
**2015
Projected
Commodity
Costs
And
Returns**

**Crawfish Production in
Louisiana**

Robert W. Boucher and Jeffrey M. Gillespie



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**Louisiana State University Agricultural Center
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INTRODUCTION

Crawfish production enterprises, like other farm enterprises, require advanced planning to make production decisions that are likely to result in profit. The purpose of this report is to provide production cost estimates for crawfish enterprises. These estimates may assist producers in making decisions and obtaining adequate financing. Crawfish production and its associated costs differ considerably among producers and resource situations. The projected costs presented here should not be interpreted as averages for producers in the industry. The purpose of the cost projections is to provide guidelines whereby producers and others with an interest in crawfish production costs can make cost estimates appropriate to their unique situations.

Data used in development of the budgets are a combination of information obtained directly from producers, Louisiana Cooperative Extension Service specialists and Louisiana Agricultural Experiment Station scientists. Current machinery and other input price data were combined with production practice data using the Microcomputer Enterprise Budget Generator developed at Mississippi State University. Fixed costs were estimated based on typical rates of use and sizes of operations. Production budget estimates are presented on a 'per acre' basis to facilitate using the estimates for different sized operations. Overhead costs associated with operation of the farm business have been allocated as a residual claimant on a per acre basis in the enterprise budgets, but have not been included in the computation of breakeven selling prices. Estimates are based on surveys and information provided by researchers and Louisiana Cooperative Extension Service personnel.

Budgets are presented for three owner-operator situations without aeration that typify producers included in a 2008 survey: 1) Southwest Louisiana single crop ponds (Table 3), 2) Southwest Louisiana rice-crawfish double crop (Table 4), and 3) Southwest Louisiana rice-crawfish double crop in a fallow rotation (Table 5). Fixed costs for non-aerated systems are based on a 120-acre production unit consisting of six 20-acre ponds configured in two 60-acre units.

Harvesting is assumed to be performed by one person using a hydraulic boat with 14 traps per acre for the single crop and 9 traps for the double crop and rotational systems. In Southwest Louisiana, harvesting is assumed to occur every third day during December through February and every other day during March through May.

Seasonal yield distributions reflect those reported by producers surveyed in 2008. Total season yields are not absolute sample averages, but reflect typical yields reported by respondents. No crawfish returns are included since there are no publicly published sources of crawfish prices. Marketing costs included in the budgets assume that the product is sold to processors and wholesalers in Southwest Louisiana.

Table 1 presents a summary comparison of projected costs and yields per acre for the three crawfish production situations. Breakeven selling prices required to recover costs are presented in Table 2 for five alternative yield levels for each crawfish situation. Tables with an "A" designation provide estimated cost budgets, whereas tables with a "B" designation show detailed costs for operations.

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Table 1. A Summary of Projected Costs per Acre for Crawfish and Crawfish-Rice Production in Louisiana, 2015.

Crop Description	Yield Per Acre	Direct Expenses	Fixed Expenses	Total Expenses
	Pounds	----- Dollars per Acre -----		
Crawfish Enterprises:				
Southwest Louisiana, Owner				
Single Crop Crawfish, b	600.00	475.05	156.13	631.18
Crawfish-Rice Double Crop, a b c	600+4200	817.62	159.92	977.54
Crawfish-Rice in Rotation, a b d	600+6800	896.61	174.76	1071.37

a Land costs are not included.

b Yield includes 600 lbs of crawfish and 42 cwt of rice.

c Yield includes 600 lbs of crawfish and 68 cwt of rice.

Table 2. Breakeven Selling Prices for Crawfish for Selected Yield Levels, Louisiana, 2015.

	Total Costs a	Total Variable Costs	Base Yield Level	-20	-10	Yield Level Base	10	20
	--Dollar/Acre---		lb.	----- Dollars/Lb.-----				
PRICES REQUIRED TO RECOVER TOTAL SPECIFIED COSTS								
Crawfish Enterprises:								
Southwest Louisiana, Owner								
Single Crop Crawfish, Owner	631.18		600	1.31	1.17	1.05	0.96	0.88
Crawfish-Rice Double Crop, b	653.57		600	1.36	1.21	1.09	0.99	0.91
Crawfish-Rice in Rotation, b	429.68		600	0.89	0.80	0.72	0.65	0.60
PRICES REQUIRED TO RECOVER VARIABLE COSTS								
Crawfish Enterprises:								
Southwest Louisiana								
Single Crop Crawfish, Owner		475.05	600	0.99	0.88	0.79	0.72	0.66
Crawfish-Rice Double Crop, b		587.76	600	1.22	1.09	0.98	0.89	0.82
Crawfish-Rice in Rotation, b		349.03	600	0.73	0.65	0.58	0.53	0.49

a Land costs are not included.

b Breakeven Selling Prices for Crawfish double cropped with rice represents the net cost of producing crawfish in the double crop situation compared to producing rice alone.

