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

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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 2020 crop year. Crop producers are annually faced with critical management decisions that impact the employment of production inputs for various crop enterprises and the combination of crops that will be assembled into a cropping system. The need for reliable information is crucial if sound production decisions are to be made. Planning information plays a pivotal role in the development of annual crop production plans by producers and is important in supporting their efforts to secure the necessary resources to carry out their plans. In addition, information regarding production alternatives and costs and returns for major crop enterprises is needed by extension personnel, researchers, lending institutions, and others involved in agriculture or agribusiness. The purpose of this report is to provide planning information regarding crop production costs and market returns for the 2020 crop year.

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

Procedure

The general procedure used in this study was to project machinery and other input price data and apply these data to the production practice data for crop enterprises produced in Louisiana. Input prices were obtained from surveys of farm suppliers, machinery dealers, and aerial applicators to provide a basis for estimating 2020 planning budgets. Machinery and other input cost data are presented in the Appendix.

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

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

Expected Crop Yields and Market Prices

Projected crop enterprise budgets in this report include a calculation of expected market returns for the crop. Expected crop yields and market prices are selected at the beginning of the crop year. Projected crop yields are determined based on recent production history for expected yield given normal weather conditions. Projected market prices are specified as expected marketing year average prices for the commodity, based on harvest time futures price quotes as well as other market information at the beginning of the crop year. No estimate of income from farm program 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 $11.33 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at $15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was charged for these classes of operators because of the relatively higher skills required to run these types of machinery and the general consensus that these operators are generally twelve month (salaried) employees i.e. foremen. Farm labor may not be generally available on an hourly basis; however, an hourly charge represents a practical method for charging labor to the respective crop enterprises on a per acre basis.

Interest on operating capital (short term) was charged at a nominal rate of 5.25% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel prices for diesel was $2.44 per gallon. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

The intermediate term interest rate was charged at an historical real rate of 6.25%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

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

Overhead Costs

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

Land and Management Charges

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

Acknowledgments

Several individuals were instrumental in making this report possible. The authors are particularly indebted to Louisiana crop producers and LSU Agricultural Center Extension Service agents and Experiment Station scientists for their cooperation and assistance in providing specific production practice information, as well as farm suppliers and agribusiness firms for supplying input price information. 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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	9.0000	3.15	_________
App by Air (5 gal)	appl	6.50	5.0000	32.50	_________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	_________
FERTILIZERS					
LA Nitrogen	lb	0.41	130.0000	53.30	_________
LA Phosphate	lb	0.38	40.0000	15.20	_________
LA Potash	lb	0.27	60.0000	16.20	_________
FUNGICIDES					
Quadris	oz	1.25	10.0000	12.50	_________
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	3.40	4.0000	13.60	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Seed Conv.	lb	0.30	120.0000	36.00	_________
Seed Tmt	oz	0.30	21.6000	6.48	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	_________
CUSTOM PLANT					
LARice Air Plant SW	cwt	5.60	1.2000	6.72	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	11.33	0.8574	9.72	_________
LA Irrigation Labor					
Irrigation System 1	hour	11.33	0.2153	2.45	_________
DIESEL FUEL					
Tractors	gal	2.44	10.5417	25.73	_________
Self-Propelled	gal	2.44	2.5825	6.30	_________
Irrigation System 1	gal	2.44	32.8389	80.13	_________
REPAIR & MAINTENANCE					
Implements	acre	3.81	1.0000	3.81	_________
Tractors	acre	5.97	1.0000	5.97	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 1	acre	3.75	1.0000	3.75	_________
INTEREST ON OP. CAP.	acre	11.03	1.0000	11.03	_________

TOTAL DIRECT EXPENSES				541.51	_________
FIXED EXPENSES					
Implements	acre	9.22	1.0000	9.22	_________
Tractors	acre	40.39	1.0000	40.39	_________
Self-Propelled	acre	23.62	1.0000	23.62	_________
Irrigation System 1	acre	38.46	1.0000	38.46	_________

TOTAL FIXED EXPENSES				111.69	_________

TOTAL SPECIFIED EXPENSES				653.20	_________

Table 1.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Water Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Disk Harrow	32'	4WD 225	0.061	2.00	Nov	4.03	3.84	2.03	4.67	0.12	1.39				15.96
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.70	6.34	0.15	0.40	0.10	1.13				12.72
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.19	2.96	0.50	2.30	0.04	0.53				8.48
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.41	28.70	28.70
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.38	15.20	15.20
LA Potash	lb											60.0000	0.27	16.20	16.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Ditcher		MFWD 150	0.020	1.00	Feb	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Rice Gates	each			1.00	Feb							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Feb	0.58	0.72	0.13	0.19	0.02	0.28				1.90
LARice Water Level	24 ft	4WD 300	0.149	2.00	Feb	14.09	19.00	0.46	1.05	0.29	3.40				38.00
LARice Air Plant SW	cwt			1.00	Apr							1.2000	5.60	6.72	6.72
Rice Seed Conv.	lb											120.0000	0.30	36.00	36.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Seed Tmt	oz											21.6000	0.30	6.48	6.48
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Facet 75DF	lb											0.5000	50.00	25.00	25.00
Londax 60DF	oz											1.0000	18.08	18.08	18.08
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
2,4-D Amine 4	pt											2.5000	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	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.41	24.60	24.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.25	12.50	12.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.83	23.62			0.33	5.05				49.50
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.33	0.08	0.15	0.01	0.13				0.96
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			83.88	38.46	0.21	2.45	1.0000			124.79
TOTALS						52.53	64.01	87.69	47.68	1.40	17.22			373.04	642.17
INTEREST ON OPERATING CAPITAL															11.03
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															653.20

Table 1.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Conventional Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2020.

		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	14	43	72	101	130	159	188	217	246
85%	59.5	47	78	110	141	172	203	234	265	296
90%	63.0	81	114	147	181	214	247	280	314	347
95%	66.5	115	150	185	221	256	291	327	362	397
100%	70.0	148	186	223	260	298	335	373	410	448
105%	73.5	182	221	261	300	340	379	419	458	498
110%	77.0	215	257	299	340	382	423	465	507	548
115%	80.5	249	293	336	380	424	468	511	555	599
120%	84.0	283	328	374	420	466	512	558	603	649

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, 2020.

		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	-98	-69	-40	-11	18	47	76	105	134
85%	59.5	-64	-33	-2	29	60	91	122	154	185
90%	63.0	-31	3	36	69	102	135	169	202	235
95%	66.5	3	38	74	109	144	179	215	250	285
100%	70.0	36	74	111	149	186	224	261	298	336
105%	73.5	70	110	149	189	228	268	307	347	386
110%	77.0	104	145	187	229	270	312	353	395	437
115%	80.5	137	181	225	268	312	356	400	443	487
120%	84.0	171	217	263	308	354	400	446	492	537

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, 2020.

		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	-45	-25	-5	16	36	56	76	97	117
85%	59.5	-22	0	22	43	65	87	109	131	152
90%	63.0	2	25	48	71	95	118	141	164	188
95%	66.5	25	50	75	99	124	149	174	198	223
100%	70.0	49	75	101	127	153	180	206	232	258
105%	73.5	72	100	128	155	183	211	238	266	294
110%	77.0	96	125	154	183	212	241	271	300	329
115%	80.5	119	150	180	211	242	272	303	333	364
120%	84.0	143	175	207	239	271	303	335	367	399

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, 2020.

		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	-119	-98	-78	-58	-37	-17	3	24	44
85%	59.5	-95	-73	-52	-30	-8	14	36	57	79
90%	63.0	-72	-48	-25	-2	21	45	68	91	114
95%	66.5	-48	-23	1	26	51	76	100	125	150
100%	70.0	-25	2	28	54	80	106	133	159	185
105%	73.5	-1	27	54	82	110	137	165	193	220
110%	77.0	22	52	81	110	139	168	197	226	256
115%	80.5	46	77	107	138	168	199	230	260	291
120%	84.0	70	102	134	166	198	230	262	294	326

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	9.0000	3.15	__________
App by Air (5 gal)	appl	6.50	5.0000	32.50	__________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	__________
FERTILIZERS					
LA Nitrogen	lb	0.41	130.0000	53.30	__________
LA Phosphate	lb	0.38	40.0000	15.20	__________
LA Potash	lb	0.27	60.0000	16.20	__________
FUNGICIDES					
Quadris	oz	1.25	10.0000	12.50	__________
HERBICIDES					
Newpath 2SL	oz	3.73	8.0000	29.84	__________
Aim 2EC	oz	5.00	1.6000	8.00	__________
INSECTICIDES					
Karate Z	oz	3.40	4.0000	13.60	__________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	__________
SEED/PLANTS					
Rice Clearfield 161	lb	1.13	100.0000	113.00	__________
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	7.00	3.8000	26.60	__________
CUSTOM PLANT					
LARice Air Plant SW	cwt	5.60	1.0000	5.60	__________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	__________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	__________
LA Hired Labor					
Tractors	hour	11.33	0.8574	9.72	__________
LA Irrigation Labor					
Irrigation System 1	hour	11.33	0.2153	2.45	__________
DIESEL FUEL					
Tractors	gal	2.44	11.0156	26.89	__________
Self-Propelled	gal	2.44	2.5825	6.30	__________
Irrigation System 1	gal	2.44	32.8389	80.13	__________
REPAIR & MAINTENANCE					
Implements	acre	3.81	1.0000	3.81	__________
Tractors	acre	6.55	1.0000	6.55	__________
Self-Propelled	acre	14.53	1.0000	14.53	__________
Irrigation System 1	acre	3.75	1.0000	3.75	__________
INTEREST ON OP. CAP.	acre	12.36	1.0000	12.36	__________

TOTAL DIRECT EXPENSES				609.51	__________
FIXED EXPENSES					
Implements	acre	9.22	1.0000	9.22	__________
Tractors	acre	44.33	1.0000	44.33	__________
Self-Propelled	acre	23.62	1.0000	23.62	__________
Irrigation System 1	acre	38.46	1.0000	38.46	__________

TOTAL FIXED EXPENSES				115.63	__________

TOTAL SPECIFIED EXPENSES				725.14	__________

Table 2.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Water Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Disk Harrow	32'	4WD 300	0.061	2.00	Nov	5.77	7.78	2.03	4.67	0.12	1.39				21.64
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.70	6.34	0.15	0.40	0.10	1.13				12.72
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.19	2.96	0.50	2.30	0.04	0.53				8.48
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.41	28.70	28.70
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.38	15.20	15.20
LA Potash	lb											60.0000	0.27	16.20	16.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Ditcher		MFWD 150	0.020	1.00	Feb	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Rice Gates	each			1.00	Feb							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Feb	0.58	0.72	0.13	0.19	0.02	0.28				1.90
LARice Water Level	24 ft	4WD 300	0.149	2.00	Feb	14.09	19.00	0.46	1.05	0.29	3.40				38.00
Irrigation System 1					Mar										
LARice Air Plant SW	cwt			1.00	Apr							1.0000	5.60	5.60	5.60
Rice Clearfield 161	lb											100.0000	1.13	113.00	113.00
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Seed Tmt	oz											18.0000	0.30	5.40	5.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.73	14.92	14.92
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.73	14.92	14.92
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	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.41	24.60	24.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.25	12.50	12.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.83	23.62			0.33	5.05				49.50
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.33	0.08	0.15	0.01	0.13				0.96
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			83.88	38.46	0.21	2.45	1.0000			124.79
TOTALS						54.27	67.95	87.69	47.68	1.40	17.22			437.97	712.78
INTEREST ON OPERATING CAPITAL															12.36
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															725.14

Table 2.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Clearfield Variety, Water Planted, Conventional Tillage, Southwest Louisiana, 2020.

