

Projected Costs and Returns Crop Enterprise Budgets for Rice Production in Louisiana, 2018

Michael A. Deliberto, Brian M. Hilbun, and Michael E. Salassi



**Farm Management Research & Extension
Department of Agricultural Economics & Agribusiness
Louisiana State University Agricultural Center
Agricultural Economics Information Report Series No. 329 - January 2018**

January 2018

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PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR RICE PRODUCTION IN LOUISIANA, 2018

by

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Introduction

This publication presents estimates of projected costs and returns for rice production in Louisiana for the 2018 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 2018 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 2018 planning budgets. Machinery and other input cost data are presented in the Appendix.

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

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

computational procedure is widely accepted for estimating projected commodity costs and returns information for upcoming crop year planning purposes.

Expected Crop Yields and Market Prices

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

Direct Production Costs

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

Hired labor was charged at \$10.38 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at \$15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was charged for these classes of operators because of

the relatively higher skills required to run these types of machinery and the general consensus that these operators are generally twelve month (salaried) employees i.e. foremen. Farm labor may not be generally available on an hourly basis; however, an hourly charge represents a practical method for charging labor to the respective crop enterprises on a per acre basis.

Interest on operating capital (short term) was charged at a nominal rate of 4.75% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel prices for diesel was \$2.28 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 5.00%. 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, 2018.

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	0.34	130.0000	44.20	_____
LA Phosphate	lb	0.40	40.0000	16.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
FUNGICIDES					
Quadris	oz	1.56	10.0000	15.60	_____
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	0.28	120.0000	33.60	_____
Seed Tmt	oz	0.30	21.6000	6.48	_____
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	_____
CUSTOM PLANT					
LARice Air Plant SW	cwt	5.60	1.2000	6.72	_____
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_____
LA Hired Labor					
Tractors	hour	10.38	0.8574	8.90	_____
LA Irrigation Labor					
Irrigation System 1	hour	10.38	0.2153	2.25	_____
DIESEL FUEL					
Tractors	gal	2.28	10.5417	24.02	_____
Self-Propelled	gal	2.28	2.5825	5.89	_____
Irrigation System 1	gal	2.28	32.8389	74.87	_____
REPAIR & MAINTENANCE					
Implements	acre	3.56	1.0000	3.56	_____
Tractors	acre	5.71	1.0000	5.71	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
Irrigation System 1	acre	3.75	1.0000	3.75	_____
INTEREST ON OP. CAP.	acre	9.48	1.0000	9.48	_____

TOTAL DIRECT EXPENSES				513.03	_____
FIXED EXPENSES					
Implements	acre	7.82	1.0000	7.82	_____
Tractors	acre	35.70	1.0000	35.70	_____
Self-Propelled	acre	20.08	1.0000	20.08	_____
Irrigation System 1	acre	34.33	1.0000	34.33	_____

TOTAL FIXED EXPENSES				97.93	_____

TOTAL SPECIFIED EXPENSES				610.96	_____

Table 1.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Water Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	32'	4WD 225	0.061	2.00	Nov	3.80	3.55	1.84	3.88	0.12	1.27				14.34
LRice Levee Flow	8 ft	4WD 300	0.050	2.00	Nov	4.41	5.61	0.15	0.37	0.10	1.04				11.58
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Ditcher		MFWD 150	0.020	1.00	Nov	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.06	2.62	0.45	1.90	0.04	0.48				7.51
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.34	23.80	23.80
LRice 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	0.40	16.00	16.00
LA Potash	lb											60.0000	0.26	15.60	15.60
LRice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Ditcher		MFWD 150	0.020	1.00	Feb	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Rice Gates	each			1.00	Feb							1.0000	3.65	3.65	3.65
LRice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Feb	0.54	0.62	0.13	0.18	0.02	0.26				1.73
LRice Water Level	24 ft	4WD 300	0.149	2.00	Feb	13.23	16.82	0.46	0.96	0.29	3.11				34.58
LRice Air Plant SW	cwt			1.00	Apr										6.72
Rice Seed Conv.	lb											120.0000	0.28	33.60	33.60
LRice 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
LRice 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
LRice 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
LRice 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	0.34	20.40	20.40
LRice 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	1.56	15.60	15.60
LRice 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
LRice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	19.10	20.08			0.33	5.05				44.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.25	0.28	0.07	0.13	0.01	0.12				0.85
LRice Haul	cwt			1.00	Aug							70.0000	0.30	21.00	21.00
LRice Dry	cwt			1.00	Aug							77.7000	0.90	69.93	69.93
Irrigation System 1	acre				Mar			78.62	34.33	0.21	2.25	1.0000			115.20
TOTALS						48.83	55.78	82.18	42.15	1.40	16.20			356.34	601.48
INTEREST ON OPERATING CAPITAL															9.48
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															610.96

Table 1.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Conventional Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	20	47	75	103	130	158	186	213	241
85%	59.5	52	82	111	141	171	200	230	259	289
90%	63.0	84	116	148	179	211	242	274	306	337
95%	66.5	116	150	184	217	251	285	318	352	386
100%	70.0	149	184	220	256	291	327	363	398	434
105%	73.5	181	219	256	294	332	369	407	445	482
110%	77.0	213	253	292	332	372	412	451	491	531
115%	80.5	245	287	329	370	412	454	496	537	579
120%	84.0	277	321	365	409	452	496	540	584	627

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-78	-50	-23	5	32	60	88	115	143
85%	59.5	-46	-16	13	43	73	102	132	162	191
90%	63.0	-14	18	50	81	113	145	176	208	239
95%	66.5	19	52	86	120	153	187	220	254	288
100%	70.0	51	86	122	158	193	229	265	300	336
105%	73.5	83	121	158	196	234	271	309	347	384
110%	77.0	115	155	195	234	274	314	353	393	433
115%	80.5	147	189	231	272	314	356	398	439	481
120%	84.0	180	223	267	311	354	398	442	486	529

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield (cwt.)	Rice Market Price (\$/cwt)								
		\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-38	-19	1	20	39	59	78	97	117
85%	59.5	-15	5	26	47	68	88	109	130	151
90%	63.0	7	29	52	74	96	118	140	162	184
95%	66.5	30	53	77	100	124	148	171	195	218
100%	70.0	52	77	102	127	152	177	202	227	252
105%	73.5	75	101	128	154	180	207	233	259	286
110%	77.0	97	125	153	181	209	236	264	292	320
115%	80.5	120	149	178	208	237	266	295	324	353
120%	84.0	142	173	204	234	265	295	326	357	387

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield (cwt.)	Rice Market Price (\$/cwt)								
		\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-101	-82	-63	-43	-24	-5	15	34	53
85%	59.5	-79	-58	-37	-17	4	25	46	66	87
90%	63.0	-56	-34	-12	10	32	54	77	99	121
95%	66.5	-34	-10	13	37	60	84	108	131	155
100%	70.0	-11	14	39	64	89	114	139	163	188
105%	73.5	11	38	64	90	117	143	170	196	222
110%	77.0	34	62	89	117	145	173	201	228	256
115%	80.5	56	86	115	144	173	202	231	261	290
120%	84.0	79	109	140	171	201	232	262	293	324

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, 2018.

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	0.34	130.0000	44.20	_____
LA Phosphate	lb	0.40	40.0000	16.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
FUNGICIDES					
Quadris	oz	1.56	10.0000	15.60	_____
HERBICIDES					
Newpath 2SL	oz	3.83	8.0000	30.64	_____
Aim 2EC	oz	5.16	1.6000	8.26	_____
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	1.03	100.0000	103.00	_____
Seed Tmt	oz	0.30	18.0000	5.40	_____
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	_____
CUSTOM PLANT					
LARice Air Plant SW	cwt	5.60	1.0000	5.60	_____
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_____
LA Hired Labor					
Tractors	hour	10.38	0.8574	8.90	_____
LA Irrigation Labor					
Irrigation System 1	hour	10.38	0.2153	2.25	_____
DIESEL FUEL					
Tractors	gal	2.28	11.0156	25.10	_____
Self-Propelled	gal	2.28	2.5825	5.89	_____
Irrigation System 1	gal	2.28	32.8389	74.87	_____
REPAIR & MAINTENANCE					
Implements	acre	3.56	1.0000	3.56	_____
Tractors	acre	6.24	1.0000	6.24	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
Irrigation System 1	acre	3.75	1.0000	3.75	_____
INTEREST ON OP. CAP.	acre	10.56	1.0000	10.56	_____
TOTAL DIRECT EXPENSES				574.11	_____
FIXED EXPENSES					
Implements	acre	7.82	1.0000	7.82	_____
Tractors	acre	39.03	1.0000	39.03	_____
Self-Propelled	acre	20.08	1.0000	20.08	_____
Irrigation System 1	acre	34.33	1.0000	34.33	_____
TOTAL FIXED EXPENSES				101.26	_____
TOTAL SPECIFIED EXPENSES				675.37	_____

Table 2.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Water Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	32'	4WD 300	0.061	2.00	Nov	5.41	6.88	1.84	3.88	0.12	1.27				19.28
LARice Levee Flow	8 ft	4WD 300	0.050	2.00	Nov	4.41	5.61	0.15	0.37	0.10	1.04				11.58
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Ditcher		MFWD 150	0.020	1.00	Nov	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.06	2.62	0.45	1.90	0.04	0.48				7.51
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.34	23.80	23.80
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	0.40	16.00	16.00
LA Potash	lb											60.0000	0.26	15.60	15.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Ditcher		MFWD 150	0.020	1.00	Feb	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	2.29	2.61	0.18	0.14	0.10	1.10				6.32
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	0.54	0.62	0.13	0.18	0.02	0.26				1.73
LARice Water Level	24 ft	4WD 300	0.149	2.00	Feb	13.23	16.82	0.46	0.96	0.29	3.11				34.58
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	1.03	103.00	103.00
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	3.83	15.32	15.32
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
Aim 2EC	oz											1.6000	5.16	8.26	8.26
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	0.34	20.40	20.40
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	1.56	15.60	15.60
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	19.10	20.08			0.33	5.05				44.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.25	0.28	0.07	0.13	0.01	0.12				0.85
LARice Haul	cwt			1.00	Aug							70.0000	0.30	21.00	21.00
LARice Dry	cwt			1.00	Aug							77.7000	0.90	69.93	69.93
Irrigation System 1	acre				Mar			78.62	34.33	0.21	2.25	1.0000			115.20
TOTALS						50.44	59.11	82.18	42.15	1.40	16.20			414.73	664.81
INTEREST ON OPERATING CAPITAL															10.56
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															675.37

Table 2.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Clearfield Variety, Water Planted, Conventional Tillage,
Southwest Louisiana, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-41	-14	14	42	69	97	125	152	180
85%	59.5	-9	21	50	80	110	139	169	198	228
90%	63.0	23	55	86	118	150	181	213	245	276
95%	66.5	55	89	123	156	190	224	257	291	325
100%	70.0	88	123	159	195	230	266	302	337	373
105%	73.5	120	157	195	233	271	308	346	384	421
110%	77.0	152	192	231	271	311	350	390	430	470
115%	80.5	184	226	268	309	351	393	434	476	518
120%	84.0	216	260	304	348	391	435	479	522	566

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-142	-115	-87	-60	-32	-4	23	51	78
85%	59.5	-110	-81	-51	-21	8	38	68	97	127
90%	63.0	-78	-46	-15	17	49	80	112	143	175
95%	66.5	-46	-12	21	55	89	122	156	190	223
100%	70.0	-14	22	58	93	129	165	200	236	272
105%	73.5	19	56	94	132	169	207	245	282	320
110%	77.0	51	90	130	170	210	249	289	329	368
115%	80.5	83	125	166	208	250	291	333	375	417
120%	84.0	115	159	203	246	290	334	377	421	465

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield (cwt.)	Rice Market Price (\$/cwt)								
		\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-99	-80	-60	-41	-22	-2	17	36	56
85%	59.5	-76	-56	-35	-14	7	27	48	69	90
90%	63.0	-54	-32	-10	13	35	57	79	101	123
95%	66.5	-31	-8	16	39	63	86	110	134	157
100%	70.0	-9	16	41	66	91	116	141	166	191
105%	73.5	14	40	67	93	119	146	172	198	225
110%	77.0	36	64	92	120	147	175	203	231	259
115%	80.5	59	88	117	146	176	205	234	263	292
120%	84.0	81	112	143	173	204	234	265	296	326

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield (cwt.)	Rice Market Price (\$/cwt)								
		\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-166	-147	-127	-108	-89	-69	-50	-31	-11
85%	59.5	-143	-123	-102	-81	-60	-40	-19	2	23
90%	63.0	-121	-99	-76	-54	-32	-10	12	34	56
95%	66.5	-98	-75	-51	-28	-4	20	43	67	90
100%	70.0	-76	-51	-26	-1	24	49	74	99	124
105%	73.5	-53	-27	0	26	52	79	105	131	158
110%	77.0	-31	-3	25	53	81	108	136	164	192
115%	80.5	-8	21	50	79	109	138	167	196	225
120%	84.0	14	45	76	106	137	167	198	229	259

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, 2018.

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	0.34	130.0000	44.20	_____
LA Phosphate	lb	0.40	40.0000	16.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
FUNGICIDES					
Quadris	oz	1.56	10.0000	15.60	_____
HERBICIDES					
Command 3ME	pt	18.50	0.8000	14.80	_____
Permit 75DF	oz	18.50	1.0000	18.50	_____
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	0.28	90.0000	25.20	_____
Seed Tmt	oz	0.30	16.2000	4.86	_____
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	_____
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	_____
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_____
LA Hired Labor					
Tractors	hour	10.38	0.7118	7.39	_____
LA Irrigation Labor					
Irrigation System 2	hour	10.38	0.2074	2.16	_____
DIESEL FUEL					
Tractors	gal	2.28	7.5765	17.26	_____
Self-Propelled	gal	2.28	2.5825	5.89	_____
Irrigation System 2	gal	2.28	35.4660	80.84	_____
REPAIR & MAINTENANCE					
Implements	acre	4.55	1.0000	4.55	_____
Tractors	acre	4.21	1.0000	4.21	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
Irrigation System 2	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	8.54	1.0000	8.54	_____
TOTAL DIRECT EXPENSES				471.55	_____
FIXED EXPENSES					
Implements	acre	9.53	1.0000	9.53	_____
Tractors	acre	26.01	1.0000	26.01	_____
Self-Propelled	acre	20.08	1.0000	20.08	_____
Irrigation System 2	acre	34.33	1.0000	34.33	_____
TOTAL FIXED EXPENSES				89.95	_____
TOTAL SPECIFIED EXPENSES				561.50	_____

Table 3.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Drill Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	32'	4WD 300	0.061	2.00	Nov	5.41	6.88	1.84	3.88	0.12	1.27				19.28
LRice Levee Flow	8 ft	4WD 300	0.050	2.00	Nov	4.41	5.61	0.15	0.37	0.10	1.04				11.58
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Ditcher		MFWD 150	0.020	1.00	Nov	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.06	2.62	0.45	1.90	0.04	0.48				7.51
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.34	23.80	23.80
LRice 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	0.40	16.00	16.00
LA Potash	lb											60.0000	0.26	15.60	15.60
LRice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.05	2.32	1.32	2.52	0.18	1.83				10.04
Rice Seed Conv.	lb											90.0000	0.28	25.20	25.20
Seed Tmt	oz											16.2000	0.30	4.86	4.86
Ditcher		MFWD 150	0.020	1.00	Apr	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LRice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.54	0.62	0.13	0.18	0.02	0.26				1.73
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.31	1.48	0.13	0.15	0.05	0.62				3.69
Command 3ME	pt											0.8000	18.50	14.80	14.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LRice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Permit 75DF	oz											1.0000	18.50	18.50	18.50
LRice 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	0.34	20.40	20.40
LRice 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	1.56	15.60	15.60
LRice 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
LRice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
LA Rice Combine	25 ft		0.300	1.00	Aug	19.10	20.08			0.33	5.05				44.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.25	0.28	0.07	0.13	0.01	0.12				0.85
LRice Haul	cwt			1.00	Aug							70.0000	0.30	21.00	21.00
LRice Dry	cwt			1.00	Aug							77.7000	0.90	69.93	69.93
Irrigation System 2	acre				Mar			84.45	34.33	0.20	2.16	1.0000			120.94
TOTALS						40.57	46.09	89.00	43.86	1.34	15.45			317.99	552.96
INTEREST ON OPERATING CAPITAL															8.54
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															561.50