Table 3.A Estimated Costs per Acre,
Single Crop Crawfish, Owner-Operator,
Southwest Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Crawfish (Dec - May)	lbs		600.0000	-----	_____
TOTAL INCOME					
DIRECT EXPENSES					
CUSTOM					
Airplane seed	cwt	5.60	1.4000	7.84	_____
Global pos. system	acre	0.35	2.0000	0.70	_____
Airplane fert	cwt	6.50	0.7500	4.87	_____
BAIT					
Crawfish bait (fish)	lbs	0.49	175.0000	85.75	_____
Manuf. crawfish bait	lbs	0.30	180.0000	54.00	_____
FERTILIZER					
Urea (45%)	lbs	0.25	75.0000	18.93	_____
HIRED LABOR					
Irrigation labor	hour	9.60	1.8500	17.76	_____
OTHER					
Hip boots	pair	74.95	0.0083	0.62	_____
Sacks	each	0.40	18.1824	7.27	_____
SEED					
Rice seed	lbs	0.38	120.0000	45.60	_____
OPERATOR LABOR					
Tractors	hour	9.60	0.3491	3.35	_____
Self-Propelled Eq.	hour	9.60	6.2605	60.10	_____
IRRIGATION LABOR					
Crawf irrig single	hour	9.60	0.2846	2.73	_____
DIESEL FUEL					
Tractors	gal	2.75	1.7397	4.78	_____
Self-Propelled Eq.	gal	2.75	1.0075	2.77	_____
Crawf irrig single	gal	2.75	44.5500	122.51	_____
GASOLINE					
Self-Propelled Eq.	gal	3.40	1.5975	5.43	_____
REPAIR & MAINTENANCE					
Implements	acre	2.17	1.0000	2.17	_____
Tractors	acre	0.75	1.0000	0.75	_____
Self-Propelled Eq.	acre	3.17	1.0000	3.17	_____
Crawf irrig single	acin	0.15	33.0000	4.95	_____
Crawf pond&eq single	acre	7.18	1.0000	7.18	_____
INTEREST ON OP. CAP.	acre	11.77	1.0000	11.77	_____
TOTAL DIRECT EXPENSES				475.05	_____
FIXED EXPENSES					
Implements	acre	4.58	1.0000	4.58	_____
Tractors	acre	4.41	1.0000	4.41	_____
Self-Propelled Eq.	acre	8.65	1.0000	8.65	_____
Crawf irrig single	acin	1.30	33.0000	43.21	_____
Crawf pond&eq single	acre	95.26	1.0000	95.26	_____
TOTAL FIXED EXPENSES				156.13	_____
TOTAL SPECIFIED EXPENSES				631.19	_____
ALLOCATED COST ITEMS					
Overhead (owner)	acre	30.00	1.0000	30.00	_____
Land (oppor. cost)	acre	90.00	1.0000	90.00	_____

Table 4.A Estimated Costs per Acre,
Rice-Crawfish Double Crop, Owner-Operator,
Southwest Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	cwt	15.00	42.0000	630.00	_____
Rice Checkoff	cwt	0.08	-42.0000	-3.36	_____
Crawfish (Dec- April)	lbs		600.0000		_____

TOTAL INCOME				636.64	_____
DIRECT EXPENSES					
CUSTOM					
Airplane fert	cwt	6.50	4.4000	28.60	_____
Global pos. system	acre	0.35	4.0000	1.40	_____
Airplane seed	cwt	5.60	1.4000	7.84	_____
App by air	appl	6.00	1.0000	6.00	_____
Drying rice	cwt	0.90	47.1900	42.47	_____
Haul rice	cwt	0.30	42.0000	12.60	_____
BAIT					
Crawfish bait (fish)	lbs	0.49	131.2500	64.31	_____
Manuf. crawfish bait	lbs	0.30	90.0000	27.00	_____
FERTILIZER					
Nitrogen	lbs	0.50	125.0000	62.50	_____
Phosphate	lbs	0.61	50.0000	30.50	_____
Potash	lbs	0.34	50.0000	17.00	_____
HERBICIDES					
Propanil	qt	8.04	3.0000	24.12	_____
HIRED LABOR					
Other labor	hour	9.60	0.0900	0.86	_____
Irrigation labor	hour	9.60	2.8000	26.88	_____
OTHER					
Rice gate	each	3.65	1.0000	3.65	_____
Seed crawfish	lbs	1.00	60.0000	60.00	_____
Hip boots	pair	74.95	0.0083	0.62	_____
Sacks	each	0.40	18.1807	7.27	_____
SEED					
Rice seed	lbs	0.38	120.0000	45.60	_____
OPERATOR LABOR					
Tractors	hour	9.60	1.1259	10.80	_____
Self-Propelled Eq.	hour	9.60	5.1675	49.60	_____
IRRIGATION LABOR					
Crawf irrig double	hour	9.60	0.4398	4.22	_____
OWNER LABOR					
Self-Propelled Eq.	hour	15.30	0.3303	5.05	_____
DIESEL FUEL					
Tractors	gal	2.75	7.2248	19.86	_____
Self-Propelled Eq.	gal	2.75	3.3325	9.16	_____
Crawf irrig double	gal	2.75	68.8500	189.33	_____
GASOLINE					
Self-Propelled Eq.	gal	3.40	1.3275	4.51	_____
REPAIR & MAINTENANCE					
Implements	acre	3.70	1.0000	3.70	_____
Tractors	acre	3.23	1.0000	3.23	_____
Self-Propelled Eq.	acre	15.74	1.0000	15.74	_____
Crawf irrig double	acin	0.15	51.0000	7.65	_____
Crawf pond&eq double	acre	0.74	1.0000	0.74	_____
INTEREST ON OP. CAP.	acre	24.73	1.0000	24.73	_____

TOTAL DIRECT EXPENSES				817.62	_____
FIXED EXPENSES					
Implements	acre	8.24	1.0000	8.24	_____
Tractors	acre	18.79	1.0000	18.79	_____
Self-Propelled Eq.	acre	26.49	1.0000	26.49	_____
Crawf irrig double	acin	1.30	51.0000	66.78	_____
Crawf pond&eq double	acre	39.60	1.0000	39.60	_____

TOTAL FIXED EXPENSES				159.92	_____

TOTAL SPECIFIED EXPENSES				977.54	_____
ALLOCATED COST ITEMS					
Overhead (owner)	acre	30.00	1.0000	30.00	_____
Land (oppor. cost)	acre	90.00	1.0000	90.00	_____

Table 5.A Estimated Costs per Acre,
Rice-Crawfish, in Field Rotation,
Owner-Operator, Southwest Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	cwt	15.00	68.0000	1020.00	_____
Rice Checkoff	cwt	0.08	-68.0000	-5.44	_____
Crawfish (Jan - June)	lbs		600.0000		_____

