal	1.73	6.6287	11.46	_________
Self-Propelled	gal	1.73	2.5825	4.47	_________
Irrigation System 2	gal	1.73	35.4660	61.35	_________
REPAIR & MAINTENANCE					
Implements	acre	3.99	1.0000	3.99	_________
Tractors	acre	3.90	1.0000	3.90	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 2	acre	3.61	1.0000	3.61	_________
INTEREST ON OP. CAP.	acre	12.37	1.0000	12.37	_________

TOTAL DIRECT EXPENSES				658.68	_________
FIXED EXPENSES					
Implements	acre	8.14	1.0000	8.14	_________
Tractors	acre	23.31	1.0000	23.31	_________
Self-Propelled	acre	21.48	1.0000	21.48	_________
Irrigation System 2	acre	32.74	1.0000	32.74	_________

TOTAL FIXED EXPENSES				85.67	_________

TOTAL SPECIFIED EXPENSES				744.35	_________

Table 5.B Estimated resource use and costs for field operations, per acre, Rice, Hybrid Variety, Drill Planted, (In Rotation), Southwest Louisiana, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						dollars	dollars	dollars	dollars		dollars		dollars	dollars	dollars
Disk Harrow	32'	4WD 300	0.061	1.00	Nov	2.21	3.48	1.05	2.13	0.06	0.73				9.60
LA Hybrid Rice Seed	acre											1.0000	172.50	172.50	172.50
Seed Tmt	oz											3.6000	0.30	1.08	1.08
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	3.60	5.68	0.15	0.36	0.10	1.18				10.97
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	1.88	2.75	0.19	0.15	0.10	1.25				6.22
Ditcher		MFWD 150	0.020	1.00	Nov	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	1.68	2.65	0.51	2.07	0.04	0.55				7.46
App Fert by Air	cwt			1.00	Feb							1.5000	7.50	11.25	11.25
LA Nitrogen	lb											75.0000	0.38	28.50	28.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.50	7.50	7.50
LA Phosphate	lb											40.0000	0.39	15.60	15.60
LA Potash	lb											60.0000	0.28	16.80	16.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	1.68	2.45	1.46	2.70	0.18	1.97				10.26
Ditcher		MFWD 150	0.020	1.00	Apr	0.36	0.52	0.05	0.06	0.02	0.24				1.23
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	1.88	2.75	0.19	0.15	0.10	1.25				6.22
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	0.44	0.65	0.13	0.18	0.02	0.30				1.70
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.07	1.56	0.13	0.14	0.05	0.71				3.61
Command 3ME	pt											0.8000	18.56	14.85	14.85
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Permit 75DF	oz											1.0000	15.00	15.00	15.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.50	9.75	9.75
LA Nitrogen	lb											75.0000	0.38	28.50	28.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Stratego	pt											0.7100	77.60	55.10	55.10
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	19.00	21.48			0.33	5.05				45.53
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.20	0.30	0.08	0.14	0.01	0.14				0.86
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
Digital Ag Fee	acre			1.00	Aug							1.0000	8.50	8.50	8.50
Irrigation System 2	acre				Mar			64.96	32.74	0.20	2.44	1.0000			100.14
TOTALS						34.36	44.79	68.95	40.88	1.28	16.05			526.95	731.98
INTEREST ON OPERATING CAPITAL															12.37
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															744.35

Table 5.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Hybrid Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	64.0	-24	9	42	75	109	142	175	208	241
85%	68.0	14	50	85	121	157	192	228	263	299
90%	72.0	53	91	129	167	205	243	281	319	356
95%	76.0	91	131	172	212	253	293	333	374	414
100%	80.0	130	172	215	258	301	343	386	429	472
105%	84.0	168	213	258	303	349	394	439	484	529
110%	88.0	206	254	301	349	397	444	492	539	587
115%	92.0	245	295	345	395	445	495	545	595	644
120%	96.0	283	335	388	440	493	545	597	650	702

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	64.0	-110	-77	-43	-10	23	56	89	122	156
85%	68.0	-71	-36	0	35	71	106	142	178	213
90%	72.0	-33	5	43	81	119	157	195	233	271
95%	76.0	5	46	86	127	167	207	248	288	328
100%	80.0	44	87	129	172	215	258	300	343	386
105%	84.0	82	127	173	218	263	308	353	398	444
110%	88.0	121	168	216	263	311	358	406	454	501
115%	92.0	159	209	259	309	359	409	459	509	559
120%	96.0	197	250	302	355	407	459	512	564	616

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, 2021.

						Percent				
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield				Rice Market Price ($/cwt)					
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
						($/acre)				
80%	64.0	-122	-99	-75	-52	-29	-6	17	41	64
85%	68.0	-95	-70	-45	-20	5	29	54	79	104
90%	72.0	-68	-42	-15	12	38	65	91	118	144
95%	76.0	-41	-13	15	43	72	100	128	157	185
100%	80.0	-14	16	45	75	105	135	165	195	225
105%	84.0	12	44	76	107	139	171	202	234	265
110%	88.0	39	73	106	139	173	206	239	272	306
115%	92.0	66	101	136	171	206	241	276	311	346
120%	96.0	93	130	166	203	240	276	313	350	386

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, 2021.

						Percent				
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield				Rice Market Price ($/cwt)					
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
						($/acre)				
80%	64.0	-175	-152	-128	-105	-82	-59	-36	-12	11
85%	68.0	-148	-123	-98	-73	-48	-23	1	26	51
90%	72.0	-121	-95	-68	-41	-15	12	38	65	92
95%	76.0	-94	-66	-38	-9	19	47	75	104	132
100%	80.0	-67	-37	-7	22	52	82	112	142	172
105%	84.0	-40	-9	23	54	86	118	149	181	212
110%	88.0	-14	20	53	86	120	153	186	220	253
115%	92.0	13	48	83	118	153	188	223	258	293
120%	96.0	40	77	113	150	187	223	260	297	333

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 6.A Estimated costs per acre,
Rice, Ratoon Crop,
Southwest Louisiana, 2021.

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	0.38	55.0000	20.90	________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.50	1.2000	9.00	________
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	11.83	0.0820	0.98	________
LA Irrigation Labor					
Irrigation System 3	hour	11.83	0.0861	1.02	________
DIESEL FUEL					
Tractors	gal	1.73	0.6332	1.09	________
Self-Propelled	gal	1.73	2.5825	4.47	________
Irrigation System 3	gal	1.73	13.1355	22.73	________
REPAIR & MAINTENANCE					
Implements	acre	0.21	1.0000	0.21	________
Tractors	acre	0.37	1.0000	0.37	________
Self-Propelled	acre	14.53	1.0000	14.53	________
INTEREST ON OP. CAP.	acre	1.26	1.0000	1.26	________
TOTAL DIRECT EXPENSES				120.31	________
FIXED EXPENSES					
Implements	acre	0.24	1.0000	0.24	________
Tractors	acre	2.09	1.0000	2.09	________
Self-Propelled	acre	21.18	1.0000	21.18	________
TOTAL FIXED EXPENSES				23.51	________
TOTAL SPECIFIED EXPENSES				143.82	________

Table 6.B Estimated resource use and costs for field operations, per acre, Rice, Ratoon Crop, Southwest Louisiana, 2021.

OPERATION/	SIZE/	POWER UNIT	PERF	TIMES		POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	COST
						------------dollars-----------					dollars		---------dollars---------		
Blade-Scraper	10'	MFWD 150	1.176	0.06	Aug	1.26	1.80	0.13	0.10	0.07	0.84				4.13
Irrigation System 3					Aug										
App Fert by Air	cwt			1.00	Aug							1.2000	7.50	9.00	9.00
LA Nitrogen	lb											55.0000	0.38	20.90	20.90
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine-2	25 ft		0.300	1.00	Oct	19.00	21.18			0.33	5.05				45.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Oct	0.20	0.29	0.08	0.14	0.01	0.14				0.85
LARice Haul	cwt			1.00	Oct							23.0000	0.30	6.90	6.90
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50	8.50
LARice Dry	cwt			1.00	Nov							25.5000	0.90	22.95	22.95
Irrigation System 3	acre				Aug			22.73		0.08	1.02	1.0000			23.75
TOTALS						20.46	23.27	22.94	0.24	0.49	7.05			68.60	142.56
INTEREST ON OPERATING CAPITAL															1.26
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															143.82

Table 6.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Ratoon Crop,
Southwest Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	18.4	62	72	81	91	100	110	119	129	138
85%	19.6	73	83	94	104	114	124	135	145	155
90%	20.7	84	95	106	117	128	139	150	161	172
95%	21.9	95	107	118	130	142	153	165	176	188
100%	23.0	106	119	131	143	155	168	180	192	205
105%	24.2	117	130	143	156	169	182	195	208	221
110%	25.3	128	142	156	169	183	197	210	224	238
115%	26.5	139	154	168	182	197	211	226	240	254
120%	27.6	150	165	181	196	211	226	241	256	271

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	18.4	39	48	58	67	77	86	96	105	115
85%	19.6	50	60	70	80	91	101	111	121	131
90%	20.7	61	72	83	93	104	115	126	137	148
95%	21.9	72	83	95	107	118	130	141	153	165
100%	23.0	83	95	107	120	132	144	157	169	181
105%	24.2	94	107	120	133	146	159	172	185	198
110%	25.3	105	119	132	146	160	173	187	201	214
115%	26.5	116	130	145	159	173	188	202	216	231
120%	27.6	127	142	157	172	187	202	217	232	247

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 6.D1 Estimated Net Returns above Direct Costs for a Tenant Operator
Rice, Ratoon Crop,
Southwest Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	18.4	39	46	52	59	66	72	79	86	92
85%	19.6	47	54	61	68	75	83	90	97	104
90%	20.7	55	62	70	77	85	93	100	108	116
95%	21.9	62	70	79	87	95	103	111	119	127
100%	23.0	70	79	87	96	104	113	122	130	139
105%	24.2	78	87	96	105	114	123	132	141	150
110%	25.3	85	95	105	114	124	133	143	152	162
115%	26.5	93	103	113	123	133	143	154	164	174
120%	27.6	101	111	122	133	143	154	164	175	185

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	18.4	16	22	29	36	42	49	56	62	69
85%	19.6	23	30	38	45	52	59	66	73	81
90%	20.7	31	39	46	54	62	69	77	85	92
95%	21.9	39	47	55	63	71	79	87	96	104
100%	23.0	46	55	64	72	81	90	98	107	115
105%	24.2	54	63	72	81	91	100	109	118	127
110%	25.3	62	72	81	91	100	110	119	129	139
115%	26.5	70	80	90	100	110	120	130	140	150
120%	27.6	77	88	98	109	120	130	141	151	162

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, 2021.

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	7.00	4.0000	28.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	78.0000	70.20	_________
FERTILIZERS					
LA Nitrogen	lb	0.38	170.0000	64.60	_________
FUNGICIDES					
Quadris	oz	0.94	10.0000	9.40	_________
HERBICIDES					
Command 3ME	pt	18.56	0.8000	14.85	_________
Permit 75DF	oz	15.00	1.0000	15.00	_________
INSECTICIDES					
Karate Z	oz	1.00	4.0000	4.00	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Seed Conv.	lb	0.32	90.0000	28.80	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.50	3.7000	27.75	_________
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	11.83	0.8249	9.78	_________
LA Irrigation Labor					
Irrigation System 5	hour	11.83	0.4361	5.15	_________
DIESEL FUEL					
Tractors	gal	1.73	7.9039	13.66	_________
Self-Propelled	gal	1.73	2.5825	4.47	_________
Irrigation System 5	gal	1.73	28.5331	49.36	_________
REPAIR & MAINTENANCE					
Implements	acre	6.24	1.0000	6.24	_________
Tractors	acre	4.69	1.0000	4.69	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 5	acre	2.17	1.0000	2.17	_________
INTEREST ON OP. CAP.	acre	5.03	1.0000	5.03	_________

TOTAL DIRECT EXPENSES				418.78	_________
FIXED EXPENSES					
Implements	acre	12.70	1.0000	12.70	_________
Tractors	acre	27.70	1.0000	27.70	_________
Self-Propelled	acre	21.18	1.0000	21.18	_________
Irrigation System 5	acre	12.54	1.0000	12.54	_________

TOTAL FIXED EXPENSES				74.12	_________

TOTAL SPECIFIED EXPENSES				492.90	_________

Table 7.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Drill Plant, Conventional Tillage, (In Rotation), Northeast Louisiana, 2021.