Table 3.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	61	89	117	144	172	199	227	255	282
85%	59.5	94	123	153	182	212	242	271	301	331
90%	63.0	126	157	189	221	252	284	316	347	379
95%	66.5	158	192	225	259	293	326	360	394	427
100%	70.0	190	226	261	297	333	368	404	440	476
105%	73.5	222	260	298	335	373	411	448	486	524
110%	77.0	255	294	334	374	413	453	493	532	572
115%	80.5	287	328	370	412	454	495	537	579	620
120%	84.0	319	363	406	450	494	538	581	625	669

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-29	-1	27	54	82	109	137	165	192
85%	59.5	4	33	63	92	122	152	181	211	241
90%	63.0	36	67	99	131	162	194	226	257	289
95%	66.5	68	102	135	169	203	236	270	304	337
100%	70.0	100	136	172	207	243	279	314	350	386
105%	73.5	132	170	208	245	283	321	358	396	434
110%	77.0	165	204	244	284	323	363	403	442	482
115%	80.5	197	238	280	322	364	405	447	489	530
120%	84.0	229	273	316	360	404	448	491	535	579

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	10	29	48	68	87	106	126	145	164
85%	59.5	32	53	74	94	115	136	157	177	198
90%	63.0	55	77	99	121	143	165	188	210	232
95%	66.5	77	101	124	148	171	195	219	242	266
100%	70.0	100	125	150	175	200	225	250	275	300
105%	73.5	122	149	175	201	228	254	281	307	333
110%	77.0	145	173	200	228	256	284	312	339	367
115%	80.5	167	197	226	255	284	313	343	372	401
120%	84.0	190	221	251	282	312	343	374	404	435

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-46	-27	-7	12	31	51	70	89	109
85%	59.5	-23	-3	18	39	59	80	101	122	142
90%	63.0	-1	21	43	66	88	110	132	154	176
95%	66.5	22	45	69	92	116	139	163	187	210
100%	70.0	44	69	94	119	144	169	194	219	244
105%	73.5	67	93	119	146	172	199	225	251	278
110%	77.0	89	117	145	173	200	228	256	284	312
115%	80.5	112	141	170	199	229	258	287	316	345
120%	84.0	134	165	195	226	257	287	318	349	379

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, 2018.

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	0.34	130.0000	44.20	_____
LA Phosphate	lb	0.40	40.0000	16.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
FUNGICIDES					
Quadris	oz	1.56	10.0000	15.60	_____
HERBICIDES					
Newpath 2SL	oz	3.83	8.0000	30.64	_____
Aim 2EC	oz	5.16	1.6000	8.26	_____
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	1.03	75.0000	77.25	_____
Seed Tmt	oz	0.30	13.5000	4.05	_____
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	_____
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	70.0000	21.00	_____
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_____
LA Hired Labor					
Tractors	hour	10.38	0.6518	6.77	_____
LA Irrigation Labor					
Irrigation System 2	hour	10.38	0.2074	2.16	_____
DIESEL FUEL					
Tractors	gal	2.28	7.2104	16.42	_____
Self-Propelled	gal	2.28	2.5825	5.89	_____
Irrigation System 2	gal	2.28	35.4660	80.84	_____
REPAIR & MAINTENANCE					
Implements	acre	4.42	1.0000	4.42	_____
Tractors	acre	4.02	1.0000	4.02	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
Irrigation System 2	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	9.73	1.0000	9.73	_____
TOTAL DIRECT EXPENSES				534.65	_____
FIXED EXPENSES					
Implements	acre	9.38	1.0000	9.38	_____
Tractors	acre	25.05	1.0000	25.05	_____
Self-Propelled	acre	20.08	1.0000	20.08	_____
Irrigation System 2	acre	34.33	1.0000	34.33	_____
TOTAL FIXED EXPENSES				88.84	_____
TOTAL SPECIFIED EXPENSES				623.49	_____

Table 4.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Drill Plant, Conventional Tillage, (In Rotation), Southwest Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	32'	4WD 300	0.061	2.00	Nov	5.41	6.88	1.84	3.88	0.12	1.27				19.28
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.41	5.61	0.15	0.37	0.10	1.04				11.58
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Ditcher		MFWD 150	0.020	1.00	Nov	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.06	2.62	0.45	1.90	0.04	0.48				7.51
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											70.0000	0.34	23.80	23.80
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	0.40	16.00	16.00
LA Potash	lb											60.0000	0.26	15.60	15.60
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	2.33	2.84	1.32	2.52	0.18	1.83				10.84
Rice Clearfield 161	lb											75.0000	1.03	77.25	77.25
Seed Tmt	oz											13.5000	0.30	4.05	4.05
Ditcher		MFWD 150	0.020	1.00	Apr	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LARice Backhoe-Rxmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.54	0.62	0.13	0.18	0.02	0.26				1.73
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
LARice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	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	3.83	15.32	15.32
Aim 2EC	oz											1.6000	5.16	8.26	8.26
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	0.34	20.40	20.40
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	1.56	15.60	15.60
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	19.10	20.08			0.33	5.05				44.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.25	0.28	0.07	0.13	0.01	0.12				0.85
LARice Haul	cwt			1.00	Aug							70.0000	0.30	21.00	21.00
LARice Dry	cwt			1.00	Aug							77.7000	0.90	69.93	69.93
Irrigation System 2	acre				Mar			84.45	34.33	0.20	2.16	1.0000			120.94
TOTALS						39.54	45.13	88.87	43.71	1.28	14.83			381.68	613.76
INTEREST ON OPERATING CAPITAL															9.73
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															623.49

Table 4.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Clearfield Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-2	26	53	81	109	136	164	192	219
85%	59.5	30	60	90	119	149	179	208	238	268
90%	63.0	63	94	126	158	189	221	253	284	316
95%	66.5	95	128	162	196	229	263	297	330	364
100%	70.0	127	163	198	234	270	305	341	377	412
105%	73.5	159	197	235	272	310	348	385	423	461
110%	77.0	191	231	271	311	350	390	430	469	509
115%	80.5	224	265	307	349	390	432	474	516	557
120%	84.0	256	300	343	387	431	474	518	562	606

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-91	-63	-35	-8	20	48	75	103	130
85%	59.5	-58	-29	1	30	60	90	119	149	179
90%	63.0	-26	5	37	69	100	132	164	195	227
95%	66.5	6	40	73	107	141	174	208	242	275
100%	70.0	38	74	110	145	181	217	252	288	324
105%	73.5	70	108	146	183	221	259	296	334	372
110%	77.0	103	142	182	222	261	301	341	380	420
115%	80.5	135	177	218	260	302	343	385	427	468
120%	84.0	167	211	254	298	342	386	429	473	517

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield (cwt.)	Rice Market Price (\$/cwt)								
		\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-54	-34	-15	4	24	43	62	82	101
85%	59.5	-31	-10	11	31	52	73	93	114	135
90%	63.0	-8	14	36	58	80	102	124	147	169
95%	66.5	14	38	61	85	108	132	155	179	203
100%	70.0	37	62	87	112	137	161	186	211	236
105%	73.5	59	86	112	138	165	191	217	244	270
110%	77.0	82	110	137	165	193	221	248	276	304
115%	80.5	104	133	163	192	221	250	279	309	338
120%	84.0	127	157	188	219	249	280	310	341	372

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield (cwt.)	Rice Market Price (\$/cwt)								
		\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	56.0	-108	-89	-69	-50	-31	-11	8	27	47
85%	59.5	-85	-65	-44	-23	-3	18	39	60	80
90%	63.0	-63	-41	-19	4	26	48	70	92	114
95%	66.5	-40	-17	7	30	54	77	101	125	148
100%	70.0	-18	7	32	57	82	107	132	157	182
105%	73.5	5	31	57	84	110	137	163	189	216
110%	77.0	27	55	83	111	138	166	194	222	250
115%	80.5	50	79	108	137	167	196	225	254	283
120%	84.0	72	103	134	164	195	225	256	287	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, 2018.

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	0.34	150.0000	51.00	_____
LA Phosphate	lb	0.40	40.0000	16.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
FUNGICIDES					
Stratego	pt	25.00	0.7100	17.75	_____
HERBICIDES					
Command 3ME	pt	18.50	0.8000	14.80	_____
Permit 75DF	oz	18.50	1.0000	18.50	_____
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	160.00	1.0000	160.00	_____
Seed Tmt	oz	0.30	3.6000	1.08	_____
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.8000	26.60	_____
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	80.0000	24.00	_____
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_____
LA Hired Labor					
Tractors	hour	10.38	0.6505	6.76	_____
LA Irrigation Labor					
Irrigation System 2	hour	10.38	0.2074	2.16	_____
DIESEL FUEL					
Tractors	gal	2.28	6.6287	15.10	_____
Self-Propelled	gal	2.28	2.5825	5.89	_____
Irrigation System 2	gal	2.28	35.4660	80.84	_____
REPAIR & MAINTENANCE					
Implements	acre	3.63	1.0000	3.63	_____
Tractors	acre	3.67	1.0000	3.67	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
Irrigation System 2	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	14.33	1.0000	14.33	_____
TOTAL DIRECT EXPENSES				626.05	_____
FIXED EXPENSES					
Implements	acre	7.59	1.0000	7.59	_____
Tractors	acre	22.57	1.0000	22.57	_____
Self-Propelled	acre	20.08	1.0000	20.08	_____
Irrigation System 2	acre	34.33	1.0000	34.33	_____
TOTAL FIXED EXPENSES				84.57	_____
TOTAL SPECIFIED EXPENSES				710.62	_____

Table 5.B Estimated resource use and costs for field operations, per acre, Rice, Hybrid Variety, Drill Planted, (In Rotation), Southwest Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	32'	4WD 300	0.061	1.00	Nov	2.71	3.44	0.92	1.94	0.06	0.64				9.65
LA Hybrid Rice Seed	acre											1.0000	160.00	160.00	160.00
Seed Tmt	oz											3.6000	0.30	1.08	1.08
LARice Levee Plow	8 ft	4WD 300	0.050	2.00	Nov	4.41	5.61	0.15	0.37	0.10	1.04				11.58
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Ditcher		MFWD 150	0.020	1.00	Nov	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Field Cultivate	32'	4WD 300	0.046	1.00	Feb	2.06	2.62	0.45	1.90	0.04	0.48				7.51
App Fert by Air	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
LA Nitrogen	lb											75.0000	0.34	25.50	25.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
LA Phosphate	lb											40.0000	0.40	16.00	16.00
LA Potash	lb											60.0000	0.26	15.60	15.60
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.05	2.32	1.32	2.52	0.18	1.83				10.04
Ditcher		MFWD 150	0.020	1.00	Apr	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.29	2.61	0.18	0.14	0.10	1.10				6.32
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	0.54	0.62	0.13	0.18	0.02	0.26				1.73
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.31	1.48	0.13	0.15	0.05	0.62				3.69
Command 3ME	pt											0.8000	18.50	14.80	14.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	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	18.50	18.50	18.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App Fert by Air	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
LA Nitrogen	lb											75.0000	0.34	25.50	25.50
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Stratego	pt											0.7100	25.00	17.75	17.75
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	19.10	20.08			0.33	5.05				44.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.25	0.28	0.07	0.13	0.01	0.12				0.85
LARice Haul	cwt			1.00	Aug										
LARice Dry	cwt			1.00	Aug										
Irrigation System 2	acre				Mar			84.45	34.33	0.20	2.16	1.0000	0.90	79.92	79.92
TOTALS						37.87	42.65	88.08	41.92	1.28	14.82			470.95	696.29
INTEREST ON OPERATING CAPITAL															14.33
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															710.62

Table 5.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Hybrid Variety, Drill Planted, Conventional Tillage,
Southwest Louisiana, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	64.0	-17	15	46	78	109	141	172	204	236
85%	68.0	20	54	87	121	155	189	223	257	291
90%	72.0	57	93	129	165	201	237	274	310	346
95%	76.0	93	132	170	209	247	286	324	363	401
100%	80.0	130	171	212	252	293	334	375	416	456
105%	84.0	167	210	253	296	339	382	425	468	512
110%	88.0	204	249	294	340	385	431	476	521	567
115%	92.0	241	288	336	384	431	479	527	574	622
120%	96.0	277	327	377	427	477	527	577	627	677

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	64.0	-102	-70	-38	-7	25	56	88	119	151
85%	68.0	-65	-31	3	37	71	105	138	172	206
90%	72.0	-28	8	44	80	117	153	189	225	261
95%	76.0	9	47	86	124	163	201	240	278	317
100%	80.0	46	86	127	168	209	249	290	331	372
105%	84.0	82	125	169	212	255	298	341	384	427
110%	88.0	119	165	210	255	301	346	391	437	482
115%	92.0	156	204	251	299	347	394	442	490	537
120%	96.0	193	243	293	343	393	443	493	543	593

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield (cwt.)	Rice Market Price (\$/cwt)								
		\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	64.0	-88	-66	-44	-21	1	23	45	67	89
85%	68.0	-62	-38	-15	9	33	57	80	104	128
90%	72.0	-36	-11	14	40	65	90	116	141	166
95%	76.0	-10	16	43	70	97	124	151	178	205
100%	80.0	15	44	72	101	129	158	187	215	244
105%	84.0	41	71	101	132	162	192	222	252	282
110%	88.0	67	99	130	162	194	226	257	289	321
115%	92.0	93	126	159	193	226	259	293	326	360
120%	96.0	118	153	188	223	258	293	328	363	398

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield (cwt.)	Rice Market Price (\$/cwt)								
		\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	64.0	-138	-116	-94	-72	-50	-27	-5	17	39
85%	68.0	-112	-89	-65	-41	-17	6	30	54	77
90%	72.0	-86	-61	-36	-10	15	40	65	91	116
95%	76.0	-61	-34	-7	20	47	74	101	128	155
100%	80.0	-35	-6	22	51	79	108	136	165	193
105%	84.0	-9	21	51	81	111	142	172	202	232
110%	88.0	17	48	80	112	144	175	207	239	271
115%	92.0	42	76	109	142	176	209	243	276	309
120%	96.0	68	103	138	173	208	243	278	313	348

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, 2018.