TOTAL INCOME				1014.56	_____
DIRECT EXPENSES					
CUSTOM					
Airplane fert	cwt	6.50	3.8000	24.70	_____
Global pos. system	acre	0.35	9.0000	3.15	_____
Airplane seed	cwt	5.60	1.2000	6.72	_____
App by air	appl	6.00	5.0000	30.00	_____
Drying rice	cwt	0.90	75.0000	67.50	_____
Haul rice	cwt	0.30	68.0000	20.40	_____
BAIT					
Crawfish bait (fish)	lbs	0.49	90.0000	44.10	_____
Manuf. crawfish bait	lbs	0.30	120.0000	36.00	_____
FERTILIZER					
Nitrogen	lbs	0.50	130.0000	65.00	_____
Phosphate	lbs	0.61	40.0000	24.40	_____
Potash	lbs	0.34	60.0000	20.40	_____
FUNGICIDES					
Quadris	oz	1.95	10.0000	19.50	_____
HERBICIDES					
Facet 75DF	lb	50.00	0.5000	25.00	_____
Londax 60DF	oz	17.25	1.0000	17.25	_____
2,4-D Amine 4	pt	1.85	2.5000	4.62	_____
HIRED LABOR					
Other labor	hour	9.60	0.0500	0.48	_____
Irrigation labor	hour	9.60	2.0000	19.20	_____
INSECTICIDES					
Karate Z	oz	3.40	4.0000	13.60	_____
OTHER					
Rice gate	each	3.65	1.0000	3.65	_____
Seed crawfish	lbs	1.00	60.0000	60.00	_____
Hip boots	pair	74.95	0.0083	0.62	_____
Sacks	each	0.40	18.1824	7.27	_____
SEED					
Rice seed	lbs	0.38	120.0000	45.60	_____
OPERATOR LABOR					
Tractors	hour	9.60	1.1192	10.74	_____
Self-Propelled Eq.	hour	9.60	5.0140	48.13	_____
IRRIGATION LABOR					
Crawf irrig double	hour	9.60	0.3944	3.78	_____
OWNER LABOR					
Self-Propelled Eq.	hour	15.30	0.3303	5.05	_____
DIESEL FUEL					
Tractors	gal	2.75	12.4264	34.17	_____
Self-Propelled Eq.	gal	2.75	3.5675	9.81	_____
Crawf irrig double	gal	2.75	61.7355	169.77	_____
GASOLINE					
Self-Propelled Eq.	gal	3.40	1.2600	4.28	_____
REPAIR & MAINTENANCE					
Implements	acre	3.83	1.0000	3.83	_____
Tractors	acre	6.78	1.0000	6.78	_____
Self-Propelled Eq.	acre	15.92	1.0000	15.92	_____
Crawf irrig double	acin	0.15	45.7300	6.85	_____
Crawf pond&eq double	acre	0.74	2.0000	1.48	_____
INTEREST ON OP. CAP.	acre	16.79	1.0000	16.79	_____
TOTAL DIRECT EXPENSES				896.61	_____
FIXED EXPENSES					
Implements	acre	7.73	1.0000	7.73	_____
Tractors	acre	40.68	1.0000	40.68	_____
Self-Propelled Eq.	acre	26.85	1.0000	26.85	_____
Crawf irrig double	acin	1.30	45.7300	59.88	_____
Crawf pond&eq double	acre	39.60	1.0000	39.60	_____
TOTAL FIXED EXPENSES				174.76	_____
TOTAL SPECIFIED EXPENSES				1071.37	_____
ALLOCATED COST ITEMS					
Overhead (owner)	acre	30.00	1.0000	30.00	_____
Land (oppor. cost)	acre	90.00	1.0000	90.00	_____