		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	-54	-25	4	33	62	91	120	149	178
85%	59.5	-21	10	42	73	104	135	166	197	228
90%	63.0	13	46	79	113	146	179	212	246	279
95%	66.5	47	82	117	153	188	223	259	294	329
100%	70.0	80	118	155	192	230	267	305	342	380
105%	73.5	114	153	193	232	272	311	351	390	430
110%	77.0	147	189	231	272	314	355	397	439	480
115%	80.5	181	225	268	312	356	400	443	487	531
120%	84.0	215	260	306	352	398	444	490	535	581

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, 2020.

		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	-170	-141	-112	-83	-54	-25	4	33	62
85%	59.5	-136	-105	-74	-43	-12	19	50	82	113
90%	63.0	-103	-69	-36	-3	30	63	97	130	163
95%	66.5	-69	-34	2	37	72	108	143	178	214
100%	70.0	-35	2	39	77	114	152	189	226	264
105%	73.5	-2	38	77	117	156	196	235	275	314
110%	77.0	32	73	115	157	198	240	281	323	365
115%	80.5	65	109	153	197	240	284	328	371	415
120%	84.0	99	145	191	236	282	328	374	420	466

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, 2020.

		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	-113	-93	-73	-52	-32	-12	8	29	49
85%	59.5	-90	-68	-46	-25	-3	19	41	63	84
90%	63.0	-66	-43	-20	3	27	50	73	96	120
95%	66.5	-43	-18	7	31	56	81	106	130	155
100%	70.0	-19	7	33	59	85	112	138	164	190
105%	73.5	4	32	60	87	115	143	170	198	226
110%	77.0	28	57	86	115	144	173	203	232	261
115%	80.5	51	82	112	143	174	204	235	265	296
120%	84.0	75	107	139	171	203	235	267	299	331

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, 2020.

		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	-191	-170	-150	-130	-109	-89	-69	-48	-28
85%	59.5	-167	-145	-123	-102	-80	-58	-36	-15	7
90%	63.0	-144	-120	-97	-74	-51	-27	-4	19	43
95%	66.5	-120	-95	-71	-46	-21	4	28	53	78
100%	70.0	-96	-70	-44	-18	8	34	61	87	113
105%	73.5	-73	-45	-18	10	38	65	93	121	148
110%	77.0	-49	-20	9	38	67	96	125	154	184
115%	80.5	-26	5	35	66	96	127	158	188	219
120%	84.0	-2	30	62	94	126	158	190	222	254

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

Table 3.A Estimated costs per acre,
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	7.0000	2.45	_________
App by Air (5 gal)	appl	6.50	4.0000	26.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	_________
FERTILIZERS					
LA Nitrogen	lb	0.41	130.0000	53.30	_________
LA Phosphate	lb	0.38	40.0000	15.20	_________
LA Potash	lb	0.27	60.0000	16.20	_________
FUNGICIDES					
Quadris	oz	1.25	10.0000	12.50	_________
HERBICIDES					
Command 3ME	pt	16.09	0.8000	12.87	_________
Permit 75DF	oz	14.50	1.0000	14.50	_________
INSECTICIDES					
Karate Z	oz	3.40	4.0000	13.60	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Seed Conv.	lb	0.30	90.0000	27.00	_________
Seed Tmt	oz	0.30	16.2000	4.86	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	_________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	11.33	0.7118	8.07	_________
LA Irrigation Labor					
Irrigation System 2	hour	11.33	0.2074	2.36	_________
DIESEL FUEL					
Tractors	gal	2.44	7.5765	18.50	_________
Self-Propelled	gal	2.44	2.5825	6.30	_________
Irrigation System 2	gal	2.44	35.4660	86.56	_________
REPAIR & MAINTENANCE					
Implements	acre	4.87	1.0000	4.87	_________
Tractors	acre	4.43	1.0000	4.43	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 2	acre	3.61	1.0000	3.61	_________
INTEREST ON OP. CAP.	acre	9.90	1.0000	9.90	_________

TOTAL DIRECT EXPENSES				493.19	_________
FIXED EXPENSES					
Implements	acre	11.24	1.0000	11.24	_________
Tractors	acre	29.75	1.0000	29.75	_________
Self-Propelled	acre	23.62	1.0000	23.62	_________
Irrigation System 2	acre	38.46	1.0000	38.46	_________

TOTAL FIXED EXPENSES				103.07	_________

TOTAL SPECIFIED EXPENSES				596.26	_________

Table 3.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Drill Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Disk Harrow	32'	4WD 300	0.061	2.00	Nov	5.77	7.78	2.03	4.67	0.12	1.39				21.64
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.70	6.34	0.15	0.40	0.10	1.13				12.72
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.19	2.96	0.50	2.30	0.04	0.53				8.48
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.41	28.70	28.70
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.38	15.20	15.20
LA Potash	lb											60.0000	0.27	16.20	16.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.19	2.70	1.39	2.91	0.18	1.92				11.11
Rice Seed Conv.	lb											90.0000	0.30	27.00	27.00
Seed Tmt	oz											16.2000	0.30	4.86	4.86
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.72	0.13	0.19	0.02	0.28				1.90
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.39	1.72	0.13	0.16	0.05	0.68				4.08
Command 3ME	pt											0.8000	16.09	12.87	12.87
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Permit 75DF	oz											1.0000	14.50	14.50	14.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.41	24.60	24.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.25	12.50	12.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.83	23.62			0.33	5.05				49.50
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.33	0.08	0.15	0.01	0.13				0.96
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			90.17	38.46	0.20	2.36	1.0000			130.99
TOTALS						43.76	53.37	95.04	49.70	1.34	16.33			328.16	586.36
INTEREST ON OPERATING CAPITAL															9.90
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															596.26

Table 3.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2020.

		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	62	91	120	149	178	207	236	265	294
85%	59.5	96	127	158	189	220	251	282	314	345
90%	63.0	129	163	196	229	262	295	329	362	395
95%	66.5	163	198	234	269	304	340	375	410	445
100%	70.0	196	234	271	309	346	384	421	458	496
105%	73.5	230	270	309	349	388	428	467	507	546
110%	77.0	264	305	347	389	430	472	513	555	597
115%	80.5	297	341	385	428	472	516	560	603	647
120%	84.0	331	377	423	468	514	560	606	652	697

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

Table 3.C2 Estimated Net Returns above Total Specified Costs for an Owner Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2020.

		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	179	210	242
90%	63.0	26	59	93	126	159	192	226	259	292
95%	66.5	60	95	130	166	201	236	272	307	342
100%	70.0	93	131	168	206	243	281	318	355	393
105%	73.5	127	167	206	246	285	325	364	404	443
110%	77.0	161	202	244	285	327	369	410	452	494
115%	80.5	194	238	282	325	369	413	457	500	544
120%	84.0	228	274	319	365	411	457	503	549	594

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, 2020.

						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	9	30	50	70	91	111	131	152	172
85%	59.5	33	55	76	98	120	142	164	185	207
90%	63.0	56	80	103	126	149	173	196	219	242
95%	66.5	80	105	129	154	179	204	228	253	278
100%	70.0	103	130	156	182	208	234	261	287	313
105%	73.5	127	155	182	210	238	265	293	321	348
110%	77.0	150	180	209	238	267	296	325	354	384
115%	80.5	174	205	235	266	296	327	358	388	419
120%	84.0	198	230	262	294	326	358	390	422	454

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, 2020.

						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	-55	-35	-15	6	26	46	67	87	107
85%	59.5	-32	-10	12	34	55	77	99	121	143
90%	63.0	-8	15	38	62	85	108	131	155	178
95%	66.5	15	40	65	89	114	139	164	188	213
100%	70.0	39	65	91	117	144	170	196	222	248
105%	73.5	62	90	118	145	173	201	228	256	284
110%	77.0	86	115	144	173	202	232	261	290	319
115%	80.5	109	140	171	201	232	262	293	324	354
120%	84.0	133	165	197	229	261	293	325	357	389

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	8.0000	2.80	_________
App by Air (5 gal)	appl	6.50	5.0000	32.50	_________
GIN/DRY					
LARice Dry	cwt	0.90	77.7000	69.93	_________
FERTILIZERS					
LA Nitrogen	lb	0.41	130.0000	53.30	_________
LA Phosphate	lb	0.38	40.0000	15.20	_________
LA Potash	lb	0.27	60.0000	16.20	_________
FUNGICIDES					
Quadris	oz	1.25	10.0000	12.50	_________
HERBICIDES					
Newpath 2SL	oz	3.73	8.0000	29.84	_________
Aim 2EC	oz	5.00	1.6000	8.00	_________
INSECTICIDES					
Karate Z	oz	3.40	4.0000	13.60	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Clearfield 161	lb	1.13	75.0000	84.75	_________
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	7.00	3.8000	26.60	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	_________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	11.33	0.6518	7.39	_________
LA Irrigation Labor					
Irrigation System 2	hour	11.33	0.2074	2.36	_________
DIESEL FUEL					
Tractors	gal	2.44	7.2104	17.60	_________
Self-Propelled	gal	2.44	2.5825	6.30	_________
Irrigation System 2	gal	2.44	35.4660	86.56	_________
REPAIR & MAINTENANCE					
Implements	acre	4.74	1.0000	4.74	_________
Tractors	acre	4.22	1.0000	4.22	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 2	acre	3.61	1.0000	3.61	_________
INTEREST ON OP. CAP.	acre	11.42	1.0000	11.42	_________

TOTAL DIRECT EXPENSES				567.05	_________
FIXED EXPENSES					
Implements	acre	11.08	1.0000	11.08	_________
Tractors	acre	28.44	1.0000	28.44	_________
Self-Propelled	acre	23.62	1.0000	23.62	_________
Irrigation System 2	acre	38.46	1.0000	38.46	_________

TOTAL FIXED EXPENSES				101.60	_________

TOTAL SPECIFIED EXPENSES				668.65	_________

Table 4.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Drill Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Disk Harrow	32'	4WD 300	0.061	2.00	Nov	5.77	7.78	2.03	4.67	0.12	1.39				21.64
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.70	6.34	0.15	0.40	0.10	1.13				12.72
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.19	2.96	0.50	2.30	0.04	0.53				8.48
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.41	28.70	28.70
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.38	15.20	15.20
LA Potash	lb											60.0000	0.27	16.20	16.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Irrigation System 2					Mar										
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.47	3.11	1.39	2.91	0.18	1.92				11.80
Rice Clearfield 161	lb											75.0000	1.13	84.75	84.75
Seed Tmt	oz											13.5000	0.30	4.05	4.05
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.72	0.13	0.19	0.02	0.28				1.90
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.73	14.92	14.92
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.73	14.92	14.92
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	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.41	24.60	24.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.25	12.50	12.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.83	23.62			0.33	5.05				49.50
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.33	0.08	0.15	0.01	0.13				0.96
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			90.17	38.46	0.20	2.36	1.0000			130.99
TOTALS						42.65	52.06	94.91	49.54	1.28	15.65			402.42	657.23
INTEREST ON OPERATING CAPITAL															11.42
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															668.65

Table 4.C1 Estimated Net Returns above Direct Costs for an Owner Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2020.

		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	-12	17	46	75	104	133	162	191	220
85%	59.5	22	53	84	115	146	177	209	240	271
90%	63.0	55	89	122	155	188	222	255	288	321
95%	66.5	89	124	160	195	230	266	301	336	372
100%	70.0	123	160	197	235	272	310	347	385	422
105%	73.5	156	196	235	275	314	354	393	433	472
110%	77.0	190	231	273	315	356	398	440	481	523
115%	80.5	223	267	311	355	398	442	486	529	573
120%	84.0	257	303	349	394	440	486	532	578	624

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, 2020.

		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	-113	-84	-55	-26	3	32	61	90	119
85%	59.5	-80	-49	-18	14	45	76	107	138	169
90%	63.0	-46	-13	20	53	87	120	153	186	220
95%	66.5	-13	23	58	93	129	164	199	235	270
100%	70.0	21	58	96	133	171	208	246	283	320
105%	73.5	55	94	134	173	213	252	292	331	371
110%	77.0	88	130	171	213	255	296	338	380	421
115%	80.5	122	166	209	253	297	340	384	428	472
120%	84.0	155	201	247	293	339	385	430	476	522

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, 2020.