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	0.34	55.0000	18.70	_____
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	1.2000	8.40	_____
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	23.0000	6.90	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_____
LA Hired Labor					
Tractors	hour	10.38	0.0820	0.85	_____
LA Irrigation Labor					
Irrigation System 3	hour	10.38	0.0861	0.90	_____
DIESEL FUEL					
Tractors	gal	2.28	0.6332	1.44	_____
Self-Propelled	gal	2.28	2.5825	5.89	_____
Irrigation System 3	gal	2.28	13.1355	29.94	_____
REPAIR & MAINTENANCE					
Implements	acre	0.19	1.0000	0.19	_____
Tractors	acre	0.34	1.0000	0.34	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
INTEREST ON OP. CAP.	acre	1.60	1.0000	1.60	_____
TOTAL DIRECT EXPENSES				116.71	_____
FIXED EXPENSES					
Implements	acre	0.22	1.0000	0.22	_____
Tractors	acre	2.02	1.0000	2.02	_____
Self-Propelled	acre	20.08	1.0000	20.08	_____
TOTAL FIXED EXPENSES				22.32	_____
TOTAL SPECIFIED EXPENSES				139.03	_____

Table 6.B Estimated resource use and costs for field operations, per acre, Rice, Ratoon Crop, Southwest Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Blade-Scraper	10'	MFWD 150	1.176	0.06	Aug	1.53	1.74	0.12	0.09	0.07	0.73					4.21
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	0.34	18.70		18.70
LA Rice GPS Charge-SW	acre											1.0000	0.35	0.35		0.35
LA Rice Combine-2	25 ft		0.300	1.00	Oct	19.10	20.08			0.33	5.05					44.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Oct	0.25	0.28	0.07	0.13	0.01	0.12					0.85
LA Rice Haul	cwt			1.00	Oct							23.0000	0.30	6.90		6.90
LA Rice Dry	cwt			1.00	Nov							25.5000	0.90	22.95		22.95
Irrigation System 3	acre				Aug			29.94		0.08	0.90	1.0000				30.84
TOTALS						20.88	22.10	30.13	0.22	0.49	6.80			57.30		137.43
INTEREST ON OPERATING CAPITAL																1.60
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																139.03

Table 6.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Ratoon Crop,
Southwest Louisiana, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	18.4	58	67	77	86	95	104	113	122	131
85%	19.6	69	79	88	98	108	118	127	137	147
90%	20.7	80	90	100	111	121	132	142	152	163
95%	21.9	90	101	112	123	134	145	156	168	179
100%	23.0	101	112	124	136	148	159	171	183	194
105%	24.2	111	124	136	148	161	173	186	198	210
110%	25.3	122	135	148	161	174	187	200	213	226
115%	26.5	132	146	160	174	187	201	215	228	242
120%	27.6	143	157	172	186	200	215	229	244	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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	18.4	36	45	54	63	72	81	90	100	109
85%	19.6	47	56	66	76	86	95	105	115	125
90%	20.7	57	68	78	88	99	109	120	130	140
95%	21.9	68	79	90	101	112	123	134	145	156
100%	23.0	78	90	102	114	125	137	149	160	172
105%	24.2	89	101	114	126	138	151	163	176	188
110%	25.3	100	113	126	139	152	165	178	191	204
115%	26.5	110	124	138	151	165	179	192	206	220
120%	27.6	121	135	149	164	178	193	207	221	236

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	18.4	45	51	57	64	70	76	83	89	96
85%	19.6	52	59	66	73	79	86	93	100	107
90%	20.7	60	67	74	81	89	96	103	110	118
95%	21.9	67	75	82	90	98	106	113	121	129
100%	23.0	74	83	91	99	107	115	124	132	140
105%	24.2	82	90	99	108	116	125	134	142	151
110%	25.3	89	98	107	117	126	135	144	153	162
115%	26.5	97	106	116	125	135	145	154	164	173
120%	27.6	104	114	124	134	144	154	164	174	184

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	18.4	22	29	35	41	48	54	61	67	73
85%	19.6	30	37	43	50	57	64	71	78	84
90%	20.7	37	44	52	59	66	74	81	88	95
95%	21.9	45	52	60	68	76	83	91	99	107
100%	23.0	52	60	68	77	85	93	101	109	118
105%	24.2	59	68	77	85	94	103	111	120	129
110%	25.3	67	76	85	94	103	112	122	131	140
115%	26.5	74	84	93	103	113	122	132	141	151
120%	27.6	82	92	102	112	122	132	142	152	162

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

Table 7.A Estimated costs per acre,
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Northeast Louisiana, 2018.

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	0.34	170.0000	57.80	_____
FUNGICIDES					
Quadris	oz	1.56	10.0000	15.60	_____
HERBICIDES					
Command 3ME	pt	18.50	0.8000	14.80	_____
Permit 75DF	oz	18.50	1.0000	18.50	_____
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	0.28	90.0000	25.20	_____
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.7000	25.90	_____
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	71.0000	21.30	_____
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_____
LA Hired Labor					
Tractors	hour	10.38	0.8249	8.58	_____
LA Irrigation Labor					
Irrigation System 5	hour	10.38	0.4361	4.53	_____
DIESEL FUEL					
Tractors	gal	2.28	7.9039	18.01	_____
Self-Propelled	gal	2.28	2.5825	5.89	_____
Irrigation System 5	gal	2.28	28.5331	65.06	_____
REPAIR & MAINTENANCE					
Implements	acre	5.66	1.0000	5.66	_____
Tractors	acre	4.35	1.0000	4.35	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
Irrigation System 5	acre	2.17	1.0000	2.17	_____
INTEREST ON OP. CAP.	acre	6.46	1.0000	6.46	_____
TOTAL DIRECT EXPENSES				434.12	_____
FIXED EXPENSES					
Implements	acre	12.10	1.0000	12.10	_____
Tractors	acre	26.93	1.0000	26.93	_____
Self-Propelled	acre	20.08	1.0000	20.08	_____
Irrigation System 5	acre	13.33	1.0000	13.33	_____
TOTAL FIXED EXPENSES				72.44	_____
TOTAL SPECIFIED EXPENSES				506.56	_____

Table 7.B Estimated resource use and costs for field operations, per acre, Rice, Conventional Variety, Drill Plant, Conventional Tillage, (In Rotation), Northeast Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	32'	4WD 300	0.061	1.00	Nov	2.71	3.44	0.92	1.94	0.06	0.64				9.65
Ditcher		MFWD 150	0.020	2.00	Nov	0.86	0.99	0.09	0.12	0.04	0.42				2.48
Disk Harrow	28'	MFWD 190	0.070	2.00	Mar	3.89	4.78	1.96	4.15	0.14	1.46				16.24
Irrigation System 5					Mar										
Ditcher		MFWD 150	0.020	1.00	Mar	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Field Cultivate	32'	4WD 300	0.046	1.00	Mar	2.06	2.62	0.45	1.90	0.04	0.48				7.51
LA Rice Levee Plow	8 ft	MFWD 190	0.050	4.00	Mar	5.54	6.81	0.31	0.75	0.20	2.08				15.49
App Fert by Air	cwt			1.00	Apr							0.4000	7.00	2.80	2.80
LA Nitrogen	lb											20.0000	0.34	6.80	6.80
LA Rice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.05	2.32	1.32	2.52	0.18	1.83				10.04
Rice Seed Conv.	lb											90.0000	0.28	25.20	25.20
Ditcher		MFWD 150	0.020	1.00	Apr	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Rice Gates	each			1.00	Apr							1.0000	3.65	3.65	3.65
LA Rice Backhoe-Rrmnt	2 ft	MFWD 150	0.500	0.05	Apr	0.54	0.62	0.13	0.18	0.02	0.26				1.73
LA Boom Sprayer	30 ft	MFWD 150	0.059	1.00	Apr	1.31	1.48	0.13	0.15	0.05	0.62				3.69
Command 3ME	pt											0.8000	18.50	14.80	14.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	3.40	6.80	6.80
LA Rice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Permit 75DF	oz											1.0000	18.50	18.50	18.50
LA Rice 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	0.34	30.60	30.60
LA Rice 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	0.34	20.40	20.40
LA Rice 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	1.56	15.60	15.60
LA Rice 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
LA Rice GPS Charge_NE	acre											1.0000	0.25	0.25	0.25
LA Rice Combine	25 ft		0.300	1.00	Aug	19.10	20.08			0.33	5.05				44.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.25	0.28	0.07	0.13	0.01	0.12				0.85
LA Rice Haul	cwt			1.00	Aug							71.0000	0.30	21.30	21.30
LA Rice Dry	cwt			1.00	Aug							78.0000	0.90	70.20	70.20
Irrigation System 5	acre				Mar					67.23	13.33	0.43	4.53	1.0000	85.09
TOTALS						41.46	47.01	72.89	25.43	1.68	19.01			294.30	500.10
INTEREST ON OPERATING CAPITAL															6.46
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															506.56

Table 7.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Conventional Variety, Drill Planted, Conventional Tillage,
Northeast Louisiana, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	59.2	125	154	183	212	241	271	300	329	358
85%	62.9	159	190	221	253	284	315	347	378	409
90%	66.6	193	226	260	293	326	360	393	427	460
95%	70.3	227	262	298	333	369	405	440	476	511
100%	74.0	261	298	336	374	412	449	487	525	562
105%	77.7	295	335	374	414	454	494	534	574	613
110%	81.4	329	371	413	455	497	539	581	623	665
115%	85.1	363	407	451	495	539	583	627	672	716
120%	88.8	397	443	489	536	582	628	674	720	767

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	59.2	52	81	111	140	169	198	227	257	286
85%	62.9	86	118	149	180	211	243	274	305	337
90%	66.6	120	154	187	221	254	288	321	354	388
95%	70.3	154	190	225	261	297	332	368	403	439
100%	74.0	188	226	264	301	339	377	415	452	490
105%	77.7	222	262	302	342	382	422	461	501	541
110%	81.4	256	298	340	382	424	466	508	550	592
115%	85.1	290	335	379	423	467	511	555	599	643
120%	88.8	324	371	417	463	509	556	602	648	694

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield	Rice Market Price (\$/cwt)								
	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	59.2	49	70	90	111	131	152	172	193	213
85%	62.9	73	95	117	139	161	183	205	227	249
90%	66.6	97	121	144	167	191	214	238	261	284
95%	70.3	121	146	171	196	221	246	270	295	320
100%	74.0	145	171	198	224	250	277	303	330	356
105%	77.7	169	197	224	252	280	308	336	364	392
110%	81.4	192	222	251	281	310	339	369	398	427
115%	85.1	216	247	278	309	340	371	401	432	463
120%	88.8	240	272	305	337	370	402	434	467	499

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Percent	Yield	Rice Market Price (\$/cwt)								
	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	59.2	-10	11	31	52	72	93	113	133	154
85%	62.9	14	36	58	80	102	124	146	168	190
90%	66.6	38	61	85	108	132	155	179	202	225
95%	70.3	62	87	112	137	161	186	211	236	261
100%	74.0	86	112	138	165	191	218	244	270	297
105%	77.7	110	137	165	193	221	249	277	305	333
110%	81.4	133	163	192	221	251	280	310	339	368
115%	85.1	157	188	219	250	281	311	342	373	404
120%	88.8	181	213	246	278	310	343	375	407	440

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,
Northeast Louisiana, 2018.

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	0.34	170.0000	57.80	_____
FUNGICIDES					
Quadris	oz	1.56	10.0000	15.60	_____
HERBICIDES					
Newpath 2SL	oz	3.83	8.0000	30.64	_____
Aim 2EC	oz	5.16	1.6000	8.26	_____
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	1.03	75.0000	77.25	_____
CUSTOM FERT/LIME					
App Fert by Air	cwt	7.00	3.7000	25.90	_____
CUSTOM HARVEST/HAUL					
LARice Haul	cwt	0.30	74.0000	22.20	_____
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.3303	5.05	_____
LA Hired Labor					
Tractors	hour	10.38	0.7537	7.84	_____
LA Irrigation Labor					
Irrigation System 5	hour	10.38	0.4361	4.53	_____
DIESEL FUEL					
Tractors	gal	2.28	6.7604	15.40	_____
Self-Propelled	gal	2.28	2.5825	5.89	_____
Irrigation System 5	gal	2.28	28.5331	65.06	_____
REPAIR & MAINTENANCE					
Implements	acre	5.55	1.0000	5.55	_____
Tractors	acre	3.68	1.0000	3.68	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
Irrigation System 5	acre	2.17	1.0000	2.17	_____
INTEREST ON OP. CAP.	acre	7.62	1.0000	7.62	_____

TOTAL DIRECT EXPENSES				500.14	_____
FIXED EXPENSES					
Implements	acre	12.03	1.0000	12.03	_____
Tractors	acre	22.87	1.0000	22.87	_____
Self-Propelled	acre	20.08	1.0000	20.08	_____
Irrigation System 5	acre	13.33	1.0000	13.33	_____

TOTAL FIXED EXPENSES				68.31	_____

TOTAL SPECIFIED EXPENSES				568.45	_____

Table 8.B Estimated resource use and costs for field operations, per acre, Rice, Clearfield Variety, Drill Plant, Conventional Tillage, (In Rotation), Northeast Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	28'	MFWD 190	0.070	1.00	Nov	1.94	2.39	0.98	2.08	0.07	0.73				8.12
Ditcher		MFWD 150	0.020	1.00	Nov	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Disk Harrow	28'	MFWD 190	0.070	2.00	Mar	3.89	4.78	1.96	4.15	0.14	1.46				16.24
Irrigation System 5					Mar										
Ditcher		MFWD 150	0.020	1.00	Mar	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Field Cultivate	32'	MFWD 190	0.046	1.00	Mar	1.29	1.59	0.45	1.90	0.04	0.48				5.71
LARice Levee Plow	8 ft	MFWD 190	0.050	4.00	Mar	5.54	6.81	0.31	0.75	0.20	2.08				15.49
App Fert by Air	cwt			1.00	Apr							0.4000	7.00	2.80	2.80
LA Nitrogen	lb											20.0000	0.34	6.80	6.80
LARice GPS Charge_NE acre												1.0000	0.25	0.25	0.25
Grain Drill	20'	MFWD 150	0.094	1.00	Apr	2.05	2.32	1.32	2.52	0.18	1.83				10.04
Rice Clearfield 161	lb											75.0000	1.03	77.25	77.25
Blade-Scraper	10'	MFWD 150	1.176	0.09	Apr	2.29	2.61	0.18	0.14	0.10	1.10				6.32
Ditcher		MFWD 150	0.020	1.00	Apr	0.43	0.49	0.05	0.06	0.02	0.21				1.24
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	0.54	0.62	0.13	0.18	0.02	0.26				1.73
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Newpath 2SL	oz											4.0000	3.83	15.32	15.32
LARice GPS Charge_NE acre												1.0000	0.25	0.25	0.25
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Karate Z	oz											2.0000	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	3.83	15.32	15.32
Aim 2EC	oz											1.6000	5.16	8.26	8.26
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	0.34	30.60	30.60
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	0.34	20.40	20.40
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	1.56	15.60	15.60
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	19.10	20.08			0.33	5.05				44.23
Rice Grain Cart	500 Bu	MFWD 150	0.057	0.20	Aug	0.25	0.28	0.07	0.13	0.01	0.12				0.85
LARice Haul	cwt			1.00	Aug										22.20
LARice Dry	cwt			1.00	Aug										73.89
Irrigation System 5	acre				Mar				67.23	13.33	0.43	4.53			85.09
TOTALS						38.18	42.95	72.78	25.36	1.61	18.27			363.29	560.83
INTEREST ON OPERATING CAPITAL															7.62
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															568.45

Table 8.C1 Estimated Net Returns above Direct Costs for an Owner Operator
Rice, Clearfield Variety, Drill Planted, Conventional Tillage,
Northeast Louisiana, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	59.2	63	92	122	151	180	209	238	268	297
85%	62.9	97	129	160	191	223	254	285	316	348
90%	66.6	131	165	198	232	265	299	332	365	399
95%	70.3	165	201	236	272	308	343	379	414	450
100%	74.0	199	237	275	312	350	388	426	463	501
105%	77.7	233	273	313	353	393	433	472	512	552
110%	81.4	267	309	351	393	435	477	519	561	603
115%	85.1	301	346	390	434	478	522	566	610	654
120%	88.8	335	382	428	474	520	567	613	659	705