Table 3.B Estimated Resource Use and Costs for Field Operations, per Acre, Single Crop Crawfish, Owner-Operator, Southwest Louisiana, 2015.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Crawf pond&eq single acre	24 ft	150	0.081	1.00	Jul	4.12	3.77	7.18	95.26	0.163	1.57	1.0000			102.44
Disk	acin		1.00	2.00	Jul			1.93	3.94	0.012	0.12	1.5000			15.35
Crawf irrig single	hour			1.00	Jul			5.79	1.96			0.2500	9.60	2.40	7.88
Irrigation labor	cwt			1.00	Jul							1.4000	5.60	7.84	7.84
Airplane seed	lbs			1.00	Jul							120.0000	0.38	45.60	45.60
Rice seed	acre											1.0000	0.35	0.35	0.35
Global pos. system	6.7 ft	50	0.500	0.05	Jul	0.20	0.09	0.03	0.09	0.026	0.25				0.67
Rotary mower-levees	cwt			1.00	Jul							0.7500	6.50	4.87	4.87
Airplane fert	lbs											75.0000	0.25	18.93	18.93
Urea (45%)	acin			1.00	Aug			5.79	1.96	0.012	0.12	1.0000	0.35	0.35	0.35
Global pos. system	hour											1.5000			7.88
Crawf irrig single	hour											0.1000	9.60	0.96	0.96
Irrigation labor	6.7 ft	50	0.500	0.05	Aug	0.20	0.09	0.03	0.09	0.026	0.25				0.67
Rotary mower-levees	acin			1.00	Sep			5.79	1.96	0.012	0.12	1.5000			7.88
Crawf irrig single	hour											0.1000	9.60	0.96	0.96
Irrigation labor	6.7 ft	50	0.500	0.05	Sep	0.20	0.09	0.03	0.09	0.026	0.25				0.67
Rotary mower-levees	acin			1.00	Oct			46.35	15.71	0.103	0.99	12.0000			63.05
Crawf irrig single	pair											0.0083	74.95	0.62	0.62
Hip boots	hour											0.5000	9.60	4.80	4.80
Irrigation labor	6.7 ft	50	0.500	0.05	Oct	0.20	0.09	0.03	0.09	0.026	0.25				0.67
Rotary mower-levees	acin			1.00	Nov			15.45	5.23	0.034	0.33	4.0000			21.01
Crawf irrig single	hour											0.1000	9.60	0.96	0.96
Irrigation labor	12 hp		0.075	3.00	Dec			0.31	0.25	0.247	2.37				2.94
Crawfish combine	lbs											15.0000	0.49	7.35	7.35
Crawfish bait (fish)	each											0.7680	0.40	0.30	0.30
Sacks	acin			1.00	Dec			9.65	3.27	0.021	0.20	2.5000			13.13
Crawf irrig single	hour											0.1000	9.60	0.96	0.96
Irrigation labor	1/2 ton		1.000	0.04	Dec			0.41	0.28	0.043	0.41				1.11
Pickup truck	12 hp		0.075	12.00	Jan			1.26	1.01	0.990	9.50				11.78
Crawfish combine	lbs											60.0000	0.49	29.40	29.40
Crawfish bait (fish)	each											3.0720	0.40	1.22	1.22
Sacks	acin			1.00	Jan			7.72	2.61	0.017	0.16	2.0000			10.50
Crawf irrig single	hour											0.1000	9.60	0.96	0.96
Irrigation labor	1/2 ton		1.000	0.05	Jan			0.54	0.36	0.056	0.53				1.44
Pickup truck	12 hp		0.075	12.00	Feb			1.26	1.01	0.990	9.50				11.78
Crawfish combine	lbs											60.0000	0.49	29.40	29.40
Crawfish bait (fish)	each											3.0720	0.40	1.22	1.22
Sacks	acin			1.00	Feb			7.72	2.61	0.017	0.16	2.0000			10.50
Crawf irrig single	hour											0.1000	9.60	0.96	0.96
Irrigation labor	1/2 ton		1.000	0.05	Feb			0.49	0.33	0.051	0.48				1.31
Pickup truck	12 hp		0.075	16.00	Mar			1.68	1.35	1.320	12.67				15.71
Crawfish combine	lbs											40.0000	0.30	12.00	12.00
Manuf. crawfish bait	each											40.0000	0.49	19.60	19.60
Crawfish bait (fish)	lbs											4.0960	0.40	1.63	1.63
Sacks	acin			1.00	Mar			7.72	2.61	0.017	0.16	2.0000			10.50
Crawf irrig single	hour											0.1000	9.60	0.96	0.96
Irrigation labor	1/2 ton		1.000	0.08	Mar			0.83	0.56	0.086	0.82				2.22
Pickup truck	12 hp		0.075	16.00	Apr			1.68	1.35	1.320	12.67				15.71
Crawfish combine	lbs											80.0000	0.30	24.00	24.00
Manuf. crawfish bait	each											4.1024	0.40	1.64	1.64
Sacks	acin			1.00	Apr			7.72	2.61	0.017	0.16	2.0000			10.50
Crawf irrig single	hour											0.1000	9.60	0.96	0.96
Irrigation labor	1/2 ton		1.000	0.09	Apr			0.87	0.58	0.090	0.86				2.32
Pickup truck	6.7 ft	50	0.500	0.05	Apr	0.20	0.09	0.03	0.09	0.026	0.25				0.67
Rotary mower-levees	12 hp		0.075	12.00	May			1.26	1.01	0.990	9.50				11.78
Crawfish combine	lbs											60.0000	0.30	18.00	18.00
Manuf. crawfish bait	each											3.0720	0.40	1.22	1.22
Sacks	acin			1.00	May			7.72	2.61	0.017	0.16	2.0000			10.50
Crawf irrig single	hour											0.3000	9.60	2.88	2.88
Irrigation labor	1/2 ton		1.000	0.07	May			0.74	0.50	0.077	0.73				1.98
Pickup truck	6.7 ft	50	0.500	0.05	May	0.20	0.09	0.03	0.09	0.026	0.25				0.67
Rotary mower-levees	6.7 ft	50	0.500	0.05	Jun	0.20	0.09	0.03	0.09	0.026	0.25				0.67
Rotary mower-levees															
TOTALS						5.54	4.41	148.18	151.72	6.894	66.18			243.36	619.41
INTEREST ON OPERATING CAPITAL															11.77
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															631.19