		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	-65	-44	-24	-4	17	37	57	78	98
85%	59.5	-41	-19	3	24	46	68	90	112	133
90%	63.0	-17	6	29	52	76	99	122	145	169
95%	66.5	6	31	55	80	105	130	154	179	204
100%	70.0	30	56	82	108	134	161	187	213	239
105%	73.5	53	81	108	136	164	191	219	247	274
110%	77.0	77	106	135	164	193	222	251	281	310
115%	80.5	100	131	161	192	223	253	284	314	345
120%	84.0	124	156	188	220	252	284	316	348	380

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, 2020.

		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	-128	-107	-87	-67	-46	-26	-6	15	35
85%	59.5	-104	-82	-61	-39	-17	5	27	48	70
90%	63.0	-81	-57	-34	-11	12	36	59	82	105
95%	66.5	-57	-32	-8	17	42	67	91	116	141
100%	70.0	-34	-7	19	45	71	97	124	150	176
105%	73.5	-10	18	45	73	101	128	156	184	211
110%	77.0	13	43	72	101	130	159	188	217	247
115%	80.5	37	68	98	129	159	190	221	251	282
120%	84.0	61	93	125	157	189	221	253	285	317

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge-SW	acre	0.35	7.0000	2.45	_________
App by Air (5 gal)	appl	6.50	4.0000	26.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	88.8000	79.92	_________
FERTILIZERS					
LA Nitrogen	lb	0.41	150.0000	61.50	_________
LA Phosphate	lb	0.38	40.0000	15.20	_________
LA Potash	lb	0.27	60.0000	16.20	_________
FUNGICIDES					
Stratego	pt	60.00	0.7100	42.60	_________
HERBICIDES					
Command 3ME	pt	16.09	0.8000	12.87	_________
Permit 75DF	oz	14.50	1.0000	14.50	_________
INSECTICIDES					
Karate Z	oz	3.40	4.0000	13.60	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
LA Hybrid Rice Seed	acre	170.00	1.0000	170.00	_________
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	7.00	3.8000	26.60	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	80.0000	24.00	_________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	11.33	0.6505	7.38	_________
LA Irrigation Labor					
Irrigation System 2	hour	11.33	0.2074	2.36	_________
DIESEL FUEL					
Tractors	gal	2.44	6.6287	16.18	_________
Self-Propelled	gal	2.44	2.5825	6.30	_________
Irrigation System 2	gal	2.44	35.4660	86.56	_________
REPAIR & MAINTENANCE					
Implements	acre	3.85	1.0000	3.85	_________
Tractors	acre	3.86	1.0000	3.86	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 2	acre	3.61	1.0000	3.61	_________
INTEREST ON OP. CAP.	acre	17.09	1.0000	17.09	_________

TOTAL DIRECT EXPENSES				686.29	_________
FIXED EXPENSES					
Implements	acre	8.90	1.0000	8.90	_________
Tractors	acre	25.86	1.0000	25.86	_________
Self-Propelled	acre	23.62	1.0000	23.62	_________
Irrigation System 2	acre	38.46	1.0000	38.46	_________

TOTAL FIXED EXPENSES				96.84	_________

TOTAL SPECIFIED EXPENSES				783.13	_________

Table 5.B Estimated resource use and costs for field operations, per acre, Rice, Hybrid Variety, Drill Planted, (In Rotation), Southwest Louisiana, 2020.

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	2.88	3.89	1.01	2.33	0.06	0.70				10.81
LA Hybrid Rice Seed	acre											1.0000	170.00	170.00	170.00
Seed Tmt	oz											3.6000	0.30	1.08	1.08
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.70	6.34	0.15	0.40	0.10	1.13				12.72
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.19	2.96	0.50	2.30	0.04	0.53				8.48
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											75.0000	0.41	30.75	30.75
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.38	15.20	15.20
LA Potash	lb											60.0000	0.27	16.20	16.20
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.19	2.70	1.39	2.91	0.18	1.92				11.11
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.72	0.13	0.19	0.02	0.28				1.90
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.39	1.72	0.13	0.16	0.05	0.68				4.08
Command 3ME	pt											0.8000	16.09	12.87	12.87
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Permit 75DF	oz											1.0000	14.50	14.50	14.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											75.0000	0.41	30.75	30.75
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Stratego	pt											0.7100	60.00	42.60	42.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	20.83	23.62			0.33	5.05				49.50
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.33	0.08	0.15	0.01	0.13				0.96
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			90.17	38.46	0.20	2.36	1.0000			130.99
TOTALS						40.87	49.48	94.02	47.36	1.28	15.64			518.67	766.04
INTEREST ON OPERATING CAPITAL															17.09
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															783.13

Table 5.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Hybrid Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2020.

		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	-52	-19	15	48	81	114	147	180	214
85%	68.0	-13	22	58	93	129	165	200	236	271
90%	72.0	25	63	101	139	177	215	253	291	329
95%	76.0	64	104	144	185	225	265	306	346	386
100%	80.0	102	145	187	230	273	316	359	401	444
105%	84.0	140	185	231	276	321	366	411	456	502
110%	88.0	179	226	274	321	369	417	464	512	559
115%	92.0	217	267	317	367	417	467	517	567	617
120%	96.0	256	308	360	413	465	517	570	622	674

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, 2020.

		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	-149	-115	-82	-49	-16	17	50	84	117
85%	68.0	-110	-75	-39	-3	32	68	103	139	174
90%	72.0	-72	-34	4	42	80	118	156	194	232
95%	76.0	-33	7	47	88	128	169	209	249	290
100%	80.0	5	48	91	133	176	219	262	304	347
105%	84.0	43	89	134	179	224	269	314	360	405
110%	88.0	82	129	177	225	272	320	367	415	462
115%	92.0	120	170	220	270	320	370	420	470	520
120%	96.0	159	211	263	316	368	421	473	525	578

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, 2020.

		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	-124	-101	-78	-55	-31	-8	15	38	61
85%	68.0	-97	-73	-48	-23	2	27	52	77	102
90%	72.0	-71	-44	-17	9	36	62	89	115	142
95%	76.0	-44	-15	13	41	69	98	126	154	182
100%	80.0	-17	13	43	73	103	133	163	193	223
105%	84.0	10	42	73	105	137	168	200	231	263
110%	88.0	37	70	104	137	170	203	237	270	303
115%	92.0	64	99	134	169	204	239	274	309	344
120%	96.0	91	127	164	201	237	274	311	347	384

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, 2020.

		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	-183	-159	-136	-113	-90	-67	-43	-20	3
85%	68.0	-156	-131	-106	-81	-56	-31	-6	18	43
90%	72.0	-129	-102	-76	-49	-23	4	31	57	84
95%	76.0	-102	-74	-46	-17	11	39	67	96	124
100%	80.0	-75	-45	-15	15	45	74	104	134	164
105%	84.0	-48	-17	15	47	78	110	141	173	205
110%	88.0	-21	12	45	78	112	145	178	212	245
115%	92.0	5	40	75	110	145	180	215	250	285
120%	96.0	32	69	106	142	179	216	252	289	326

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, 2020.

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	0.41	55.0000	22.55	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	1.2000	8.40	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	23.0000	6.90	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	11.33	0.0820	0.93	_________
LA Irrigation Labor					
Irrigation System 3	hour	11.33	0.0861	0.97	_________
DIESEL FUEL					
Tractors	gal	2.44	0.6332	1.55	_________
Self-Propelled	gal	2.44	2.5825	6.30	_________
Irrigation System 3	gal	2.44	13.1355	32.06	_________
REPAIR & MAINTENANCE					
Implements	acre	0.20	1.0000	0.20	_________
Tractors	acre	0.36	1.0000	0.36	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
INTEREST ON OP. CAP.	acre	1.83	1.0000	1.83	_________

TOTAL DIRECT EXPENSES				133.43	_________
FIXED EXPENSES					
Implements	acre	0.26	1.0000	0.26	_________
Tractors	acre	2.35	1.0000	2.35	_________
Self-Propelled	acre	23.62	1.0000	23.62	_________

TOTAL FIXED EXPENSES				26.23	_________

TOTAL SPECIFIED EXPENSES				159.66	_________

Table 6.B Estimated resource use and costs for field operations, per acre, Rice, Ratoon Crop, Southwest Louisiana, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Blade-Scraper	10'	MFWD 150	1.176	0.06	Aug	1.64	2.02	0.12	0.11	0.07	0.80				4.69
Irrigation System 3					Aug										
App Fert by Air	cwt			1.00	Aug							1.2000	7.00	8.40	8.40
LA Nitrogen	lb											55.0000	0.41	22.55	22.55
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine-2	25 ft		0.300	1.00	Oct	20.83	23.62			0.33	5.05				49.50
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Oct	0.27	0.33	0.08	0.15	0.01	0.13				0.96
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			32.06		0.08	0.97	1.0000			33.03
TOTALS						22.74	25.97	32.26	0.26	0.49	6.95			69.65	157.83
INTEREST ON OPERATING CAPITAL															1.83
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															159.66

Table 6.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Ratoon Crop,
Southwest Louisiana, 2020.

		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	49	59	68	78	87	97	106	116	125
85%	19.6	60	70	80	91	101	111	121	132	142
90%	20.7	71	82	93	104	115	126	137	147	158
95%	21.9	82	94	105	117	129	140	152	163	175
100%	23.0	93	105	118	130	142	155	167	179	192
105%	24.2	104	117	130	143	156	169	182	195	208
110%	25.3	115	129	143	156	170	184	197	211	225
115%	26.5	126	141	155	169	184	198	212	227	241
120%	27.6	137	152	167	182	198	213	228	243	258

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, 2020.

		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	23	32	42	51	61	70	80	90	99
85%	19.6	34	44	54	64	75	85	95	105	116
90%	20.7	45	56	67	78	89	99	110	121	132
95%	21.9	56	67	79	91	102	114	126	137	149
100%	23.0	67	79	92	104	116	128	141	153	165
105%	24.2	78	91	104	117	130	143	156	169	182
110%	25.3	89	103	116	130	144	157	171	185	198
115%	26.5	100	114	129	143	158	172	186	201	215
120%	27.6	111	126	141	156	171	186	201	216	232

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, 2020.

						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	35	42	49	55	62	69	75	82	89
85%	19.6	43	50	57	64	72	79	86	93	100
90%	20.7	51	58	66	74	81	89	97	104	112
95%	21.9	58	67	75	83	91	99	107	115	123
100%	23.0	66	75	83	92	101	109	118	126	135
105%	24.2	74	83	92	101	110	119	128	138	147
110%	25.3	82	91	101	110	120	130	139	149	158
115%	26.5	89	99	109	120	130	140	150	160	170
120%	27.6	97	108	118	129	139	150	160	171	181

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, 2020.