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	2.21	3.43	1.05	2.10	0.06	0.73				9.52
Ditcher		MFWD 150	0.020	2.00	Nov	0.71	1.02	0.10	0.12	0.04	0.47				2.42
Disk Harrow	28'	MFWD 190	0.070	2.00	Mar	3.20	4.97	2.18	4.37	0.14	1.66				16.38
Irrigation System 5					Mar										
Ditcher		MFWD 150	0.020	1.00	Mar	0.36	0.51	0.05	0.06	0.02	0.24				1.22
Field Cultivate	32'	4WD 300	0.046	1.00	Mar	1.68	2.61	0.51	2.03	0.04	0.55				7.38
LARice Levee Plow	8 ft	MFWD 190	0.050	4.00	Mar	4.56	7.08	0.31	0.72	0.20	2.37				15.04
App Fert by Air	cwt			1.00	Apr							0.4000	7.50	3.00	3.00
LA Nitrogen	lb											20.0000	0.38	7.60	7.60
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	1.68	2.41	1.46	2.65	0.18	1.97				10.17
Rice Seed Conv.	lb											90.0000	0.32	28.80	28.80
Ditcher		MFWD 150	0.020	1.00	Apr	0.36	0.51	0.05	0.06	0.02	0.24				1.22
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	1.88	2.70	0.19	0.14	0.10	1.25				6.16
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	0.44	0.64	0.13	0.17	0.02	0.30				1.68
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.07	1.53	0.13	0.14	0.05	0.71				3.58
Command 3ME	pt											0.8000	18.56	14.85	14.85
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Permit 75DF	oz											1.0000	15.00	15.00	15.00
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	May							2.0000	7.50	15.00	15.00
LA Nitrogen	lb											90.0000	0.38	34.20	34.20
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	Jun							1.3000	7.50	9.75	9.75
LA Nitrogen	lb											60.0000	0.38	22.80	22.80
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Quadris	oz											10.0000	0.94	9.40	9.40
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jul							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
LA Rice Combine	25 ft		0.300	1.00	Aug	19.00	21.18			0.33	5.05				45.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.20	0.29	0.08	0.14	0.01	0.14				0.85
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
Digital Ag Fee	acre			1.00	Aug							1.0000	8.50	8.50	8.50
Irrigation System 5	acre				Mar			51.53	12.54	0.43	5.15	1.0000			69.22
TOTALS						37.35	48.88	57.77	25.24	1.68	20.83			297.80	487.87
INTEREST ON OPERATING CAPITAL															5.03
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															492.90

Table 7.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Conventional Variety, Drill Planted, Conventional Tillage, Northeast Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	59.2	167	198	228	259	290	321	352	383	414
85%	62.9	202	235	268	302	335	368	401	434	467
90%	66.6	238	273	308	344	379	414	450	485	520
95%	70.3	273	311	348	386	423	461	499	536	574
100%	74.0	309	349	388	428	468	508	547	587	627
105%	77.7	344	386	428	470	512	554	596	638	680
110%	81.4	380	424	468	512	557	601	645	689	733
115%	85.1	415	462	508	555	601	647	694	740	787
120%	88.8	451	500	548	597	645	694	743	791	840

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	59.2	93	124	154	185	216	247	278	309	340
85%	62.9	128	161	194	227	261	294	327	360	393
90%	66.6	164	199	234	270	305	340	376	411	446
95%	70.3	199	237	274	312	349	387	424	462	499
100%	74.0	235	274	314	354	394	433	473	513	553
105%	77.7	270	312	354	396	438	480	522	564	606
110%	81.4	306	350	394	438	483	527	571	615	659
115%	85.1	341	388	434	481	527	573	620	666	713
120%	88.8	377	425	474	523	571	620	669	717	766

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	59.2	68	90	111	133	154	176	198	219	241
85%	62.9	93	116	139	162	185	209	232	255	278
90%	66.6	118	142	167	192	217	241	266	291	315
95%	70.3	142	169	195	221	248	274	300	326	353
100%	74.0	167	195	223	251	279	307	334	362	390
105%	77.7	192	222	251	280	310	339	369	398	427
110%	81.4	217	248	279	310	341	372	403	434	465
115%	85.1	242	274	307	339	372	404	437	469	502
120%	88.8	267	301	335	369	403	437	471	505	539

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	59.2	6	28	50	71	93	114	136	158	179
85%	62.9	31	54	78	101	124	147	170	193	217
90%	66.6	56	81	105	130	155	180	204	229	254
95%	70.3	81	107	133	160	186	212	239	265	291
100%	74.0	106	134	161	189	217	245	273	301	328
105%	77.7	131	160	189	219	248	278	307	336	366
110%	81.4	156	186	217	248	279	310	341	372	403
115%	85.1	180	213	245	278	310	343	375	408	440
120%	88.8	205	239	273	307	341	375	410	444	478

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, 2021.

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	7.00	5.0000	35.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	82.1000	73.89	_________
FERTILIZERS					
LA Nitrogen	lb	0.38	170.0000	64.60	_________
FUNGICIDES					
Quadris	oz	0.94	10.0000	9.40	_________
HERBICIDES					
Newpath 2SL	oz	3.43	8.0000	27.44	_________
Aim 2EC	oz	5.00	1.6000	8.00	_________
INSECTICIDES					
Karate Z	oz	1.00	4.0000	4.00	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Clearfield 161	lb	0.90	75.0000	67.50	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.50	3.7000	27.75	_________
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	11.83	0.7537	8.94	_________
LA Irrigation Labor					
Irrigation System 5	hour	11.83	0.4361	5.15	_________
DIESEL FUEL					
Tractors	gal	1.73	6.7604	11.69	_________
Self-Propelled	gal	1.73	2.5825	4.47	_________
Irrigation System 5	gal	1.73	28.5331	49.36	_________
REPAIR & MAINTENANCE					
Implements	acre	6.10	1.0000	6.10	_________
Tractors	acre	4.02	1.0000	4.02	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 5	acre	2.17	1.0000	2.17	_________
INTEREST ON OP. CAP.	acre	5.82	1.0000	5.82	_________

TOTAL DIRECT EXPENSES				472.08	_________
FIXED EXPENSES					
Implements	acre	12.59	1.0000	12.59	_________
Tractors	acre	23.75	1.0000	23.75	_________
Self-Propelled	acre	21.18	1.0000	21.18	_________
Irrigation System 5	acre	12.54	1.0000	12.54	_________

TOTAL FIXED EXPENSES				70.06	_________

TOTAL SPECIFIED EXPENSES				542.14	_________

Table 8.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Drill Plant, Conventional Tillage, (In Rotation), Northeast Louisiana, 2021.

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	1.60	2.48	1.09	2.19	0.07	0.83				8.19
Ditcher		MFWD 150	0.020	1.00	Nov	0.36	0.51	0.05	0.06	0.02	0.24				1.22
Disk Harrow	28'	MFWD 190	0.070	2.00	Mar	3.20	4.97	2.18	4.37	0.14	1.66				16.38
Irrigation System 5					Mar										
Ditcher		MFWD 150	0.020	1.00	Mar	0.36	0.51	0.05	0.06	0.02	0.24				1.22
Field Cultivate	32'	MFWD 190	0.046	1.00	Mar	1.07	1.65	0.51	2.03	0.04	0.55				5.81
LARice Levee Plow	8 ft	MFWD 190	0.050	4.00	Mar	4.56	7.08	0.31	0.72	0.20	2.37				15.04
App Fert by Air	cwt			1.00	Apr							0.4000	7.50	3.00	3.00
LA Nitrogen	lb											20.0000	0.38	7.60	7.60
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	1.68	2.41	1.46	2.65	0.18	1.97				10.17
Rice Clearfield 161	lb											75.0000	0.90	67.50	67.50
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	1.88	2.70	0.19	0.14	0.10	1.25				6.16
Ditcher		MFWD 150	0.020	1.00	Apr	0.36	0.51	0.05	0.06	0.02	0.24				1.22
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	0.44	0.64	0.13	0.17	0.02	0.30				1.68
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Newpath 2SL	oz											4.0000	3.43	13.72	13.72
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Newpath 2SL	oz											4.0000	3.43	13.72	13.72
Aim 2EC	oz											1.6000	5.00	8.00	8.00
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	May							2.0000	7.50	15.00	15.00
LA Nitrogen	lb											90.0000	0.38	34.20	34.20
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	Jun							1.3000	7.50	9.75	9.75
LA Nitrogen	lb											60.0000	0.38	22.80	22.80
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Quadris	oz											10.0000	0.94	9.40	9.40
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jul							1.0000	7.00	7.00	7.00
Karate Z	oz											2.0000	1.00	2.00	2.00
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
LA Rice Combine	25 ft		0.300	1.00	Aug	19.00	21.18			0.33	5.05				45.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.20	0.29	0.08	0.14	0.01	0.14				0.85
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
Digital Ag Fee	acre			1.00	Aug							1.0000	8.50	8.50	8.50
Irrigation System 5	acre				Mar			51.53	12.54	0.43	5.15	1.0000			69.22
TOTALS						34.71	44.93	57.63	25.13	1.61	19.99			353.93	536.32
INTEREST ON OPERATING CAPITAL															5.82
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															542.14

Table 8.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Northeast Louisiana, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	59.2	115	146	176	207	238	268	299	330	360
85%	62.9	150	183	216	249	282	315	348	381	414
90%	66.6	186	221	256	291	326	362	397	432	467
95%	70.3	221	259	296	333	371	408	445	483	520
100%	74.0	257	297	336	376	415	455	494	534	573
105%	77.7	292	334	376	418	460	501	543	585	627
110%	81.4	328	372	416	460	504	548	592	636	680
115%	85.1	364	410	456	502	548	595	641	687	733
120%	88.8	399	447	496	544	593	641	690	738	787

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	59.2	45	76	106	137	168	198	229	260	290
85%	62.9	80	113	146	179	212	245	278	311	344
90%	66.6	116	151	186	221	256	291	327	362	397
95%	70.3	151	189	226	263	301	338	375	413	450
100%	74.0	187	226	266	306	345	385	424	464	503
105%	77.7	222	264	306	348	390	431	473	515	557
110%	81.4	258	302	346	390	434	478	522	566	610
115%	85.1	293	340	386	432	478	525	571	617	663
120%	88.8	329	377	426	474	523	571	620	668	717

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	59.2	17	38	60	81	103	124	146	167	189
85%	62.9	42	65	88	111	134	157	180	203	226
90%	66.6	67	91	116	140	165	190	214	239	263
95%	70.3	92	118	144	170	196	222	248	275	301
100%	74.0	116	144	172	200	227	255	283	310	338
105%	77.7	141	171	200	229	258	288	317	346	375
110%	81.4	166	197	228	259	289	320	351	382	413
115%	85.1	191	223	256	288	320	353	385	418	450
120%	88.8	216	250	284	318	352	385	419	453	487

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, 2021.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield	Rice Market Price ($/cwt)								
Percent	(cwt.)	$9.60	$10.20	$10.80	$11.40	$12.00	$12.60	$13.20	$13.80	$14.40
		($/acre)								
80%	59.2	-41	-19	2	24	45	67	88	110	131
85%	62.9	-16	7	30	53	76	99	123	146	169
90%	66.6	9	34	58	83	108	132	157	181	206
95%	70.3	34	60	86	112	139	165	191	217	243
100%	74.0	59	87	114	142	170	197	225	253	280
105%	77.7	84	113	142	172	201	230	259	289	318
110%	81.4	109	139	170	201	232	263	293	324	355
115%	85.1	134	166	198	231	263	295	328	360	392
120%	88.8	158	192	226	260	294	328	362	396	430

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.

Appendix Table 1. Rice Irrigation System 1 Costs, Water Planted, Southwest Louisiana, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Underground Pipe 1	each								9.90	9.90
Gearhead 1	each								1.97	1.97
Engine 1	each								7.52	7.52
Application 1	Ac-in		9.09	0.60	0.41		0.34	10.44		10.44
Application 2	Ac-in		9.09	0.60	0.41		0.30	10.40		10.40
Application 3	Ac-in		11.36	0.75	0.51		0.34	12.96		12.96
Application 4	Ac-in		13.63	0.90	0.61		0.35	15.49		15.49
Application 5	Ac-in		13.63	0.90	0.61		0.30	15.44		15.44
Well 1	each								6.35	6.35
Pump 1	each								6.22	6.22
TOTALS		0.00	56.80	3.75	2.55	0.00	1.63	64.73	31.96	96.69

Note: Total irrigation application of 25 acre-inches.

Appendix Table 2. Rice Irrigation System 2 Costs, Drill Planted, Southwest Louisiana, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Pump 2	each								6.22	6.22
Gearhead 2	each								1.97	1.97
Engine 2	each								7.52	7.52
Application 1	Ac-in		6.82	0.40	0.27		0.25	7.74		7.74
Application 2	Ac-in		6.82	0.40	0.27		0.25	7.74		7.74
Application 3	Ac-in		11.36	0.67	0.45		0.37	12.85		12.85
Application 4	Ac-in		11.36	0.67	0.45		0.33	12.81		12.81
Application 5	Ac-in		13.63	0.80	0.55		0.35	15.33		15.33
Application 6	Ac-in		11.36	0.67	0.45		0.25	12.73		12.73
Well 2	each								6.35	6.35
Underground Pipe 2	each								9.90	9.90
TOTALS		0.00	61.35	3.61	2.44	0.00	1.80	69.20	31.96	101.16

Note: Total irrigation application of 28 acre-inches.

Appendix Table 3. Rice Irrigation System 3 Costs, Ratoon Crop, Southwest Louisiana, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Engine 1a	each									
Application 1	Ac-in		15.91		0.71		0.28	16.90		16.90
Application 2	Ac-in		6.82		0.31		0.10	7.23		7.23
TOTALS		0.00	22.73	0.00	1.02	0.00	0.38	24.13	0.00	24.13

Note: Total irrigation application of 10 acre-inches.