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	59.2	-5	24	53	82	112	141	170	199	228
85%	62.9	29	60	92	123	154	186	217	248	280
90%	66.6	63	96	130	163	197	230	264	297	331
95%	70.3	97	133	168	204	239	275	310	346	382
100%	74.0	131	169	206	244	282	320	357	395	433
105%	77.7	165	205	245	285	324	364	404	444	484
110%	81.4	199	241	283	325	367	409	451	493	535
115%	85.1	233	277	321	365	409	454	498	542	586
120%	88.8	267	313	360	406	452	498	544	591	637

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	59.2	-12	8	29	49	70	90	111	131	152
85%	62.9	12	34	56	78	100	122	143	165	187
90%	66.6	36	59	83	106	129	153	176	200	223
95%	70.3	60	84	109	134	159	184	209	234	259
100%	74.0	83	110	136	163	189	215	242	268	295
105%	77.7	107	135	163	191	219	247	275	302	330
110%	81.4	131	160	190	219	249	278	307	337	366
115%	85.1	155	186	217	247	278	309	340	371	402
120%	88.8	179	211	243	276	308	340	373	405	438

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, 2018.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
Yield		Rice Market Price (\$/cwt)								
Percent	(cwt.)	\$9.20	\$9.78	\$10.35	\$10.93	\$11.50	\$12.08	\$12.65	\$13.23	\$13.80
		----- (\$/acre) -----								
80%	59.2	-67	-46	-26	-6	15	35	56	76	97
85%	62.9	-43	-21	1	23	45	67	88	110	132
90%	66.6	-19	4	28	51	74	98	121	145	168
95%	70.3	5	29	54	79	104	129	154	179	204
100%	74.0	28	55	81	108	134	160	187	213	240
105%	77.7	52	80	108	136	164	192	220	247	275
110%	81.4	76	105	135	164	194	223	252	282	311
115%	85.1	100	131	162	192	223	254	285	316	347
120%	88.8	124	156	188	221	253	285	318	350	383

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, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Underground Pipe 1	each								10.91	10.91
Gearhead 1	each								2.08	2.08
Engine 1	each								8.02	8.02
Application 1	Ac-in		11.98	0.60	0.36		0.51	13.45		13.45
Application 2	Ac-in		11.98	0.60	0.36		0.46	13.40		13.40
Application 3	Ac-in		14.97	0.75	0.45		0.51	16.68		16.68
Application 4	Ac-in		17.97	0.90	0.54		0.54	19.95		19.95
Application 5	Ac-in		17.97	0.90	0.54		0.46	19.87		19.87
Well 1	each								6.78	6.78
Pump 1	each								6.54	6.54
TOTALS		0.00	74.87	3.75	2.25	0.00	2.48	83.35	34.33	117.68

Note: Total irrigation application of 25 acre-inches.

Appendix Table 2. Rice Irrigation System 2 Costs, Drill Planted, Southwest Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Pump 2	each								6.54	6.54
Gearhead 2	each								2.08	2.08
Engine 2	each								8.02	8.02
Application 1	Ac-in		8.98	0.40	0.24		0.38	10.00		10.00
Application 2	Ac-in		8.98	0.40	0.24		0.38	10.00		10.00
Application 3	Ac-in		14.97	0.67	0.40		0.57	16.61		16.61
Application 4	Ac-in		14.97	0.67	0.40		0.51	16.55		16.55
Application 5	Ac-in		17.97	0.80	0.48		0.53	19.78		19.78
Application 6	Ac-in		14.97	0.67	0.40		0.38	16.42		16.42
Well 2	each								6.78	6.78
Underground Pipe 2	each								10.91	10.91
TOTALS		0.00	80.84	3.61	2.16	0.00	2.75	89.36	34.33	123.69

Note: Total irrigation application of 28 acre-inches.

Appendix Table 3. Rice Irrigation System 3 Costs, Ratoon Crop, Southwest Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Engine 1a	each									
Application 1	Ac-in		20.96		0.63		0.43	22.02		22.02
Application 2	Ac-in		8.98		0.27		0.15	9.40		9.40
TOTALS		0.00	29.94	0.00	0.90	0.00	0.58	31.42	0.00	31.42

Note: Total irrigation application of 10 acre-inches.

Appendix Table 4. Rice Irrigation System 5 Costs, Drill Planted, Northeast Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Engine 4	each								4.02	4.02
Application 1	Ac-in		10.49	0.34	0.73		0.41	11.97		11.97
Application 2	Ac-in		10.49	0.34	0.73		0.41	11.97		11.97
Application 3	Ac-in		10.49	0.34	0.73		0.32	11.88		11.88
Application 4	Ac-in		20.99	0.67	1.46		0.55	23.67		23.67
Application 5	Ac-in		10.49	0.34	0.73		0.23	11.79		11.79
Gearhead 4	each								1.09	1.09
Pump 4	each								3.45	3.45
Well 4	each								2.26	2.26
Underground Pipe 4	each								2.73	2.73
TOTALS		0.00	62.95	2.03	4.38	0.00	1.92	71.28	13.55	84.83

Note: Total irrigation application of 31 acre-inches

Appendix Table 5. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
dollars		
ADJUVANTS		
Surfactant	pt	1.63
CUSTOM FERT/LIME		
App Fert by Air	cwt	7.00
App Fert by Air (Min)	appl	7.00
Custom Apply Fert	acre	7.00
Custom Spread (Truc)	appl	4.50
Lime (Spread)	ton	46.00
CUSTOM HARVEST/HAUL		
Custom Combine Rice	acre	0.00
Haul Corn	bu	0.23
Haul Cotton	lb	0.02
Haul Rice	bu	0.35
Haul Rice (cwt)	cwt	0.25
Haul Sorghum	bu	0.25
Haul Soybeans	bu	0.27
Haul Wheat	bu	0.26
LARice Haul	cwt	0.30
CUSTOM PLANT		
Custom Spread + Seed	appl	0.00
LARice Air Plant NE	cwt	5.50
LARice Air Plant SW	cwt	5.60
Plant by Air	cwt	7.00
CUSTOM SPRAY		
App 2,4-D Helicopter	appl	0.00
App by Air (1 gal)	appl	2.50
App by Air (2 gal)	appl	4.00
App by Air (3 gal)	appl	5.00
App by Air (5 gal)	appl	6.50
App by Air (10 gal)	appl	9.00
App Furadan by Air	appl	0.00
App Ordram by Air	appl	0.00
Custom Apply	acre	7.00
Custom Terragator	acre	5.00
LARice GPS Charge-SW	acre	0.35
LARice GPS Charge_NE	acre	0.25
Spray Levees, 4whlr	acre	0.00
FERTILIZERS		
Amm Nitrate (34% N)	cwt	22.50
Amm Sulfate (21% N)	cwt	13.43
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	4.60
DAP	cwt	21.52
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	0.00
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	0.34
LA Phosphate	lb	0.40
LA Potash	lb	0.26
Phosphorus (46% P2O5)	cwt	18.75
Potash (60% K2O)	cwt	18.98
Sulfur	lb	0.34
UAN (32% N)	cwt	10.50
UAN + Sulfur (28% N)	cwt	11.75
Urea, Solid (46% N)	cwt	14.19
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.84
Apron XL	oz	6.98
Apron XL LS	oz	5.27
Benlate 50 WP	lb	15.95
Captan 4L	pt	2.83
Captan 50 WP	lb	4.93
Crop Oil (Petroleum)	pt	2.74
Cruiser 5FS	oz	17.38
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
FUNGICIDES CONT'D		
Dithane Rainsheild	lb	4.15
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	1.56
Ridomil GoldPC 10G	lb	2.08
Ridomil Gold PC	lb	5.30
Ridomil Gold PC Liq	oz	6.42
Rovral 4F	pt	14.90
Rovral WG	lb	0.00
Shelter	oz	8.50
Stiletto	oz	0.58
Stratego	pt	25.00
Terraclor Flowable	pt	4.74
Terraclor 2EC	pt	1.87
Terraclor Super X EC	pt	3.95
Terraclor Super X G	lb	2.82
Tilt 3.6 EC	oz	0.75
Vitavax 200	oz	0.47
Vitavax M Flowable	oz	1.06
Vitavax RTU-Thiram	oz	0.40
Vitavax T-L	oz	0.29
GIN/DRY		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Rice	bu	0.40
Dry Rice (cwt)	cwt	0.90
Gin	lb	0.11
LARice Dry	cwt	0.90
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
LA Polado	oz	0.16
Mepex	oz	0.08
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.39
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	7.01
CottonQuik	pt	6.06
Def 6	pt	6.88
Def/Folex	pt	7.55
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.09
Ethephon 6E	pt	2.88
Finish 6	pt	9.61
Folex 6EC	pt	10.54
Ginstar EC	pt	26.44
Gramoxone Extra	pt	4.86
Gramoxone Max	pt	4.06
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	2.75
Sodium Chlorate 3L	gal	3.50
Sodium Chlorate 6L	gal	5.57
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.85
2,4-D Ester	pt	3.00
AAtrex 4L	pt	2.12
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
AIM 2EC	oz	5.16
AIM DF	oz	9.65

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	3.60
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	15.02
Basagran	pt	12.31
Basis Gold	lb	9.00
Beacon 75% WSP	oz	34.87
Beyond	oz	4.48
Bicep II Magnum	qt	11.01
Bicep II zmsgnum	qt	10.97
Bladex 4L	qt	0.00
Bladex 90DF	lb	0.00
Blazer 2L	pt	0.00
Blazer Ultra	pt	9.79
Boa	pt	3.63
Bolero 8EC	pt	7.73
Boundary	pt	11.20
Buctril 4EC	pt	17.06
Butoxone 175 (2,4-DB)	pt	3.24
Butoxone 200 (2,4-DB)	pt	3.92
Butyrac 175 (2,4-DB)	pt	3.29
Butyrac 200 (2,4-DB)	pt	4.34
Canopy 75%	oz	2.74
Canopy XL	oz	2.23
Caparol 4L	pt	4.60
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.55
Classic	oz	17.18
Clincher EC	oz	2.30
Cobra 2EC	oz	1.72
Command 3ME	pt	18.50
Command XTRA	pt	0.00
Conclude Ultra	pt	0.00
Conclude Ultra	pt	0.00
Conclude XACT	pt	11.32
Conclude XTRA	pt	8.32
Cornerstone	pt	2.50
Cotoran 4L	pt	6.42
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.52
Crossbow	pt	8.05
Cy-Pro 4L	qt	0.00
Cypro 90DF	lb	0.00
Delta Goal	pt	9.44
Denim 0.16 EC	pt	24.06
Detail	pt	7.99
Direx 4L	pt	3.99
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.90
Diuron 80 DF	lb	5.09
Domain 60DF	lb	12.75
DSMA 4	pt	0.90
Dual 8E	pt	0.00
Dual II Magnum	pt	14.50
Dual Magnum	pt	13.80
Duet	pt	5.35
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.39
Facet 75DF	lb	50.00
First Rate	oz	41.21
Flexstar HL	pt	4.50
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Fultime	pt	6.29
Fusilade DX	oz	1.00
Fusion	pt	29.86
Glyphos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	1.75
Glystar Plus	pt	2.17
Goal 2XL	pt	9.89
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	5.46
Gramoxone Max	pt	5.46
Grandstand R	qt	17.15
Guardzman	pt	4.66
Guardzman Max	pt	7.22
Harmony Extra	oz	12.00
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	38.80
LA Weedmaster	qt	3.08
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	6.30
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	2.90
MSMA6 + Surfactant	pt	3.63
Newpath 2SL	oz	3.83
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.47
Pendimax 3.3	pt	2.47
Permit 75DF	oz	18.50
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	6.07
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.58
Raptor	oz	4.38
Reflex 2LC	pt	6.52
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	29.40
Ricestar	pt	24.35
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	2.50
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.26
Scepter 70 DG	oz	4.48
Select 2EC	oz	0.66
Sencor 4F	pt	14.74
Sencor DF	lb	9.00
Squadron CE	pt	12.50
Stam 4E	qt	5.12
Stam 80 EDF	lb	9.61
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	12.75
Strongarm	oz	56.42
Superwham	qt	9.18
Suprend	lb	13.49

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	9.32
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	5.16
Treflan HFP	pt	3.52
Treflan TR-10	lb	1.10
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.52
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	6.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	7.43
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.92
Asana .66 XL	oz	0.58
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.30
Bidrin 8L	oz	0.90
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	5.38
Comite	pt	8.45
Condor XL	pt	0.00
Confirm 2F	oz	1.86
Counter 15G	lb	4.51
Counter CR	lb	2.65
Curacron 8E	pt	10.75
Decis 1.5EC	oz	2.84
Declare	pt	4.08
Denim 0.16EC	pt	32.63
Di-Syston 15G	lb	3.48
Di-Syston 8	pt	14.32
Dimethoate 4E	pt	5.31
Dimilin 2L	oz	1.45
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	10.88
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	5.75
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	0.91

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
INSECTICIDES CONT'D		
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	13.23
Spintor 2SC	oz	4.93
Steward	pt	39.51
Synthetic Pyrethroid	oz	0.00
Temik 15G Grit	lb	4.00
Thimet 20-G	lb	3.65
Thionex 3EC	pt	4.17
Thionex 50W	lb	10.45
Tracer	oz	9.73
Trimax	oz	1.85
Vydate C-LV	oz	0.93
Warrior Z	oz	1.80
Warrior ZT	oz	1.88
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.25
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LRice Insurance	Dollar	1.00
LRice Misc. Overhd	dollar	1.00
LRice 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	2.60
Corn Seed Conv.	thous	2.89
Corn Seed RR	thous	3.13
Cotton Seed Bt	thoud	0.28
Cotton Seed BtRR	thous	1.26
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
LA Hybrid Rice Seed	acre	160.00
Rice Clearfield 161	lb	1.03
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.43
Rice Seed CF(Levees)	lb	0.95
Rice Seed Conv.	lb	0.28
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	2.85
Sorghum NonConcept	lb	1.18
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	1.30
Wheat Seed Private	lb	0.29
Wheat Seed Public	lb	0.00
SERVICE FEE		
Crop Consultant	acre	7.00
Insect Scouting	acre	7.00
Rice Consultant	acre	8.00
SC Treating Charge	acre	0.00
Survey & Mark Levees	acre	4.50
Survey & Mark Levees	acre	4.50
TECHNOLOGY FEE		
BG Cot Tech Fee	thous	0.28
BG Cot Tech Fee	cap/ac	19.50
BG II Cot Tech Fee	thous	0.76
BG II Cot Tech Fee	cap/ac	31.91
BG II/RR Tech Fee	thous	1.49
BG II/RR Tech Fee	cap/ac	62.69
BG/RR Cot Tech Fee	thous	1.49
BG/RR Cot Tech Fee	cap/ac	62.69
Eradication Fee	acre	6.00
Eradication Zone 1	acre	6.00
Eradication Zone 1A	acre	6.00

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2018.

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

Appendix Table 6. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2018.