						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	9	16	22	29	36	42	49	56	62
85%	19.6	17	24	31	38	45	53	60	67	74
90%	20.7	25	32	40	47	55	63	70	78	86
95%	21.9	32	40	48	57	65	73	81	89	97
100%	23.0	40	49	57	66	74	83	92	100	109
105%	24.2	48	57	66	75	84	93	102	111	120
110%	25.3	55	65	75	84	94	103	113	122	132
115%	26.5	63	73	83	93	103	113	123	134	144
120%	27.6	71	81	92	102	113	124	134	145	155

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge_NE	acre	0.25	7.0000	1.75	_________
App by Air (5 gal)	appl	6.50	4.0000	26.00	_________
GIN/DRY					
LARice Dry	cwt	0.90	78.0000	70.20	_________
FERTILIZERS					
LA Nitrogen	lb	0.41	170.0000	69.70	_________
FUNGICIDES					
Quadris	oz	1.25	10.0000	12.50	_________
HERBICIDES					
Command 3ME	pt	16.09	0.8000	12.87	_________
Permit 75DF	oz	14.50	1.0000	14.50	_________
INSECTICIDES					
Karate Z	oz	3.40	4.0000	13.60	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Seed Conv.	lb	0.30	90.0000	27.00	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.7000	25.90	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	71.0000	21.30	_________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	11.33	0.8249	9.36	_________
LA Irrigation Labor					
Irrigation System 5	hour	11.33	0.4361	4.95	_________
DIESEL FUEL					
Tractors	gal	2.44	7.9039	19.29	_________
Self-Propelled	gal	2.44	2.5825	6.30	_________
Irrigation System 5	gal	2.44	28.5331	69.63	_________
REPAIR & MAINTENANCE					
Implements	acre	6.03	1.0000	6.03	_________
Tractors	acre	4.66	1.0000	4.66	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 5	acre	2.17	1.0000	2.17	_________
INTEREST ON OP. CAP.	acre	7.51	1.0000	7.51	_________

TOTAL DIRECT EXPENSES				457.80	_________
FIXED EXPENSES					
Implements	acre	14.10	1.0000	14.10	_________
Tractors	acre	31.31	1.0000	31.31	_________
Self-Propelled	acre	23.62	1.0000	23.62	_________
Irrigation System 5	acre	14.73	1.0000	14.73	_________

TOTAL FIXED EXPENSES				83.76	_________

TOTAL SPECIFIED EXPENSES				541.56	_________

Table 7.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Drill Plant, Conventional Tillage, (In Rotation), Northeast Louisiana, 2020.

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	2.88	3.89	1.01	2.33	0.06	0.70				10.81
Ditcher		MFWD 150	0.020	2.00	Nov	0.93	1.14	0.10	0.14	0.04	0.45				2.76
Disk Harrow	28'	MFWD 190	0.070	2.00	Mar	4.18	5.64	2.10	4.82	0.14	1.59				18.33
Irrigation System 5					Mar										
Ditcher		MFWD 150	0.020	1.00	Mar	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Field Cultivate	32'	4WD 300	0.046	1.00	Mar	2.19	2.96	0.50	2.30	0.04	0.53				8.48
LARice Levee Plow	8 ft	MFWD 190	0.050	4.00	Mar	5.95	8.04	0.31	0.80	0.20	2.27				17.37
App Fert by Air	cwt			1.00	Apr							0.4000	7.00	2.80	2.80
LA Nitrogen	lb											20.0000	0.41	8.20	8.20
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.19	2.70	1.39	2.91	0.18	1.92				11.11
Rice Seed Conv.	lb											90.0000	0.30	27.00	27.00
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.72	0.13	0.19	0.02	0.28				1.90
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.39	1.72	0.13	0.16	0.05	0.68				4.08
Command 3ME	pt											0.8000	16.09	12.87	12.87
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Permit 75DF	oz											1.0000	14.50	14.50	14.50
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	May							2.0000	7.00	14.00	14.00
LA Nitrogen	lb											90.0000	0.41	36.90	36.90
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.41	24.60	24.60
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.25	12.50	12.50
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
LA Rice Combine	25 ft		0.300	1.00	Aug	20.83	23.62			0.33	5.05				49.50
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.33	0.08	0.15	0.01	0.13				0.96
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			71.80	14.73	0.43	4.95	1.0000			91.48
TOTALS						44.78	54.93	77.83	28.83	1.68	20.21			307.47	534.05
INTEREST ON OPERATING CAPITAL															7.51
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															541.56

Table 7.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Northeast Louisiana, 2020.

		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	128	159	189	220	251	282	313	344	375
85%	62.9	163	196	229	263	296	329	362	395	428
90%	66.6	199	234	269	305	340	375	411	446	481
95%	70.3	234	272	309	347	384	422	460	497	535
100%	74.0	270	310	349	389	429	469	508	548	588
105%	77.7	305	347	389	431	473	515	557	599	641
110%	81.4	341	385	429	473	518	562	606	650	694
115%	85.1	376	423	469	516	562	608	655	701	748
120%	88.8	412	461	509	558	606	655	704	752	801

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, 2020.

		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	44	75	106	137	167	198	229	260	291
85%	62.9	79	113	146	179	212	245	278	311	344
90%	66.6	115	150	186	221	256	292	327	362	398
95%	70.3	151	188	226	263	301	338	376	413	451
100%	74.0	186	226	266	305	345	385	425	464	504
105%	77.7	222	264	306	347	389	431	473	515	557
110%	81.4	257	301	345	390	434	478	522	566	611
115%	85.1	293	339	385	432	478	525	571	618	664
120%	88.8	328	377	425	474	523	571	620	669	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 7.D1 Estimated Net Returns above Direct Costs for a Tenant Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Northeast Louisiana, 2020.

						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	49	71	92	114	136	157	179	200	222
85%	62.9	74	97	120	144	167	190	213	236	259
90%	66.6	99	124	148	173	198	222	247	272	297
95%	70.3	124	150	176	203	229	255	281	308	334
100%	74.0	149	176	204	232	260	288	316	343	371
105%	77.7	173	203	232	262	291	320	350	379	409
110%	81.4	198	229	260	291	322	353	384	415	446
115%	85.1	223	256	288	321	353	386	418	451	483
120%	88.8	248	282	316	350	384	418	452	486	520

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, 2020.

						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	-20	2	23	45	67	88	110	131	153
85%	62.9	5	28	51	74	98	121	144	167	190
90%	66.6	30	55	79	104	129	153	178	203	228
95%	70.3	55	81	107	134	160	186	212	239	265
100%	74.0	80	107	135	163	191	219	247	274	302
105%	77.7	104	134	163	193	222	251	281	310	340
110%	81.4	129	160	191	222	253	284	315	346	377
115%	85.1	154	187	219	252	284	317	349	382	414
120%	88.8	179	213	247	281	315	349	383	417	451

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
LARice GPS Charge_NE	acre	0.25	8.0000	2.00	_________
App by Air (5 gal)	appl	6.50	5.0000	32.50	_________
GIN/DRY					
LARice Dry	cwt	0.90	82.1000	73.89	_________
FERTILIZERS					
LA Nitrogen	lb	0.41	170.0000	69.70	_________
FUNGICIDES					
Quadris	oz	1.25	10.0000	12.50	_________
HERBICIDES					
Newpath 2SL	oz	3.73	8.0000	29.84	_________
Aim 2EC	oz	5.00	1.6000	8.00	_________
INSECTICIDES					
Karate Z	oz	3.40	4.0000	13.60	_________
IRRIGATION SUPPLIES					
Rice Gates	each	3.65	1.0000	3.65	_________
SEED/PLANTS					
Rice Clearfield 161	lb	1.13	75.0000	84.75	_________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.7000	25.90	_________
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	74.0000	22.20	_________
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_________
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_________
LA Hired Labor					
Tractors	hour	11.33	0.7537	8.55	_________
LA Irrigation Labor					
Irrigation System 5	hour	11.33	0.4361	4.95	_________
DIESEL FUEL					
Tractors	gal	2.44	6.7604	16.50	_________
Self-Propelled	gal	2.44	2.5825	6.30	_________
Irrigation System 5	gal	2.44	28.5331	69.63	_________
REPAIR & MAINTENANCE					
Implements	acre	5.89	1.0000	5.89	_________
Tractors	acre	4.00	1.0000	4.00	_________
Self-Propelled	acre	14.53	1.0000	14.53	_________
Irrigation System 5	acre	2.17	1.0000	2.17	_________
INTEREST ON OP. CAP.	acre	9.01	1.0000	9.01	_________

TOTAL DIRECT EXPENSES				534.46	_________
FIXED EXPENSES					
Implements	acre	13.95	1.0000	13.95	_________
Tractors	acre	26.87	1.0000	26.87	_________
Self-Propelled	acre	23.62	1.0000	23.62	_________
Irrigation System 5	acre	14.73	1.0000	14.73	_________

TOTAL FIXED EXPENSES				79.17	_________

TOTAL SPECIFIED EXPENSES				613.63	_________

Table 8.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Drill Plant, Conventional Tillage, (In Rotation), Northeast Louisiana, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Disk Harrow	28'	MFWD 190	0.070	1.00	Nov	2.08	2.82	1.05	2.41	0.07	0.79				9.15
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Disk Harrow	28'	MFWD 190	0.070	2.00	Mar	4.18	5.64	2.10	4.82	0.14	1.59				18.33
Irrigation System 5					Mar										
Ditcher		MFWD 150	0.020	1.00	Mar	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Field Cultivate	32'	MFWD 190	0.046	1.00	Mar	1.39	1.88	0.50	2.30	0.04	0.53				6.60
LARice Levee Plow	8 ft	MFWD 190	0.050	4.00	Mar	5.95	8.04	0.31	0.80	0.20	2.27				17.37
App Fert by Air	cwt			1.00	Apr							0.4000	7.00	2.80	2.80
LA Nitrogen	lb											20.0000	0.41	8.20	8.20
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.19	2.70	1.39	2.91	0.18	1.92				11.11
Rice Clearfield 161	lb											75.0000	1.13	84.75	84.75
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.45	3.03	0.18	0.16	0.10	1.20				7.02
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.58	0.72	0.13	0.19	0.02	0.28				1.90
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.73	14.92	14.92
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.73	14.92	14.92
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	7.00	14.00	14.00
LA Nitrogen	lb											90.0000	0.41	36.90	36.90
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											60.0000	0.41	24.60	24.60
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Quadris	oz											10.0000	1.25	12.50	12.50
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Jul							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LARice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
LA Rice Combine	25 ft		0.300	1.00	Aug	20.83	23.62			0.33	5.05				49.50
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.27	0.33	0.08	0.15	0.01	0.13				0.96
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			71.80	14.73	0.43	4.95	1.0000			91.48
TOTALS						41.33	50.49	77.69	28.68	1.61	19.40			387.03	604.62
INTEREST ON OPERATING CAPITAL															9.01
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															613.63

Table 8.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Clearfield Variety, Drill Planted, Conventional Tillage,
Northeast Louisiana, 2020.

		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	53	83	114	145	175	206	237	267	298
85%	62.9	88	121	154	187	220	253	285	318	351
90%	66.6	124	159	194	229	264	299	334	369	405
95%	70.3	159	196	234	271	308	346	383	420	458
100%	74.0	195	234	274	313	353	392	432	472	511
105%	77.7	230	272	314	355	397	439	481	523	564
110%	81.4	266	310	354	398	442	486	530	574	618
115%	85.1	301	347	394	440	486	532	578	625	671
120%	88.8	337	385	434	482	530	579	627	676	724

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, 2020.

		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	-27	4	35	65	96	127	157	188	219
85%	62.9	9	42	75	108	140	173	206	239	272
90%	66.6	44	80	115	150	185	220	255	290	325
95%	70.3	80	117	155	192	229	267	304	341	379
100%	74.0	115	155	195	234	274	313	353	392	432
105%	77.7	151	193	235	276	318	360	402	443	485
110%	81.4	186	230	274	318	362	406	450	494	538
115%	85.1	222	268	314	361	407	453	499	546	592
120%	88.8	258	306	354	403	451	500	548	597	645

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, 2020.

		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	-25	-4	18	39	61	82	104	125	147
85%	62.9	0	23	46	69	92	115	138	161	184
90%	66.6	25	49	74	98	123	148	172	197	221
95%	70.3	49	76	102	128	154	180	206	232	259
100%	74.0	74	102	130	157	185	213	240	268	296
105%	77.7	99	128	158	187	216	245	275	304	333
110%	81.4	124	155	186	216	247	278	309	340	370
115%	85.1	149	181	214	246	278	311	343	375	408
120%	88.8	174	208	242	276	309	343	377	411	445

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, 2020.