Appendix Table 4. Rice Irrigation System 5 Costs, Drill Planted, Northeast Louisiana, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Engine 3	each								3.82	3.82
Application 1	Ac-in		4.78	0.21	0.50		0.16	5.65		5.65
Application 2	Ac-in		4.78	0.21	0.50		0.16	5.65		5.65
Application 3	Ac-in		7.96	0.35	0.83		0.24	9.38		9.38
Application 4	Ac-in		7.96	0.35	0.83		0.21	9.35		9.35
Application 5	Ac-in		15.92	0.70	1.66		0.37	18.65		18.65
Application 6	Ac-in		7.96	0.35	0.83		0.15	9.29		9.29
Pump 3	each								3.28	3.28
Underground Pipe 3	each								2.28	2.28
Well 3	each								2.12	2.12
Gearhead 3	each								1.04	1.04
TOTALS		0.00	49.36	2.17	5.15	0.00	1.29	57.97	12.54	70.51

Note: Total irrigation application of 31 acre-inches

Appendix Table 5. Operating Inputs: Estimated Prices for 2021.

ITEM NAME	UNIT	PRICE
		dollars
CUSTOM FERT/LIME		
App Fert by Air	cwt	7.50
App Fert by Air(Min)	appl	7.50
Custom Apply Fert	acre	7.50
Custom Spread(Truc	appl	4.50
Lime (Spread)	ton	47.45
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	7.50
CUSTOM SPRAY		
App 2,4-D Helicopter	appl	0.00
App by Air (1 gal)	appl	2.50
App by Air (2 gal)	appl	4.00
App by Air (3 gal)	appl	5.50
App by Air (5 gal)	appl	7.00
App by Air (10 gal)	appl	9.00
App Furadan by Air	appl	0.00
App Ordram by Air	appl	0.00
Custom Apply	acre	7.50
Custom Terragator	acre	5.00
LARice GPS Charge-SW	acre	0.35
LARice GPS Charge_NE	acre	0.25
Spray Levees, 4whlr	acre	0.00
FERTILIZERS		
Amm Nitrate (34% N)	cwt	22.50
Amm Sulfate (21% N)	cwt	18.66
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
DAP	cwt	20.99
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	24.08
Fert 10-34-0	gal	2.80
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	18.22
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.38
LA Phosphate	lb	0.39
LA Potash	lb	0.28
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	12.03
UAN + Sulfur (28% N)	cwt	14.49
Urea, Solid (46% N)	cwt	19.74
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.90
Apron XL	oz	6.98
Apron XL LS	oz	5.27
Benlate 50 WP	lb	15.95
Captan 4L	pt	2.83
Captan 50 WP	lb	5.94
Cruiser 5FS	oz	0.90
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81
Dithane Rainsheild	lb	4.08
Fungicide	lb	2.82
Gem 25 WG	oz	3.70
Manzate 75 DF	lb	4.86
Manzate Flowable	pt	4.60

Appendix Table 5. Operating Inputs: Estimated Prices for 2021.

ITEM NAME	UNIT	PRICE
		dollars
FUNGICIDES CONT'D		
Moncut 70 DF	lb	32.81
Orbit	oz	2.75
Prevail	lb	28.50
Quadris	oz	0.94
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	77.60
Terrachlor Flowable	pt	4.74
Terraclor 2EC	pt	1.87
Terraclor Super X EC	pt	3.95
Terraclor Super X G	lb	2.82
Tilt 3.6 EC	oz	0.76
Vitavax 200	oz	0.47
Vitavax M Flowable	oz	1.06
Vitavax RTU-Thiram	oz	0.40
Vitavax T-L	oz	0.29
GIN/DRY		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Rice	bu	0.40
Dry Rice (cwt)	cwt	0.90
Gin	lb	0.11
LARice Dry	cwt	0.90
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
LA Polado	oz	0.19
Mepex	oz	0.06
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.21
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	3.84
CottonQuik	pt	6.06
Crop Oil (Seed Oil)	pt	4.60
Def 6	pt	7.68
Def/Folex	pt	7.68
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.70
Ethephon 6E	pt	4.00
Finish 6	pt	8.00
Folex 6EC	pt	10.21
Ginstar EC	pt	26.68
Gramoxone Extra	pt	3.00
Gramoxone Max	pt	3.00
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.84
Sodium Chlorate 3L	gal	3.50
Solium Chlorate 6L	gal	6.77
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.85
2,4-D Ester	pt	2.68
AAtrex 4L	pt	2.23
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.00
Aim DF	oz	9.65
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	3.59
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74

Appendix Table 5. Operating Inputs: Estimated Prices for 2021.

ITEM NAME	UNIT	PRICE
		dollars
HERBICIDES CONT'D		
Backdraft	pt	2.40
Banvel	pt	6.67
Basagran	pt	5.43
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	11.07
Buctril 4EC	pt	17.06
Butoxone 175(2,4-DB)	pt	3.24
Butoxone 200(2,4-DB)	pt	3.92
Butyrac 175 (2,4-DB)	pt	3.29
Butyrac 200 (2,4-DB)	pt	3.64
Canopy 75%	oz	2.74
Canopy XL	oz	2.32
Caparol 4L	pt	4.67
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	10.73
Classic	oz	16.86
Clincher EC	oz	1.95
Cobra 2EC	oz	1.70
Command 3ME	pt	18.56
Command XTRA	pt	0.00
Conclude Ultra	pt	0.00
Conclude Ultra	pt	0.00
Conclude XACT	pt	11.32
Conclude XTRA	pt	8.32
Cornerstone	pt	2.50
Cotoran 4L	pt	5.46
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.75
Crossbow	pt	8.05
Cy-Pro 4L	qt	0.00
Cypro 90DF	lb	0.00
Delta Goal	pt	9.44
Denim 0.16 EC	pt	24.06
Detail	pt	7.99
Direx 4L	pt	3.02
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.03
Diuron 80 DF	lb	5.09
Domain 60DF	lb	12.75
DSMA 4	pt	0.90
Dual 8E	pt	0.00
Dual II Magnum	pt	14.56
Dual Magnum	pt	13.33
Duet	pt	5.63
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.39
Facet 75DF	lb	50.00
First Rate	oz	42.57
Flexstar HL	pt	4.64
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63
Fultime	pt	6.29
Fusilade DX	oz	1.15
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	2.08

Appendix Table 5. Operating Inputs: Estimated Prices for 2021.

ITEM NAME	UNIT	PRICE
		dollars
HERBICIDES CONT'D		
Glystar Plus	pt	2.17
Goal 2XL	pt	7.52
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	12.05
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	42.00
LA Weedmaster	qt	5.76
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	12.80
Lexone 75DF	lb	18.90
Liberty	pt	8.84
Lightning	oz	14.25
Lightning	oz	14.25
Linex 4L	pt	9.28
Londax 60DF	oz	18.08
Lorox 50DF	lb	24.12
Matador	pt	0.00
MSMA 6.6	pt	3.86
MSMA6 + Surfactant	pt	3.86
Newpath 2SL	oz	3.43
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.66
Pendimax 3.3	pt	2.47
Permit 75DF	oz	15.00
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	5.76
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.10
Raptor	oz	4.38
Reflex 2LC	pt	6.20
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	29.40
Ricestar	pt	24.49
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	3.04
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.19
Scepter 70 DG	oz	4.82
Select 2EC	oz	0.71
Sencor 4F	pt	14.74
Sencor DF	lb	14.25
Squadron CE	pt	12.50
Stam 4E	qt	7.72
Stam 80 EDF	lb	9.45
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	11.91
Strongarm	oz	56.42
Superwham	qt	8.61
Suprend	lb	13.52
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	10.21
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	10.21

Appendix Table 5. Operating Inputs: Estimated Prices for 2021.

ITEM NAME	UNIT	PRICE
		dollars
HERBICIDES CONT'D		
Treflan HFP	pt	2.88
Treflan TR-10	lb	1.10
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.68
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	5.83
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	6.42
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.85
Asana .66 XL	oz	0.55
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.58
Besiege	oz	1.95
Bidrin 8L	oz	1.33
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	4.75
Comite	pt	8.45
Condor XL	pt	0.00
Confirm 2F	oz	1.86
Counter 15G	lb	4.51
Counter CR	lb	2.65
Crop Oil (Petroleum)	pt	2.86
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	5.44
Dimilin 2L	oz	2.16
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	7.28
Furadan 3G	lb	0.00
Furadan 4F	pt	9.81
Fury 1.5 EC	oz	1.30
Gaucho 480	oz	5.80
Intrepid 2F	oz	1.80
Intruder 70WP	oz	1.13
Karate Z	oz	1.00
Lannate LV	pt	9.00
Lannate SP	oz	2.42
Larvin 3.2	oz	0.63
Leverage 2.7	oz	2.17
Lorsban 15G	lb	2.35
Lorsban 4E	pt	6.10
Malathion 57EC	pt	4.23
Malathion 8E	pt	10.56
Malathion ULV	pt	4.93
Mepichlor 4.2% Liq	pt	5.91
Methyl Parathion	pt	5.79
Monitor 4	pt	16.50
Monitor 4	pt	16.50
Mustang Max	oz	1.50
Organophosphate	oz	0.00
Orthene 90S	lb	6.00
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00
Penncap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	16.50
Pounce 3.2 EC	oz	0.34
Prevathon	oz	1.05

Appendix Table 5. Operating Inputs: Estimated Prices for 2021.

ITEM NAME	UNIT	PRICE
		dollars
INSECTICIDES CONT'D		
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	12.16
Spintor 2SC	oz	4.93
Steward	pt	39.51
Synthetic Pyrethroid	oz	0.00
Temik 15G Grit	lb	4.00
Thimet 20-G	lb	3.65
Thionex 3EC	pt	4.17
Thionex 50W	lb	10.45
Tracer	oz	9.73
Trimax	oz	1.85
Vydate C-LV	oz	0.93
Warrior Z	oz	1.80
Warrior ZT	oz	2.57
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.24
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LARice Insurance	Dollar	1.00
LARice Misc. Overhd	dollar	1.00
LARice Property Tax	dollar	1.00
Shops Bldg & Equip.	Dol	6.55
SERVICE FEE		
Utilities	Dol	1.00
SEED/PLANTS		
Corn Seed Bt	thous	2.60
Corn Seed BtRR	thous	4.38
Corn Seed Conv.	thous	2.76
Corn Seed RR	thous	3.38
Cotton Seed Bt	thoud	0.28
Cotton Seed BtRR	thous	3.15
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
LA Hybrid Rice Seed	acre	172.50
Rice Clearfield 161	lb	0.90
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.43
Rice Seed CF(Levees)	lb	0.90
Rice Seed Conv.	lb	0.32
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	2.64
Sorghum NonConcept	lb	1.18
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	0.84
Wheat Seed Private	lb	0.28
Wheat Seed Public	lb	0.00
SERVICE FEE		
Crop Consultant	acre	7.00
Digital Ag Fee	acre	8.50
Insect Scouting	acre	7.00
Rice Consultant	acre	8.00
SC Treating Charge	acre	0.00
Surfactant	pt	3.30
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

Appendix Table 5. Operating Inputs: Estimated Prices for 2021.

