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2013  
Projected  
Commodity  
Costs  
And  
Returns

## Crawfish Production in Louisiana

Robert W. Boucher and Jeffrey M. Gillespie



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# **PROJECTED COSTS AND RETURNS FOR CRAWFISH PRODUCTION IN LOUISIANA, 2013**

by

**Robert W. Boucher and Jeffrey M. Gillespie**



**Louisiana State University Agricultural Center  
William B. Richardson, Chancellor**

**Louisiana Agricultural Experiment Station  
John S. Russin, Vice-Chancellor and Director**

**Department of Agricultural Economics and Agribusiness  
Gail Cramer, Head**

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# PROJECTED COSTS AND RETURNS FOR CRAWFISH PRODUCTION IN LOUISIANA, 2013

by

Robert W. Boucher and Jeffrey M. Gillespie<sup>1</sup>

## 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 two double crop 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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<sup>1</sup>Research Associate and Martin D. Woodin Endowed Professor, respectively, Department of Agricultural Economics and Agribusiness, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, Baton Rouge.

Table 1. A Summary of Projected Costs per Acre for Crawfish and Crawfish-Rice Production in Louisiana, 2013.

Crop Description	Yield Per Acre	Direct Expenses	Fixed Expenses	Total Expenses
	Pounds	----- Dollars per Acre -----		
<b>Crawfish Enterprises:</b>				
Southwest Louisiana, Owner				
Single Crop Crawfish, b	600.00	555.31	162.66	717.97
Crawfish-Rice Double Crop, a b c	600+4200	980.77	167.70	1148.47
Crawfish-Rice in Rotation, a b d	600+6500	1056.93	181.59	1238.52

a Income for rice was calculated by multiplying the market price of \$15.50 actual yield.

b Land costs are not included.

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

d Yield includes 600 lbs of crawfish and 65 cwt of rice.

Table 2. Breakeven Selling Prices for Crawfish for Selected Yield Levels, Louisiana, 2013.

	Total Costs a	Total Variable Costs	Base Yield Level	Yield Level					
				-20	-10	Base	10	20	
	--Dollar/Acre---		lb.	-----	Dollars/Lb.-----				
<b>PRICES REQUIRED TO RECOVER TOTAL SPECIFIED COSTS</b>									
<b>Crawfish Enterprises:</b>									
Southwest Louisiana, Owner									
Single Crop Crawfish, Owner	717.97		600	1.49	1.33	1.20	1.09	1.00	
Crawfish-Rice Double Crop, b	728.92		600	1.52	1.35	1.21	1.10	1.01	
Crawfish-Rice in Rotation, b	464.31		600	0.97	0.86	0.77	0.70	0.65	
<b>PRICES REQUIRED TO RECOVER VARIABLE COSTS</b>									
<b>Crawfish Enterprises:</b>									
Southwest Louisiana									
Single Crop Crawfish, Owner		555.31	600	1.16	1.03	0.93	0.84	0.77	
Crawfish-Rice Double Crop, b		658.14	600	1.37	1.22	1.10	1.00	0.91	
Crawfish-Rice in Rotation, b		379.64	600	0.79	0.70	0.63	0.58	0.53	

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, 2013.