		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	-90	-68	-47	-25	-4	18	39	61	82
85%	62.9	-65	-42	-19	4	27	50	73	97	120
90%	66.6	-40	-15	9	34	59	83	108	132	157
95%	70.3	-15	11	37	63	90	116	142	168	194
100%	74.0	10	38	65	93	121	148	176	204	231
105%	77.7	35	64	93	122	152	181	210	239	269
110%	81.4	60	90	121	152	183	214	244	275	306
115%	85.1	84	117	149	182	214	246	279	311	343
120%	88.8	109	143	177	211	245	279	313	347	381

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Underground Pipe 1	each								12.68	12.68
Gearhead 1	each								2.26	2.26
Engine 1	each								8.90	8.90
Application 1	Ac-in		12.82	0.60	0.39		0.60	14.41		14.41
Application 2	Ac-in		12.82	0.60	0.39		0.54	14.35		14.35
Application 3	Ac-in		16.03	0.75	0.49		0.60	17.87		17.87
Application 4	Ac-in		19.23	0.90	0.59		0.63	21.35		21.35
Application 5	Ac-in		19.23	0.90	0.59		0.54	21.26		21.26
Well 1	each								7.51	7.51
Pump 1	each								7.11	7.11
TOTALS		0.00	80.13	3.75	2.45	0.00	2.91	89.24	38.46	127.70

Note: Total irrigation application of 25 acre-inches.

Appendix Table 2. Rice Irrigation System 2 Costs, Drill Planted, Southwest Louisiana, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Pump 2	each								7.11	7.11
Gearhead 2	each								2.26	2.26
Engine 2	each								8.90	8.90
Application 1	Ac-in		9.62	0.40	0.26		0.45	10.73		10.73
Application 2	Ac-in		9.62	0.40	0.26		0.45	10.73		10.73
Application 3	Ac-in		16.03	0.67	0.44		0.67	17.81		17.81
Application 4	Ac-in		16.03	0.67	0.44		0.60	17.74		17.74
Application 5	Ac-in		19.23	0.80	0.52		0.63	21.18		21.18
Application 6	Ac-in		16.03	0.67	0.44		0.45	17.59		17.59
Well 2	each								7.51	7.51
Underground Pipe 2	each								12.68	12.68
TOTALS		0.00	86.56	3.61	2.36	0.00	3.25	95.78	38.46	134.24

Note: Total irrigation application of 28 acre-inches.

Appendix Table 3. Rice Irrigation System 3 Costs, Ratoon Crop, Southwest Louisiana, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Engine 1a	each									
Application 1	Ac-in		22.44		0.68		0.51	23.63		23.63
Application 2	Ac-in		9.62		0.29		0.17	10.08		10.08
TOTALS		0.00	32.06	0.00	0.97	0.00	0.68	33.71	0.00	33.71

Note: Total irrigation application of 10 acre-inches.

Appendix Table 4. Rice Irrigation System 5 Costs, Drill Planted, Northeast Louisiana, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Engine 3	each								4.37	4.37
Application 1	Ac-in		6.74	0.21	0.48		0.29	7.72		7.72
Application 2	Ac-in		6.74	0.21	0.48		0.29	7.72		7.72
Application 3	Ac-in		11.23	0.35	0.80		0.43	12.81		12.81
Application 4	Ac-in		11.23	0.35	0.80		0.38	12.76		12.76
Application 5	Ac-in		22.46	0.70	1.59		0.65	25.40		25.40
Application 6	Ac-in		11.23	0.35	0.80		0.27	12.65		12.65
Pump 3	each								3.75	3.75
Underground Pipe 3	each								2.92	2.92
Well 3	each								2.50	2.50
Gearhead 3	each								1.19	1.19
TOTALS		0.00	69.63	2.17	4.95	0.00	2.31	79.06	14.73	93.79

Note: Total irrigation application of 31 acre-inches

Appendix Table 5. Operating Inputs: Estimated Prices for 2020.

ITEM NAME	UNIT	PRICE
		dollars
CUSTOM HARVEST/HAUL		
Custom Combine Rice	acre	0.00
Haul Corn	bu	0.23
Haul Cotton	lb	0.02
Haul Rice	bu	0.35
Haul Rice (cwt)	cwt	0.25
Haul Sorghum	bu	0.25
Haul Soybeans	bu	0.27
Haul Wheat	bu	0.26
LARice Haul	cwt	0.30
CUSTOM PLANT		
Custom Spread + Seed	appl	0.00
LARice Air Plant NE	cwt	5.50
LARice Air Plant SW	cwt	5.60
Plant by Air	cwt	7.00
CUSTOM SPRAY		
App 2,4-D Helicopter	appl	0.00
App by Air (1 gal)	appl	2.50
App by Air (2 gal)	appl	4.00
App by Air (3 gal)	appl	5.00
App by Air (5 gal)	appl	6.50
App by Air (10 gal)	appl	9.00
App Furadan by Air	appl	0.00
App Ordram by Air	appl	0.00
Custom Apply	acre	7.50
Custom Terragator	acre	5.00
LARice GPS Charge-SW	acre	0.35
LARice GPS Charge_NE	acre	0.25
Spray Levees, 4whlr	acre	0.00
FERTILIZERS		
Amm Nitrate (34% N)	cwt	22.50
Amm Sulfate (21% N)	cwt	13.43
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	3.00
DAP	cwt	22.64
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	22.25
Fert 10-34-0	gal	2.59
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	13.50
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.41
LA Phosphate	lb	0.38
LA Potash	lb	0.27
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	13.62
UAN + Sulfur (28% N)	cwt	12.55
Urea, Solid (46% N)	cwt	20.22
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	1.66
Apron XL	oz	6.98
Apron XL LS	oz	5.27
Benlate 50 WP	lb	15.95
Captan 4L	pt	2.83
Captan 50 WP	lb	4.28
Crop Oil (Petroleum)	pt	3.00
Cruiser 5FS	oz	4.18
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81
Dithane Rainsheild	lb	4.08
Fungicide	lb	2.82
Gem 25 WG	oz	3.70
Manzate 75 DF	lb	4.86
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	32.81
Orbit	oz	2.75
Prevail	lb	28.50
Quadris	oz	1.25

Appendix Table 5. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Ridomil Gold PC	lb	5.30
Ridomil Gold PC Liq	oz	6.42
Rovral 4F	pt	14.90
Rovral WG	lb	0.00
Shelter	oz	8.50
Stiletto	oz	0.58
Stratego	pt	60.00
Terrachlor Flowable	pt	4.74
Terraclor 2EC	pt	1.87
Terraclor Super X EC	pt	3.95
Terraclor Super X G	lb	2.82
Tilt 3.6 EC	oz	0.72
Vitavax 200	oz	0.47
Vitavax M Flowable	oz	1.06
Vitavax RTU-Thiram	oz	0.40
Vitavax T-L	oz	0.29
GIN/DRY		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Rice	bu	0.40
Dry Rice (cwt)	cwt	0.90
Gin	lb	0.11
LARice Dry	cwt	0.90
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
LA Polado	oz	0.18
Mepex	oz	0.07
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.21
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	7.01
CottonQuik	pt	6.06
Def 6	pt	7.55
Def/Folex	pt	7.55
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.09
Ethephon 6E	pt	2.90
Finish 6	pt	9.37
Folex 6EC	pt	8.61
Ginstar EC	pt	21.44
Gramoxone Extra	pt	4.86
Gramoxone Inteon	oz	0.26
Gramoxone Max	pt	4.16
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.75
Sodium Chlorate 3L	gal	3.50
Solium Chlorate 6L	gal	5.57
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.85
2,4-D Ester	pt	4.17
AAtrex 4L	pt	2.24
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.00
Aim DF	oz	9.65
App Fert by Air	cwt	7.00
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	7.52
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	15.04
Basagran	pt	5.43
Basis Gold	lb	9.00

Appendix Table 5. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Beacon 75% WSP	oz	34.87
Beyond	oz	4.48
Bicep II Magnum	qt	11.01
Bicep II zmsgnum	qt	10.97
Bladex 4L	qt	0.00
Bladex 90DF	lb	0.00
Blazer 2L	pt	0.00
Blazer Ultra	pt	9.79
Boa	pt	3.63
Bolero 8EC	pt	7.73
Boundary	pt	8.84
Buctril 4EC	pt	17.06
Butoxone 175(2,4-DB)	pt	3.24
Butoxone 200(2,4-DB)	pt	3.92
Butyrac 175 (2,4-DB)	pt	3.29
Butyrac 200 (2,4-DB)	pt	3.49
Canopy 75%	oz	2.74
Canopy XL	oz	2.23
Caparol 4L	pt	4.59
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.60
Classic	oz	14.02
Clincher EC	oz	1.95
Cobra 2EC	oz	1.72
Command 3ME	pt	16.09
Command XTRA	pt	0.00
Conclude Ultra	pt	0.00
Conclude Ultra	pt	0.00
Conclude XACT	pt	11.32
Conclude XTRA	pt	8.32
Cornerstone	pt	2.50
Cotoran 4L	pt	5.75
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.75
Crossbow	pt	8.05
Cy-Pro 4L	qt	0.00
Cypro 90DF	lb	0.00
Delta Goal	pt	9.44
Denim 0.16 EC	pt	24.06
Detail	pt	7.99
Direx 4L	pt	3.99
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.90
Diuron 80 DF	lb	5.09
Domain 60DF	lb	12.75
DSMA 4	pt	0.90
Dual 8E	pt	0.00
Dual II Magnum	pt	14.50
Dual Magnum	pt	13.81
Duet	pt	5.39
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.39
Facet 75DF	lb	50.00
First Rate	oz	43.40
Flexstar HL	pt	4.50
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63
Fultime	pt	6.29
Fusilade DX	oz	1.06
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	2.00
Glystar Plus	pt	2.17
Goal 2XL	pt	7.77
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	3.00
Gramoxone Max	pt	3.00

Appendix Table 5. Operating inputs: estimated prices Louisiana, 2020.

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

Appendix Table 5. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.36
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	4.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	7.59
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.92
App Fert by Air(Min)	appl	7.00
Asana .66 XL	oz	0.48
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.58
Besiege	oz	1.95
Bidrin 8L	oz	1.33
Brigade EC	pt	9.00
Brigade WSB	lb	26.04
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	4.89
Comite	pt	8.45
Condor XL	pt	0.00
Confirm 2F	oz	1.86
Counter 15G	lb	4.51
Counter CR	lb	2.65
Curacron 8E	pt	10.75
Custom Apply Fert	acre	7.00
Decis 1.5EC	oz	2.84
Declare	pt	4.08
Denim 0.16EC	pt	32.63
Di-Syston 15G	lb	3.48
Di-Syston 8	pt	14.32
Diamond .83EC	pt	19.50
Dimethoate 4E	pt	5.35
Dimilin 2L	oz	2.13
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	6.03
Furadan 3G	lb	0.00
Furadan 4F	pt	9.81
Fury 1.5 EC	oz	1.30
Gaucho 480	oz	5.80
Intrepid 2F	oz	1.80
Intruder 70WP	oz	9.71
Karate Z	oz	3.40
Lannate LV	pt	9.85
Lannate SP	oz	2.42
Larvin 3.2	oz	0.63
Leverage 2.7	oz	2.17
Lorsban 15G	lb	2.35
Lorsban 4E	pt	6.10
Malathion 57EC	pt	4.23
Malathion 8E	pt	5.50
Malathion ULV	pt	4.93
Mepichlor 4.2% Liq	pt	5.91
Methyl Parathion	pt	5.79
Monitor 4	pt	16.50
Monitor 4	pt	16.50
Mustang Max	oz	1.48
Organophosphate	oz	0.00
Orthene 90S	lb	6.00
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00
Penncap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	14.13
Pounce 3.2 EC	oz	0.34