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

Appendix Table 6. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2021.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	----------------$/hour----------------					
Combine (170-199 hp)	190hp	0	300	8	9.78	15.30	16.91	0.00	32.21	0.00	32.21
Combine (200-249 hp)	240hp	161,548	300	8	12.35	15.30	21.36	16.82	53.49	63.43	116.92
Combine (225-274 hp)	Track250hp	0	300	8	12.87	15.30	22.26	0.00	37.56	0.00	37.56
Combine (250-299 hp)	275hp	352,000	300	8	14.15	15.30	24.47	36.66	76.44	138.21	214.65
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	15.30	26.26	22.73	64.29	85.68	149.97
Combine (275-299 hp)	Track290hp	0	300	8	14.93	15.30	25.82	0.00	41.12	0.00	41.12
Combine (300-349 hp)	325hp	383,000	300	8	16.73	15.30	28.94	39.89	84.13	150.38	234.52
Combine (300-349hp)	Track320hp	0	300	8	16.47	15.30	28.49	0.00	43.79	0.00	43.79
Combine (350-379 hp)	370hp	390,000	300	8	19.04	15.30	32.93	40.62	88.86	153.13	241.99
Combine (350-379 hp)	Track365hp	0	300	8	18.79	15.30	32.50	0.00	47.80	0.00	47.80
Cotton Stripper	173hp	170,000	200	8	8.08	15.30	13.97	26.56	55.84	100.12	155.96
SC Tractor 93 MDR	93	46,683	600	10	4.79	11.83	8.28	2.72	22.83	7.40	30.24
SC Tractpr 68 MDR	68	27,049	600	10	3.50	11.83	6.05	1.57	19.46	4.29	23.75
test-mes		0	0	0	0.00	15.30	0.00	0.00	0.00	0.00	0.00
Tractor(40-59hp)Cab	2WD 50	30,900	600	8	2.57	11.83	4.45	0.96	17.24	5.51	22.76
Tractor(40-59hp)Cab	MFWD 50	41,400	600	8	2.57	11.83	4.45	1.29	17.57	7.38	24.96
Tractor(40-59hp)RB	2WD 50	30,900	600	8	2.57	11.83	4.45	0.96	17.24	5.51	22.76
Tractor(40-59hp)RB	MFWD 50	41,400	600	8	2.57	11.83	4.45	1.29	17.57	7.38	24.96
Tractor(60-89hp)CAB	2WD 75	53,200	600	8	3.86	11.83	6.67	1.66	20.17	9.49	29.66
Tractor(60-89hp)CAB	MFWD 75	57,600	600	8	3.86	11.83	6.67	1.80	20.30	10.27	30.58
Tractor(60-89hp)RB	2WD 75	38,400	600	8	3.86	11.83	6.67	1.20	19.70	6.85	26.55
Tractor(60-89hp)RB	MFWD 75	41,800	600	8	3.86	11.83	6.67	1.30	19.81	7.45	27.27
Tractor(90-119hp)CB	2WD 105	71,200	600	8	5.40	11.83	9.34	2.22	23.40	12.70	36.10
Tractor(90-119hp)CB	MFWD 105	91,700	600	8	5.40	11.83	9.34	2.86	24.04	16.35	40.40
Tractor(90-119hp)RB	2WD 105	64,600	600	8	5.40	11.83	9.34	2.01	23.19	11.52	34.72
Tractor(90-119hp)RB	MFWD 105	71,900	600	8	5.40	11.83	9.34	2.24	23.42	12.82	36.25
Tractor(120-139hp)CB	2WD 130	113,000	600	8	6.69	11.83	11.57	3.53	26.93	20.15	47.09
Tractor(120-139hp)CB	MFWD 130	126,000	600	8	6.69	11.83	11.57	3.93	27.34	22.47	49.82
Tractor(140-159hp)CB	2WD 150	111,000	600	8	7.72	11.83	13.35	3.46	28.65	19.80	48.45
Tractor(140-159hp)CB	MFWD 150	143,000	600	8	7.72	11.83	13.35	4.46	29.65	25.51	55.16
Tractor(160-179hp)CB	2WD 170	160,000	600	8	8.75	11.83	15.13	5.00	31.96	29.97	61.94
Tractor(160-179hp)CB	MFWD 170	160,000	600	8	8.75	11.83	15.13	5.00	31.96	29.97	61.94
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	11.83	16.02	4.45	32.31	26.73	59.05
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	11.83	16.91	4.46	33.21	26.79	60.01
Tractor(180-199hp)CB	MFWD 190	189,000	600	8	9.77	11.83	16.91	5.90	34.65	35.41	70.06
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	11.83	20.03	4.59	36.46	27.55	64.01
Tractor(200-249hp)CB	MFWD 225	233,000	600	8	11.58	11.83	20.03	7.28	39.14	43.65	82.80
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	11.83	20.03	8.65	40.52	51.89	92.42
Tractor(250-349hp)CB	4WD 300	298,000	600	8	15.44	11.83	26.71	9.31	47.85	55.83	103.69
Tractor(250-349hp)CB	Track 300	329,000	600	8	15.44	11.83	26.71	10.28	48.82	61.64	110.46
Tractor(350-449hp)CB	4WD 400	366,000	600	8	20.58	11.83	35.61	11.43	58.88	68.57	127.46
Tractor(350-449hp)CB	Track 400	453,000	600	8	20.58	11.83	35.61	14.15	61.60	84.87	146.48
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	11.83	42.29	8.74	62.87	52.43	115.31

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 2021.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	----------------$/acre					---------------
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	3.06	0.50	0.43	3.99	1.96	5.96
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	12.65	7.26	11.76	31.68	44.35	76.04
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	4.19	3.97	8.54	16.71	32.21	48.92
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.97	7.28	13.40	28.66	50.51	79.18
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.97	10.20	17.90	36.07	67.48	103.56
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	6.27	5.85	10.79	22.92	40.68	63.61
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	6.27	8.03	14.13	28.44	53.29	81.73
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	6.37	5.82	11.66	23.86	43.96	67.83
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	5.04	4.61	9.21	18.87	34.73	53.60
Cotton Picker-1st-BB	6R30"325hp	465,000	200	8	18.27	0.218	5.31	6.89	15.85	28.07	59.77	87.84
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	4.19	5.44	12.51	22.16	47.19	69.35
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	12.65	7.26	11.76	31.68	44.35	76.04
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	4.19	5.37	8.67	18.24	32.69	50.93
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.97	7.28	13.39	28.65	50.48	79.14
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.97	9.47	15.91	33.36	59.98	93.34
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	6.27	5.85	10.79	22.92	40.68	63.61
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	6.27	8.03	14.13	28.44	53.29	81.73
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	6.37	5.94	11.67	24.00	44.00	68.01
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	5.04	4.61	9.40	19.06	35.44	54.51
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	5.31	6.31	15.85	27.49	59.77	87.26
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	4.19	5.36	12.51	22.08	47.19	69.27
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	10.72	6.15	9.96	26.84	37.56	64.41
Cotton Picker-2nd-BB	4R2x1260hp	322,187	200	8	18.01	0.145	3.55	4.54	7.34	15.45	27.69	43.14
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.75	6.17	11.34	24.27	42.76	67.03
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.75	8.02	13.47	28.26	50.80	79.07
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	5.31	4.95	9.14	19.42	34.46	53.88
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	5.31	6.80	11.97	24.09	45.13	69.23
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	5.40	5.03	9.88	20.33	37.27	57.61
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	4.27	3.90	7.80	15.98	29.41	45.40
Cotton Picker-2nd-BB	6R30"325hp	465,000	200	8	18.01	0.184	4.50	5.76	13.43	23.69	50.63	74.32
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.55	4.54	10.60	18.70	39.97	58.67
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	10.72	6.15	9.96	26.84	37.56	64.41
Cotton Picker-2nd-Tr	4R2X1260hp	322,137	200	8	18.01	0.145	3.55	4.54	7.34	15.45	27.69	43.14
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.75	6.17	11.34	24.27	42.76	67.03
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.75	8.02	13.47	28.26	50.80	79.07
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	5.31	4.95	9.14	19.42	34.46	53.88
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	5.31	6.80	11.97	24.09	45.13	69.23
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	5.40	5.03	9.88	20.33	37.27	57.61
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	4.27	3.90	7.96	16.14	30.02	46.17
Cotton Picker-2nd-Tr	6R30"325hp	465,000	200	8	16.72	0.184	4.50	5.35	13.43	23.28	50.63	73.91
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.55	4.54	10.60	18.70	39.97	58.67
LA Pickup Truck	1/2 ton	28,000	800	5	2.50	1.000	11.83	6.25	3.15	21.23	7.27	28.50
LA Rice Combine	25 ft	181,500	300	10	8.60	0.300	5.05	4.46	14.53	24.05	21.18	45.23
LA Rice Combine-2	25 ft	181,500	300	10	8.60	0.300	5.05	4.46	14.53	24.05	21.18	45.23
LARice Combine Med	20 ft	165,000	300	10	7.10	0.210	3.53	2.58	9.24	15.35	13.47	28.83
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.75	0.17	0.06	0.99	0.39	1.39
SC Billet Harvester	6 ft	319,000	750	10	12.00	0.700	11.78	14.53	29.77	56.08	34.22	90.31
SC Harvester 1Rw	6 ft	126,500	400	12	6.80	0.875	14.72	10.29	23.05	48.07	28.09	76.17
SC Harvester 2Rw	12 ft	231,000	400	12	8.00	0.388	6.53	5.36	18.67	30.57	22.75	53.32
SC Loader 1Rw	6 ft	93,500	425	10	5.10	0.598	7.79	5.28	9.61	22.69	15.36	38.05
SC Loader 2Rw	12 ft	165,000	425	10	7.00	0.300	3.90	3.63	8.51	16.05	13.59	29.64
SC Transloader		33,000	120	12	4.70	0.250	3.25	2.03	4.12	9.41	6.98	16.39
SC Truck&Trailer	30 Ton	49,500	400	10	7.00	1.000	13.01	12.11	8.66	33.78	14.42	48.21
Sprayer(300-450Gal)	47'	0	350	8	5.40	0.022	0.44	0.21	0.00	0.65	0.00	0.65
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.34	0.17	0.09	0.61	0.61	1.23
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.26	0.12	0.07	0.46	0.45	0.92
Sprayer(600-750Gal)	60'	216,000	350	8	10.29	0.017	0.34	0.31	0.20	0.86	1.28	2.14
Sprayer(600-825Gal)	80'	225,000	350	8	10.29	0.013	0.26	0.23	0.15	0.65	1.00	1.65
Sprayer(600-825Gal)	90'	322,000	350	8	10.29	0.011	0.23	0.20	0.20	0.64	1.27	1.91
Sprayer(1000-1400Gal	90'	322,000	350	8	14.15	0.014	0.27	0.34	0.24	0.86	1.52	2.39
Sprayer(1200PlusGal)	120'	392,000	350	8	15.44	0.008	0.17	0.23	0.18	0.59	1.16	1.75