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	22.29	0.00	35.80	0.00	35.80
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	28.15	16.82	58.49	66.39	124.89
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	29.34	0.00	42.85	0.00	42.85
Combine (250-299 hp)	275hp	328,000	300	8	14.15	13.51	32.26	34.16	79.93	134.81	214.75
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	34.61	22.73	70.85	89.69	160.54
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	34.04	0.00	47.55	0.00	47.55
Combine (300-349 hp)	325hp	355,000	300	8	16.73	13.51	38.14	36.97	88.63	145.91	234.54
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	37.55	0.00	51.06	0.00	51.06
Combine (350-379 hp)	370hp	354,000	300	8	19.04	13.51	43.41	36.87	93.79	145.50	239.29
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	42.84	0.00	56.35	0.00	56.35
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	18.42	26.56	58.49	104.80	163.30
SC Tractor 93 MDR	93	46,683	600	10	4.79	10.38	10.92	2.72	24.02	7.84	31.87
SC Tractpr 68 MDR	68	27,049	600	10	3.50	10.38	7.98	1.57	19.93	4.54	24.48
test-mes		0	0	0	0.00	13.51	0.00	0.00	0.00	0.00	0.00
Tractor (40-59hp)Cab	2WD 50	32,300	600	8	2.57	10.38	5.86	1.00	17.25	6.07	23.33
Tractor (40-59hp)Cab	MFWD 50	39,500	600	8	2.57	10.38	5.86	1.23	17.48	7.42	24.91
Tractor (40-59hp)RB	2WD 50	21,100	600	8	2.57	10.38	5.86	0.65	16.90	3.96	20.87
Tractor (40-59hp)RB	MFWD 50	24,800	600	8	2.57	10.38	5.86	0.77	17.02	4.66	21.68
Tractor (60-89hp)CAB	2WD 75	49,300	600	8	3.86	10.38	8.80	1.54	20.72	9.27	29.99
Tractor (60-89hp)CAB	MFWD 75	52,500	600	8	3.86	10.38	8.80	1.64	20.82	9.87	30.69
Tractor (60-89hp)RB	2WD 75	33,100	600	8	3.86	10.38	8.80	1.03	20.21	6.22	26.44
Tractor (60-89hp)RB	MFWD 75	37,800	600	8	3.86	10.38	8.80	1.18	20.36	7.10	27.47
Tractor (90-119hp)CB	2WD 105	60,300	600	8	5.40	10.38	12.32	1.88	24.58	11.33	35.92
Tractor (90-119hp)CB	MFWD 105	76,100	600	8	5.40	10.38	12.32	2.37	25.08	14.31	39.39
Tractor (90-119hp)RB	2WD 105	60,300	600	8	5.40	10.38	12.32	1.88	24.58	11.33	35.92
Tractor (90-119hp)RB	MFWD 105	76,100	600	8	5.40	10.38	12.32	2.37	25.08	14.31	39.39
Tractor (120-139hp)CB	2WD 130	103,000	600	8	6.69	10.38	15.25	3.21	28.85	19.36	48.22
Tractor (120-139hp)CB	MFWD 130	113,000	600	8	6.69	10.38	15.25	3.53	29.16	21.25	50.41
Tractor (140-159hp)CB	2WD 150	108,000	600	8	7.72	10.38	17.60	3.37	31.35	20.30	51.66
Tractor (140-159hp)CB	MFWD 150	131,000	600	8	7.72	10.38	17.60	4.09	32.07	24.63	56.71
Tractor (160-179hp)CB	2WD 170	156,000	600	8	8.75	10.38	19.95	4.87	35.20	30.69	65.90
Tractor (160-179hp)CB	MFWD 170	153,000	600	8	8.75	10.38	19.95	4.78	35.11	30.10	65.21
Tractor (160-199hp)CB	Track 180	142,710	600	8	9.26	10.38	21.12	4.45	35.96	28.08	64.04
Tractor (180-199hp)CB	2WD 190	143,000	600	8	9.77	10.38	22.29	4.46	37.14	28.13	65.28
Tractor (180-199hp)CB	MFWD 190	173,000	600	8	9.77	10.38	22.29	5.40	38.08	34.04	72.12
Tractor (200-249hp)CB	4WD 225	147,066	600	8	11.58	10.38	26.40	4.59	41.38	28.93	70.32
Tractor (200-249hp)CB	MFWD 225	210,000	600	8	11.58	10.38	26.40	6.56	43.34	41.32	84.67
Tractor (200-249hp)CB	Track 225	277,000	600	8	11.58	10.38	26.40	8.65	45.44	54.50	99.95
Tractor (250-349hp)CB	4WD 300	285,000	600	8	15.44	10.38	35.20	8.90	54.49	56.08	110.57
Tractor (250-349hp)CB	Track 300	318,000	600	8	15.44	10.38	35.20	9.93	55.52	62.57	118.10
Tractor (350-449hp)CB	4WD 400	331,000	600	8	20.58	10.38	46.94	10.34	67.66	65.13	132.80
Tractor (350-449hp)CB	Track 400	341,000	600	8	20.58	10.38	46.94	10.65	67.97	67.10	135.08
Tractor (450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.38	55.74	8.74	74.86	55.07	129.94

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 2018.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.70	0.42	0.43	3.55	2.06	5.62
Butt Levee (Backhoe)	70 HP	73,000	150	8	5.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker-1st-BB	2R38"157hp	144,912	200	8	8.08	0.519	11.72	9.57	11.76	33.06	46.42	79.49
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	3.88	5.23	8.54	17.67	33.71	51.38
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.38	9.60	13.40	30.39	52.88	83.27
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.38	13.44	17.90	38.73	70.64	109.37
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.81	7.71	10.79	24.32	42.59	66.91
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.81	10.58	14.13	30.54	55.78	86.32
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.91	7.67	11.66	25.25	46.01	71.27
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.67	6.07	9.21	19.96	36.35	56.32
Cotton Picker-1st-BB	6R30"325hp	465,000	200	8	18.27	0.218	4.92	9.09	15.85	29.87	62.56	92.44
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.88	7.17	12.51	23.58	49.39	72.98
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.72	9.57	11.76	33.06	46.42	79.49
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	3.88	7.07	8.67	19.63	34.22	53.86
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.38	9.60	13.39	30.38	52.84	83.23
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.38	12.48	15.91	35.78	62.78	98.57
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	5.81	7.71	10.79	24.32	42.59	66.91
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	5.81	10.58	14.13	30.54	55.78	86.32
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	5.91	7.83	11.67	25.42	46.06	71.49
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.67	6.07	9.40	20.15	37.10	57.26
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	4.92	8.32	15.85	29.10	62.56	91.67
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	3.88	7.07	12.51	23.48	49.39	72.88
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.10	9.96	28.01	39.32	67.33
Cotton Picker-2nd-BB	4R2x1260hp	322,187	200	8	18.01	0.145	3.29	5.99	7.34	16.63	28.99	45.62
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.13	11.34	25.73	44.76	70.50
Cotton Picker-2nd-BB	4R38"325hp	311,088	200	8	16.72	0.277	6.25	10.57	13.47	30.31	53.18	83.50
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.53	9.14	20.60	36.07	56.68
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	4.92	8.96	11.97	25.86	47.25	73.12
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	5.00	6.63	9.88	21.53	39.02	60.55
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.96	5.14	7.80	16.91	30.79	47.71
Cotton Picker-2nd-BB	6R30"325hp	465,000	200	8	18.01	0.184	4.17	7.59	13.43	25.19	52.99	78.19
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.29	5.99	10.60	19.89	41.84	61.73
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.10	9.96	28.01	39.32	67.33
Cotton Picker-2nd-Tr	4R2X1260hp	322,137	200	8	18.01	0.145	3.29	5.99	7.34	16.63	28.98	45.62
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.13	11.34	25.73	44.76	70.50
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.25	10.57	13.47	30.31	53.18	83.50
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.53	9.14	20.60	36.07	56.68
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	4.92	8.96	11.97	25.86	47.25	73.12
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	5.00	6.63	9.88	21.53	39.02	60.55
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.96	5.14	7.96	17.07	31.43	48.50
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.29	5.99	10.60	19.89	41.84	61.73
LA Pickup Truck	1/2 ton	25,000	800	5	2.50	1.000	10.38	5.25	2.81	18.44	6.65	25.09
LA Rice Combine	25 ft	165,000	300	10	8.60	0.300	5.05	5.88	13.21	24.15	20.07	44.23
LA Rice Combine-2	25 ft	165,000	300	10	8.60	0.300	5.05	5.88	13.21	24.15	20.07	44.23
LARice Combine Med	20 ft	150,000	300	10	7.10	0.210	3.53	3.40	8.40	15.33	12.76	28.10
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.69	0.22	0.06	0.97	0.41	1.39
SC Billet Harvester	6 ft	290,000	750	10	12.00	0.700	11.78	19.15	27.06	57.99	32.47	90.46
SC Harvester 1Rw	6 ft	115,000	400	12	6.80	0.875	14.72	13.56	20.96	49.25	26.80	76.05
SC Harvester 2Rw	12 ft	210,000	400	12	8.00	0.388	6.53	7.07	16.97	30.58	21.70	52.28
SC Loader 1Rw	6 ft	85,000	425	10	5.10	0.598	6.83	6.96	8.74	22.54	14.55	37.09
SC Loader 2Rw	12 ft	150,000	425	10	7.00	0.300	3.42	4.79	7.73	15.95	12.88	28.84
SC Transloader		30,000	120	12	4.70	0.250	2.85	2.67	3.75	9.28	6.65	15.94
SC Truck&Trailer	30 Ton	45,000	400	10	7.00	1.000	11.41	15.96	7.87	35.25	13.67	48.92
Sprayer (300-450Gal)	47'	0	350	8	5.40	0.022	0.40	0.27	0.00	0.68	0.00	0.68
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.22	0.09	0.64	0.63	1.28
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.17	0.07	0.48	0.47	0.96
Sprayer(600-750Gal)	60'	193,000	350	8	10.29	0.017	0.31	0.41	0.18	0.91	1.19	2.11
Sprayer(600-825Gal)	80'	202,000	350	8	10.29	0.013	0.23	0.31	0.14	0.69	0.94	1.63
Sprayer(600-825Gal)	90'	279,000	350	8	10.29	0.011	0.21	0.27	0.17	0.66	1.15	1.81
Sprayer(1000-1400Gal)	90'	310,000	350	8	14.15	0.014	0.25	0.45	0.23	0.94	1.53	2.48
Sprayer(1200PlusGal)	120'	334,000	350	8	15.44	0.008	0.15	0.31	0.15	0.62	1.03	1.66

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Blade-Box	6'	2WD 130	1,180	200	20	0.020	0.20	0.30	0.01	0.06	0.58	0.00	0.38	0.98
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	1,190	200	20	1.176	12.21	6.90	0.66	0.77	20.55	0.52	4.66	25.75
Blade-Scraper	10'	2WD 50	3,550	200	20	1.176	12.21	6.90	1.98	0.77	21.87	1.58	4.66	28.12
Blade-Scraper	14'	2WD 50	6,860	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.19	1.76	0.93	0.37	4.27	1.62	2.23	8.14
Chisel Plow(Folding)	24'	MFWD 190	39,300	150	12	0.076	0.79	1.70	1.08	0.41	3.99	1.88	2.60	8.48
Chisel Plow(Folding)	32'	MFWD 225	51,000	150	12	0.057	0.59	1.52	1.06	0.37	3.56	1.84	2.38	7.80
Chisel Plow(Folding)	42'	MFWD 225	61,600	150	12	0.044	0.45	1.16	0.97	0.28	2.88	1.69	1.81	6.40
Chisel Plow(Rigid)	15'	2WD 130	11,600	150	12	0.123	1.27	1.88	0.51	0.39	4.07	0.89	2.38	7.35
Chisel Plow(Rigid)	24'	MFWD 190	11,700	150	12	0.077	0.79	1.71	0.32	0.41	3.25	0.56	2.62	6.44
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	0.91	1.96	0.21	0.39	3.48	0.37	2.47	6.33
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.71	1.80	0.34	0.44	3.31	0.60	2.82	6.75
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	0.91	1.96	0.61	0.39	3.88	1.05	2.47	7.41
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.71	1.80	0.59	0.44	3.56	1.02	2.82	7.42
Corn Grain Cart 8R30	500 bu	MFWD 190	24,000	200	12	0.031	0.33	0.71	0.20	0.17	1.42	0.36	1.08	2.87
Corn Grain Cart 8R40	700bu	MFWD 190	36,700	200	12	0.025	0.25	0.55	0.24	0.13	1.20	0.43	0.85	2.48
Cult & Post	4R-38	2WD 105	17,600	150	10	0.173	2.69	2.13	0.81	0.32	5.97	2.14	1.96	10.08
Cult & Post	6R-30	MFWD 150	21,700	150	10	0.146	4.56	2.58	0.84	0.60	8.59	2.24	3.61	14.45
Cult & Post	6R-38	MFWD 150	22,600	150	10	0.115	1.80	2.03	0.69	0.47	5.01	1.84	2.85	9.70
Cult & Post	8R-30	MFWD 190	26,000	150	10	0.110	1.71	2.45	0.76	0.59	5.52	2.01	3.74	11.28
Cult & Post	8R-38	MFWD 190	27,000	150	10	0.086	1.35	1.93	0.62	0.47	4.38	1.65	2.96	9.00
Cult & Post	8R-38 2x1	MFWD 190	44,500	150	10	0.057	0.90	1.29	0.68	0.31	3.19	1.81	1.97	6.97
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.37	2.32	0.75	0.57	5.02	1.98	3.63	10.64
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	1.01	1.71	0.00	0.42	3.15	0.00	2.68	5.84
Cult & Post	12R-30	MFWD 225	41,500	150	10	0.073	1.14	1.93	0.81	0.48	4.37	2.14	3.03	9.54
Cult & Post	12R-38	MFWD 225	44,500	150	10	0.057	0.90	1.52	0.68	0.37	3.49	1.81	2.39	7.70
Cultipacker	12'	2WD 130	4,846	300	12	0.124	1.29	1.89	0.14	0.40	3.73	0.19	2.41	6.33
Cultipacker	20'	MFWD 150	15,200	300	12	0.074	0.77	1.31	0.26	0.30	2.66	0.36	1.83	4.86
Cultivate	4R-38	2WD 105	12,200	150	10	0.162	1.68	2.00	0.52	0.30	4.52	1.39	1.84	7.75
Cultivate	6R-30	MFWD 150	16,300	150	10	0.137	1.42	2.42	0.59	0.56	5.00	1.57	3.38	9.97
Cultivate	6R-38	MFWD 150	17,200	150	10	0.108	1.12	1.91	0.49	0.44	3.97	1.31	2.67	7.96
Cultivate	8R-30	MFWD 190	20,600	150	10	0.103	1.07	2.29	0.56	0.55	4.49	1.49	3.51	9.50
Cultivate	8R-38	MFWD 190	21,600	150	10	0.081	0.84	1.81	0.46	0.44	3.57	1.24	2.77	7.58
Cultivate	8R-38 2x1	MFWD 190	37,500	150	10	0.054	0.56	1.21	0.54	0.29	2.61	1.43	1.84	5.89
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.85	2.17	0.62	0.54	4.19	1.63	3.40	9.24
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.67	1.71	0.00	0.42	2.82	0.00	2.68	5.50
Cultivate	12R-30	MFWD 225	36,200	150	10	0.068	0.71	1.81	0.66	0.45	3.64	1.75	2.84	8.23
Cultivate	12R-38	MFWD 225	37,500	150	10	0.054	0.56	1.43	0.54	0.35	2.89	1.43	2.24	6.57
Disk & Incorporate	14'	2WD 130	30,100	200	10	0.149	2.33	2.28	1.35	0.48	6.44	2.37	2.89	11.72
Disk & Incorporate	24'	MFWD 190	46,900	200	10	0.087	1.35	1.94	1.22	0.47	5.00	2.16	2.97	10.14
Disk & Incorporate	32'	4WD 225	61,000	200	10	0.068	1.07	1.81	1.25	0.31	4.45	2.21	1.98	8.66
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.76	1.29	0.44	0.32	2.83	0.79	2.02	5.65
Disk Bed (Hipper)	4R-38	MFWD 150	9,200	160	10	0.147	1.53	2.59	0.33	0.60	5.07	0.89	3.63	9.60
Disk Bed (Hipper)	6R-30	MFWD 170	15,100	160	10	0.125	1.29	2.49	0.47	0.59	4.86	1.24	3.76	9.87
Disk Bed (Hipper)	6R-38	MFWD 170	13,000	160	10	0.098	1.02	1.96	0.32	0.47	3.78	0.84	2.97	7.60
Disk Bed (Hipper)	8R-30	MFWD 190	14,400	160	10	0.093	0.97	2.09	0.33	0.50	3.90	0.89	3.19	7.99
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	29,200	160	10	0.049	0.51	1.10	0.36	0.26	2.23	0.95	1.67	4.87
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.77	1.98	0.37	0.49	3.62	0.98	3.09	7.70
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.61	1.56	0.34	0.38	2.90	0.90	2.44	6.25
Disk Bed (Hipper)	12R-30	MFWD 225	28,400	160	10	0.062	0.64	1.65	0.44	0.41	3.15	1.17	2.58	6.90
Disk Bed (Hipper)	12R-38	MFWD 225	29,200	160	10	0.049	0.51	1.30	0.36	0.32	2.49	0.95	2.03	5.48
Disk Bed (Hipper)Fld	8R-38	MFWD 190	20,000	160	10	0.074	0.76	1.65	0.37	0.40	3.19	0.97	2.52	6.69
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	15,600	160	10	0.074	0.76	1.65	0.28	0.40	3.11	0.76	2.52	6.39
Disk Bed w/roller	8R-30	2WD 190	26,600	160	10	0.093	0.97	2.09	0.62	0.41	4.10	1.64	2.63	8.39
Disk Bed w/roller	12R-30	MFWD 225	44,300	160	10	0.062	0.64	1.65	0.69	0.41	3.40	1.82	2.58	7.81
Disk Harrow	14'	2WD 130	24,400	180	10	0.140	1.45	2.14	0.95	0.45	4.99	2.00	2.71	9.72
Disk Harrow	24'	MFWD 190	42,500	180	10	0.081	0.84	1.82	0.96	0.44	4.08	2.04	2.78	8.91
Disk Harrow	28'	MFWD 225	50,400	180	10	0.070	0.72	1.85	0.98	0.46	4.02	2.07	2.89	8.99
Disk Harrow	32'	MFWD 225	53,900	180	10	0.061	0.82	0.00	0.91	0.00	0.00	1.94	0.00	0.00
Disk Harrow	42'	MFWD 225	94,400	180	10	0.046	0.48	1.23	1.22	0.30	3.25	2.59	1.93	7.77
Ditcher		2WD 130	5,700	200	10	0.020	0.20	0.30	0.04	0.06	0.62	0.06	0.38	1.07
Ditcher (1m/160a)		2WD 130	5,700	200	10	0.009	0.09	0.14	0.02	0.03	0.29	0.02	0.18	0.50
Fert Appl (Liquid)	4R-38	MFWD 150	12,900	150	8	0.154	2.40	2.72	1.33	0.63	7.09	1.50	3.81	12.40
Fert Appl (Liquid)	6R-30	MFWD 170	16,300	150	8	0.130	2.03	2.61	1.42	0.62	6.70	1.60	3.94	12.24
Fert Appl (Liquid)	6R-38	MFWD 170	15,600	150	8	0.103	1.60	2.06	1.07	0.49	5.24	1.21	3.11	9.56
Fert Appl (Liquid)	8R-30	MFWD 190	16,300	150	8	0.098	1.52	2.18	1.06	0.53	5.31	1.20	3.34	9.86
Fert Appl (Liquid)	8R-38	MFWD 190	18,400	150	8	0.077	1.20	1.73	0.95	0.41	4.31	1.07	2.64	8.02
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	19,700	150	8	0.051	0.80	1.15	0.67	0.27	2.91	0.76	1.75	5.44
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.22	2.07	0.97	0.51	4.78	1.09	3.24	9.13
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	0.96	1.63	0.83	0.40	3.84	0.94	2.56	7.35
Fert Appl (Liquid)	12R-30	MFWD 225	20,000	150	8	0.078	1.22	2.07	1.04	0.51	4.86	1.18	3.24	9.29
Fert Appl (Liquid)	12R-38	MFWD 225	19,000	150	8	0.051	0.80	1.36	0.65	0.33	3.16	0.73	2.13	6.03
Field Cult & Inc	12'	2WD 150	15,800	100	10	0.132	2.05	2.32	0.52	0.44	5.35	2.20	2.68	10.24
Field Cult & Inc	24'	MFWD 170	34,500	100	10	0.066	1.02	1.31	0.57	0.31	3.23	2.40	1.99	7.63