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	0.33	175.0000	57.75	_____
Manuf. crawfish bait	lbs	0.27	180.0000	48.60	_____
FERTILIZER					
Urea (45%)	lbs	0.28	75.0000	21.30	_____
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	0.33	120.0000	39.60	_____
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	0.3960	3.80	_____
DIESEL FUEL					
Tractors	gal	3.31	1.7397	5.75	_____
Self-Propelled Eq.	gal	3.31	1.0075	3.33	_____
Crawf irrig single	gal	3.31	71.2224	235.74	_____
GASOLINE					
Self-Propelled Eq.	gal	3.40	1.5975	5.43	_____
REPAIR & MAINTENANCE					
Implements	acre	1.80	1.0000	1.80	_____
Tractors	acre	0.78	1.0000	0.78	_____
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	13.57	1.0000	13.57	_____
TOTAL DIRECT EXPENSES				555.31	_____
FIXED EXPENSES					
Implements	acre	4.01	1.0000	4.01	_____
Tractors	acre	4.82	1.0000	4.82	_____
Self-Propelled Eq.	acre	8.97	1.0000	8.97	_____
Crawf irrig single	acin	1.43	33.0000	47.46	_____
Crawf pond&eq single	acre	97.38	1.0000	97.38	_____
TOTAL FIXED EXPENSES				162.66	_____
TOTAL SPECIFIED EXPENSES				717.97	_____
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 and Returns per Acre,  
Rice-Crawfish Double Crop, Owner-Operator,  
Southwest Louisiana, 2013.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>INCOME</b>					
Rice	cwt	15.50	42.0000	651.00	_____
Rice Checkoff	cwt	0.08	-42.0000	-3.36	_____
Crawfish (Dec- April)	lbs		600.0000		_____
				-----	
<b>TOTAL INCOME</b>				647.64	_____
<b>DIRECT EXPENSES</b>					
<b>CUSTOM</b>					
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	acre	6.00	1.0000	6.00	_____
Drying rice	cwt	0.90	47.1900	42.47	_____
Haul rice	cwt	0.30	42.0000	12.60	_____
<b>BAIT</b>					
Crawfish bait (fish)	lbs	0.33	131.2500	43.31	_____
Manuf. crawfish bait	lbs	0.27	90.0000	24.30	_____
<b>FERTILIZER</b>					
Nitrogen	lbs	0.56	125.0000	70.00	_____
Phosphate	lbs	0.65	50.0000	32.50	_____
Potash	lbs	0.47	50.0000	23.50	_____
<b>HERBICIDES</b>					
Stam 4E	qt	5.12	3.0000	15.36	_____
<b>HIRED LABOR</b>					
Other labor	hour	9.60	0.0900	0.86	_____
Irrigation labor	hour	9.60	2.8000	26.88	_____
<b>OTHER</b>					
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	_____
<b>SEED</b>					
Rice seed	lbs	0.33	120.0000	39.60	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	9.60	1.1259	10.80	_____
Self-Propelled Eq.	hour	9.60	5.1675	49.60	_____
<b>IRRIGATION LABOR</b>					
Crawf irrig double	hour	9.60	0.6120	5.87	_____
<b>OWNER LABOR</b>					
Self-Propelled Eq.	hour	15.30	0.3303	5.05	_____
<b>DIESEL FUEL</b>					
Tractors	gal	3.31	7.1637	23.71	_____
Self-Propelled Eq.	gal	3.31	3.3325	11.03	_____
Crawf irrig double	gal	3.31	110.0710	364.33	_____
<b>GASOLINE</b>					
Self-Propelled Eq.	gal	3.40	1.3275	4.51	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	3.04	1.0000	3.04	_____
Tractors	acre	3.19	1.0000	3.19	_____
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	28.68	1.0000	28.68	_____
				-----	
<b>TOTAL DIRECT EXPENSES</b>				980.77	_____
<b>FIXED EXPENSES</b>					
Implements	acre	7.18	1.0000	7.18	_____
Tractors	acre	19.56	1.0000	19.56	_____
Self-Propelled Eq.	acre	27.57	1.0000	27.57	_____
Crawf irrig double	acin	1.43	51.0000	73.35	_____
Crawf pond&eq double	acre	40.02	1.0000	40.02	_____
				-----	
<b>TOTAL FIXED EXPENSES</b>				167.70	_____
				-----	
<b>TOTAL SPECIFIED EXPENSES</b>				1148.48	_____
<b>ALLOCATED COST ITEMS</b>					
Overhead (owner)	acre	30.00	1.0000	30.00	_____
Land ( oppor. cost )	acre	90.00	1.0000	90.00	_____