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	---------------------$/acre--------------------							
Blade-Box	6'	2WD 130	1,470	200	20	0.020	0.23	0.23	0.01	0.07	0.55	0.01	0.40	0.96
Blade-Box	10'	2WD 50	3,830	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	14'	2WD 50	6,190	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'	2WD 50	1,270	200	20	1.176	13.91	5.23	0.70	1.13	21.00	0.52	6.48	28.01
Blade-Scraper	10'	2WD 50	3,870	200	20	1.176	13.91	5.23	2.16	1.13	22.45	1.60	6.48	30.54
Blade-Scraper	14'	2WD 50	9,810	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy-1st Pick	2R38"157hp	MFWD 190	30,500	200	10	0.519	6.14	8.79	3.96	3.06	21.97	7.60	18.40	47.98
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	2.03	2.91	1.31	1.01	7.28	2.52	6.10	15.91
Boll Buggy-1st pick	4R30"255hp	MFWD 190	30,500	200	10	0.327	3.87	5.53	2.49	1.93	13.84	4.79	11.59	30.22
Boll Buggy-1st pick	4R30"325hp	MFWD 190	30,500	200	10	0.327	3.87	5.53	2.49	1.93	13.84	4.79	11.59	30.22
Boll Buggy-1st pick	4R38"255hp	MFWD 190	30,500	200	10	0.257	3.04	4.36	1.96	1.52	10.89	3.77	9.12	23.80
Boll Buggy-1st pick	4R38"325hp	MFWD 190	30,500	200	10	0.257	3.04	4.36	1.96	1.52	10.89	3.77	9.12	23.80
Boll Buggy-1st pick	5R30"255hp	MFWD 190	30,500	200	10	0.261	3.09	4.43	1.99	1.54	11.07	3.83	9.27	24.18
Boll Buggy-1st pick	5R38"255hp	MFWD 190	30,500	200	10	0.207	2.45	3.50	1.57	1.22	8.76	3.03	7.33	19.13
Boll Buggy-1st pick	6R30"325hp	MFWD 190	30,500	200	10	0.218	2.58	3.69	1.66	1.28	9.22	3.19	7.72	20.15
Boll Buggy-1st pick	6R38"325hp	MFWD 190	30,500	200	10	0.172	2.03	2.91	1.31	1.01	7.28	2.52	6.10	15.91
Boll Buggy-2nd pick	2R38"157hp	MFWD 190	30,500	200	10	0.440	5.20	7.44	3.35	2.59	18.61	6.44	15.58	40.64
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.72	2.46	1.11	0.86	6.17	2.13	5.16	13.47
Boll Buggy-2nd pick	4R30"255hp	MFWD 190	30,500	200	10	0.277	3.28	4.69	2.11	1.63	11.72	4.06	9.81	25.60
Boll Buggy-2nd pick	4R30"325hp	MFWD 190	30,500	200	10	0.277	3.28	4.69	2.11	1.63	11.72	4.06	9.81	25.60
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.58	3.69	1.66	1.28	9.23	3.19	7.73	20.16
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.58	3.69	1.66	1.28	9.23	3.19	7.73	20.16
Boll Buggy-2nd pick	5R30"255hp	MFWD 190	30,500	200	10	0.221	2.62	3.75	1.69	1.31	9.37	3.24	7.85	20.48
Boll Buggy-2nd pick	5R38"255hp	MFWD 190	30,500	200	10	0.175	2.07	2.96	1.33	1.03	7.42	2.56	6.21	16.20
Boll Buggy-2nd pick	6R30"325hp	MFWD 190	30,500	200	10	0.184	2.18	3.12	1.40	1.09	7.81	2.70	6.54	17.06
Boll Buggy-2nd pick	6R38"325hp	MFWD 190	30,500	200	10	0.145	1.72	2.46	1.11	0.86	6.17	2.13	5.16	13.47
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.97	3.36	1.92	1.12	9.38	3.68	6.42	19.50
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.42	2.73	1.56	0.91	7.62	2.99	5.21	15.84
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	2.03	2.30	1.31	0.77	6.42	2.52	4.39	13.34
Boll Buggy-Stripper	4R30"2X1Br	MFWD 150	30,500	200	10	0.218	2.58	2.91	1.66	0.97	8.13	3.19	5.56	16.89
Boll Buggy-Stripper	4R30"Brush	MFWD 150	30,500	200	10	0.327	3.87	4.37	2.49	1.46	12.20	4.79	8.35	25.35
Boll Buggy-Stripper	4R38"2X1Br	MFWD 150	30,500	200	10	0.172	2.03	2.30	1.31	0.77	6.42	2.52	4.39	13.34
Boll Buggy-Stripper	4R38"Brush	MFWD 150	30,500	200	10	0.257	3.04	3.44	1.96	1.15	9.61	3.77	6.57	19.96
Boll Buggy-Stripper	5R30"Brush	MFWD 150	30,500	200	10	0.261	3.09	3.49	1.99	1.17	9.76	3.83	6.68	20.27
Boll Buggy-Stripper	5R38"Brush	MFWD 150	30,500	200	10	0.207	2.45	2.76	1.57	0.92	7.72	3.03	5.28	16.04
Boll Buggy-Stripper	6R30"Brush	MFWD 150	30,500	200	10	0.218	2.58	2.91	1.66	0.97	8.13	3.19	5.56	16.89
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.36	1.33	0.93	0.40	4.05	1.53	2.32	7.91
Chisel Plow(Folding)	24'	MFWD 190	43,500	150	12	0.076	0.90	1.29	1.20	0.45	3.85	1.96	2.70	8.51
Chisel Plow(Folding)	32'	MFWD 225	54,500	150	12	0.057	0.68	1.15	1.13	0.42	3.39	1.85	2.52	7.77
Chisel Plow(Folding)	42'	MFWD 225	65,700	150	12	0.044	0.52	0.88	1.04	0.32	2.76	1.70	1.92	6.39
Chisel Plow(Rigid)	15'	2WD 130	13,200	150	12	0.123	1.45	1.42	0.58	0.43	3.90	0.95	2.48	7.35
Chisel Plow(Rigid)	24'	MFWD 190	13,400	150	12	0.077	0.91	1.30	0.37	0.45	3.04	0.60	2.72	6.37
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	1.04	1.48	0.21	0.39	3.13	0.35	2.35	5.84
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.81	1.37	0.34	0.49	3.02	0.56	2.98	6.58
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	1.04	1.48	0.61	0.39	3.53	0.99	2.35	6.89
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.81	1.37	0.59	0.49	3.27	0.96	2.98	7.23
Corn Grain Cart 8R30	500 bu	MFWD 190	27,300	200	12	0.031	0.37	0.54	0.23	0.18	1.34	0.38	1.13	2.85
Corn Grain Cart 8R40	700bu	MFWD 190	44,000	200	12	0.025	0.29	0.42	0.29	0.14	1.16	0.48	0.88	2.53
Cult & Post	4R-38	2WD 105	21,600	150	10	0.173	2.83	1.61	0.99	0.34	5.80	2.49	1.99	10.29
Cult & Post	6R-30	MFWD 150	25,900	150	10	0.146	2.39	1.95	1.01	0.65	6.02	2.53	3.74	12.30
Cult & Post	6R-38	MFWD 150	26,600	150	10	0.115	1.89	1.54	0.82	0.51	4.77	2.05	2.95	9.78
Cult & Post	8R-30	MFWD 190	31,200	150	10	0.110	1.79	1.86	0.91	0.64	5.22	2.29	3.89	11.41
Cult & Post	8R-38	MFWD 190	35,800	150	10	0.086	1.42	1.47	0.83	0.51	4.23	2.07	3.07	9.39
Cult & Post	8R-38 2x1	MFWD 190	45,400	150	10	0.057	0.94	0.97	0.70	0.34	2.96	1.75	2.05	6.77
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.43	1.76	0.75	0.64	4.59	1.87	3.84	10.31
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	1.06	1.30	0.00	0.47	2.84	0.00	2.84	5.68
Cult & Post	12R-30	MFWD 225	49,800	150	10	0.073	1.19	1.46	0.97	0.53	4.17	2.43	3.20	9.81
Cult & Post	12R-38	MFWD 225	54,000	150	10	0.057	0.94	1.15	0.83	0.42	3.36	2.08	2.52	7.97
Cultipacker	12'	2WD 130	6,720	300	12	0.124	1.47	1.44	0.19	0.43	3.54	0.25	2.50	6.31
Cultipacker	20'	MFWD 150	10,900	300	12	0.074	0.88	0.99	0.19	0.33	2.40	0.24	1.90	4.55
Cultivate	4R-38	2WD 105	14,200	150	10	0.162	1.92	1.51	0.61	0.32	4.38	1.53	1.87	7.79
Cultivate	6R-30	MFWD 150	18,500	150	10	0.137	1.62	1.83	0.67	0.61	4.75	1.69	3.50	9.96
Cultivate	6R-38	MFWD 150	19,300	150	10	0.108	1.28	1.44	0.55	0.48	3.77	1.39	2.76	7.94
Cultivate	8R-30	MFWD 190	23,800	150	10	0.103	1.22	1.74	0.65	0.60	4.22	1.63	3.65	9.51
Cultivate	8R-38	MFWD 190	28,400	150	10	0.081	0.96	1.37	0.61	0.48	3.44	1.54	2.88	7.87
Cultivate	8R-38 2x1	MFWD 190	35,200	150	10	0.054	0.64	0.91	0.50	0.32	2.39	1.27	1.92	5.58
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.97	1.65	0.62	0.60	3.85	1.55	3.60	9.00
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.76	1.30	0.00	0.47	2.54	0.00	2.84	5.38
Cultivate	12R-30	MFWD 225	42,500	150	10	0.068	0.81	1.37	0.77	0.50	3.47	1.95	3.00	8.42
Cultivate	12R-38	MFWD 225	43,800	150	10	0.054	0.64	1.08	0.63	0.39	2.75	1.58	2.36	6.71
Disk & Incorporate	14'	2WD 130	33,700	200	10	0.149	2.44	1.73	1.51	0.52	6.22	2.52	3.01	11.76
Disk & Incorporate	24'	MFWD 190	53,600	200	10	0.087	1.42	1.47	1.40	0.51	4.82	2.34	3.09	10.25
Disk & Incorporate	32'	4WD 225	68,700	200	10	0.068	1.12	1.37	1.41	0.31	4.23	2.36	1.89	8.49
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.80	0.98	0.44	0.35	2.59	0.75	2.14	5.48
Disk Bed (Hipper)	4R-38	MFWD 150	10,500	160	10	0.147	1.74	1.97	0.38	0.65	4.76	0.97	3.76	9.50
Disk Bed (Hipper)	6R-30	MFWD 170	16,200	160	10	0.125	1.47	1.89	0.50	0.62	4.50	1.26	3.74	9.51
Disk Bed (Hipper)	6R-38	MFWD 170	16,200	160	10	0.098	1.16	1.49	0.39	0.49	3.55	1.00	2.95	7.51
Disk Bed (Hipper)	8R-30	MFWD 190	20,800	160	10	0.093	1.10	1.58	0.48	0.55	3.73	1.22	3.31	8.27
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	51,400	160	10	0.049	0.58	0.83	0.63	0.29	2.34	1.58	1.74	5.67
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.88	1.50	0.37	0.54	3.30	0.93	3.27	7.51
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.69	1.18	0.34	0.43	2.65	0.85	2.58	6.09
Disk Bed (Hipper)	12R-30	MFWD 225	40,100	160	10	0.062	0.73	1.25	0.62	0.45	3.07	1.56	2.72	7.37

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------------------$/acre							--------------------
Disk Bed (Hipper)	12R-38	MFWD 225	51,400	160	10	0.049	0.58	0.98	0.63	0.35	2.56	1.58	2.15	6.30
Disk Bed (Hipper)Fld	8R-38	MFWD 190	22,000	160	10	0.074	0.87	1.25	0.40	0.43	2.97	1.02	2.62	6.62
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	19,700	160	10	0.074	0.87	1.25	0.36	0.43	2.93	0.91	2.62	6.47
Disk Bed w/roller	8R-30	2WD 190	26,900	160	10	0.093	1.10	1.58	0.63	0.41	3.74	1.57	2.51	7.83
Disk Bed w/roller	12R-30	MFWD 225	50,900	160	10	0.062	0.73	1.25	0.79	0.45	3.24	1.99	2.72	7.96
Disk Harrow	14'	2WD 130	26,400	180	10	0.140	1.65	1.62	1.02	0.49	4.80	2.06	2.82	9.69
Disk Harrow	24'	MFWD 190	46,200	180	10	0.081	0.96	1.38	1.05	0.48	3.88	2.10	2.89	8.88
Disk Harrow	28'	MFWD 225	56,000	180	10	0.070	0.82	1.40	1.09	0.51	3.83	2.18	3.06	9.08
Disk Harrow	32'	MFWD 225	61,400	180	10	0.061	0.72	1.22	1.04	0.44	3.44	2.09	2.67	8.22
Disk Harrow	42'	MFWD 225	107,000	180	10	0.046	0.55	0.93	1.39	0.34	3.22	2.78	2.04	8.04
Ditcher		2WD 130	6,120	200	10	0.020	0.23	0.23	0.04	0.07	0.58	0.06	0.40	1.05
Ditcher (1m/160a)		2WD 130	6,120	200	10	0.009	0.11	0.10	0.02	0.03	0.27	0.02	0.18	0.49
Fert Appl (Liquid)	4R-38	MFWD 150	15,200	150	8	0.154	2.53	2.06	1.56	0.69	6.85	1.67	3.94	12.47
Fert Appl (Liquid)	6R-30	MFWD 170	17,900	150	8	0.130	2.14	1.98	1.56	0.65	6.34	1.67	3.92	11.94
Fert Appl (Liquid)	6R-38	MFWD 170	17,900	150	8	0.103	1.69	1.56	1.23	0.51	5.00	1.32	3.09	9.42
Fert Appl (Liquid)	8R-30	MFWD 190	18,600	150	8	0.098	1.60	1.66	1.21	0.58	5.06	1.30	3.47	9.84
Fert Appl (Liquid)	8R-38	MFWD 190	20,600	150	8	0.077	1.27	1.31	1.06	0.45	4.10	1.14	2.74	7.99
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	21,000	150	8	0.051	0.84	0.87	0.72	0.30	2.74	0.77	1.83	5.35
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.28	1.57	0.97	0.57	4.40	1.04	3.43	8.87
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	1.01	1.24	0.83	0.45	3.54	0.89	2.70	7.14
Fert Appl (Liquid)	12R-30	MFWD 225	24,760	150	8	0.078	1.28	1.57	1.29	0.57	4.72	1.38	3.43	9.54
Fert Appl (Liquid)	12R-38	MFWD 225	19,300	150	8	0.051	0.84	1.03	0.66	0.37	2.92	0.71	2.25	5.89
Field Cult & Inc	12'	2WD 150	19,600	100	10	0.132	2.16	1.76	0.64	0.45	5.03	2.59	2.61	10.24
Field Cult & Inc	24'	MFWD 170	38,500	100	10	0.066	1.08	1.00	0.63	0.33	3.04	2.54	1.98	7.57
Field Cult & Inc	32'	MFWD 190	50,900	100	10	0.049	0.81	0.83	0.63	0.29	2.57	2.52	1.75	6.85
Field Cult & Inc	42'	MFWD 225	69,000	100	10	0.037	0.61	0.75	0.65	0.27	2.30	2.60	1.64	6.56
Field Cultivate	12'	2WD 150	19,600	100	10	0.124	1.47	1.66	0.60	0.43	4.17	2.44	2.46	9.08
Field Cultivate	24'	MFWD 170	31,100	100	10	0.062	0.73	0.94	0.48	0.31	2.47	1.93	1.86	6.27
Field Cultivate	32'	MFWD 190	43,500	100	10	0.046	0.55	0.78	0.50	0.27	2.12	2.03	1.65	5.80
Field Cultivate	42'	MFWD 225	59,400	100	10	0.035	0.42	0.71	0.52	0.25	1.91	2.11	1.55	5.58
Field Cultivate	50'	MFWD 225	69,000	100	10	0.029	0.35	0.59	0.51	0.21	1.68	2.06	1.30	5.05
Gate Installer		2WD 130	2,960	10	10	0.020	0.41	0.23	0.17	0.07	0.89	0.56	0.40	1.86
Grain Drill	12'	2WD 130	28,100	150	8	0.157	3.28	1.81	1.65	0.55	7.31	2.99	3.16	13.47
Grain Drill	15'	MFWD 150	33,900	150	8	0.125	2.62	1.67	1.59	0.56	6.46	2.88	3.20	12.56
Grain Drill	20'	MFWD 170	41,400	150	8	0.094	1.96	1.42	1.46	0.47	5.33	2.64	2.82	10.80
Grain Drill	24'	MFWD 190	66,800	150	8	0.078	1.64	1.32	1.96	0.46	5.40	3.55	2.78	11.74
Grain Drill	30'	MFWD 225	68,500	150	8	0.062	1.31	1.25	1.61	0.45	4.64	2.91	2.74	10.30
Grain Drill & Pre	12'	2WD 130	35,400	150	8	0.169	3.53	1.95	2.24	0.59	8.33	4.06	3.41	15.81
Grain Drill & Pre	15'	MFWD 150	41,200	150	8	0.135	2.82	1.80	2.09	0.60	7.33	3.78	3.45	14.56
Grain Drill & Pre	20'	MFWD 170	48,800	150	8	0.101	2.12	1.53	1.85	0.50	6.02	3.35	3.04	12.42
Grain Drill & Pre	24'	MFWD 190	74,200	150	8	0.084	1.76	1.43	2.35	0.49	6.05	4.25	2.99	13.30
Grain Drill & Pre	30'	MFWD 225	75,800	150	8	0.067	1.41	1.35	1.92	0.49	5.18	3.47	2.95	11.61
Harrow	13'	2WD 130	4,360	200	10	0.119	1.41	1.38	0.18	0.42	3.40	0.26	2.40	6.06
Harrow	21'	2WD 150	6,750	200	10	0.073	0.87	0.98	0.17	0.25	2.29	0.24	1.46	4.00
Harrow	40'	MFWD 190	21,300	200	10	0.038	0.45	0.65	0.28	0.22	1.63	0.41	1.37	3.42
Harrow	47'	MFWD 190	26,000	200	10	0.033	0.39	0.55	0.30	0.19	1.44	0.43	1.16	3.04
Header - Corn	4R-38	240hp	25,147	300	8	0.201	3.07	4.29	1.26	3.38	12.02	1.80	12.75	26.58
Header - Corn	6R30"	240hp	51,400	300	8	0.170	2.60	3.63	2.18	2.86	11.29	3.12	10.80	25.22
Header - Corn	6R38"	240hp	52,300	300	8	0.134	2.05	2.87	1.75	2.26	8.94	2.50	8.52	19.98
Header - Corn	8R-30	240hp	66,800	300	8	0.127	1.95	2.72	2.13	2.14	8.96	3.04	8.10	20.10
Header - Corn	8R-38	275hp	67,900	300	8	0.100	1.54	2.47	1.71	3.70	9.43	2.44	13.95	25.83
Header - Corn	12R-20	275hp	102,000	300	8	0.127	1.95	3.12	3.25	4.68	13.01	4.64	17.65	35.31
Header - Corn	12R-30	275hp	112,000	300	8	0.085	1.30	2.08	2.38	3.12	8.89	3.40	11.76	24.06
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	4.41	6.16	4.64	4.85	20.07	6.62	18.29	45.00
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.88	5.42	4.08	4.27	17.66	5.83	16.10	39.60
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	3.23	5.17	3.91	7.75	20.09	5.59	29.23	54.92
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.82	5.34	4.02	4.20	17.39	5.74	15.85	39.00
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	3.36	4.70	3.54	3.70	15.31	5.05	13.95	34.32
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.80	4.48	3.39	6.72	17.41	4.84	25.33	47.59
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.60	3.63	0.00	2.86	9.10	0.00	10.80	19.91
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	2.17	3.03	0.72	2.38	8.31	1.02	9.00	18.34
Header - Soybean	22' Flex	240hp	33,500	300	8	0.116	1.77	2.48	0.97	1.95	7.18	1.38	7.36	15.93
Header - Soybean	25' Flex	275hp	35,900	300	8	0.102	1.56	2.50	0.91	3.74	8.72	1.30	14.12	24.15
Header - Soybean	30' Flex	275hp	42,400	300	8	0.085	1.30	2.08	0.90	3.12	7.41	1.28	11.76	20.46
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	2.17	3.03	0.67	2.38	8.26	0.96	9.00	18.23
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.77	2.48	0.57	1.95	6.78	0.82	7.36	14.96
Header Wheat/Sorghum	25' Rigid	240hp	21,000	300	8	0.102	1.56	2.18	0.53	1.71	6.00	0.76	6.48	13.24
Header Wheat/Sorghum	30' Rigid	275hp	25,700	300	8	0.085	1.30	2.08	0.54	3.12	7.05	0.78	11.76	19.60
Header-Cotton Bcast	13'	173hp	21,300	200	8	0.251	6.13	3.52	1.00	6.68	17.34	2.87	25.21	45.43
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	4.98	2.86	0.91	5.43	14.19	2.60	20.48	37.28
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	4.19	2.40	0.84	4.57	12.02	2.41	17.25	31.69
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	7.97	4.57	1.25	8.69	22.50	3.59	32.77	58.88
Header-Cotton-Brush	4R30"2X1	173hp	34,400	200	8	0.218	5.31	3.05	1.40	5.79	15.57	4.01	21.85	41.44
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	6.27	3.60	1.64	6.84	18.37	4.69	25.81	48.87
Header-Cotton-Brush	4R38"2X1	173hp	36,000	200	8	0.172	4.19	2.40	1.16	4.57	12.34	3.31	17.25	32.91