Table 4.B Estimated Resource Use and Costs for Field Operations, per Acre, Rice-Crawfish Double Crop, Owner-Operator, Southwest Louisiana, 2015.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Crawf pond&eq double	acre			1.00	May			0.74	39.60			1.0000			40.34
Disk	24 ft	150	0.081	2.00	May	4.12	3.77	1.93	3.94	0.163	1.57				15.35
Airplane fert	cwt			1.00	May							3.0000	6.50	19.50	19.50
Nitrogen	lbs											62.0000	0.50	31.00	31.00
Phosphate	lbs											50.0000	0.61	30.50	30.50
Potash	lbs											50.0000	0.34	17.00	17.00
Global pos. system	acre											1.0000	0.35	0.35	0.35
Field cultivator	24 ft	150	0.062	1.00	May	1.56	1.43	0.40	1.64	0.062	0.59				5.65
Levee plow	8 Ft	150	0.050	3.00	May	3.77	3.45	0.23	0.54	0.150	1.44				9.45
Ditcher rotary	1.5 ft	105	0.020	1.00	May	0.33	0.22	0.03	0.05	0.020	0.19				0.84
Dozer blade	8 ft	105	0.880	0.10	May	1.48	1.00	0.09	0.21	0.088	0.84				3.64
Backhoe		105	0.500	0.10	May	0.84	0.57	0.26	0.35	0.050	0.48				2.51
Other labor	hour											0.0200	9.60	0.19	0.19
Crawf irrig double	acin			1.00	May			34.76	11.78	0.077	0.74	9.0000			47.29
Irrigation labor	hour											0.6000	9.60	5.76	5.76
Rice gate	each											1.0000	3.65	3.65	3.65
Water level	24 ft	150	0.149	1.00	May	3.77	3.45	0.23	0.46	0.149	1.43				9.36
Drag	14 ft	105	0.130	1.00	May	2.18	1.48	0.03	0.04	0.130	1.24				5.00
Airplane seed	cwt			1.00	May							1.4000	5.60	7.84	7.84
Rice seed	lbs											120.0000	0.38	45.60	45.60
Global pos. system	acre											1.0000	0.35	0.35	0.35
Seed crawfish	lbs			1.00	Jun							60.0000	1.00	60.00	60.00
Other labor	hour											0.0500	9.60	0.48	0.48
Crawf irrig double	acin			1.00	Jun			30.90	10.47	0.069	0.66	8.0000			42.03
Irrigation labor	hour											0.2000	9.60	1.92	1.92
App by air	appl			1.00	Jun							1.0000	6.00	6.00	6.00
Propanil	qt											3.0000	8.04	24.12	24.12
Global pos. system	acre											1.0000	0.35	0.35	0.35
Crawf irrig double	acin			1.00	Jul			30.90	10.47	0.069	0.66	8.0000			42.03
Airplane fert	cwt			1.00	Jul							1.4000	6.50	9.10	9.10
Nitrogen	lbs											63.0000	0.50	31.50	31.50
Global pos. system	acre											1.0000	0.35	0.35	0.35
Dozer blade	8 ft	105	0.880	0.10	Aug	1.48	1.00	0.09	0.21	0.088	0.84				3.64
Other labor	hour											0.0200	9.60	0.19	0.19
Combine Rice	25 Ft		0.300	1.00	Aug			20.31	19.52	0.330	5.05				44.89
Grain cart	500 bu	105	0.057	0.38	Aug	0.36	0.24	0.14	0.24	0.021	0.20				1.20
Drying rice	cwt			1.00	Aug							47.1900	0.90	42.47	42.47
Haul rice	cwt											42.0000	0.30	12.60	12.60
Dozer blade	8 ft	105	0.880	0.20	Aug	2.96	2.01	0.19	0.42	0.176	1.68				7.28
Crawf irrig double	acin			1.00	Oct			46.35	15.71	0.103	0.99	12.0000			63.05
Hip boots	pair											0.0083	74.95	0.62	0.62
Irrigation labor	hour											0.6000	9.60	5.76	5.76
Rotary mower-levees	6.7 ft	50	0.500	0.05	Oct	0.20	0.09	0.03	0.09	0.026	0.25				0.67
Crawf irrig double	acin			1.00	Nov			15.45	5.23	0.034	0.33	4.0000			21.01
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Crawfish combine	12 hp		0.075	3.00	Dec			0.31	0.25	0.247	2.37				2.94
Crawfish bait (fish)	lbs											11.2500	0.49	5.51	5.51
Sacks	each											0.9243	0.40	0.36	0.36
Crawf irrig double	acin			1.00	Dec			9.65	3.27	0.021	0.20	2.5000			13.13
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.04	Dec			0.41	0.28	0.043	0.41				1.11
Crawfish combine	12 hp		0.075	12.00	Jan			1.26	1.01	0.990	9.50				11.78
Crawfish bait (fish)	lbs											45.0000	0.49	22.05	22.05
Sacks	each											3.6972	0.40	1.47	1.47
Crawf irrig double	acin			1.00	Jan			5.79	1.96	0.012	0.12	1.5000			7.88
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Jan			0.54	0.36	0.056	0.53				1.44
Crawfish combine	12 hp		0.075	12.00	Feb			1.26	1.01	0.990	9.50				11.78
Crawfish bait (fish)	lbs											45.0000	0.49	22.05	22.05
Sacks	each											3.6984	0.40	1.47	1.47
Crawf irrig double	acin			1.00	Feb			7.72	2.61	0.017	0.16	2.0000			10.50
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Feb			0.49	0.33	0.051	0.48				1.31
Crawfish combine	12 hp		0.075	16.00	Mar			1.68	1.35	1.320	12.67				15.71
Manuf. crawfish bait	lbs											30.0000	0.30	9.00	9.00
Crawfish bait (fish)	lbs											30.0000	0.49	14.70	14.70
Sacks	each											4.9296	0.40	1.97	1.97
Crawf irrig double	acin			1.00	Mar			7.72	2.61	0.017	0.16	2.0000			10.50
Irrigation labor	hour											0.4000	9.60	3.84	3.84
Pickup truck	1/2 ton		1.000	0.08	Mar			0.83	0.56	0.086	0.82				2.22
Crawfish combine	12 hp		0.075	16.00	Apr			1.68	1.35	1.320	12.67				15.71
Manuf. crawfish bait	lbs											60.0000	0.30	18.00	18.00
Sacks	each											4.9312	0.40	1.97	1.97
Crawf irrig double	acin			1.00	Apr			7.72	2.61	0.017	0.16	2.0000			10.50
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.06	Apr			0.62	0.41	0.064	0.61				1.65
TOTALS						23.10	18.79	230.86	141.13	7.063	69.69			469.23	952.81
INTEREST ON OPERATING CAPITAL															24.73
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															977.54