Table 5.A Estimated Costs and Returns per Acre,  
Rice-Crawfish, in Field Rotation,  
Owner-Operator, Southwest Louisiana, 2013.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>INCOME</b>					
Rice	cwt	15.50	65.0000	1007.50	_____
Rice Checkoff	cwt	0.08	-65.0000	-5.20	_____
Crawfish (Jan - June)	lbs	1.00	600.0000		_____
				-----	
<b>TOTAL INCOME</b>				1002.30	_____
<b>DIRECT EXPENSES</b>					
<b>CUSTOM</b>					
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	acre	6.00	5.0000	30.00	_____
Drying rice	cwt	0.90	72.0000	64.80	_____
Haul rice	cwt	0.30	65.0000	19.50	_____
<b>BAIT</b>					
Crawfish bait (fish)	lbs	0.33	90.0000	29.70	_____
Manuf. crawfish bait	lbs	0.27	120.0000	32.40	_____
<b>FERTILIZER</b>					
Nitrogen	lbs	0.56	125.0000	70.00	_____
Phosphate	lbs	0.65	50.0000	32.50	_____
Potash	lbs	0.47	50.0000	23.50	_____
<b>FUNGICIDES</b>					
Quadris	oz	2.47	10.0000	24.70	_____
<b>HERBICIDES</b>					
Facet 75DF	lb	50.00	0.5000	25.00	_____
Londax 60DF	oz	14.75	1.0000	14.75	_____
2,4-D Amine 4	pt	1.89	2.5000	4.72	_____
<b>HIRED LABOR</b>					
Other labor	hour	9.60	0.0500	0.48	_____
Irrigation labor	hour	9.60	2.0000	19.20	_____
<b>INSECTICIDES</b>					
Karate Z	oz	3.15	4.0000	12.60	_____
<b>OTHER</b>					
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	_____
<b>SEED</b>					
Rice seed	lbs	0.33	120.0000	39.60	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	9.60	1.1192	10.74	_____
Self-Propelled Eq.	hour	9.60	5.0140	48.13	_____
<b>IRRIGATION LABOR</b>					
Crawf irrig double	hour	9.60	0.5487	5.26	_____
<b>OWNER LABOR</b>					
Self-Propelled Eq.	hour	15.30	0.3303	5.05	_____
<b>DIESEL FUEL</b>					
Tractors	gal	3.31	12.4264	41.13	_____
Self-Propelled Eq.	gal	3.31	3.5675	11.80	_____
Crawf irrig double	gal	3.31	98.6970	326.68	_____
<b>GASOLINE</b>					
Self-Propelled Eq.	gal	3.40	1.2600	4.28	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	3.55	1.0000	3.55	_____
Tractors	acre	6.41	1.0000	6.41	_____
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	20.01	1.0000	20.01	_____
<b>TOTAL DIRECT EXPENSES</b>				-----	
				1056.93	_____
<b>FIXED EXPENSES</b>					
Implements	acre	7.43	1.0000	7.43	_____
Tractors	acre	40.42	1.0000	40.42	_____
Self-Propelled Eq.	acre	27.94	1.0000	27.94	_____
Crawf irrig double	acin	1.43	45.7300	65.77	_____
Crawf pond&eq double	acre	40.02	1.0000	40.02	_____
<b>TOTAL FIXED EXPENSES</b>				-----	
				181.59	_____
<b>TOTAL SPECIFIED EXPENSES</b>				-----	
				1238.53	_____
<b>ALLOCATED COST ITEMS</b>					
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, 2013.