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------------------$/acre							--------------------
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	6.37	3.66	2.10	6.95	19.09	5.99	26.22	51.32
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	5.04	2.89	1.72	5.50	15.16	4.91	20.74	40.82
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	5.31	3.05	2.15	5.79	16.32	6.15	21.85	44.32
Heavy Disk	14'	MFWD 150	25,900	180	10	0.145	1.72	1.94	1.05	0.65	5.37	2.10	3.72	11.20
Heavy Disk	21'	MFWD 170	40,600	180	10	0.097	1.15	1.47	1.09	0.48	4.20	2.19	2.91	9.32
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.89	1.28	1.05	0.44	3.68	2.12	2.67	8.48
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.70	0.80	0.13	0.26	1.91	0.13	1.53	3.58
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.87	4.10	0.29	1.43	8.70	0.73	8.59	18.02
Land Plane	50'x16'	MFWD 190	10,800	200	10	0.151	1.79	2.56	0.32	0.89	5.58	0.81	5.37	11.77
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.91	6.67	2.64	2.23	17.46	3.49	12.75	33.72
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	2.24	2.53	0.15	0.84	5.79	0.61	4.84	11.26
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.59	1.33	0.07	0.46	2.46	0.17	2.79	5.43
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.77	4.00	0.23	1.39	7.40	0.45	8.37	16.23
Levee Splitter (1/80	2 blade	2WD 150	8,270	50	10	0.004	0.04	0.05	0.00	0.01	0.12	0.06	0.08	0.27
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.72	2.46	0.26	0.85	5.31	0.45	5.15	10.92
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.42	1.60	0.36	0.53	3.92	1.08	3.06	8.07
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.35	1.93	0.55	0.67	4.51	1.66	4.04	10.22
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	1.06	1.52	0.38	0.53	3.51	1.14	3.19	7.85
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.71	1.01	0.41	0.35	2.49	1.23	2.12	5.85
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	1.08	1.83	0.62	0.66	4.20	1.88	3.98	10.07
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.85	1.44	0.54	0.52	3.36	1.62	3.14	8.13
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.71	1.20	0.41	0.43	2.76	1.23	2.62	6.62
Module Builder-1st	2R-38(157)	MFWD 190	31,300	200	10	0.519	10.85	8.79	4.06	3.06	26.78	7.80	18.40	52.99
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	7.41	7.81	2.84	1.93	20.00	6.31	13.15	39.47
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	6.83	5.53	2.84	1.93	17.15	5.45	11.59	34.19
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	6.83	5.53	2.84	1.93	17.15	5.45	11.59	34.19
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	5.38	4.36	2.23	1.52	13.50	4.29	9.12	26.92
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	5.38	4.36	2.23	1.52	13.50	4.29	9.12	26.92
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	3.59	2.91	1.49	1.01	9.02	2.87	6.10	17.99
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	5.47	4.43	2.27	1.54	13.72	4.36	9.27	27.35
Module Builder-1st	5R-38(255)	MFWD 190	34,700	200	10	0.207	4.32	3.50	1.79	1.22	10.85	3.45	7.33	21.64
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	4.55	3.69	1.89	1.28	11.43	3.63	7.72	22.79
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	3.59	2.91	1.49	1.01	9.02	2.87	6.10	17.99
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	9.19	7.44	3.81	2.59	23.06	7.33	15.58	45.98
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	5.79	4.69	2.40	1.63	14.52	4.61	9.81	28.96
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	5.79	4.69	2.40	1.63	14.52	4.61	9.81	28.96
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	4.56	3.69	1.89	1.28	11.43	3.63	7.73	22.80
Module Builder-2nd	4R-38(325)	MFWD 190	34,700	200	10	0.218	4.56	3.69	1.89	1.28	11.43	3.63	7.73	22.80
Module Builder-2nd	4R2x1 255	MFWD 190	34,700	200	10	0.145	3.04	2.46	1.26	0.86	7.64	2.43	5.16	15.24
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	4.63	3.75	1.92	1.31	11.62	3.69	7.85	23.17
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	3.66	2.96	1.52	1.03	9.19	2.92	6.21	18.33
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	3.86	3.12	1.60	1.09	9.68	3.07	6.54	19.31
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	3.04	2.46	1.26	0.86	7.64	2.43	5.16	15.24
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	5.26	3.36	2.18	1.12	11.93	4.19	6.42	22.55
Module Builder-Strip	16' Bcast	MFWD 150	34,700	200	10	0.204	4.27	2.73	1.77	0.91	9.69	3.40	5.21	18.32
Module Builder-Strip	19' Brush	MFWD 150	34,700	200	10	0.172	3.59	2.30	1.49	0.77	8.16	2.87	4.39	15.43
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	6.83	4.37	2.84	1.46	15.51	5.45	8.35	29.32
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.55	2.91	1.89	0.97	10.34	3.63	5.56	19.54
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.38	3.44	2.23	1.15	12.21	4.29	6.57	23.08
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.59	2.30	1.49	0.77	8.16	2.87	4.39	15.43
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.47	3.49	2.27	1.17	12.41	4.36	6.68	23.45
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.32	2.76	1.79	0.92	9.81	3.45	5.28	18.55
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.55	2.91	1.89	0.97	10.34	3.63	5.56	19.54
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.80	1.36	0.00	0.49	2.66	0.00	2.97	5.63
NT Grain Drill	12'	2WD 130	46,600	150	8	0.163	3.41	1.89	2.86	0.57	8.75	5.16	3.29	17.22
NT Grain Drill	15'	MFWD 150	56,000	150	8	0.130	2.73	1.74	2.74	0.58	7.81	4.97	3.34	16.13
NT Grain Drill	20'	MFWD 170	67,400	150	8	0.098	2.05	1.48	2.48	0.49	6.51	4.48	2.94	13.94
NT Grain Drill	24'	MFWD 190	98,000	150	8	0.081	1.70	1.38	3.00	0.48	6.58	5.43	2.89	14.91
NT Grain Drill	30'	MFWD 225	104,300	150	8	0.065	1.36	1.31	2.56	0.47	5.71	4.62	2.85	13.20
NT Grain Drill & Pre	12'	2WD 130	54,000	150	8	0.176	3.68	2.04	3.56	0.62	9.91	6.45	3.55	19.92
NT Grain Drill & Pre	15'	MFWD 150	63,300	150	8	0.141	2.94	1.88	3.34	0.63	8.80	6.05	3.59	18.45
NT Grain Drill & Pre	20'	MFWD 170	74,700	150	8	0.105	2.20	1.60	2.96	0.52	7.30	5.35	3.17	15.82
NT Grain Drill & Pre	24'	MFWD 190	105,000	150	8	0.088	1.84	1.49	3.47	0.52	7.32	6.27	3.12	16.71
NT Grain Drill & Pre	30'	MFWD 225	112,000	150	8	0.070	1.47	1.41	2.96	0.51	6.36	5.35	3.07	14.79
NT Plant&Pre-Folding	8R-38	MFWD 170	67,700	150	8	0.083	1.74	1.26	2.12	0.41	5.55	3.83	2.50	11.89
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	103,000	150	8	0.055	1.16	0.84	2.15	0.27	4.43	3.88	1.66	9.98
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.76	1.43	1.82	0.49	5.52	3.30	2.99	11.82
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.39	1.12	1.32	0.39	4.24	2.39	2.36	8.99
NT Plant&Pre-Folding	12R-20	MFWD 190	82,600	150	8	0.105	2.20	1.78	3.27	0.62	7.89	5.92	3.74	17.56
NT Plant&Pre-Folding	12R-30	MFWD 190	91,900	150	8	0.070	1.47	1.19	2.43	0.41	5.51	4.39	2.49	12.40
NT Plant&Pre-Folding	12R-38	MFWD 190	103,000	150	8	0.055	1.16	0.94	2.15	0.32	4.58	3.88	1.97	10.44
NT Plant&Pre-Folding	16R-30	MFWD 190	137,000	150	8	0.052	1.10	0.89	2.71	0.31	5.02	4.91	1.87	11.81
NT Plant&Pre-Folding	23R-15	MFWD 190	186,000	150	8	0.073	1.53	1.24	5.12	0.43	8.33	9.25	2.60	20.19
NT Plant&Pre-Folding	24R-20	MFWD 190	207,000	150	8	0.052	1.10	0.89	4.10	0.31	6.41	7.41	1.87	15.70
NT Plant&Pre-Folding	24R-30	MFWD 190	217,000	150	8	0.035	0.73	0.59	2.86	0.20	4.41	5.18	1.24	10.84
NT Plant&Pre-Rigid	4R-30	2WD 130	34,600	150	8	0.211	4.41	2.44	2.74	0.74	10.35	4.96	4.26	19.58
NT Plant&Pre-Rigid	4R-38	2WD 130	36,000	150	8	0.166	3.47	1.92	2.24	0.58	8.24	4.06	3.35	15.66
NT Plant&Pre-Rigid	6R-30	MFWD 150	44,300	150	8	0.141	2.94	1.88	2.34	0.63	7.80	4.23	3.59	15.63
NT Plant&Pre-Rigid	6R-38	MFWD 150	43,500	150	8	0.111	2.32	1.48	1.81	0.49	6.12	3.28	2.84	12.24
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	3.00	2.17	1.41	0.71	7.31	2.55	4.31	14.18
NT Plant&Pre-Rigid	8R-30	MFWD 170	54,500	150	8	0.105	2.20	1.60	2.16	0.52	6.50	3.90	3.17	13.57
NT Plant&Pre-Rigid	8R-38	MFWD 170	52,400	150	8	0.077	1.61	1.16	1.51	0.38	4.68	2.74	2.31	9.73
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	1.76	1.43	1.64	0.49	5.34	2.97	2.99	11.31