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
-----\$/acre-----														
Field Cultivate	32'	MFWD 190	38,500	100	10	0.046	0.48	1.04	0.44	0.25	2.22	1.89	1.58	5.71
Field Cultivate	42'	MFWD 225	52,600	100	10	0.035	0.36	0.93	0.46	0.23	2.00	1.97	1.46	5.45
Field Cultivate	50'	MFWD 225	62,100	100	10	0.029	0.30	0.78	0.46	0.19	1.75	1.95	1.23	4.95
Gate Installer		2WD 130	2,960	10	10	0.020	0.41	0.30	0.17	0.06	0.96	0.60	0.38	1.95
Grain Drill	12'	2WD 130	25,200	150	8	0.157	3.26	2.39	1.48	0.50	7.65	2.84	3.04	13.53
Grain Drill	15'	MFWD 150	31,800	150	8	0.125	2.60	2.21	1.49	0.51	6.83	2.86	3.09	12.80
Grain Drill	20'	MFWD 170	37,300	150	8	0.094	1.95	1.88	1.31	0.45	5.60	2.52	2.83	10.96
Grain Drill	24'	MFWD 190	63,000	150	8	0.078	1.63	1.75	1.85	0.42	5.66	3.55	2.67	11.88
Grain Drill	30'	MFWD 225	59,500	150	8	0.062	1.30	1.65	1.40	0.41	4.77	2.68	2.59	10.06
Grain Drill & Pre	12'	2WD 130	30,600	150	8	0.169	3.51	2.58	1.94	0.54	8.58	3.71	3.27	15.57
Grain Drill & Pre	15'	MFWD 150	37,200	150	8	0.135	2.81	2.38	1.88	0.55	7.63	3.61	3.33	14.58
Grain Drill & Pre	20'	MFWD 170	42,700	150	8	0.101	2.10	2.02	1.62	0.48	6.24	3.11	3.05	12.41
Grain Drill & Pre	24'	MFWD 190	68,400	150	8	0.084	1.75	1.88	2.17	0.45	6.27	4.15	2.88	13.30
Grain Drill & Pre	30'	MFWD 225	64,800	150	8	0.067	1.40	1.78	1.64	0.44	5.28	3.14	2.79	11.22
Harrow	13'	2WD 130	4,360	200	10	0.119	1.23	1.82	0.18	0.38	3.62	0.27	2.31	6.21
Harrow	21'	2WD 150	6,750	200	10	0.073	0.76	1.30	0.17	0.24	2.49	0.26	1.50	4.25
Harrow	40'	MFWD 190	17,400	200	10	0.038	0.40	0.86	0.23	0.20	1.71	0.35	1.32	3.39
Harrow	47'	MFWD 190	22,700	200	10	0.033	0.34	0.73	0.26	0.17	1.52	0.39	1.12	3.04
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.71	5.66	1.26	3.38	13.02	1.90	13.35	28.28
Header - Corn	6R30"	240hp	47,300	300	8	0.170	2.30	4.79	2.01	2.86	11.97	3.02	11.30	26.30
Header - Corn	6R38"	240hp	47,700	300	8	0.134	1.81	3.78	1.60	2.26	9.46	2.41	8.92	20.80
Header - Corn	8R-30	240hp	61,500	300	8	0.127	1.72	3.59	1.96	2.14	9.43	2.95	8.47	20.86
Header - Corn	8R-38	275hp	62,100	300	8	0.100	1.36	3.25	1.56	3.44	9.63	2.35	13.61	25.60
Header - Corn	12R-20	275hp	94,400	300	8	0.127	1.72	4.12	3.01	4.36	13.22	4.53	17.21	34.97
Header - Corn	12R-30	275hp	96,300	300	8	0.085	1.15	2.74	2.04	2.90	8.85	3.08	11.47	23.41
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	3.89	8.12	4.64	4.85	21.51	6.98	19.15	47.65
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.42	7.14	4.08	4.27	18.93	6.14	16.85	41.94
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.85	6.82	3.91	7.22	20.82	5.89	28.51	55.24
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.37	7.03	4.02	4.20	18.64	6.05	16.59	41.30
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.97	6.19	3.54	3.70	16.41	5.32	14.60	36.34
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.47	5.91	3.39	6.26	18.05	5.10	24.71	47.87
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.30	4.79	0.00	2.86	9.96	0.00	11.30	21.26
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.91	3.99	0.72	2.38	9.02	1.08	9.42	19.52
Header - Soybean	22' Flex	240hp	32,400	300	8	0.116	1.56	3.26	0.94	1.95	7.73	1.41	7.70	16.85
Header - Soybean	25' Flex	275hp	34,600	300	8	0.102	1.38	3.29	0.88	3.49	9.05	1.32	13.77	24.15
Header - Soybean	30' Flex	275hp	41,400	300	8	0.085	1.15	2.74	0.88	2.90	7.68	1.32	11.47	20.49
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.91	3.99	0.67	2.38	8.97	1.01	9.42	19.41
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.56	3.26	0.57	1.95	7.36	0.86	7.70	15.93
Header Wheat/Sorghum	25' Rigid	240hp	20,500	300	8	0.102	1.38	2.87	0.52	1.71	6.50	0.78	6.78	14.07
Header Wheat/Sorghum	30' Rigid	275hp	23,600	300	8	0.085	1.15	2.74	0.50	2.90	7.30	0.75	11.47	19.54
Header-Cotton Bcast	13'	173hp	21,300	200	8	0.251	6.01	4.63	1.00	6.68	18.35	3.02	26.39	47.77
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	4.88	3.76	0.91	5.43	15.00	2.74	21.44	39.19
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	4.11	3.17	0.84	4.57	12.71	2.54	18.05	33.32
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	7.82	6.03	1.25	8.69	23.80	3.78	34.31	61.91
Header-Cotton-Brush	4R30"2X1	173hp	34,400	200	8	0.218	5.21	4.02	1.40	5.79	16.43	4.23	22.87	43.54
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	6.15	4.74	1.64	6.84	19.39	4.94	27.01	51.36
Header-Cotton-Brush	4R38"2X1	173hp	36,000	200	8	0.172	4.11	3.17	1.16	4.57	13.03	3.49	18.05	34.59
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	6.25	4.82	2.10	6.95	20.14	6.32	27.44	53.91
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	4.95	3.81	1.72	5.50	15.99	5.17	21.71	42.88
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	5.21	4.02	2.15	5.79	17.18	6.48	22.87	46.55
Heavy Disk	14'	MFWD 150	24,800	180	10	0.145	1.51	2.56	1.00	0.59	5.68	2.12	3.59	11.40
Heavy Disk	21'	MFWD 170	40,600	180	10	0.097	1.00	1.94	1.09	0.46	4.51	2.31	2.92	9.76
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.78	1.68	1.05	0.40	3.94	2.23	2.57	8.75
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.62	1.05	0.13	0.24	2.05	0.14	1.47	3.67
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.51	5.41	0.29	1.31	9.53	0.77	8.26	18.56
Land Plane	50'x16'	MFWD 190	14,300	200	10	0.151	1.57	3.38	0.43	0.81	6.20	1.14	5.16	12.51
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.19	8.80	2.64	2.04	18.67	3.64	12.31	34.64
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	1.97	3.34	0.15	0.77	6.25	0.65	4.68	11.59
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.51	1.76	0.07	0.44	2.80	0.18	2.80	5.79
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.55	5.27	0.23	1.33	8.40	0.48	8.40	17.29
Levee Splitter (1/80	2 blade	2WD 150	7,180	50	10	0.004	0.04	0.07	0.00	0.01	0.13	0.06	0.08	0.28
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.51	3.24	0.26	0.78	5.81	0.48	4.95	11.24
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.24	2.11	0.36	0.49	4.21	1.13	2.96	8.31
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.18	2.54	0.55	0.61	4.90	1.75	3.88	10.54
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	0.93	2.01	0.38	0.48	3.82	1.20	3.07	8.09
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.62	1.34	0.41	0.32	2.70	1.29	2.04	6.04
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	0.94	2.41	0.62	0.59	4.58	1.97	3.77	10.33
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.74	1.90	0.54	0.47	3.66	1.70	2.97	8.34
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.62	1.58	0.41	0.39	3.01	1.29	2.48	6.79
Module Builder-1st	6R-38 (325)	MFWD 190	34,700	200	10	0.172	3.57	3.84	1.49	0.93	9.84	3.03	5.86	18.75
Module Builder-2nd	2R-38 (157)	MFWD 190	34,700	200	10	0.440	9.13	9.81	3.81	2.37	25.15	7.76	14.98	47.90
Module Builder-2nd	4R-30 (255)	MFWD 190	34,700	200	10	0.277	5.75	6.18	2.40	1.49	15.84	4.89	9.44	30.17
Module Builder-2nd	4R-30 (325)	MFWD 190	34,700	200	10	0.277	5.75	6.18	2.40	1.49	15.84	4.89	9.44	30.17
Module Builder-2nd	4R-38 (255)	MFWD 190	34,700	200	10	0.218	4.53	4.86	1.89	1.18	12.47	3.85	7.43	23.76
Module Builder-2nd	4R-38 (325)	MFWD 190	34,700	200	10	0.218	4.53	4.86	1.89	1.18	12.47	3.85	7.43	23.76
Module Builder-2nd	4R2x1 255	MFWD 190	34,700	200	10	0.145	3.02	3.25	1.26	0.78	8.33	2.57	4.96	15.88