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				1.00	Jul			7.18	97.38			1.0000				104.56
Disk 24 ft	150		0.081	2.00	Jul	4.85	4.09	1.58	3.41	0.163	1.57					15.51
Crawf irrig single acin				1.00	Jul			10.94	2.15	0.018	0.17	1.5000				13.27
Irrigation labor hour												0.2500	9.60	2.40		2.40
Airplane seed cwt				1.00	Jul							1.4000	5.60	7.84		7.84
Rice seed lbs												120.0000	0.33	39.60		39.60
Global pos. system acre												1.0000	0.35	0.35		0.35
Rotary mower-levees 6.7 ft	50		0.500	0.05	Jul	0.24	0.10	0.03	0.08	0.026	0.25					0.71
Airplane fert cwt				1.00	Jul							0.7500	6.50	4.87		4.87
Urea (45%) lbs												75.0000	0.28	21.30		21.30
Global pos. system acre												1.0000	0.35	0.35		0.35
Crawf irrig single acin				1.00	Aug			10.94	2.15	0.018	0.17	1.5000				13.27
Irrigation labor hour												0.1000	9.60	0.96		0.96
Rotary mower-levees 6.7 ft	50		0.500	0.05	Aug	0.24	0.10	0.03	0.08	0.026	0.25					0.71
Crawf irrig single acin				1.00	Sep			10.94	2.15	0.018	0.17	1.5000				13.27
Irrigation labor hour												0.1000	9.60	0.96		0.96
Rotary mower-levees 6.7 ft	50		0.500	0.05	Sep	0.24	0.10	0.03	0.08	0.026	0.25					0.71
Crawf irrig single acin				1.00	Oct			87.52	17.26	0.144	1.38	12.0000				106.16
Hip boots pair												0.0083	74.95	0.62		0.62
Irrigation labor hour												0.5000	9.60	4.80		4.80
Rotary mower-levees 6.7 ft	50		0.500	0.05	Oct	0.24	0.10	0.03	0.08	0.026	0.25					0.71
Crawf irrig single acin				1.00	Nov			29.17	5.75	0.048	0.46	4.0000				35.38
Irrigation labor hour												0.1000	9.60	0.96		0.96
Crawfish combine 12 hp			0.075	3.00	Dec			0.31	0.26	0.247	2.37					2.95
Crawfish bait (fish) lbs												15.0000	0.33	4.95		4.95
Sacks each												0.7680	0.40	0.30		0.30
Crawf irrig single acin				1.00	Dec			18.23	3.59	0.030	0.28	2.5000				22.11
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.04	Dec			0.47	0.28	0.043	0.41					1.17
Crawfish combine 12 hp			0.075	12.00	Jan			1.26	1.06	0.990	9.50					11.82
Crawfish bait (fish) lbs												60.0000	0.33	19.80		19.80
Sacks each												3.0720	0.40	1.22		1.22
Crawf irrig single acin				1.00	Jan			14.58	2.87	0.024	0.23	2.0000				17.69
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.05	Jan			0.62	0.37	0.056	0.53					1.53
Crawfish combine 12 hp			0.075	12.00	Feb			1.26	1.06	0.990	9.50					11.82
Crawfish bait (fish) lbs												60.0000	0.33	19.80		19.80
Sacks each												3.0720	0.40	1.22		1.22
Crawf irrig single acin				1.00	Feb			14.58	2.87	0.024	0.23	2.0000				17.69
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.05	Feb			0.56	0.34	0.051	0.48					1.39
Crawfish combine 12 hp			0.075	16.00	Mar			1.68	1.41	1.320	12.67					15.76
Manuf. crawfish bait lbs												40.0000	0.27	10.80		10.80
Crawfish bait (fish) lbs												40.0000	0.33	13.20		13.20
Sacks each												4.0960	0.40	1.63		1.63
Crawf irrig single acin				1.00	Mar			14.58	2.87	0.024	0.23	2.0000				17.69
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.08	Mar			0.95	0.57	0.086	0.82					2.35
Crawfish combine 12 hp			0.075	16.00	Apr			1.68	1.41	1.320	12.67					15.76
Manuf. crawfish bait lbs												80.0000	0.27	21.60		21.60
Sacks each												4.1024	0.40	1.64		1.64
Crawf irrig single acin				1.00	Apr			14.58	2.87	0.024	0.23	2.0000				17.69
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.09	Apr			0.99	0.60	0.090	0.86					2.46
Rotary mower-levees 6.7 ft	50		0.500	0.05	Apr	0.24	0.10	0.03	0.08	0.026	0.25					0.71
Crawfish combine 12 hp			0.075	12.00	May			1.26	1.06	0.990	9.50					11.82
Manuf. crawfish bait lbs												60.0000	0.27	16.20		16.20
Sacks each												3.0720	0.40	1.22		1.22
Crawf irrig single acin				1.00	May			14.58	2.87	0.024	0.23	2.0000				17.69
Irrigation labor hour												0.3000	9.60	2.88		2.88
Pickup truck 1/2 ton			1.000	0.07	May			0.85	0.51	0.077	0.73					2.10
Rotary mower-levees 6.7 ft	50		0.500	0.05	May	0.24	0.10	0.03	0.08	0.026	0.25					0.71
Rotary mower-levees 6.7 ft	50		0.500	0.05	Jun	0.24	0.10	0.03	0.08	0.026	0.25					0.71
TOTALS						6.54	4.82	261.61	157.83	7.005	67.25			206.32		704.40
INTEREST ON OPERATING CAPITAL																13.57
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																717.97

Table 4.B Estimated Resource Use and Costs for Field Operations, per Acre, Rice-Crawfish Double Crop, Owner-Operator, Southwest Louisiana, 2013.