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	---------------------$/acre--------------------							
NT Plant&Pre-Rigid	12R-20	MFWD 190	65,700	150	8	0.105	2.20	1.78	2.60	0.62	7.22	4.70	3.74	15.68
NT Plant&Pre-Rigid	12R-30	MFWD 190	82,800	150	8	0.070	1.47	1.19	2.18	0.41	5.27	3.95	2.49	11.72
NT Plant-Folding	8R-38	MFWD 170	60,400	150	8	0.077	1.62	1.17	1.75	0.38	4.94	3.17	2.32	10.44
NT Plant-Folding	8R-38 2x1	MFWD 170	93,400	150	8	0.051	1.07	0.78	1.81	0.25	3.93	3.27	1.54	8.75
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.64	1.32	1.53	0.46	4.96	2.77	2.78	10.52
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.29	1.04	1.10	0.36	3.81	2.00	2.19	8.01
NT Plant-Folding	12R-20	MFWD 190	75,200	150	8	0.098	2.05	1.66	2.76	0.58	7.06	5.00	3.47	15.54
NT Plant-Folding	12R-30	MFWD 190	81,700	150	8	0.065	1.36	1.10	2.00	0.38	4.86	3.62	2.31	10.81
NT Plant-Folding	12R-38	MFWD 190	93,400	150	8	0.051	1.07	0.87	1.81	0.30	4.07	3.27	1.83	9.17
NT Plant-Folding	16R-30	MFWD 190	128,000	150	8	0.049	1.02	0.83	2.35	0.29	4.50	4.26	1.73	10.50
NT Plant-Folding	23R-15	MFWD 190	176,000	150	8	0.068	1.42	1.15	4.50	0.40	7.48	8.13	2.41	18.03
NT Plant-Folding	24R-20	MFWD 190	197,000	150	8	0.049	1.02	0.83	3.62	0.29	5.77	6.55	1.73	14.06
NT Plant-Folding	24R-30	MFWD 190	204,000	150	8	0.032	0.68	0.55	2.50	0.19	3.93	4.52	1.15	9.62
NT Plant-Rigid	4R-30	2WD 130	27,200	150	8	0.196	4.10	2.27	2.00	0.69	9.07	3.62	3.95	16.65
NT Plant-Rigid	4R-38	2WD 130	28,600	150	8	0.154	3.23	1.79	1.65	0.54	7.22	2.99	3.11	13.34
NT Plant-Rigid	6R-30	MFWD 150	37,000	150	8	0.130	2.73	1.74	1.81	0.58	6.88	3.28	3.34	13.51
NT Plant-Rigid	6R-38	MFWD 150	36,100	150	8	0.103	2.15	1.38	1.39	0.46	5.40	2.52	2.63	10.56
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	2.79	2.02	1.05	0.66	6.54	1.91	4.00	12.46
NT Plant-Rigid	8R-30	MFWD 170	47,100	150	8	0.098	2.05	1.48	1.73	0.49	5.76	3.13	2.94	11.84
NT Plant-Rigid	8R-38	MFWD 170	45,000	150	8	0.077	1.62	1.17	1.31	0.38	4.49	2.36	2.32	9.19
NT Plant-Rigid	10R-30	MFWD 190	46,500	150	8	0.078	1.64	1.32	1.37	0.46	4.80	2.47	2.78	10.06
NT Plant-Rigid	12R-20	MFWD 190	58,400	150	8	0.098	2.05	1.66	2.15	0.58	6.44	3.88	3.47	13.80
NT Plant-Rigid	12R-30	MFWD 190	73,500	150	8	0.065	1.36	1.10	1.80	0.38	4.66	3.26	2.31	10.24
Paratill & Bed	4R-30	MFWD 225	18,700	150	12	0.204	2.41	4.09	1.37	1.48	9.37	2.25	8.92	20.55
Paratill & Bed	4R-38	MFWD 225	18,700	150	12	0.160	1.90	3.22	1.08	1.17	7.38	1.77	7.02	16.18
Paratill & Bed	6R-30	MFWD 225	17,300	150	12	0.136	1.61	2.72	0.85	0.99	6.18	1.38	5.94	13.51
Paratill & Bed	6R-38	MFWD 225	25,500	150	12	0.107	1.27	2.15	0.99	0.78	5.20	1.61	4.69	11.51
Paratill & Bed	8R-30	MFWD 225	22,600	150	12	0.102	1.20	2.04	0.83	0.74	4.83	1.36	4.46	10.65
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.63	1.07	1.34	0.39	3.44	2.19	2.34	7.98
Paratill & Bed Fold.	8R-38	MFWD 225	46,900	150	12	0.080	0.95	1.61	1.36	0.58	4.52	2.23	3.52	10.28
Paratill & Bed Fold.	12R-38	MFWD 225	67,900	150	12	0.053	0.63	1.07	1.31	0.39	3.42	2.15	2.34	7.92
Paratill & Bed Rigid	8R-38	MFWD 225	39,800	150	12	0.080	0.95	1.61	1.16	0.58	4.32	1.89	3.52	9.74
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.61	0.69	0.00	0.17	1.49	0.02	1.02	2.54
Pipe Spool 160ac	1/4m roll	2WD 130	5,400	15	12	0.003	0.09	0.03	0.00	0.01	0.15	0.09	0.06	0.31
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.18	0.04	0.00	0.01	0.23	0.00	0.07	0.32
Plant & Pre Folding	8R-38	MFWD 170	61,000	150	8	0.080	1.67	1.21	1.83	0.40	5.12	3.31	2.40	10.85
Plant & Pre Folding	8R38 2x1	MFWD 170	92,700	150	8	0.053	1.11	0.80	1.85	0.26	4.05	3.35	1.60	9.00
Plant & Pre Folding	10R-30	MFWD 190	51,900	150	8	0.081	1.69	1.37	1.58	0.47	5.13	2.85	2.87	10.86
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.33	1.08	1.15	0.37	3.95	2.09	2.26	8.32
Plant & Pre Folding	12R-20	MFWD 190	72,600	150	8	0.101	2.12	1.71	2.76	0.59	7.20	4.99	3.59	15.79
Plant & Pre Folding	12R-30	MFWD 190	81,000	150	8	0.067	1.41	1.14	2.05	0.39	5.01	3.71	2.39	11.12
Plant & Pre Folding	12R-38	MFWD 190	92,700	150	8	0.053	1.11	0.90	1.85	0.31	4.19	3.35	1.89	9.44
Plant & Pre Folding	16R-30	MFWD 190	124,000	150	8	0.050	1.06	0.85	2.36	0.29	4.58	4.26	1.79	10.64
Plant & Pre Folding	23R-15	MFWD 190	166,000	150	8	0.070	1.47	1.19	4.38	0.41	7.47	7.93	2.49	17.90
Plant & Pre Folding	24R-20	MFWD 190	187,000	150	8	0.050	1.06	0.85	3.56	0.29	5.77	6.43	1.79	14.01
Plant & Pre Folding	24R-30	MFWD 190	197,000	150	8	0.033	0.70	0.57	2.50	0.19	3.97	4.51	1.19	9.69
Plant & Pre Rigid	4R-30	2WD 130	31,600	150	8	0.203	4.24	2.35	2.40	0.71	9.71	4.34	4.09	18.15
Plant & Pre Rigid	4R-38	2WD 130	32,600	150	8	0.159	3.34	1.85	1.95	0.56	7.71	3.53	3.22	14.46
Plant & Pre Rigid	6R-30	MFWD 150	39,300	150	8	0.135	2.82	1.80	1.99	0.60	7.23	3.60	3.45	14.29
Plant & Pre Rigid	6R-38	MFWD 150	38,500	150	8	0.106	2.23	1.42	1.54	0.47	5.68	2.78	2.72	11.19
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	2.88	2.09	1.22	0.69	6.88	2.20	4.14	13.23
Plant & Pre Rigid	8R-30	MFWD 170	47,800	150	8	0.101	2.12	1.53	1.82	0.50	5.98	3.28	3.04	12.31
Plant & Pre Rigid	8R-38	MFWD 170	45,700	150	8	0.080	1.67	1.21	1.37	0.40	4.66	2.48	2.40	9.56
Plant & Pre Rigid	10R-30	MFWD 190	46,000	150	8	0.081	1.69	1.37	1.40	0.47	4.95	2.53	2.87	10.36
Plant & Pre Rigid	12R-20	MFWD 190	55,700	150	8	0.101	2.12	1.71	2.12	0.59	6.55	3.83	3.59	13.98
Plant & Pre Rigid	12R-30	MFWD 190	72,700	150	8	0.067	1.41	1.14	1.84	0.39	4.80	3.33	2.39	10.53
Plant - Folding	8R-38	MFWD 170	53,200	150	8	0.074	1.55	1.12	1.48	0.37	4.54	2.68	2.23	9.46
Plant - Folding	8R-38 2x1	MFWD 170	83,400	150	8	0.049	1.03	0.75	1.55	0.24	3.58	2.80	1.48	7.88
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.57	1.27	1.34	0.44	4.63	2.42	2.67	9.73
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.24	1.00	0.95	0.35	3.55	1.73	2.10	7.40
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	1.96	1.59	2.30	0.55	6.42	4.16	3.33	13.93
Plant - Folding	12R-30	MFWD 190	71,700	150	8	0.062	1.31	1.06	1.69	0.37	4.43	3.05	2.22	9.71
Plant - Folding	12R-38	MFWD 190	83,400	150	8	0.049	1.03	0.83	1.55	0.29	3.72	2.80	1.75	8.28
Plant - Folding	16R-30	MFWD 190	114,000	150	8	0.047	0.98	0.79	2.01	0.27	4.07	3.64	1.66	9.38
Plant - Folding	23R-15	MFWD 190	157,000	150	8	0.065	1.36	1.10	3.85	0.38	6.71	6.96	2.31	16.00
Plant - Folding	24R-20	MFWD 190	177,000	150	8	0.047	0.98	0.79	3.12	0.27	5.18	5.65	1.66	12.51
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.65	0.53	2.16	0.18	3.54	3.91	1.11	8.57
Plant - Rigid	4R-30	2WD 130	24,200	150	8	0.188	3.93	2.18	1.71	0.66	8.49	3.09	3.80	15.39
Plant - Rigid	4R-38	2WD 130	25,300	150	8	0.148	3.10	1.71	1.40	0.52	6.75	2.54	2.99	12.29
Plant - Rigid	6R-30	MFWD 150	32,000	150	8	0.125	2.62	1.67	1.50	0.56	6.37	2.72	3.20	12.30
Plant - Rigid	6R-38	MFWD 150	31,100	150	8	0.099	2.07	1.32	1.15	0.44	4.99	2.09	2.53	9.62
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	2.67	1.93	0.88	0.63	6.13	1.60	3.83	11.56
Plant - Rigid	8R-30	MFWD 170	40,500	150	8	0.094	1.96	1.42	1.43	0.47	5.30	2.58	2.82	10.71
Plant - Rigid	8R-38	MFWD 170	38,400	150	8	0.074	1.55	1.12	1.07	0.37	4.13	1.93	2.23	8.30
Plant - Rigid	10R-30	MFWD 190	40,700	150	8	0.075	1.57	1.27	1.15	0.44	4.44	2.08	2.67	9.20
Plant - Rigid	12R-20	MFWD 190	48,300	150	8	0.094	1.96	1.59	1.70	0.55	5.82	3.08	3.33	12.25
Plant - Rigid	12R-30	MFWD 190	63,400	150	8	0.062	1.31	1.06	1.49	0.37	4.24	2.70	2.22	9.16
Plant - Rigid	15R-15	2WD 150	60,200	150	8	0.094	1.96	1.25	2.12	0.32	5.68	3.84	1.86	11.39
Pull Levee (1m/80a))	4 blade	2WD 50	3,180	100	10	0.003	0.04	0.01	0.00	0.00	0.06	0.01	0.01	0.09
Rice Grain Cart	500 Bu	MFWD 190	27,300	200	12	0.057	0.67	0.96	0.42	0.33	2.40	0.68	2.02	5.11
Rice Grain Cart	700 Bu	MFWD 190	44,000	200	12	0.063	0.75	1.07	0.75	0.37	2.95	1.23	2.24	6.43
Roller	32'	MFWD 170	22,800	100	12	0.046	0.55	0.70	0.17	0.23	1.66	0.94	1.39	4.00