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
-----\$/acre-----														
Module Builder-2nd	5R-30 (255)	MFWD 190	34,700	200	10	0.221	4.60	4.94	1.92	1.19	12.67	3.91	7.55	24.14
Module Builder-2nd	5R-38 (255)	MFWD 190	34,700	200	10	0.175	3.64	3.91	1.52	0.94	10.02	3.09	5.97	19.09
Module Builder-2nd	6R-30 (325)	MFWD 190	34,700	200	10	0.184	3.83	4.12	1.60	0.99	10.56	3.26	6.29	20.11
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	6.79	5.76	2.84	1.34	16.73	5.77	8.06	30.58
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.53	3.84	1.89	0.89	11.15	3.85	5.37	20.38
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.35	4.53	2.23	1.05	13.18	4.54	6.35	24.07
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.57	3.03	1.49	0.70	8.81	3.03	4.24	16.09
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.43	4.61	2.27	1.07	13.39	4.62	6.45	24.46
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.30	3.64	1.79	0.84	10.59	3.65	5.10	19.35
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.53	3.84	1.89	0.89	11.15	3.85	5.37	20.38
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.70	1.79	0.00	0.44	2.95	0.00	2.81	5.76
NT Grain Drill	12'	2WD 130	42,200	150	8	0.163	3.39	2.49	2.59	0.52	9.01	4.95	3.17	17.13
NT Grain Drill	15'	MFWD 150	49,200	150	8	0.130	2.71	2.30	2.41	0.53	7.97	4.62	3.22	15.82
NT Grain Drill	20'	MFWD 170	66,300	150	8	0.098	2.03	1.95	2.44	0.46	6.90	4.67	2.95	14.53
NT Grain Drill	24'	MFWD 190	75,600	150	8	0.081	1.69	1.82	2.32	0.44	6.28	4.43	2.78	13.51
NT Grain Drill	30'	MFWD 225	89,000	150	8	0.065	1.35	1.72	2.18	0.42	5.70	4.18	2.70	12.58
NT Grain Drill & Pre	12'	2WD 130	47,500	150	8	0.176	3.65	2.68	3.14	0.56	10.05	6.00	3.41	19.47
NT Grain Drill & Pre	15'	MFWD 150	54,600	150	8	0.141	2.92	2.48	2.88	0.57	8.87	5.52	3.47	17.87
NT Grain Drill & Pre	20'	MFWD 170	71,600	150	8	0.105	2.19	2.11	2.83	0.50	7.65	5.43	3.18	16.26
NT Grain Drill & Pre	24'	MFWD 190	81,000	150	8	0.088	1.82	1.96	2.67	0.47	6.94	5.12	3.00	15.07
NT Grain Drill & Pre	30'	MFWD 225	94,300	150	8	0.070	1.46	1.86	2.49	0.46	6.28	4.76	2.91	13.96
NT Plant&Pre-Folding	8R-38	MFWD 170	56,700	150	8	0.083	1.73	1.66	1.77	0.39	5.58	3.40	2.51	11.49
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	88,200	150	8	0.055	1.15	1.11	1.84	0.26	4.37	3.52	1.67	9.57
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.75	1.88	1.82	0.45	5.92	3.49	2.88	12.30
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.38	1.48	1.32	0.36	4.55	2.53	2.27	9.36
NT Plant&Pre-Folding	12R-20	MFWD 190	72,100	150	8	0.105	2.19	2.35	2.85	0.57	7.98	5.47	3.60	17.05
NT Plant&Pre-Folding	12R-30	MFWD 190	77,500	150	8	0.070	1.46	1.57	2.04	0.38	5.46	3.91	2.40	11.78
NT Plant&Pre-Folding	12R-38	MFWD 190	88,200	150	8	0.055	1.15	1.24	1.84	0.30	4.53	3.52	1.89	9.95
NT Plant&Pre-Folding	16R-30	MFWD 190	114,000	150	8	0.052	1.09	1.17	2.26	0.28	4.82	4.32	1.80	10.94
NT Plant&Pre-Folding	23R-15	MFWD 190	150,000	150	8	0.073	1.52	1.63	4.13	0.39	7.69	7.90	2.50	18.09
NT Plant&Pre-Folding	24R-20	MFWD 190	153,000	150	8	0.052	1.09	1.17	3.03	0.28	5.59	5.80	1.80	13.20
NT Plant&Pre-Folding	24R-30	MFWD 190	188,000	150	8	0.035	0.73	0.78	2.48	0.19	4.19	4.75	1.20	10.14
NT Plant&Pre-Rigid	4R-30	2WD 130	28,200	150	8	0.211	4.39	3.22	2.23	0.68	10.53	4.27	4.09	18.91
NT Plant&Pre-Rigid	4R-38	2WD 130	30,800	150	8	0.166	3.45	2.54	1.92	0.53	8.45	3.67	3.22	15.36
NT Plant&Pre-Rigid	6R-30	MFWD 150	39,300	150	8	0.141	2.92	2.48	2.07	0.57	8.06	3.97	3.47	15.51
NT Plant&Pre-Rigid	6R-38	MFWD 150	36,200	150	8	0.111	2.31	1.95	1.51	0.45	6.23	2.89	2.74	11.87
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	2.98	2.87	1.41	0.68	7.96	2.70	4.33	15.00
NT Plant&Pre-Rigid	8R-30	MFWD 170	46,900	150	8	0.105	2.19	2.11	1.86	0.50	6.67	3.55	3.18	13.41
NT Plant&Pre-Rigid	8R-38	MFWD 170	43,200	150	8	0.077	1.60	1.53	1.25	0.36	4.76	2.39	2.32	9.47
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	1.75	1.88	1.64	0.45	5.74	3.15	2.88	11.77
NT Plant&Pre-Rigid	12R-20	MFWD 190	57,700	150	8	0.105	2.19	2.35	2.28	0.57	7.41	4.37	3.60	15.39
NT Plant&Pre-Rigid	12R-30	MFWD 190	72,400	150	8	0.070	1.46	1.57	1.91	0.38	5.33	3.66	2.40	11.39
NT Plant-Folding	8R-38	MFWD 170	51,300	150	8	0.077	1.61	1.54	1.49	0.37	5.02	2.85	2.33	10.22
NT Plant-Folding	8R-38 2x1	MFWD 170	81,200	150	8	0.051	1.07	1.03	1.57	0.24	3.92	3.01	1.55	8.49
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.63	1.75	1.53	0.42	5.34	2.93	2.67	10.95
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.28	1.38	1.10	0.33	4.11	2.11	2.10	8.33
NT Plant-Folding	12R-20	MFWD 190	66,700	150	8	0.098	2.03	2.18	2.45	0.53	7.21	4.69	3.34	15.25
NT Plant-Folding	12R-30	MFWD 190	70,400	150	8	0.065	1.35	1.45	1.72	0.35	4.90	3.30	2.22	10.43
NT Plant-Folding	12R-38	MFWD 190	81,200	150	8	0.051	1.07	1.15	1.57	0.27	4.07	3.01	1.75	8.84
NT Plant-Folding	16R-30	MFWD 190	107,000	150	8	0.049	1.01	1.09	1.97	0.26	4.35	3.76	1.67	9.79
NT Plant-Folding	23R-15	MFWD 190	143,000	150	8	0.068	1.41	1.52	3.65	0.36	6.96	6.99	2.32	16.28
NT Plant-Folding	24R-20	MFWD 190	156,000	150	8	0.049	1.01	1.09	2.87	0.26	5.25	5.49	1.67	12.41
NT Plant-Folding	24R-30	MFWD 190	171,000	150	8	0.032	0.67	0.72	2.09	0.17	3.68	4.01	1.11	8.81
NT Plant-Rigid	4R-30	2WD 130	22,900	150	8	0.196	4.07	2.99	1.68	0.63	9.39	3.22	3.80	16.42
NT Plant-Rigid	4R-38	2WD 130	25,500	150	8	0.154	3.21	2.35	1.47	0.49	7.54	2.82	2.99	13.37
NT Plant-Rigid	6R-30	MFWD 150	34,000	150	8	0.130	2.71	2.30	1.66	0.53	7.22	3.19	3.22	13.64
NT Plant-Rigid	6R-38	MFWD 150	30,900	150	8	0.103	2.14	1.81	1.19	0.42	5.58	2.29	2.54	10.42
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	2.77	2.66	1.05	0.63	7.13	2.02	4.02	13.18
NT Plant-Rigid	8R-30	MFWD 170	41,600	150	8	0.098	2.03	1.95	1.53	0.46	6.00	2.93	2.95	11.88
NT Plant-Rigid	8R-38	MFWD 170	37,800	150	8	0.077	1.61	1.54	1.10	0.37	4.63	2.10	2.33	9.07
NT Plant-Rigid	10R-30	MFWD 190	46,500	150	8	0.078	1.63	1.75	1.37	0.42	5.17	2.62	2.67	10.47
NT Plant-Rigid	12R-20	MFWD 190	52,300	150	8	0.098	2.03	2.18	1.92	0.53	6.68	3.68	3.34	13.71
NT Plant-Rigid	12R-30	MFWD 190	65,400	150	8	0.065	1.35	1.45	1.60	0.35	4.77	3.07	2.22	10.07
Paratill & Bed	4R-30	MFWD 225	13,500	150	12	0.204	2.12	5.39	0.99	1.34	9.85	1.72	8.44	20.02
Paratill & Bed	4R-38	MFWD 225	13,500	150	12	0.160	1.67	4.24	0.78	1.05	7.75	1.36	6.64	15.76
Paratill & Bed	6R-30	MFWD 225	19,900	150	12	0.136	1.41	3.59	0.97	0.89	6.88	1.69	5.62	14.21
Paratill & Bed	6R-38	MFWD 225	18,800	150	12	0.107	1.11	2.83	0.73	0.70	5.39	1.26	4.44	11.10
Paratill & Bed	8R-30	MFWD 225	25,000	150	12	0.102	1.06	2.69	0.92	0.67	5.35	1.60	4.22	11.17
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.55	1.41	1.34	0.35	3.67	2.32	2.22	8.22
Paratill & Bed Fold.	8R-38	MFWD 225	54,400	150	12	0.080	0.83	2.13	1.58	0.52	5.08	2.75	3.33	11.17
Paratill & Bed Fold.	12R-38	MFWD 225	69,100	150	12	0.053	0.55	1.41	1.34	0.35	3.67	2.32	2.22	8.22
Paratill & Bed Rigid	8R-38	MFWD 225	22,600	150	12	0.080	0.83	2.13	0.65	0.52	4.15	1.14	3.33	8.64
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.53	0.91	0.00	0.17	1.63	0.02	1.05	2.70
Pipe Spool 160ac	1/4m roll	2WD 130	3,600	15	12	0.003	0.08	0.04	0.00	0.01	0.15	0.07	0.06	0.28
Pipe Trailer 1m/160a	30'	2WD 130	1,380	100	15	0.003	0.17	0.05	0.00	0.01	0.24	0.00	0.07	0.32
Plant & Pre Folding	8R-38	MFWD 170	52,000	150	8	0.080	1.66	1.60	1.56	0.38	5.21	2.99	2.41	10.62
Plant & Pre Folding	8R38 2x1	MFWD 170	81,200	150	8	0.053	1.10	1.06	1.62	0.25	4.05	3.11	1.60	8.78
Plant & Pre Folding	10R-30	MFWD 190	52,920	150	8	0.081	1.68	1.81	1.61	0.43	5.54	3.08	2.76	11.39
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.32	1.42	1.15	0.34	4.26	2.21	2.18	8.66
Plant & Pre Folding	12R-20	MFWD 190	65,100	150	8	0.101	2.10	2.26	2.47	0.54	7.39	4.74	3.45	15.59
Plant & Pre Folding	12R-30	MFWD 190	70,500	150	8	0.067	1.40	1.50	1.78	0.36	5.07	3.42	2.30	10.79