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	40.02			1.0000			40.76
Disk 24 ft	150		0.081	2.00	May	4.85	4.09	1.58	3.41	0.163	1.57				15.51
Airplane fert				1.00	May							3.0000	6.50	19.50	19.50
Nitrogen lbs												62.0000	0.56	34.72	34.72
Phosphate lbs												50.0000	0.65	32.50	32.50
Potash lbs												50.0000	0.47	23.50	23.50
Global pos. system acre												1.0000	0.35	0.35	0.35
Field cultivator 24 ft	150		0.062	1.00	May	1.84	1.55	0.38	1.65	0.062	0.59				6.03
Levee plow 8 Ft	150		0.050	3.00	May	4.44	3.75	0.23	0.56	0.150	1.44				10.44
Ditcher rotary 1.5 ft	105		0.020	1.00	May	0.39	0.22	0.03	0.04	0.020	0.19				0.88
Dozer blade 8 ft	105		0.880	0.10	May	1.73	0.97	0.03	0.07	0.088	0.84				3.65
Backhoe 105			0.500	0.10	May	0.98	0.55	0.26	0.36	0.050	0.48				2.64
Other labor hour												0.0200	9.60	0.19	0.19
Crawf irrig double acin				1.00	May			65.64	12.94	0.108	1.03	9.0000			79.62
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	4.44	3.75	0.23	0.49	0.149	1.43				10.36
Drag 14 ft	105		0.130	1.00	May	2.55	1.43	0.03	0.04	0.130	1.24				5.32
Airplane seed cwt				1.00	May							1.4000	5.60	7.84	7.84
Rice seed lbs												120.0000	0.33	39.60	39.60
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			58.35	11.50	0.096	0.92	8.0000			70.77
Irrigation labor hour												0.2000	9.60	1.92	1.92
App by air acre				1.00	Jun							1.0000	6.00	6.00	6.00
Stam 4E qt												3.0000	5.12	15.36	15.36
Global pos. system acre												1.0000	0.35	0.35	0.35
Crawf irrig double acin				1.00	Jul			58.35	11.50	0.096	0.92	8.0000			70.77
Airplane fert cwt				1.00	Jul							1.4000	6.50	9.10	9.10
Nitrogen lbs												63.0000	0.56	35.28	35.28
Global pos. system acre												1.0000	0.35	0.35	0.35
Dozer blade 8 ft	105		0.880	0.10	Aug	1.73	0.97	0.03	0.07	0.088	0.84				3.65
Other labor hour												0.0200	9.60	0.19	0.19
Combine Rice 25 Ft			0.300	1.00	Aug			21.76	20.35	0.330	5.05				47.16
Grain cart 500 bu	105		0.057	0.38	Aug	0.21	0.19	0.12	0.21	0.021	0.20				0.95
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	3.46	1.94	0.06	0.15	0.176	1.68				7.31
Crawf irrig double acin				1.00	Oct			87.52	17.26	0.144	1.38	12.0000			106.16
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	0.24	0.10	0.03	0.08	0.026	0.25				0.71
Crawf irrig double acin				1.00	Nov			29.17	5.75	0.048	0.46	4.0000			35.38
Irrigation labor hour												0.2000	9.60	1.92	1.92
Crawfish combine 12 hp			0.075	3.00	Dec			0.31	0.26	0.247	2.37				2.95
Crawfish bait (fish) lbs												11.2500	0.33	3.71	3.71
Sacks each												0.9243	0.40	0.36	0.36
Crawf irrig double acin				1.00	Dec			18.23	3.59	0.030	0.28	2.5000			22.11
Irrigation labor hour												0.2000	9.60	1.92	1.92
Pickup truck 1/2 ton			1.000	0.04	Dec			0.47	0.28	0.043	0.41				1.17
Crawfish combine 12 hp			0.075	12.00	Jan			1.26	1.06	0.990	9.50				11.82
Crawfish bait (fish) lbs												45.0000	0.33	14.85	14.85
Sacks each												3.6972	0.40	1.47	1.47
Crawf irrig double acin				1.00	Jan			10.94	2.15	0.018	0.17	1.5000			13.27
Irrigation labor hour												0.2000	9.60	1.92	1.92
Pickup truck 1/2 ton			1.000	0.05	Jan			0.62	0.37	0.056	0.53				1.53
Crawfish combine 12 hp			0.075	12.00	Feb			1.26	1.06	0.990	9.50				11.82
Crawfish bait (fish) lbs												45.0000	0.33	14.85	14.85
Sacks each												3.6984	0.40	1.47	1.47
Crawf irrig double acin				1.00	Feb			14.58	2.87	0.024	0.23	2.0000			17.69
Irrigation labor hour												0.2000	9.60	1.92	1.92
Pickup truck 1/2 ton			1.000	0.05	Feb			0.56	0.34	0.051	0.48				1.39
Crawfish combine 12 hp			0.075	16.00	Mar			1.68	1.41	1.320	12.67				15.76
Manuf. crawfish bait lbs												30.0000	0.27	8.10	8.10
Crawfish bait (fish) lbs												30.0000	0.33	9.90	9.90
Sacks each												4.9296	0.40	1.97	1.97
Crawf irrig double acin				1.00	Mar			14.58	2.87	0.024	0.23	2.0000			17.69
Irrigation labor hour												0.4000	9.60	3.84	3.84
Pickup truck 1/2 ton			1.000	0.08	Mar			0.95	0.57	0.086	0.82				2.35
Crawfish combine 12 hp			0.075	16.00	Apr			1.68	1.41	1.320	12.67				15.76
Manuf. crawfish bait lbs												60.0000	0.27	16.20	16.20
Sacks each												4.9312	0.40	1.97	1.97
Crawf irrig double acin				1.00	Apr			14.58	2.87	0.024	0.23	2.0000			17.69
Irrigation labor hour												0.2000	9.60	1.92	1.92
Pickup truck 1/2 ton			1.000	0.06	Apr			0.70	0.42	0.064	0.61				1.75
TOTALS						26.90	19.56	407.06	148.14	7.235	71.34			446.77	1119.80
INTEREST ON OPERATING CAPITAL															28.68
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															1148.48