Appendix Table 5. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Prevathon	oz	1.32
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	13.23
Spintor 2SC	oz	4.93
Steward	pt	39.51
Surfactant	pt	1.75
Synthetic Pyrethroid	oz	0.00
Temik 15G Grit	lb	4.00
Thimet 20-G	lb	3.65
Thionex 3EC	pt	4.17
Thionex 50W	lb	10.45
Tracer	oz	9.73
Trimax	oz	1.85
Vydate C-LV	oz	0.93
Warrior Z	oz	1.80
Warrior ZT	oz	2.57
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.25
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LARice Insurance	Dollar	1.00
LARice Misc. Overhd	dollar	1.00
LARice Property Tax	dollar	1.00
Shops Bldg & Equip.	Dol	6.55
SERVICE FEE		
Utilities	Dol	1.00
SEED/PLANTS		
Corn Seed Bt	thous	2.60
Corn Seed BtRR	thous	3.63
Corn Seed Conv.	thous	2.89
Corn Seed RR	thous	3.43
Corn Seed VT3	thous	3.91
Corn Seed VT3Pro	thous	3.91
Cotton Seed BG/RR	thous	0.62
Cotton Seed BGII/RRF	thous	2.61
Cotton Seed Bt	thous	2.60
Cotton Seed BtRR	thous	2.60
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
Cotton Seed WS	thous	0.49
Cotton Seed WS/RR	thous	0.00
Cotton Seed WS/RRF	thous	0.59
Rice Clearfield 161	lb	1.13
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.90
Rice Seed CF(Levees)	lb	0.95
Rice Seed Conv.	lb	0.30
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	3.94
Sorghum Hybrid Sudax	lb	1.20
Sorghum NonConcept	lb	1.18
Soybean Seed LL	lb	1.16
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	1.30
Soybean Seed Stack	lb	1.28
Wheat Seed Private	lb	0.24
Wheat Seed Public	lb	0.00

Appendix Table 5. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
SERVICE FEE		
Cotton Checkoff	bale	2.56
Cotton Storage	bale	25.00
Crop Consultant	acre	7.00
Custom Spread(Truc	appl	4.50
Digital Ag Fee	acre	8.50
Insect Scouting	acre	7.00
Lime (Spread)	ton	38.00
Rice Consultant	acre	8.00
RRF Cotton Tech Fee	cap/ac	48.25
SC Treating Charge	acre	0.00
Survey & Mark Levees	acre	4.50
Survey & Mark Levees	acre	4.50
TECHNOLOGY FEE		
BG Cot Tech Fee	thous	0.28
BG Cot Tech Fee	cap/ac	19.50
BG II Cot Tech Fee	thous	0.76
BG II Cot Tech Fee	cap/ac	31.91
BG II/RR Tech Fee	thous	1.49
BG II/RR Tech Fee	cap/ac	62.69
BGII/RRF Cot Tech Fe	thous	1.49
BGII/RRF Cot Tech Fe	cap/ac	62.69
Eradication Fee	acre	6.00
Eradication Zone 1	acre	6.00
Eradication Zone 1A	acre	6.00
Eradication Zone 1B	acre	6.00
Eradication Zone 2	acre	6.00
Eradication Zone 3	acre	6.00
Eradication Zone 4	acre	6.00
RR Cotton Tech Fee	thous	1.04
RR Cotton Tech Fee	cap/ac	43.66
RR Cotton Tech Fee	thous	1.04
RR Cotton Tech Fee	cap/ac	43.66
RRF Cotton Tech Fee	thous	1.04

Appendix Table 6. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2020.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	----------------$/hour----------------					
Combine (170-199 hp)	190hp	0	300	8	9.78	13.51	23.86	0.00	37.37	0.00	37.37
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	30.13	16.82	60.47	71.40	131.87
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	31.40	0.00	44.91	0.00	44.91
Combine (250-299 hp)	275hp	352,000	300	8	14.15	13.51	34.52	36.66	84.70	155.57	240.27
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	37.03	22.73	73.28	96.44	169.72
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	36.42	0.00	49.93	0.00	49.93
Combine (300-349 hp)	325hp	383,000	300	8	16.73	13.51	40.82	39.89	94.22	169.27	263.50
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	40.18	0.00	53.69	0.00	53.69
Combine (350-379 hp)	370hp	390,000	300	8	19.04	13.51	46.45	40.62	100.59	172.37	272.96
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	45.84	0.00	59.35	0.00	59.35
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	19.71	26.56	59.78	112.70	172.49
SC Tractor 93 MDR	93	46,683	600	10	4.79	11.33	11.68	2.72	25.74	8.59	34.33
SC Tractpr 68 MDR	68	27,049	600	10	3.50	11.33	8.54	1.57	21.44	4.98	26.42
Tractor(40-59hp)Cab	2WD 50	30,400	600	8	2.57	11.33	6.27	0.95	18.55	6.21	24.77
Tractor(40-59hp)Cab	MFWD 50	40,300	600	8	2.57	11.33	6.27	1.25	18.86	8.23	27.10
Tractor(40-59hp)RB	2WD 50	21,600	600	8	2.57	11.33	6.27	0.67	18.28	4.41	22.69
Tractor(40-59hp)RB	MFWD 50	27,500	600	8	2.57	11.33	6.27	0.85	18.46	5.61	24.08
Tractor(60-89hp)CAB	2WD 75	52,800	600	8	3.86	11.33	9.41	1.65	22.39	10.78	33.18
Tractor(60-89hp)CAB	MFWD 75	62,500	600	8	3.86	11.33	9.41	1.95	22.70	12.76	35.47
Tractor(60-89hp)RB	2WD 75	38,600	600	8	3.86	11.33	9.41	1.20	21.95	7.88	29.84
Tractor(60-89hp)RB	MFWD 75	40,100	600	8	3.86	11.33	9.41	1.25	22.00	8.19	30.19
Tractor(90-119hp)CB	2WD 105	69,300	600	8	5.40	11.33	13.18	2.16	26.68	14.15	40.84
Tractor(90-119hp)CB	MFWD 105	88,100	600	8	5.40	11.33	13.18	2.75	27.27	17.99	45.26
Tractor(90-119hp)RB	2WD 105	62,300	600	8	5.40	11.33	13.18	1.94	26.46	12.72	39.19
Tractor(90-119hp)RB	MFWD 105	69,700	600	8	5.40	11.33	13.18	2.17	26.69	14.23	40.93
Tractor(120-139hp)CB	2WD 130	110,000	600	8	6.69	11.33	16.32	3.43	31.09	22.47	53.56
Tractor(120-139hp)CB	MFWD 130	125,000	600	8	6.69	11.33	16.32	3.90	31.56	25.53	57.10
Tractor(140-159hp)CB	2WD 150	108,000	600	8	7.72	11.33	18.83	3.37	33.54	22.06	55.60
Tractor(140-159hp)CB	MFWD 150	140,000	600	8	7.72	11.33	18.83	4.37	34.54	28.60	63.14
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	11.33	21.35	4.87	37.55	33.17	70.72
Tractor(160-179hp)CB	MFWD 170	155,000	600	8	8.75	11.33	21.35	4.84	37.52	32.95	70.48
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	11.33	22.60	4.45	38.39	30.34	68.74
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	11.33	23.86	4.46	39.66	30.40	70.06
Tractor(180-199hp)CB	MFWD 190	189,000	600	8	9.77	11.33	23.86	5.90	41.09	40.18	81.28
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	11.33	28.25	4.59	44.18	31.27	75.45
Tractor(200-249hp)CB	MFWD 225	227,000	600	8	11.58	11.33	28.25	7.09	46.68	48.27	94.95
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	11.33	28.25	8.65	48.24	58.90	107.14
Tractor(250-349hp)CB	4WD 300	298,000	600	8	15.44	11.33	37.67	9.31	58.32	63.36	121.68
Tractor(250-349hp)CB	Track 300	327,000	600	8	15.44	11.33	37.67	10.21	59.22	69.53	128.76
Tractor(350-449hp)CB	4WD 400	342,000	600	8	20.58	11.33	50.23	10.68	72.25	72.72	144.97
Tractor(350-449hp)CB	Track 400	426,000	600	8	20.58	11.33	50.23	13.31	74.87	90.58	165.46
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	11.33	59.65	8.74	79.73	59.51	139.24

Appendix Table 7. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	----------------$/acre---------------					
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.70	0.50	0.43	3.63	2.23	5.87
Butt Levee (Backhoe)	70 HP	73,000	150	8	5.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker-1st-BB	2R38"157hp	144,912	200	8	8.08	0.519	11.72	10.24	11.76	33.73	49.92	83.66
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	3.88	5.60	8.54	18.03	36.25	54.29
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.38	10.27	13.40	31.07	56.86	87.93
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.38	14.38	17.90	39.67	75.96	115.64
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.81	8.25	10.79	24.86	45.80	70.66
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.81	11.32	14.13	31.28	59.98	91.26
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.91	8.21	11.66	25.79	49.48	75.27
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.67	6.50	9.21	20.39	39.09	59.49
Cotton Picker-1st-BB	6R30"325hp	465,000	200	8	18.27	0.218	4.92	9.72	15.85	30.51	67.28	97.79
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.88	7.68	12.51	24.08	53.11	77.20
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.72	10.24	11.76	33.73	49.92	83.66
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	3.88	7.57	8.67	20.13	36.79	56.93
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.38	10.27	13.39	31.06	56.82	87.88
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.38	13.36	15.91	36.66	67.51	104.18
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	5.81	8.25	10.79	24.86	45.80	70.66
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	5.81	11.32	14.13	31.28	59.98	91.26
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	5.91	8.38	11.67	25.97	49.53	75.51
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.67	6.50	9.40	20.58	39.90	60.48
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	4.92	8.90	15.85	29.69	67.28	96.97
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	3.88	7.57	12.51	23.98	53.11	77.10
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.67	9.96	28.57	42.28	70.86
Cotton Picker-2nd-BB	4R2x1260hp	322,187	200	8	18.01	0.145	3.29	6.41	7.34	17.05	31.17	48.23
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.70	11.34	26.31	48.13	74.44
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.25	11.31	13.47	31.05	57.19	88.25
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.99	9.14	21.06	38.79	59.85
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.59	11.97	26.49	50.81	77.30
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.10	9.88	22.00	41.96	63.96
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.96	5.51	7.80	17.27	33.11	50.39
Cotton Picker-2nd-BB	6R30"325hp	465,000	200	8	18.01	0.184	4.17	8.12	13.43	25.72	56.99	82.72
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.41	10.60	20.31	44.99	65.30
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.67	9.96	28.57	42.28	70.86
Cotton Picker-2nd-Tr	4R2X1260hp	322,137	200	8	18.01	0.145	3.29	6.41	7.34	17.05	31.16	48.22
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.70	11.34	26.31	48.13	74.44
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.25	11.31	13.47	31.05	57.19	88.25
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.99	9.14	21.06	38.79	59.85
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.59	11.97	26.49	50.81	77.30
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.10	9.88	22.00	41.96	63.96
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.96	5.51	7.96	17.43	33.79	51.23
Cotton Picker-2nd-Tr	6R30"325hp	465,000	200	8	16.72	0.184	4.17	7.54	13.43	25.15	56.99	82.14
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.41	10.60	20.31	44.99	65.30
LA Pickup Truck	1/2 ton	28,000	800	5	2.50	1.000	11.33	6.25	3.15	20.73	7.74	28.47
LA Rice Combine	25 ft	181,500	300	10	8.60	0.300	5.05	6.30	14.53	25.89	23.61	49.50
LA Rice Combine-2	25 ft	181,500	300	10	8.60	0.300	5.05	6.30	14.53	25.89	23.61	49.50
LARice Combine Med	20 ft	165,000	300	10	7.10	0.210	3.53	3.63	9.24	16.41	15.01	31.43
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.69	0.24	0.06	0.99	0.44	1.44
SC Billet Harvester	6 ft	319,000	750	10	12.00	0.700	11.78	20.49	29.77	62.05	38.25	100.30
SC Harvester 1Rw	6 ft	126,500	400	12	6.80	0.875	14.72	14.51	23.05	52.30	31.84	.14
SC Harvester 2Rw	12 ft	231,000	400	12	8.00	0.388	6.53	7.57	18.67	32.77	25.78	58.56
SC Loader 1Rw	6 ft	93,500	425	10	5.10	0.598	7.46	7.45	9.61	24.53	17.12	41.65
SC Loader 2Rw	12 ft	165,000	425	10	7.00	0.300	3.74	5.12	8.51	17.38	15.15	32.53
SC Transloader		33,000	120	12	4.70	0.250	3.11	2.86	4.12	10.10	7.91	18.01
SC Truck&Trailer	30 Ton	49,500	400	10	7.00	1.000	12.46	17.08	8.66	38.20	16.08	54.29
Sprayer(300-450Gal)	47'	0	350	8	5.40	0.022	0.40	0.29	0.00	0.70	0.00	0.70
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.24	0.09	0.65	0.68	1.34
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.18	0.07	0.49	0.51	1.00
Sprayer(600-750Gal)	60'	216,000	350	8	10.29	0.017	0.31	0.44	0.20	0.96	1.44	2.40
Sprayer(600-825Gal)	80'	215,000	350	8	10.29	0.013	0.23	0.33	0.15	0.72	1.07	1.79
Sprayer(600-825Gal)	90'	316,000	350	8	10.29	0.011	0.21	0.29	0.19	0.70	1.40	2.11
Sprayer(1000-1400Gal	90'	316,000	350	8	14.15	0.014	0.25	0.48	0.23	0.98	1.68	2.66
Sprayer(1200PlusGal)	120'	376,000	350	8	15.44	0.008	0.15	0.33	0.17	0.66	1.25	1.92