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Plant & Pre Folding	12R-38	MFWD 190	81,200	150	8	0.053	1.10	1.19	1.62	0.28	4.21	3.11	1.81	9.14
Plant & Pre Folding	16R-30	MFWD 190	105,000	150	8	0.050	1.05	1.13	1.99	0.27	4.45	3.82	1.72	10.01
Plant & Pre Folding	23R-15	MFWD 190	137,000	150	8	0.070	1.46	1.57	3.62	0.38	7.03	6.92	2.40	16.36
Plant & Pre Folding	24R-20	MFWD 190	148,000	150	8	0.050	1.05	1.13	2.81	0.27	5.27	5.38	1.72	12.39
Plant & Pre Folding	24R-30	MFWD 190	174,000	150	8	0.033	0.70	0.75	2.20	0.18	3.84	4.22	1.15	9.22
Plant & Pre Rigid	4R-30	2WD 130	25,900	150	8	0.203	4.21	3.09	1.97	0.65	9.94	3.77	3.93	17.64
Plant & Pre Rigid	4R-38	2WD 130	28,500	150	8	0.159	3.31	2.43	1.70	0.51	7.98	3.26	3.09	14.34
Plant & Pre Rigid	6R-30	MFWD 150	25,900	150	8	0.135	2.81	2.38	1.31	0.55	7.06	2.51	3.33	12.91
Plant & Pre Rigid	6R-38	MFWD 150	32,700	150	8	0.106	2.21	1.88	1.31	0.43	5.84	2.50	2.63	10.98
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	2.86	2.75	1.22	0.66	7.50	2.33	4.15	13.99
Plant & Pre Rigid	8R-30	MFWD 170	42,300	150	8	0.101	2.10	2.02	1.61	0.48	6.22	3.08	3.05	12.36
Plant & Pre Rigid	8R-38	MFWD 170	38,500	150	8	0.080	1.66	1.60	1.15	0.38	4.81	2.21	2.41	9.44
Plant & Pre Rigid	10R-30	MFWD 190	46,000	150	8	0.081	1.68	1.81	1.40	0.43	5.33	2.68	2.76	10.78
Plant & Pre Rigid	12R-20	MFWD 190	50,700	150	8	0.101	2.10	2.26	1.93	0.54	6.85	3.69	3.45	14.00
Plant & Pre Rigid	12R-30	MFWD 190	65,400	150	8	0.067	1.40	1.50	1.66	0.36	4.94	3.17	2.30	10.42
Plant - Folding	8R-38	MFWD 170	46,600	150	8	0.074	1.54	1.48	1.30	0.35	4.69	2.49	2.24	9.42
Plant - Folding	8R-38 2x1	MFWD 170	74,200	150	8	0.049	1.03	0.99	1.38	0.23	3.63	2.64	1.49	7.77
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.56	1.68	1.34	0.40	4.99	2.56	2.56	10.13
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.23	1.32	0.95	0.32	3.84	1.83	2.02	7.70
Plant - Folding	12R-20	MFWD 190	59,700	150	8	0.094	1.95	2.10	2.11	0.50	6.68	4.03	3.20	13.92
Plant - Folding	12R-30	MFWD 190	63,400	150	8	0.062	1.30	1.40	1.49	0.33	4.54	2.85	2.13	9.53
Plant - Folding	12R-38	MFWD 190	74,200	150	8	0.049	1.03	1.10	1.38	0.26	3.78	2.64	1.68	8.11
Plant - Folding	16R-30	MFWD 190	97,900	150	8	0.047	0.97	1.05	1.73	0.25	4.01	3.31	1.60	8.93
Plant - Folding	23R-15	MFWD 190	130,000	150	8	0.065	1.35	1.45	3.19	0.35	6.36	6.10	2.22	14.69
Plant - Folding	24R-20	MFWD 190	141,000	150	8	0.047	0.97	1.05	2.49	0.25	4.77	4.76	1.60	11.15
Plant - Folding	24R-30	MFWD 190	156,000	150	8	0.031	0.65	0.70	1.83	0.16	3.36	3.51	1.06	7.94
Plant - Rigid	4R-30	2WD 130	20,500	150	8	0.188	3.91	2.87	1.44	0.60	8.84	2.77	3.65	15.27
Plant - Rigid	4R-38	2WD 130	23,100	150	8	0.148	3.08	2.26	1.28	0.47	7.11	2.46	2.87	12.44
Plant - Rigid	6R-30	MFWD 150	30,500	150	8	0.125	2.60	2.21	1.43	0.51	6.77	2.75	3.09	12.62
Plant - Rigid	6R-38	MFWD 150	27,400	150	8	0.099	2.06	1.74	1.01	0.40	5.23	1.95	2.44	9.62
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	2.65	2.55	0.88	0.61	6.70	1.69	3.85	12.25
Plant - Rigid	8R-30	MFWD 170	36,900	150	8	0.094	1.95	1.88	1.30	0.45	5.59	2.49	2.83	10.92
Plant - Rigid	8R-38	MFWD 170	33,100	150	8	0.074	1.54	1.48	0.92	0.35	4.31	1.76	2.24	8.32
Plant - Rigid	10R-30	MFWD 190	40,700	150	8	0.075	1.56	1.68	1.15	0.40	4.80	2.20	2.56	9.57
Plant - Rigid	12R-20	MFWD 190	45,300	150	8	0.094	1.95	2.10	1.60	0.50	6.17	3.06	3.20	12.44
Plant - Rigid	12R-30	MFWD 190	58,300	150	8	0.062	1.30	1.40	1.37	0.33	4.42	2.62	2.13	9.18
Plant - Rigid	15R-15	2WD 150	55,500	150	8	0.094	1.95	1.65	1.96	0.31	5.89	3.75	1.91	11.56
Pull Levee (1m/80a)	4 blade	2WD 50	3,180	100	10	0.003	0.03	0.02	0.00	0.00	0.06	0.01	0.01	0.08
Rice Grain Cart	500 Bu	MFWD 190	24,000	200	12	0.057	0.59	1.27	0.37	0.30	2.54	0.64	1.94	5.13
Rice Grain Cart	700 Bu	MFWD 190	36,700	200	12	0.063	0.65	1.41	0.63	0.34	3.04	1.09	2.16	6.30
Roller	32'	MFWD 170	22,800	100	12	0.046	0.48	0.93	0.17	0.22	1.81	0.99	1.40	4.22
Rotary Cutter	7'	MFWD 130	4,760	185	10	0.168	1.74	2.56	0.64	0.59	5.56	0.45	3.57	9.59
Rotary Cutter	12'	2WD 150	11,600	185	10	0.098	1.01	1.72	0.92	0.33	4.00	0.65	1.99	6.64
Row Cond & Inc	13'	2WD 130	14,600	100	10	0.137	2.14	2.10	0.50	0.44	5.20	2.12	2.67	10.00
Row Cond & Inc	21'	2WD 170	18,400	100	10	0.085	1.32	1.70	0.39	0.41	3.84	1.66	2.62	8.12
Row Cond & Inc	26'	MFWD 190	20,700	100	10	0.063	0.98	1.41	0.32	0.34	3.07	1.38	2.15	6.61
Row Cond & Inc	38'	MFWD 225	26,100	100	10	0.047	0.73	1.24	0.30	0.30	2.59	1.30	1.95	5.85
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.62	1.06	0.20	0.26	2.15	0.86	1.66	4.68
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.19	1.75	0.20	0.36	3.52	0.88	2.22	6.63
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.73	1.41	0.21	0.34	2.71	0.90	2.18	5.80
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.59	1.28	0.17	0.31	2.36	0.75	1.95	5.07
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.40	1.03	0.21	0.25	1.92	0.92	1.62	4.46
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.36	0.93	0.13	0.23	1.67	0.58	1.46	3.73
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.63	2.39	0.27	0.50	4.81	1.18	3.04	9.04
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	1.00	1.94	0.28	0.47	3.71	1.20	2.98	7.89
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.81	1.75	0.24	0.42	3.23	1.02	2.67	6.94
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.55	1.41	0.22	0.35	2.55	0.94	2.22	5.71
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.50	1.28	0.18	0.31	2.29	0.80	2.01	5.10
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.07	2.05	1.02	0.50	4.65	1.04	3.16	8.86
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.71	1.53	0.98	0.30	3.54	1.00	1.93	6.47
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.33	2.57	1.28	0.62	5.82	1.30	3.95	11.07
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	0.89	1.91	1.23	0.38	4.42	1.25	2.41	8.09
RT Cult + PD (Early)	8R-30	2WD 150	20,774	200	12	0.110	1.71	1.93	1.09	0.37	5.11	1.10	2.23	8.45
RT Cult + PD (Early)	12R-30	MFWD 225	29,998	200	12	0.073	1.14	1.93	1.05	0.48	4.61	1.06	3.03	8.71
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.14	2.74	1.73	0.67	7.28	1.75	4.22	13.25
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.42	2.04	1.55	0.40	5.43	1.57	2.57	9.59
Spin Spreader	5 ton	MFWD 190	12,400	100	8	0.042	0.87	0.93	0.29	0.22	2.33	0.58	1.43	4.35
Spin Spreader	5 ton	MFWD 190	12,400	100	8	0.042	0.87	0.93	0.29	0.22	2.33	0.58	1.43	4.35
Spray (Band)	27'	MFWD 170	5,350	200	8	0.062	0.97	1.25	0.15	0.29	2.68	0.18	1.88	4.75
Spray (Band)	40'	MFWD 170	7,050	200	8	0.042	0.65	0.84	0.13	0.20	1.84	0.16	1.27	3.28
Spray (Band)	50'	MFWD 170	11,200	200	8	0.033	0.52	0.67	0.17	0.16	1.54	0.21	1.01	2.77
Spray (Band)	53'	MFWD 170	9,940	200	8	0.031	0.49	0.63	0.14	0.15	1.43	0.17	0.96	2.57
Spray (Band)	60'	MFWD 170	17,800	200	8	0.028	0.43	0.56	0.23	0.13	1.37	0.28	0.84	2.50
Spray (Bcast/HB)	13' Rigid	MFWD 150	6,600	200	8	0.130	2.02	2.29	0.40	0.53	5.25	0.48	3.20	8.94
Spray (Bcast/HB)	20' Rigid	2WD 50	7,700	200	8	0.084	1.31	0.49	0.30	0.05	2.17	0.36	0.33	2.87
Spray (Bcast/HB)	27' Fold	MFWD 170	11,000	200	8	0.062	0.97	1.25	0.32	0.29	2.84	0.38	1.88	5.12

Appendix Table 8. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
-----\$/acre-----														
Spray (Bcast/HB)	27' Rigid	MFWD 170	9,300	200	8	0.062	0.97	1.25	0.27	0.29	2.79	0.32	1.88	5.01
Spray (Bcast/HB)	30' Fold	MFWD 170	16,800	200	8	0.056	0.87	1.12	0.44	0.26	2.71	0.53	1.69	4.95
Spray (Bcast/HB)	40' Fold	MFWD 170	17,500	200	8	0.042	0.65	0.84	0.34	0.20	2.05	0.41	1.27	3.74
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	0.97	1.25	0.65	0.29	3.18	0.79	1.88	5.86
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.65	0.84	0.63	0.20	2.34	0.76	1.27	4.38
Spray (Broadcast)	27'	MFWD 170	5,350	200	8	0.062	0.97	1.25	0.15	0.29	2.68	0.18	1.88	4.75
Spray (Broadcast)	40'	MFWD 170	7,050	200	8	0.042	0.65	0.84	0.13	0.20	1.84	0.16	1.27	3.28
Spray (Broadcast)	50'	MFWD 170	11,200	200	8	0.033	0.52	0.67	0.17	0.16	1.54	0.21	1.01	2.77
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.49	0.63	0.14	0.15	1.43	0.17	0.96	2.57
Spray (Broadcast)	60'	MFWD 170	17,800	200	8	0.028	0.43	0.56	0.23	0.13	1.37	0.28	0.84	2.50
Spray (Direct/Hood)	8R-30	MFWD 170	15,900	200	8	0.084	1.31	1.68	0.63	0.40	4.04	0.75	2.54	7.34
Spray (Direct/Hood)	8R-38	MFWD 170	17,000	200	8	0.066	1.04	1.33	0.53	0.31	3.22	0.64	2.01	5.88
Spray (Direct/Hood)	12R-30	MFWD 170	22,600	200	8	0.056	0.87	1.12	0.59	0.26	2.87	0.71	1.69	5.28
Spray (Direct/Hood)	12R-38	MFWD 170	23,000	200	8	0.044	0.69	0.88	0.48	0.21	2.27	0.57	1.34	4.19
Spray (Direct/Layby)	8R-30	MFWD 170	10,900	200	8	0.084	1.31	1.68	0.43	0.40	3.84	0.52	2.54	6.91
Spray (Direct/Layby)	8R-38	MFWD 170	10,900	200	8	0.066	1.04	1.33	0.34	0.31	3.03	0.41	2.01	5.46
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	14,300	200	8	0.044	0.69	0.88	0.29	0.21	2.09	0.35	1.34	3.79
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.05	1.35	0.38	0.32	3.11	0.46	2.03	5.61
Spray (Direct/Layby)	12R-30	MFWD 170	14,300	200	8	0.056	0.87	1.12	0.37	0.26	2.65	0.45	1.69	4.80
Spray (Direct/Layby)	12R-38	MFWD 170	14,300	200	8	0.044	0.69	0.88	0.29	0.21	2.09	0.35	1.34	3.79
Spray (Direct/Layby)	16R-20	MFWD 170	10,000	200	8	0.063	0.98	1.26	0.29	0.30	2.85	0.35	1.90	5.11
Spray (Spot)	27'	MFWD 170	5,350	200	8	0.062	0.97	1.25	0.15	0.29	2.68	0.18	1.88	4.75
Spray (Spot)	40'	MFWD 170	7,050	200	8	0.042	0.65	0.84	0.13	0.20	1.84	0.16	1.27	3.28
Spray (Spot)	50'	MFWD 170	11,200	200	8	0.033	0.52	0.67	0.17	0.16	1.54	0.21	1.01	2.77
Spray (Spot)	53'	MFWD 170	9,940	200	8	0.031	0.49	0.63	0.14	0.15	1.43	0.17	0.96	2.57
Spray (Spot)	60'	MFWD 170	17,800	200	8	0.028	0.43	0.56	0.23	0.13	1.37	0.28	0.84	2.50
Stalk Shredder	14'	MFWD 150	12,100	200	10	0.117	1.22	2.07	1.24	0.48	5.02	0.75	2.90	8.68
Stalk Shredder	20'	MFWD 150	27,700	200	10	0.082	0.85	1.45	1.99	0.33	4.64	1.20	2.03	7.88
Stalk Shredder-Flail	12'	MFWD 150	21,800	200	10	0.137	1.42	2.42	2.62	0.56	7.03	1.58	3.38	12.00
Stalk Shredder-Flail	20'	MFWD 150	27,500	200	10	0.082	0.85	1.45	1.98	0.33	4.63	1.19	2.03	7.86
Subsoiler	3 shank	MFWD 190	4,550	100	15	0.204	2.12	4.55	0.30	1.10	8.09	0.76	6.95	15.81
Subsoiler	4 shank	MFWD 225	8,900	100	15	0.153	1.59	4.05	0.45	1.00	7.11	1.12	6.34	14.59
Subsoiler	5 shank	MFWD 225	12,100	100	15	0.122	1.27	3.23	0.49	0.80	5.79	1.22	5.05	12.07
Subsoiler low-till	4 shank	MFWD 225	10,800	100	15	0.153	1.59	4.05	0.55	1.00	7.21	1.36	6.34	14.92
Subsoiler low-till	6 shank	MFWD 225	17,100	100	15	0.102	1.06	2.69	0.58	0.67	5.01	1.44	4.22	10.67
Subsoiler low-till	8 shank	MFWD 225	17,300	100	15	0.076	0.79	2.02	0.44	0.50	3.75	1.09	3.16	8.01
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.67	4.24	0.83	1.05	7.80	1.44	6.64	15.89
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.11	2.83	0.75	0.70	5.41	1.30	4.44	11.16
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.12	5.39	1.05	1.34	9.91	1.83	8.44	20.18
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.41	3.59	0.75	0.89	6.65	1.30	5.62	13.59
Boll Buggy-1st Pick	2R38"157hp	MFWD 190	30,500	200	10	0.519	5.39	11.58	3.96	2.80	23.75	8.05	17.69	49.50
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	1.78	3.84	1.31	0.93	7.87	2.67	5.86	16.41
Boll Buggy-1st pick	4R30"255hp	MFWD 190	30,500	200	10	0.327	3.39	7.29	2.49	1.76	14.96	5.07	11.14	31.18
Boll Buggy-1st pick	4R30"325hp	MFWD 190	30,500	200	10	0.327	3.39	7.29	2.49	1.76	14.96	5.07	11.14	31.18
Boll Buggy-1st pick	4R38"255hp	MFWD 190	30,500	200	10	0.257	2.67	5.74	1.96	1.39	11.78	3.99	8.77	24.55
Boll Buggy-1st pick	4R38"325hp	MFWD 190	30,500	200	10	0.257	2.67	5.74	1.96	1.39	11.78	3.99	8.77	24.55
Boll Buggy-1st pick	5R30"255hp	MFWD 190	30,500	200	10	0.261	2.71	5.83	1.99	1.41	11.97	4.06	8.91	24.94
Boll Buggy-1st pick	5R38"255hp	MFWD 190	30,500	200	10	0.207	2.15	4.62	1.57	1.12	9.47	3.21	7.05	19.73
Boll Buggy-1st pick	6R30"325hp	MFWD 190	30,500	200	10	0.218	2.26	4.86	1.66	1.17	9.97	3.38	7.42	20.79
Boll Buggy-1st pick	6R38"325hp	MFWD 190	30,500	200	10	0.172	1.78	3.84	1.31	0.93	7.87	2.67	5.86	16.41
Boll Buggy-2nd pick	2R38"157hp	MFWD 190	30,500	200	10	0.440	4.56	9.81	3.35	2.37	20.12	6.82	14.98	41.93
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.51	3.25	1.11	0.78	6.67	2.26	4.96	13.90
Boll Buggy-2nd pick	4R30"255hp	MFWD 190	30,500	200	10	0.277	2.87	6.18	2.11	1.49	12.67	4.29	9.44	26.41
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.26	4.86	1.66	1.18	9.98	3.38	7.43	20.79
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.26	4.86	1.66	1.18	9.98	3.38	7.43	20.79
Boll Buggy-2nd pick	5R30"255hp	MFWD 190	30,500	200	10	0.221	2.30	4.94	1.69	1.19	10.14	3.43	7.55	21.13
Boll Buggy-2nd pick	5R38"255hp	MFWD 190	30,500	200	10	0.175	1.82	3.91	1.33	0.94	8.02	2.72	5.97	16.71
Boll Buggy-2nd pick	6R30"325hp	MFWD 190	30,500	200	10	0.184	1.91	4.12	1.40	0.99	8.45	2.86	6.29	17.61
Boll Buggy-2nd pick	6R38"325hp	MFWD 190	30,500	200	10	0.145	1.51	3.25	1.11	0.78	6.67	2.26	4.96	13.90
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.61	4.43	1.92	1.03	9.99	3.90	6.20	20.10
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.12	3.60	1.56	0.83	8.12	3.17	5.04	16.33
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	1.78	3.03	1.31	0.70	6.84	2.67	4.24	13.75
Boll Buggy-Stripper	4R30"2X1Br	MFWD 150	30,500	200	10	0.218	2.26	3.84	1.66	0.89	8.66	3.38	5.37	17.42
Boll Buggy-Stripper	4R30"Brush	MFWD 150	30,500	200	10	0.327	3.39	5.76	2.49	1.34	12.99	5.07	8.06	26.13
Boll Buggy-Stripper	4R38"2X1Br	MFWD 150	30,500	200	10	0.172	1.78	3.03	1.31	0.70	6.84	2.67	4.24	13.75
Boll Buggy-Stripper	4R38"Brush	MFWD 150	30,500	200	10	0.257	2.67	4.53	1.96	1.05	10.23	3.99	6.35	20.58
Boll Buggy-Stripper	5R30"Brush	MFWD 150	30,500	200	10	0.261	2.71	4.61	1.99	1.07	10.39	4.06	6.45	20.91
Boll Buggy-Stripper	5R38"Brush	MFWD 150	30,500	200	10	0.207	2.15	3.64	1.57	0.84	8.22	3.21	5.10	16.54
Boll Buggy-Stripper	6R30"Brush	MFWD 150	30,500	200	10	0.218	2.26	3.84	1.66	0.89	8.66	3.38	5.37	17.42