Table 5.B Estimated Resource Use and Costs for Field Operations, per Acre, Rice-Crawfish, in Field Rotation, Owner-Operator, Southwest Louisiana, 2015.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING 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	4.47	3.43	1.73	3.53	0.122	1.17				14.35
Levee plow	8 Ft	4WD 300	0.050	2.00	Nov	5.11	5.27	0.15	0.36	0.100	0.96				11.86
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.72	2.74	0.16	0.12	0.105	1.01				6.78
Ditcher rotary	1.5 ft	MFWD 150	0.020	1.00	Nov	0.51	0.51	0.03	0.05	0.020	0.19				1.31
Field cultivator	32 ft	4WD 300	0.046	1.00	Feb	2.38	2.46	0.46	1.87	0.046	0.44				7.63
Airplane fert	cwt			1.00	Feb							1.5000	6.50	9.75	9.75
Nitrogen	lbs											70.0000	0.50	35.00	35.00
Global pos. system	acre											1.0000	0.35	0.35	0.35
Airplane fert	cwt			1.00	Feb							1.0000	6.50	6.50	6.50
Phosphate	lbs											40.0000	0.61	24.40	24.40
Potash	lbs											60.0000	0.34	20.40	20.40
Global pos. system	acre											1.0000	0.35	0.35	0.35
Ditcher rotary	1.5 ft	MFWD 150	0.020	1.00	Feb	0.51	0.51	0.03	0.05	0.020	0.19				1.31
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	2.72	2.74	0.16	0.12	0.105	1.01				6.78
Rice gate	each			1.00	Feb							1.0000	3.65	3.65	3.65
Backhoe		MFWD 150	0.500	0.05	Feb	0.64	0.64	0.13	0.17	0.025	0.24				1.84
Water level	24 ft	4WD 300	0.149	2.00	Feb	15.32	15.82	0.46	0.92	0.299	2.87				35.41
Crawf irrig double	acin			1.00	Mar			93.58	31.73	0.208	2.00	24.2300			127.32
Airplane seed	cwt			1.00	Apr							1.2000	5.60	6.72	6.72
Rice seed	lbs											120.0000	0.38	45.60	45.60
Global pos. system	acre											1.0000	0.35	0.35	0.35
App by air	appl			1.00	Apr							1.0000	6.00	6.00	6.00
Karate Z	oz											2.0000	3.40	6.80	6.80
Global pos. system	acre											1.0000	0.35	0.35	0.35
App by air	appl			1.00	Apr							1.0000	6.00	6.00	6.00
Facet 75DF	lb											0.5000	50.00	25.00	25.00
Londax 60DF	oz											1.0000	17.25	17.25	17.25
Global pos. system	acre											1.0000	0.35	0.35	0.35
App by air	appl			1.00	Jun							1.0000	6.00	6.00	6.00
2,4-D Amine 4	pt											2.5000	1.85	4.62	4.62
Global pos. system	acre											1.0000	0.35	0.35	0.35
Airplane fert	cwt			1.00	Jun							1.3000	6.50	8.45	8.45
Nitrogen	lbs											60.0000	0.50	30.00	30.00
Global pos. system	acre											1.0000	0.35	0.35	0.35
App by air	appl			1.00	Jun							1.0000	6.00	6.00	6.00
Quadris	oz											10.0000	1.95	19.50	19.50
Global pos. system	acre											1.0000	0.35	0.35	0.35
Seed crawfish	lbs			1.00	Jun							60.0000	1.00	60.00	60.00
Other labor	hour											0.0500	9.60	0.48	0.48
App by air	appl			1.00	Jul							1.0000	6.00	6.00	6.00
Karate Z	oz											2.0000	3.40	6.80	6.80
Global pos. system	acre											1.0000	0.35	0.35	0.35
Combine Rice	25 Ft		0.300	1.00	Aug			20.31	19.52	0.330	5.05				44.89
Grain cart	500 bu	MFWD 150	0.057	0.20	Aug	0.29	0.29	0.07	0.12	0.011	0.10				0.90
Drying rice	cwt			1.00	Aug							75.0000	0.90	67.50	67.50
Haul rice	cwt			1.00	Aug							68.0000	0.30	20.40	20.40
Blade-Scraper	10'	MFWD 150	1.176	0.20	Aug	6.04	6.11	0.36	0.28	0.235	2.25				15.06
Crawf irrig double	acin			1.00	Oct			23.17	7.85	0.051	0.49	6.0000			31.52
Hip boots	pair											0.0083	74.95	0.62	0.62
Irrigation labor	hour											0.6000	9.60	5.76	5.76
Crawf pond&eq double	acre			1.00	Oct			0.74	39.60			1.0000			40.34
Rotary mower-levees	6.7 ft	50	0.500	0.05	Oct	0.20	0.09	0.03	0.09	0.026	0.25				0.67
Crawf irrig double	acin			1.00	Nov			15.45	5.23	0.034	0.33	4.0000			21.01
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Crawf irrig double	acin			1.00	Dec			7.72	2.61	0.017	0.16	2.0000			10.50
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Crawfish combine	12 hp		0.075	8.00	Jan			0.84	0.67	0.660	6.33				7.85
Crawfish bait (fish)	lbs											30.0000	0.49	14.70	14.70
Sacks	each											2.5968	0.40	1.03	1.03
Crawf irrig double	acin			1.00	Jan			5.79	1.96	0.012	0.12	1.5000			7.88
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Jan			0.54	0.36	0.056	0.53				1.44
Crawf pond&eq double	acre			1.00	Jan			0.74				1.0000			0.74
Crawfish combine	12 hp		0.075	10.00	Feb			1.05	0.84	0.825	7.92				9.81
Crawfish bait (fish)	lbs											37.5000	0.49	18.37	18.37
Sacks	each											3.2460	0.40	1.29	1.29
Crawf irrig double	acin			1.00	Feb			7.72	2.61	0.017	0.16	2.0000			10.50
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Feb			0.49	0.33	0.051	0.48				1.31
Crawfish combine	12 hp		0.075	12.00	Mar			1.26	1.01	0.990	9.50				11.78
Manuf. crawfish bait	lbs											22.5000	0.30	6.75	6.75
Crawfish bait (fish)	lbs											22.5000	0.49	11.02	11.02
Sacks	each											3.8952	0.40	1.55	1.55
Crawf irrig double	acin			1.00	Mar			7.72	2.61	0.017	0.16	2.0000			10.50
Irrigation labor	hour											0.4000	9.60	3.84	3.84
Pickup truck	1/2 ton		1.000	0.08	Mar			0.83	0.56	0.086	0.82				2.22
Crawfish combine	12 hp		0.075	12.00	Apr			1.26	1.01	0.990	9.50				11.78
Manuf. crawfish bait	lbs											45.0000	0.30	13.50	13.50
Sacks	each											3.9000	0.40	1.56	1.56
Crawf irrig double	acin			1.00	Apr			7.72	2.61	0.017	0.16	2.0000			10.50
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.06	Apr			0.62	0.41	0.064	0.61				1.65
Pickup truck	1/2 ton		1.000	0.05	Apr			0.49	0.33	0.051	0.48				1.31
Crawfish combine	12 hp		0.075	10.00	May			1.05	0.84	0.825	7.92				9.81
Manuf. crawfish bait	lbs											37.5000	0.30	11.25	11.25
Sacks	each											3.2460	0.40	1.29	1.29
Crawf irrig double	acin			1.00	May			7.72	2.61	0.017	0.16	2.0000			10.50
Pickup truck	1/2 ton		1.000	0.08	May			0.83	0.56	0.086	0.82				2.22
Crawfish combine	12 hp		0.075	4.00	Jun			0.42	0.33	0.330	3.16				3.92
Manuf. crawfish bait	lbs											15.0000	0.30	4.50	4.50
Sacks	each											1.2984	0.40	0.51	0.51
TOTALS						40.95	40.68	211.97	134.07	6.858	67.71			559.17	1054.58
INTEREST ON OPERATING CAPITAL															16.79
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															1071.37