Table 5.B Estimated Resource Use and Costs for Field Operations, per Acre, Rice-Crawfish, in Field Rotation, Owner-Operator, Southwest Louisiana, 2013.

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					
Disk Harrow	32'	4WD 225	0.061	2.00	Nov	5.27	3.60	1.62	3.49	0.122	1.17				15.17
Levee plow	8 Ft	4WD 300	0.050	2.00	Nov	5.92	5.23	0.15	0.37	0.100	0.96				12.65
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	3.14	2.69	0.15	0.12	0.105	1.01				7.13
Ditcher rotary	1.5 ft	MFWD 150	0.020	1.00	Nov	0.59	0.50	0.03	0.04	0.020	0.19				1.37
Field cultivator	32 ft	4WD 300	0.046	1.00	Feb	2.76	2.44	0.36	1.57	0.046	0.44				7.60
Airplane fert	cwt			1.00	Feb							1.5000	6.50	9.75	9.75
Nitrogen	lbs											65.0000	0.56	36.40	36.40
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											50.0000	0.65	32.50	32.50
Potash	lbs											50.0000	0.47	23.50	23.50
Global pos. system	acre											1.0000	0.35	0.35	0.35
Ditcher rotary	1.5 ft	MFWD 150	0.020	1.00	Feb	0.59	0.50	0.03	0.04	0.020	0.19				1.37
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	3.14	2.69	0.15	0.12	0.105	1.01				7.13
Rice gate	each			1.00	Feb							1.0000	3.65	3.65	3.65
Backhoe		MFWD 150	0.500	0.05	Feb	0.74	0.63	0.13	0.18	0.025	0.24				1.93
Water level	24 ft	4WD 300	0.149	2.00	Feb	17.78	15.70	0.46	0.98	0.299	2.87				37.80
Crawf irrig double	acin			1.00	Mar			176.72	34.85	0.290	2.79	24.2300			214.37
Airplane seed	cwt			1.00	Apr							1.2000	5.60	6.72	6.72
Rice seed	lbs											120.0000	0.33	39.60	39.60
Global pos. system	acre											1.0000	0.35	0.35	0.35
App by air	acre			1.00	Apr							1.0000	6.00	6.00	6.00
Karate Z	oz											2.0000	3.15	6.30	6.30
Global pos. system	acre											1.0000	0.35	0.35	0.35
App by air	acre			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	14.75	14.75	14.75
Global pos. system	acre											1.0000	0.35	0.35	0.35
App by air	acre			1.00	Jun							1.0000	6.00	6.00	6.00
2,4-D Amine 4	pt											2.5000	1.89	4.72	4.72
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	0.56	33.60	33.60
Global pos. system	acre											1.0000	0.35	0.35	0.35
App by air	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Quadris	oz											10.0000	2.47	24.70	24.70
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	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Karate Z	oz											2.0000	3.15	6.30	6.30
Global pos. system	acre											1.0000	0.35	0.35	0.35
Combine Rice	25 Ft		0.300	1.00	Aug			21.76	20.35	0.330	5.05				47.16
Grain cart	500 bu	MFWD 150	0.057	0.20	Aug	0.33	0.29	0.06	0.11	0.011	0.10				0.91
Drying rice	cwt			1.00	Aug							72.0000	0.90	64.80	64.80
Haul rice	cwt			1.00	Aug							65.0000	0.30	19.50	19.50
Blade-Scraper	10'	MFWD 150	1.176	0.20	Aug	6.99	5.98	0.34	0.27	0.235	2.25				15.85