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	---------------------$/acre---------------------							
Blade-Box	6'	2WD 130	1,221	200	20	0.020	0.22	0.32	0.01	0.06	0.63	0.01	0.44	1.09
Blade-Box	10'	2WD 50	3,700	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	14'	2WD 50	6,270	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'	2WD 50	1,213	200	20	1.176	13.32	7.38	0.67	0.79	22.18	0.60	5.19	27.98
Blade-Scraper	10'	2WD 50	3,550	200	20	1.176	13.32	7.38	1.98	0.79	23.49	1.77	5.19	30.46
Blade-Scraper	14'	2WD 50	6,860	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy-1st Pick	2R38"157hp	MFWD 190	30,500	200	10	0.519	5.88	12.40	3.96	3.06	25.31	8.81	20.88	55.01
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	1.95	4.11	1.31	1.01	8.39	2.92	6.92	18.24
Boll Buggy-1st pick	4R30"255hp	MFWD 190	30,500	200	10	0.327	3.70	7.81	2.49	1.93	15.95	5.55	13.15	34.66
Boll Buggy-1st pick	4R30"325hp	MFWD 190	30,500	200	10	0.327	3.70	7.81	2.49	1.93	15.95	5.55	13.15	34.66
Boll Buggy-1st pick	4R38"255hp	MFWD 190	30,500	200	10	0.257	2.92	6.15	1.96	1.52	12.56	4.37	10.36	27.29
Boll Buggy-1st pick	4R38"325hp	MFWD 190	30,500	200	10	0.257	2.92	6.15	1.96	1.52	12.56	4.37	10.36	27.29
Boll Buggy-1st pick	5R30"255hp	MFWD 190	30,500	200	10	0.261	2.96	6.24	1.99	1.54	12.76	4.44	10.52	27.72
Boll Buggy-1st pick	5R38"255hp	MFWD 190	30,500	200	10	0.207	2.34	4.94	1.57	1.22	10.09	3.51	8.32	21.93
Boll Buggy-1st pick	6R30"325hp	MFWD 190	30,500	200	10	0.218	2.47	5.20	1.66	1.28	10.63	3.70	8.77	23.10
Boll Buggy-1st pick	6R38"325hp	MFWD 190	30,500	200	10	0.172	1.95	4.11	1.31	1.01	8.39	2.92	6.92	18.24
Boll Buggy-2nd pick	2R38"157hp	MFWD 190	30,500	200	10	0.440	4.98	10.50	3.35	2.59	21.44	7.46	17.69	46.60
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.65	3.48	1.11	0.86	7.11	2.47	5.86	15.45
Boll Buggy-2nd pick	4R30"255hp	MFWD 190	30,500	200	10	0.277	3.14	6.61	2.11	1.63	13.51	4.70	11.14	29.36
Boll Buggy-2nd pick	4R30"325hp	MFWD 190	30,500	200	10	0.277	3.14	6.61	2.11	1.63	13.51	4.70	11.14	29.36
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.47	5.21	1.66	1.28	10.63	3.70	8.77	23.11
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.47	5.21	1.66	1.28	10.63	3.70	8.77	23.11
Boll Buggy-2nd pick	5R30"255hp	MFWD 190	30,500	200	10	0.221	2.51	5.29	1.69	1.31	10.80	3.76	8.91	23.48
Boll Buggy-2nd pick	5R38"255hp	MFWD 190	30,500	200	10	0.175	1.98	4.18	1.33	1.03	8.55	2.97	7.05	18.58
Boll Buggy-2nd pick	6R30"325hp	MFWD 190	30,500	200	10	0.184	2.09	4.41	1.40	1.09	9.00	3.13	7.42	19.57
Boll Buggy-2nd pick	6R38"325hp	MFWD 190	30,500	200	10	0.145	1.65	3.48	1.11	0.86	7.11	2.47	5.86	15.45
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.85	4.74	1.92	1.10	10.61	4.27	7.20	22.09
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.31	3.85	1.56	0.89	8.62	3.47	5.85	17.95
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	1.95	3.24	1.31	0.75	7.26	2.92	4.92	15.11
Boll Buggy-Stripper	4R30"2X1Br	MFWD 150	30,500	200	10	0.218	2.47	4.11	1.66	0.95	9.20	3.70	6.24	19.14
Boll Buggy-Stripper	4R30"Brush	MFWD 150	30,500	200	10	0.327	3.70	6.16	2.49	1.43	13.80	5.55	9.36	28.72
Boll Buggy-Stripper	4R38"2X1Br	MFWD 150	30,500	200	10	0.172	1.95	3.24	1.31	0.75	7.26	2.92	4.92	15.11
Boll Buggy-Stripper	4R38"Brush	MFWD 150	30,500	200	10	0.257	2.92	4.85	1.96	1.12	10.87	4.37	7.37	22.61
Boll Buggy-Stripper	5R30"Brush	MFWD 150	30,500	200	10	0.261	2.96	4.93	1.99	1.14	11.04	4.44	7.49	22.97
Boll Buggy-Stripper	5R38"Brush	MFWD 150	30,500	200	10	0.207	2.34	3.90	1.57	0.90	8.73	3.51	5.92	18.17
Boll Buggy-Stripper	6R30"Brush	MFWD 150	30,500	200	10	0.218	2.47	4.11	1.66	0.95	9.20	3.70	6.24	19.14
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.30	1.88	0.93	0.39	4.53	1.79	2.59	8.92
Chisel Plow(Folding)	24'	MFWD 190	42,200	150	12	0.076	0.86	1.82	1.16	0.45	4.30	2.22	3.07	9.60
Chisel Plow(Folding)	32'	MFWD 225	54,200	150	12	0.057	0.65	1.63	1.13	0.40	3.82	2.15	2.78	8.77
Chisel Plow(Folding)	42'	MFWD 225	65,100	150	12	0.044	0.49	1.24	1.03	0.31	3.08	1.97	2.12	7.18
Chisel Plow(Rigid)	15'	2WD 130	14,700	150	12	0.123	1.39	2.01	0.65	0.42	4.48	1.24	2.76	8.50
Chisel Plow(Rigid)	24'	MFWD 190	11,700	150	12	0.077	0.87	1.83	0.32	0.45	3.49	0.62	3.09	7.20
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	0.99	2.10	0.21	0.39	3.70	0.40	2.67	6.79
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.77	1.93	0.34	0.48	3.54	0.66	3.30	7.51
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	0.99	2.10	0.61	0.39	4.10	1.16	2.67	7.94
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.77	1.93	0.59	0.48	3.78	1.13	3.30	8.22
Corn Grain Cart 8R30	500 bu	MFWD 190	25,700	200	12	0.031	0.36	0.76	0.22	0.18	1.53	0.42	1.28	3.24
Corn Grain Cart 8R40	700bu	MFWD 190	37,300	200	12	0.025	0.28	0.59	0.25	0.14	1.28	0.48	1.00	2.76
Cult & Post	4R-38	2WD 105	21,600	150	10	0.173	2.94	2.28	0.99	0.33	6.56	2.86	2.20	11.63
Cult & Post	6R-30	MFWD 150	25,900	150	10	0.146	4.98	2.76	1.01	0.64	9.40	2.91	4.19	16.50
Cult & Post	6R-38	MFWD 150	26,600	150	10	0.115	1.96	2.18	0.82	0.50	5.47	2.36	3.31	11.14
Cult & Post	8R-30	MFWD 190	31,500	150	10	0.110	1.86	2.62	0.92	0.64	6.06	2.65	4.42	13.14
Cult & Post	8R-38	MFWD 190	34,700	150	10	0.086	1.47	2.07	0.80	0.51	4.87	2.31	3.49	10.67
Cult & Post	8R-38 2x1	MFWD 190	47,900	150	10	0.057	0.98	1.38	0.73	0.34	3.44	2.12	2.32	7.89
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.49	2.48	0.75	0.62	5.35	2.15	4.24	11.76
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	1.10	1.83	0.00	0.46	3.40	0.00	3.14	6.54
Cult & Post	12R-30	MFWD 225	52,900	150	10	0.073	1.24	2.07	1.03	0.52	4.87	2.97	3.53	11.38
Cult & Post	12R-38	MFWD 225	53,200	150	10	0.057	0.98	1.63	0.82	0.41	3.85	2.36	2.79	9.00
Cultipacker	12'	2WD 130	6,910	300	12	0.124	1.40	2.03	0.20	0.42	4.07	0.30	2.79	7.17
Cultipacker	20'	MFWD 150	17,000	300	12	0.074	0.84	1.40	0.29	0.32	2.87	0.44	2.13	5.46
Cultivate	4R-38	2WD 105	14,200	150	10	0.162	1.83	2.14	0.61	0.31	4.91	1.76	2.06	8.74
Cultivate	6R-30	MFWD 150	18,500	150	10	0.137	1.55	2.59	0.67	0.60	5.42	1.94	3.93	11.31
Cultivate	6R-38	MFWD 150	19,300	150	10	0.108	1.22	2.04	0.55	0.47	4.30	1.60	3.10	9.01
Cultivate	8R-30	MFWD 190	24,200	150	10	0.103	1.16	2.46	0.66	0.60	4.90	1.91	4.14	10.96
Cultivate	8R-38	MFWD 190	27,300	150	10	0.081	0.92	1.94	0.59	0.48	3.94	1.70	3.27	8.92
Cultivate	8R-38 2x1	MFWD 190	39,300	150	10	0.054	0.61	1.29	0.56	0.32	2.79	1.63	2.18	6.61
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.93	2.33	0.62	0.58	4.47	1.78	3.98	10.23
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.73	1.83	0.00	0.46	3.03	0.00	3.14	6.17
Cultivate	12R-30	MFWD 225	45,600	150	10	0.068	0.77	1.94	0.83	0.48	4.04	2.40	3.31	9.76
Cultivate	12R-38	MFWD 225	44,600	150	10	0.054	0.61	1.53	0.64	0.38	3.17	1.85	2.62	7.65
Disk & Incorporate	14'	2WD 130	33,200	200	10	0.149	2.54	2.44	1.49	0.51	6.99	2.85	3.36	13.21
Disk & Incorporate	24'	MFWD 190	51,800	200	10	0.087	1.48	2.08	1.35	0.51	5.43	2.59	3.50	11.54
Disk & Incorporate	32'	4WD 225	66,900	200	10	0.068	1.16	1.94	1.37	0.31	4.80	2.64	2.15	9.60
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.83	1.38	0.44	0.34	3.02	0.86	2.37	6.25
Disk Bed (Hipper)	4R-38	MFWD 150	9,200	160	10	0.147	1.67	2.78	0.33	0.64	5.43	0.97	4.22	10.63
Disk Bed (Hipper)	6R-30	MFWD 170	15,100	160	10	0.125	1.41	2.66	0.47	0.60	5.16	1.35	4.11	10.63
Disk Bed (Hipper)	6R-38	MFWD 170	15,200	160	10	0.098	1.11	2.10	0.37	0.47	4.07	1.07	3.25	8.40
Disk Bed (Hipper)	8R-30	MFWD 190	19,500	160	10	0.093	1.06	2.23	0.45	0.55	4.31	1.31	3.76	9.39
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	37,400	160	10	0.049	0.55	1.17	0.46	0.29	2.48	1.32	1.98	5.79
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.84	2.11	0.37	0.53	3.87	1.07	3.62	8.56
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.67	1.67	0.34	0.41	3.10	0.98	2.85	6.93
Disk Bed (Hipper)	12R-30	MFWD 225	34,500	160	10	0.062	0.70	1.76	0.53	0.44	3.45	1.54	3.01	8.02