Appendix Table 1. Operating Inputs: Estimated Prices, Louisiana, 2015.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
BAIT			BAIT		
Crawfish bait (fish)	lbs	0.49	Manuf. crawfish bait	lbs	0.30
CUSTOM			CUSTOM		
Airplane fert	cwt	6.50	Airplane fert	acre	6.50
Airplane fert	cwt	7.50	Airplane seed	acre	5.50
Airplane seed	cwt	5.60	Airplane propronil	acre	8.00
App by air	appl	6.00	Drying rice	cwt	0.90
Fertilizer truck	acre	4.50	Global pos. system	acre	0.35
Haul rice	cwt	0.30	LARice Air Plant sw	cwt	5.60
LARice GPS Charge SW	acre	0.35	Storage rice	cwt	0.10
FERTILIZER			FERTILIZER		
Anhydrous (82%)	lbs	0.28	Nitrogen	lbs	0.50
Nitrogen (32%)	lbs	0.22	Phosphate	lbs	0.61
Potash	lbs	0.34	Urea (45%)	lbs	0.25
FUNGICIDES			FUNGICIDE		
Quadris	oz	1.95	Tilt	oz	0.84
HERBICIDES			HERBICIDE		
2,4-D Amine 4	pt	1.85	2,4-D LV4	pt	3.00
Facet 75DF	lb	50.00	Londax 60DF	oz	17.25
Propanil	qt	8.04			
HIRED LABOR			HIRED LABOR		
Irrigation labor	hour	9.60	Other labor	hour	9.60
INSECTICIDES			INSECTICIDE		
Karate Z	oz	3.40	Methyl parathion	pt	5.79
Sevin 80% S	lbs	7.40			
OTHER			OTHER		
Accounting service	dol	1.00	Farmstead & drainage	dol	1.00
Hip boots	pair	74.95	Levee gate	gate	3.65
Misc. overhead	dol	1.00	Plastic	sqft	0.05
Rice forage	ac ai	63.27	Rice gate	each	3.65
Sacks	each	0.40	Seed crawfish	lbs	1.00
Stunted crawfish	lbs	0.80	Supply & misc	dol	1.00
Utilities	dol	1.00	Waders	pair	120.00
SEED			SEED		
Common bermuda seed	lbs	4.40	Rice seed	lbs	0.38
Ryegrass seed	lbs	0.63			

Appendix Table 2. Powered Equipment: Estimated Useful Life, Annual Use, Purchase Price, Repair Cost, Fuel Consumption Rate, and Direct and Fixed Cost per Hour, Louisiana, 2015.

ITEM NAME	SIZE	PERF RATE	USEFUL LIFE	ANNUAL USE	PURCHASE PRICE	REPAIR COST	CONS RATE	--DIRECT COST--	--FIXEDCOST--		
		hrs/ac	years	hours	dollars	percent	/hour	\$/hr	\$/ac		
Double Hitch	0		10	1000	0	100	0.00	0.00	0.00		
Pickup Truck	1\2 ton		5	800	25,000	45	2.50	9.68	6.54		
Tractor (15-30hp)	22		8	600	8,200	15	1.13	4.09	1.48		
Tractor (40-59hp)	50		8	600	18,900	15	2.57	7.65	3.43		
Tractor (60-89hp)	75		8	600	43,400	15	3.86	11.97	7.88		
Tractor (90-115hp)	105		8	600	63,100	15	5.40	16.82	11.45		
Tractor (200-249hp)	225		8	600	147,066	15	11.58	36.44	28.01		
Tractor (106-130hp)	118		8	600	96,300	15	6.69	21.40	17.48		
Tractor (140-159hp)	150		8	600	127,000	15	7.72	25.19	23.06		
Tractor (140-159hp)	150 MFWD		8	600	143,000	15	7.72	25.70	25.97		
Tractor (160-170hp)	170		8	600	156,000	15	8.75	28.93	29.71		
Tractor (180-199hp)	190		8	600	143,000	15	9.77	31.36	27.24		
Tractor (200-249)CB	4WD 225		8	600	147,066	15	11.58	36.44	28.01		
Tractor (250-349hp)	300		8	600	277,000	15	15.44	51.12	52.76		
Tractor GC(90-115hp)	105		8	600	63,100	15	5.40	16.83	11.45		
Tractor PTO(60-89hp)	75		8	600	35,000	15	3.86	11.70	6.35		
Tractor(140-159hp)CB	MFWD 150		8	600	143,000	15	7.72	25.70	25.97		
Tractor(250-349hp)	4WD 300		8	600	277,000	15	15.44	51.12	52.76		
2 man cf combine	12 hp	0.063	10	923	10,500	40	0.30	1.47	0.09	1.34	0.08
Boat, Motor&Trailer	14 ft	0.075	8	12	6,000	69	4.00	52.57	3.94	63.83	4.78
Combine Rice	25 Ft	0.300	10	300	165,000	80	8.60	67.65	20.31	65.03	19.52
Crawfish combine	12 hp	0.075	10	1098	10,500	40	0.30	1.40	0.10	1.13	0.08
Truck	5 ton	1.000	12	100	115,000	100	5.00	112.83	112.83	118.67	118.67