Crawf irrig double	acin			1.00	Oct			43.76	8.63	0.072	0.69	6.0000			53.08
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	40.02			1.0000			40.76
Rotary mower-levees	6.7 ft	50	0.500	0.05	Oct	0.24	0.10	0.03	0.08	0.026	0.25				0.71
Crawf irrig double	acin			1.00	Nov			29.17	5.75	0.048	0.46	4.0000			35.38
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Crawf irrig double	acin			1.00	Dec			14.58	2.87	0.024	0.23	2.0000			17.69
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Crawfish combine	12 hp		0.075	8.00	Jan			0.84	0.70	0.660	6.33				7.88
Crawfish bait (fish)	lbs											30.0000	0.33	9.90	9.90
Sacks	each											2.5968	0.40	1.03	1.03
Crawf irrig double	acin			1.00	Jan			10.94	2.15	0.018	0.17	1.5000			13.27
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Jan			0.62	0.37	0.056	0.53				1.53
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	0.88	0.825	7.92				9.85
Crawfish bait (fish)	lbs											37.5000	0.33	12.37	12.37
Sacks	each											3.2460	0.40	1.29	1.29
Crawf irrig double	acin			1.00	Feb			14.58	2.87	0.024	0.23	2.0000			17.69
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Feb			0.56	0.34	0.051	0.48				1.39
Crawfish combine	12 hp		0.075	12.00	Mar			1.26	1.06	0.990	9.50				11.82
Manuf. crawfish bait	lbs											22.5000	0.27	6.07	6.07
Crawfish bait (fish)	lbs											22.5000	0.33	7.42	7.42
Sacks	each											3.8952	0.40	1.55	1.55
Crawf irrig double	acin			1.00	Mar			14.58	2.87	0.024	0.23	2.0000			17.69
Irrigation labor	hour											0.4000	9.60	3.84	3.84
Pickup truck	1/2 ton		1.000	0.08	Mar			0.95	0.57	0.086	0.82				2.35
Crawfish combine	12 hp		0.075	12.00	Apr			1.26	1.06	0.990	9.50				11.82
Manuf. crawfish bait	lbs											45.0000	0.27	12.15	12.15
Sacks	each											3.9000	0.40	1.56	1.56
Crawf irrig double	acin			1.00	Apr			14.58	2.87	0.024	0.23	2.0000			17.69
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.06	Apr			0.70	0.42	0.064	0.61				1.75
Pickup truck	1/2 ton		1.000	0.05	Apr			0.56	0.34	0.051	0.48				1.39
Crawfish combine	12 hp		0.075	10.00	May			1.05	0.88	0.825	7.92				9.85
Manuf. crawfish bait	lbs											37.5000	0.27	10.12	10.12
Sacks	each											3.2460	0.40	1.29	1.29
Crawf irrig double	acin			1.00	May			14.58	2.87	0.024	0.23	2.0000			17.69
Pickup truck	1/2 ton		1.000	0.08	May			0.95	0.57	0.086	0.82				2.35
Crawfish combine	12 hp		0.075	4.00	Jun			0.42	0.35	0.330	3.16				3.94
Manuf. crawfish bait	lbs											15.0000	0.27	4.05	4.05
Sacks	each											1.2984	0.40	0.51	0.51
TOTALS						47.54	40.42	370.60	141.17	7.012	69.20			549.57	1218.51
INTEREST ON OPERATING CAPITAL															20.01
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															1238.53