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------------------$/acre							--------------------
Row Cond & Inc	13'	2WD 130	16,000	100	10	0.137	2.25	1.59	0.55	0.48	4.89	2.21	2.78	9.88
Row Cond & Inc	21'	2WD 170	21,600	100	10	0.085	1.39	1.29	0.46	0.42	3.57	1.84	2.56	7.98
Row Cond & Inc	26'	MFWD 190	28,500	100	10	0.063	1.03	1.07	0.45	0.37	2.93	1.80	2.24	6.99
Row Cond & Inc	38'	MFWD 225	38,000	100	10	0.047	0.77	0.94	0.44	0.34	2.50	1.79	2.06	6.36
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.65	0.80	0.20	0.29	1.96	0.82	1.75	4.53
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.35	1.32	0.20	0.40	3.30	0.83	2.31	6.45
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.84	1.07	0.21	0.35	2.48	0.85	2.13	5.47
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.67	0.97	0.17	0.33	2.16	0.71	2.03	4.91
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.46	0.78	0.21	0.28	1.75	0.87	1.71	4.34
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.42	0.71	0.13	0.25	1.53	0.55	1.55	3.63
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.85	1.81	0.27	0.55	4.51	1.12	3.16	8.80
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	1.15	1.47	0.28	0.48	3.39	1.13	2.91	7.45
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.92	1.32	0.24	0.46	2.96	0.97	2.78	6.72
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.63	1.07	0.22	0.39	2.32	0.89	2.34	5.56
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.57	0.97	0.18	0.35	2.09	0.75	2.12	4.97
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.22	1.56	1.02	0.51	4.32	0.98	3.09	8.39
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.81	1.16	0.98	0.30	3.27	0.94	1.84	6.05
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.52	1.95	1.28	0.64	5.40	1.22	3.86	10.49
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	1.01	1.45	1.23	0.38	4.09	1.18	2.30	7.57
RT Cult + PD (Early)	8R-30	2WD 150	26,264	200	12	0.110	1.79	1.46	1.38	0.38	5.03	1.32	2.17	8.53
RT Cult + PD (Early)	12R-30	MFWD 225	35,493	200	12	0.073	1.19	1.46	1.24	0.53	4.45	1.19	3.20	8.84
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.24	2.08	1.73	0.68	6.74	1.65	4.12	12.52
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.49	1.55	1.55	0.40	5.01	1.49	2.45	8.96
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.42	1.60	1.43	0.53	5.01	0.39	3.07	8.48
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.42	1.60	0.68	0.53	4.24	0.79	3.06	8.10
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.42	1.60	0.58	0.53	4.14	0.66	3.06	7.87
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.42	1.60	0.69	0.53	4.25	0.80	3.06	8.11
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.42	1.60	0.46	0.53	4.02	0.54	3.06	7.63
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.42	2.03	1.11	0.70	5.27	1.29	4.25	10.81
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	10.37	11.71	2.55	3.91	28.57	1.98	22.37	52.94
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.42	1.60	0.25	0.53	3.81	0.27	3.06	7.14
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.77	1.40	0.24	0.33	3.75	0.40	1.90	6.06
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	11.83	13.35	8.43	4.46	38.09	16.18	25.51	79.79
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	7.92	8.94	3.68	2.99	23.55	7.07	17.09	47.71
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	2.36	0.89	5.10	0.19	8.54	9.78	1.10	19.43
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	7.92	8.94	3.68	2.99	23.55	7.07	17.09	47.71
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	6.50	7.34	0.62	2.45	16.93	0.81	12.75	30.50
SC Cane Wgn Billt HD	10Ton	MFWD 150	40,000	750	9	0.600	7.80	8.81	5.33	2.94	24.90	3.90	15.30	44.11
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.60	3.71	0.96	1.29	8.58	1.16	7.78	17.53
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.42	2.03	0.49	0.70	4.65	1.27	4.25	10.18
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.30	1.02	0.29	0.24	2.87	0.43	1.39	4.70
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.30	1.66	0.39	0.55	3.91	0.52	3.29	7.73
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.65	1.87	0.32	0.48	4.34	0.43	2.77	7.55
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.77	0.66	0.56	0.14	3.14	0.74	0.82	4.71
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	1.18	1.69	0.77	0.59	4.23	1.02	3.54	8.79
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.82	1.05	0.64	0.34	2.88	0.85	2.09	5.83
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	1.18	1.51	0.40	0.50	3.60	0.53	2.99	7.14
SC Double Hitch	DBLHTCH	2WD 50	0	1000	10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SC Drain Cleaner	6 ft	MFWD 75	3,750	300	9	0.080	0.94	0.53	0.13	0.10	1.71	0.12	0.59	2.44
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.53	1.73	0.36	0.58	4.22	0.53	3.31	8.06
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.70	0.80	0.22	0.26	2.00	0.30	1.53	3.84
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	2.24	2.53	0.47	0.84	6.11	0.44	4.84	11.41
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	11.83	20.03	0.13	4.59	36.59	0.17	27.55	64.32
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	3.55	4.01	0.66	1.34	9.56	1.30	7.66	18.52
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.95	3.33	3.12	1.11	10.53	3.64	6.37	20.56
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.94	0.92	0.41	0.28	2.56	0.48	1.61	4.66
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.95	1.66	0.51	0.32	5.46	1.36	1.86	8.69
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.60	3.71	3.51	1.29	11.13	3.41	7.78	22.33
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	11.83	9.34	0.86	2.22	24.26	3.03	12.70	40.00
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.30	1.02	0.04	0.24	2.61	0.05	1.39	4.07
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	11.83	11.57	0.23	3.53	27.17	0.86	20.15	48.19
SCMechanical Planter	6 ft	MFWD 150	15,500	160	10	1.000	11.83	13.35	7.26	4.46	36.92	11.29	25.51	73.72
Spin Spreader	5 ton	MFWD 190	11,600	100	8	0.042	0.87	0.71	0.27	0.24	2.11	0.52	1.49	4.12
Spin Spreader	5 ton	MFWD 190	11,600	100	8	0.042	0.87	0.71	0.27	0.24	2.11	0.52	1.49	4.12
Spray (Band)	27'	MFWD 170	7,400	200	8	0.062	1.02	0.94	0.21	0.31	2.50	0.24	1.87	4.63
Spray (Band)	40'	MFWD 170	9,300	200	8	0.042	0.69	0.64	0.18	0.21	1.72	0.21	1.26	3.20
Spray (Band)	50'	MFWD 170	10,100	200	8	0.033	0.55	0.51	0.16	0.16	1.39	0.18	1.01	2.59
Spray (Band)	53'	MFWD 170	9,940	200	8	0.031	0.52	0.48	0.14	0.15	1.31	0.16	0.95	2.44
Spray (Band)	60'	MFWD 170	15,600	200	8	0.028	0.46	0.42	0.20	0.14	1.23	0.23	0.84	2.31
Spray (Bcast/HB)	13' Rigid	MFWD 150	7,860	200	8	0.130	2.12	1.73	0.47	0.58	4.92	0.54	3.32	8.79
Spray (Bcast/HB)	20' Rigid	2WD 50	9,400	200	8	0.084	1.38	0.37	0.37	0.08	2.21	0.42	0.46	3.10
Spray (Bcast/HB)	27' Fold	MFWD 170	16,200	200	8	0.062	1.02	0.94	0.47	0.31	2.76	0.54	1.87	5.18

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------------------$/acre---------------------							
Spray (Bcast/HB)	27' Rigid	MFWD 170	10,900	200	8	0.062	1.02	0.94	0.32	0.31	2.60	0.36	1.87	4.85
Spray (Bcast/HB)	30' Fold	MFWD 170	18,900	200	8	0.056	0.92	0.85	0.49	0.28	2.55	0.57	1.69	4.82
Spray (Bcast/HB)	40' Fold	MFWD 170	19,100	200	8	0.042	0.69	0.64	0.37	0.21	1.92	0.43	1.26	3.62
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	1.02	0.94	0.65	0.31	2.94	0.75	1.87	5.57
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.69	0.64	0.63	0.21	2.18	0.72	1.26	4.18
Spray (Broadcast)	27'	MFWD 170	7,400	200	8	0.062	1.02	0.94	0.21	0.31	2.50	0.24	1.87	4.63
Spray (Broadcast)	40'	MFWD 170	9,300	200	8	0.042	0.69	0.64	0.18	0.21	1.72	0.21	1.26	3.20
Spray (Broadcast)	50'	MFWD 170	10,100	200	8	0.033	0.55	0.51	0.16	0.16	1.39	0.18	1.01	2.59
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.52	0.48	0.14	0.15	1.31	0.16	0.95	2.44
Spray (Broadcast)	60'	MFWD 170	13,200	200	8	0.028	0.46	0.42	0.17	0.14	1.20	0.19	0.84	2.24
Spray (Direct/Hood)	8R-30	MFWD 170	17,000	200	8	0.084	1.38	1.28	0.67	0.42	3.76	0.76	2.53	7.06
Spray (Direct/Hood)	8R-38	MFWD 170	17,900	200	8	0.066	1.09	1.01	0.56	0.33	3.00	0.64	2.00	5.64
Spray (Direct/Hood)	12R-30	MFWD 170	23,900	200	8	0.056	0.92	0.85	0.63	0.28	2.69	0.72	1.69	5.10
Spray (Direct/Hood)	12R-38	MFWD 170	25,100	200	8	0.044	0.72	0.67	0.52	0.22	2.14	0.59	1.33	4.08
Spray (Direct/Layby)	8R-30	MFWD 170	15,500	200	8	0.084	1.38	1.28	0.61	0.42	3.70	0.70	2.53	6.94
Spray (Direct/Layby)	8R-38	MFWD 170	15,500	200	8	0.066	1.09	1.01	0.48	0.33	2.92	0.55	2.00	5.48
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	19,400	200	8	0.044	0.72	0.67	0.40	0.22	2.03	0.46	1.33	3.82
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.10	1.02	0.38	0.33	2.85	0.44	2.02	5.32
Spray (Direct/Layby)	12R-30	MFWD 170	19,400	200	8	0.056	0.92	0.85	0.51	0.28	2.57	0.58	1.69	4.84
Spray (Direct/Layby)	12R-38	MFWD 170	19,400	200	8	0.044	0.72	0.67	0.40	0.22	2.03	0.46	1.33	3.82
Spray (Direct/Layby)	16R-20	MFWD 170	22,300	200	8	0.063	1.03	0.95	0.66	0.31	2.97	0.75	1.90	5.63
Spray (Spot)	27'	MFWD 170	7,400	200	8	0.062	1.02	0.94	0.21	0.31	2.50	0.24	1.87	4.63
Spray (Spot)	40'	MFWD 170	9,300	200	8	0.042	0.69	0.64	0.18	0.21	1.72	0.21	1.26	3.20
Spray (Spot)	50'	MFWD 170	10,100	200	8	0.033	0.55	0.51	0.16	0.16	1.39	0.18	1.01	2.59
Spray (Spot)	53'	MFWD 170	9,940	200	8	0.031	0.52	0.48	0.14	0.15	1.31	0.16	0.95	2.44
Spray (Spot)	60'	MFWD 170	15,600	200	8	0.028	0.46	0.42	0.20	0.14	1.23	0.23	0.84	2.31
Stalk Shredder	14'	MFWD 150	14,900	200	10	0.117	1.39	1.57	1.53	0.52	5.03	0.87	3.00	8.91
Stalk Shredder	20'	MFWD 150	33,100	200	10	0.082	0.97	1.10	2.38	0.36	4.83	1.36	2.10	8.30
Stalk Shredder-Flail	12'	MFWD 150	21,700	200	10	0.137	1.62	1.83	2.61	0.61	6.68	1.49	3.50	11.69
Stalk Shredder-Flail	20'	MFWD 150	30,400	200	10	0.082	0.97	1.10	2.19	0.36	4.64	1.25	2.10	8.00
Subsoiler	3 shank	MFWD 190	6,360	100	15	0.204	2.41	3.45	0.43	1.20	7.51	0.99	7.23	15.74
Subsoiler	4 shank	MFWD 225	11,210	100	15	0.153	1.81	3.07	0.57	1.11	6.58	1.32	6.70	14.61
Subsoiler	5 shank	MFWD 225	14,300	100	15	0.122	1.44	2.45	0.58	0.89	5.37	1.34	5.34	12.05
Subsoiler low-till	4 shank	MFWD 225	9,830	100	15	0.153	1.81	3.07	0.50	1.11	6.51	1.16	6.70	14.38
Subsoiler low-till	6 shank	MFWD 225	19,400	100	15	0.102	1.20	2.04	0.66	0.74	4.66	1.52	4.46	10.64
Subsoiler low-till	8 shank	MFWD 225	21,403	100	15	0.076	0.90	1.53	0.54	0.55	3.54	1.25	3.34	8.14
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.90	3.22	0.83	1.17	7.12	1.35	7.02	15.50
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.27	2.15	0.75	0.78	4.96	1.22	4.69	10.88
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.41	4.09	1.05	1.48	9.05	1.72	8.92	19.69
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.61	2.72	0.75	0.99	6.08	1.22	5.94	13.26