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	-----$/acre-----							
Disk Bed (Hipper)	12R-38	MFWD 225	37,400	160	10	0.049	0.55	1.39	0.46	0.35	2.76	1.32	2.38	6.47
Disk Bed (Hipper)Fld	8R-38	MFWD 190	27,200	160	10	0.074	0.83	1.76	0.50	0.43	3.54	1.44	2.97	7.97
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	21,000	160	10	0.074	0.83	1.76	0.38	0.43	3.43	1.11	2.97	7.53
Disk Bed w/roller	8R-30	2WD 190	28,300	160	10	0.093	1.06	2.23	0.66	0.41	4.38	1.90	2.85	9.13
Disk Bed w/roller	12R-30	MFWD 225	55,200	160	10	0.062	0.70	1.76	0.86	0.44	3.78	2.47	3.01	9.27
Disk Harrow	14'	2WD 130	25,900	180	10	0.140	1.58	2.29	1.00	0.48	5.37	2.32	3.15	10.84
Disk Harrow	24'	MFWD 190	44,400	180	10	0.081	0.92	1.95	1.00	0.48	4.37	2.32	3.28	9.98
Disk Harrow	28'	MFWD 225	53,800	180	10	0.070	0.79	1.98	1.04	0.49	4.32	2.41	3.38	10.12
Disk Harrow	32'		59,500	180	10	0.061	0.82	0.00	1.01	0.00	0.00	2.33	0.00	0.00
Disk Harrow	42'	MFWD 225	98,700	180	10	0.046	0.52	1.32	1.28	0.33	3.46	2.94	2.25	8.67
Ditcher		2WD 130	6,100	200	10	0.020	0.22	0.32	0.04	0.06	0.67	0.07	0.44	1.19
Ditcher (1m/160a)		2WD 130	6,100	200	10	0.009	0.10	0.15	0.02	0.03	0.31	0.03	0.21	0.55
Fert Appl (Liquid)	4R-38	MFWD 150	12,900	150	8	0.154	2.62	2.91	1.33	0.67	7.54	1.63	4.42	13.60
Fert Appl (Liquid)	6R-30	MFWD 170	18,500	150	8	0.130	2.22	2.79	1.61	0.63	7.27	1.97	4.31	13.56
Fert Appl (Liquid)	6R-38	MFWD 170	18,500	150	8	0.103	1.75	2.20	1.27	0.50	5.73	1.56	3.40	10.71
Fert Appl (Liquid)	8R-30	MFWD 190	18,400	150	8	0.098	1.66	2.34	1.20	0.58	5.79	1.47	3.94	11.22
Fert Appl (Liquid)	8R-38	MFWD 190	19,000	150	8	0.077	1.31	1.85	0.98	0.45	4.61	1.20	3.12	8.94
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	21,600	150	8	0.051	0.87	1.23	0.74	0.30	3.16	0.91	2.07	6.15
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.33	2.22	0.97	0.55	5.08	1.19	3.79	10.07
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	1.05	1.75	0.83	0.43	4.08	1.02	2.99	8.10
Fert Appl (Liquid)	12R-30	MFWD 225	23,100	150	8	0.078	1.33	2.22	1.20	0.55	5.32	1.48	3.79	10.59
Fert Appl (Liquid)	12R-38	MFWD 225	21,600	150	8	0.051	0.87	1.46	0.74	0.36	3.45	0.91	2.49	6.85
Field Cult & Inc	12'	2WD 150	19,600	100	10	0.132	2.24	2.49	0.64	0.44	5.83	2.97	2.91	11.72
Field Cult & Inc	24'	MFWD 170	30,600	100	10	0.066	1.12	1.41	0.50	0.32	3.36	2.32	2.17	7.86
Field Cult & Inc	32'	MFWD 190	42,900	100	10	0.049	0.84	1.18	0.53	0.29	2.85	2.44	1.99	7.28
Field Cult & Inc	42'	MFWD 225	58,400	100	10	0.037	0.64	1.06	0.55	0.26	2.52	2.53	1.82	6.88
Field Cultivate	12'	2WD 150	12,300	100	10	0.124	1.40	2.34	0.38	0.41	4.55	1.75	2.74	9.06
Field Cultivate	24'	MFWD 170	30,600	100	10	0.062	0.70	1.32	0.47	0.30	2.81	2.18	2.05	7.05
Field Cultivate	32'	MFWD 190	42,900	100	10	0.046	0.52	1.11	0.50	0.27	2.41	2.30	1.87	6.59
Field Cultivate	42'	MFWD 225	58,400	100	10	0.035	0.40	1.00	0.51	0.25	2.17	2.38	1.71	6.28
Field Cultivate	50'	MFWD 225	67,800	100	10	0.029	0.33	0.84	0.50	0.21	1.90	2.32	1.44	5.66
Gate Installer		2WD 130	2,960	10	10	0.020	0.45	0.32	0.17	0.06	1.02	0.65	0.44	2.13
Grain Drill	12'	2WD 130	27,500	150	8	0.157	3.56	2.56	1.62	0.54	8.28	3.38	3.53	15.20
Grain Drill	15'	MFWD 150	33,100	150	8	0.125	2.84	2.36	1.56	0.54	7.32	3.26	3.59	14.18
Grain Drill	20'	MFWD 170	39,400	150	8	0.094	2.13	2.01	1.39	0.45	5.99	2.91	3.10	12.01
Grain Drill	24'	MFWD 190	65,600	150	8	0.078	1.78	1.87	1.93	0.46	6.05	4.03	3.15	13.24
Grain Drill	30'	MFWD 225	63,800	150	8	0.062	1.42	1.77	1.50	0.44	5.15	3.14	3.03	11.32
Grain Drill & Pre	12'	2WD 130	34,800	150	8	0.169	3.83	2.76	2.20	0.58	9.38	4.61	3.80	17.80
Grain Drill & Pre	15'	MFWD 150	40,400	150	8	0.135	3.06	2.55	2.05	0.59	8.26	4.28	3.87	16.42
Grain Drill & Pre	20'	MFWD 170	46,700	150	8	0.101	2.30	2.16	1.77	0.49	6.73	3.71	3.34	13.80
Grain Drill & Pre	24'	MFWD 190	73,000	150	8	0.084	1.91	2.01	2.31	0.49	6.75	4.84	3.40	14.99
Grain Drill & Pre	30'	MFWD 225	71,200	150	8	0.067	1.53	1.91	1.80	0.48	5.73	3.77	3.26	12.77
Harrow	13'	2WD 130	4,360	200	10	0.119	1.35	1.95	0.18	0.41	3.89	0.29	2.68	6.88
Harrow	21'	2WD 150	6,750	200	10	0.073	0.83	1.39	0.17	0.24	2.65	0.28	1.63	4.57
Harrow	40'	MFWD 190	20,200	200	10	0.038	0.43	0.92	0.27	0.22	1.86	0.45	1.56	3.88
Harrow	47'	MFWD 190	23,700	200	10	0.033	0.37	0.78	0.27	0.19	1.63	0.45	1.32	3.41
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.71	6.06	1.26	3.38	13.42	2.06	14.36	29.85
Header - Corn	6R30"	240hp	50,800	300	8	0.170	2.30	5.13	2.16	2.86	12.45	3.53	12.15	28.15
Header - Corn	6R38"	240hp	51,400	300	8	0.134	1.81	4.05	1.72	2.26	9.85	2.82	9.59	22.27
Header - Corn	8R-30	240hp	62,000	300	8	0.127	1.72	3.84	1.97	2.14	9.70	3.23	9.11	22.05
Header - Corn	8R-38	275hp	67,000	300	8	0.100	1.36	3.48	1.69	3.70	10.24	2.76	15.70	28.71
Header - Corn	12R-20	275hp	102,000	300	8	0.127	1.72	4.40	3.25	4.68	14.07	5.32	19.86	39.26
Header - Corn	12R-30	275hp	103,000	300	8	0.085	1.15	2.93	2.19	3.12	9.40	3.58	13.24	26.23
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	3.89	8.69	4.64	4.85	22.08	7.59	20.59	50.27
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.42	7.64	4.08	4.27	19.43	6.67	18.12	44.24
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.85	7.30	3.91	7.75	21.83	6.40	32.91	61.15
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.37	7.53	4.02	4.20	19.14	6.57	17.85	43.57
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.97	6.62	3.54	3.70	16.84	5.78	15.70	38.34
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.47	6.32	3.39	6.72	18.92	5.55	28.52	52.99
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.30	5.13	0.00	2.86	10.29	0.00	12.15	22.45
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.91	4.27	0.72	2.38	9.30	1.17	10.13	20.61
Header - Soybean	22' Flex	240hp	33,500	300	8	0.116	1.56	3.49	0.97	1.95	7.99	1.58	8.28	17.87
Header - Soybean	25' Flex	275hp	35,900	300	8	0.102	1.38	3.52	0.91	3.74	9.57	1.49	15.89	26.96
Header - Soybean	30' Flex	275hp	42,400	300	8	0.085	1.15	2.93	0.90	3.12	8.11	1.47	13.24	22.83
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.91	4.27	0.67	2.38	9.25	1.10	10.13	20.49
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.56	3.49	0.57	1.95	7.59	0.93	8.28	16.82
Header Wheat/Sorghum	25' Rigid	240hp	21,000	300	8	0.102	1.38	3.07	0.53	1.71	6.71	0.87	7.29	14.88
Header Wheat/Sorghum	30' Rigid	275hp	25,700	300	8	0.085	1.15	2.93	0.54	3.12	7.75	0.89	13.24	21.89
Header-Cotton Bcast	13'	173hp	21,300	200	8	0.251	6.25	4.96	1.00	6.68	18.91	3.28	28.38	50.58
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	5.08	4.03	0.91	5.43	15.46	2.98	23.06	41.50
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	4.28	3.39	0.84	4.57	13.10	2.76	19.42	35.28
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	8.13	6.45	1.25	8.69	24.54	4.11	36.89	65.55
Header-Cotton-Brush	4R30"2X1	173hp	34,400	200	8	0.218	5.42	4.30	1.40	5.79	16.92	4.60	24.59	46.12
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	6.40	5.08	1.64	6.84	19.97	5.37	29.05	54.40
Header-Cotton-Brush	4R38"2X1	173hp	36,000	200	8	0.172	4.28	3.39	1.16	4.57	13.41	3.80	19.42	36.63

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2020.

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

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2020.

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

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2020.

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

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2020.

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