Appendix Table 3. Implements: Estimated Performance Rate, Useful Life, Annual Use, Purchase Price, Repair Cost, and Direct and Fixed Cost per Hour and per Acre, Louisiana, 2015.

ITEM NAME	SIZE	PERF	USEFUL	ANNUAL	PURCHASE	REPAIR	--DIRECT COST--		--FIXED COST--	
		RATE	LIFE	USE	PRICE	COST	\$/hr	\$/ac	\$/hr	\$/ac
		hrs/ac	years	hours	dollars	percent				
Backhoe		0.500	10	100	6,000	88	5.28	2.64	7.09	3.54
Blade-Scraper	10'	1.176	20	200	3,310	190	1.57	1.84	1.19	1.40
Cultimulcher	12 Ft	0.160	15	120	5,500	88	2.68	0.43	4.04	0.64
Disk	24 ft	0.081	10	180	42,600	50	11.83	0.96	24.13	1.97
Disk Harrow	32'	0.061	10	180	50,800	50	14.11	0.86	28.77	1.76
Ditcher rotary	1.5 ft	0.020	10	200	4,910	80	1.96	0.03	2.50	0.05
Ditcher side	1.5	0.009	10	200	4,910	80	1.96	0.01	2.50	0.02
Dozer blade	8 ft	0.880	20	100	3,310	66	1.09	0.96	2.43	2.14
Drag	14 ft	0.130	8	200	500	88	0.27	0.03	0.35	0.04
Fertilizer buggy	30 ft	0.060	10	150	10,800	88	6.33	0.38	8.51	0.51
Fertilizer buggy (R)	30 ft	0.060	10	150	1	0	0.00	0.00	0.00	0.00
Field cultivator	24 ft	0.062	10	100	26,000	25	6.50	0.40	26.51	1.64
Field cultivator	32 ft	0.046	10	100	39,500	25	9.87	0.46	40.27	1.87
Grain cart	500 bu	0.057	12	200	24,700	65	6.68	0.38	11.14	0.63
Grain drill	12 ft	0.157	8	150	22,700	45	8.51	1.33	15.68	2.46
Grain drill	20 ft	0.094	8	150	37,600	45	14.10	1.32	25.97	2.44
Harrow	13Ft	0.119	10	200	43,600	70	15.26	1.82	22.22	2.65
Levee plow	8 Ft	0.050	10	150	4,600	50	1.53	0.07	3.62	0.18
PTO aerator	hour	1.000	10	426	2,600	25	0.15	0.15	0.72	0.72
Rotary mower	13.3 ft	0.130	10	150	12,600	44	3.69	0.48	9.93	1.29
Rotary mower-levees	6.7 ft	0.500	10	150	4,380	44	1.28	0.64	3.45	1.72
Side Mount Mower	6 ft	0.500	6	50	4,400	20	2.93	1.46	15.75	7.87
Spike harrow	18 ft	0.080	10	200	9,500	70	3.32	0.26	4.84	0.38
Tractor blade	6 ft	1.000	20	200	1,150	190	0.54	0.54	0.41	0.41
Water level	24 ft	0.149	15	100	3,500	66	1.54	0.23	3.09	0.46

Appendix Table 4. Other Durable Inputs: Estimated Repair Cost, Fuel Consumption Rate, Direct Cost per Unit of Measure, and Fixed Cost per Unit of Measure or per Acre, Louisiana, 2015.

ITEM NAME	UNIT	REPAIR	FUEL	DIRECT COST	----FIXED COST----	
		COST	CONS		\$/U of M	\$/acre
		\$/U of M	/U of M	\$/U of M	\$/U of M	\$/acre
Crawf irrig double	acin	0.150	1.350	3.862	1.309	32.74
Crawf irrig single	acin	0.150	1.350	3.862	1.309	32.74
Crawf pond&eq double	acre	0.742	0.000	0.742		39.60
Crawf pond&eq single	acre	7.180	0.000	7.180		95.26
Irrigation system 1	acre	3.750	32.838	94.056		32.74

Appendix Table 5. Definitions of Selected Line Items in the Crawfish Production Budgets.

Item	Definition
Crawf irrig double	Irrigation system for rice-crawfish double crop production in Southwest Louisiana
Crawf irrig single	Irrigation system for single-crop crawfish production in Southwest Louisiana
Crawf pond&eq double	Pond and equipment for rice-crawfish double crop production in Southwest Louisiana
Crawf pond&eq single	Pond and equipment for single-crop crawfish production in Southwest Louisiana
Irrigation system1	Irrigation system for rice portion of rice-crawfish double-crop production in Southwest Louisiana
Self-Propelled Eq	Pickup truck