Appendix Table 1. Operating Inputs: Estimated Prices, Louisiana, 2013.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
BAIT			BAIT		
Crawfish bait (fish)	lbs	0.33	Manuf. crawfish bait	lbs	0.27
CUSTOM			CUSTOM		
Airplane fert	cwt	6.50	Airplane fert	acre	6.50
Airplane seed	acre	5.60	Airplane seed	cwt	5.60
Airplane stam	acre	7.75	App by air	acre	6.00
Drying rice	cwt	0.90	Fertilizer truck	acre	4.50
Global pos. system	acre	0.35	Haul rice	cwt	0.30
Storage rice	cwt	0.10			
FERTILIZER			FERTILIZER		
Anhydrous (82%)	lbs	0.28	Nitrogen	lbs	0.56
Nitrogen (32%)	lbs	0.22	Phosphate	lbs	0.65
Potash	lbs	0.47	Urea (45%)	lbs	0.28
FUNGICIDES			FUNGICIDES		
Quadris	oz	2.47	Tilt	oz	1.17
HERBICIDES			HERBICIDES		
2,4-D Amine 4	pt	1.89	2,4-D LV4	pt	2.31
Facet 75DF	lb	50.00	Londax 60DF	oz	14.75
Stam 4E	qt	5.12			
HIRED LABOR			HIRED LABOR		
Irrigation labor	hour	9.60	Other labor	hour	9.60
INSECTICIDES			INSECTICIDES		
Karate Z	oz	3.15	Methyl parathion	pt	5.58
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		
Rice seed	lbs	0.33			

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, 2013.

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	11.08	6.70		
Tractor (15-30hp)	22		8	600	8,200	15	1.13	4.09	1.56		
Tractor (40-59hp)	50		8	600	20,500	15	2.57	9.14	3.92		
Tractor (60-89hp)	75		8	600	45,300	15	3.86	14.19	8.66		
Tractor (90-115hp)	105		8	600	57,700	15	5.40	19.67	11.03		
Tractor (200-249hp)	225		8	600	147,066	15	11.58	42.92	29.40		
Tractor (106-130hp)	118		8	600	82,300	15	6.69	24.71	15.74		
Tractor (140-159hp)	150		8	600	131,000	15	7.72	29.64	25.05		
Tractor (140-159hp)	150 MFWD		8	600	133,000	15	7.72	29.71	25.44		
Tractor (160-170hp)	170		8	600	119,000	15	8.75	32.68	23.79		
Tractor (180-199hp)	190		8	600	143,000	15	9.77	36.83	28.59		
Tractor (200-249)CB	4WD 225		8	600	147,066	15	11.58	42.92	29.40		
Tractor (250-349hp)	300		8	600	262,000	15	15.44	59.29	52.38		
Tractor GC(90-115hp)	105		8	600	45,800	15	2.59	10.00	8.76		
Tractor PTO(60-89hp)	68		8	600	33,600	15	3.86	13.82	6.42		
Tractor(140-159hp)CB	MFWD 150		8	600	133,000	15	7.72	29.71	25.44		
Tractor(250-349hp)	4WD 300		8	600	262,000	15	15.44	59.29	52.38		
2 man cf combine	12 hp	0.063	10	923	10,500	40	0.30	1.47	1.40	0.08	
Boat,Motor&Trailer	14 ft	0.075	8	12	6,000	69	4.00	52.57	3.94	66.15	4.96
Combine Rice	25 Ft	0.300	10	300	165,000	80	8.60	72.46	21.76	67.77	20.35
Crawfish combine	12 hp	0.075	10	1098	10,500	40	0.30	1.40	0.10	1.17	0.08
Feeder truck	1 ton	0.016	10	200	35,000	33	2.66	14.84	0.24	21.56	0.36
Pickup truck	1/2 ton	1.000	5	800	25,000	45	2.50	11.08	11.08	6.70	6.70
Truck	5 ton	1.000	12	100	115,000	100	5.00	112.83	112.83	124.46	124.46

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, 2013.

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	7.39	3.69
Blade-Scraper	10'	1.176	20	200	3,060	190	1.45	1.71	1.18	1.39
Cultimulcher	12 Ft	0.160	15	120	4,846	88	2.36	0.37	3.77	0.60
Disk	24 ft	0.081	10	180	34,900	50	9.69	0.79	20.84	1.70
Disk Harrow	32'	0.061	10	180	47,600	50	13.22	0.81	28.42	1.74
Ditcher rotary	1.5 ft	0.020	10	200	4,390	80	1.75	0.03	2.35	0.04
Ditcher side	1.5	0.009	10	200	4,390	80	1.75	0.01	2.35	0.02
Dozer blade	8 ft	0.880	20	100	1,090	66	0.35	0.31	0.86	0.75
Drag	14 ft	0.130	8	200	500	88	0.27	0.03	0.36	0.04
Fertilizer buggy	30 ft	0.060	10	150	10,900	88	6.39	0.38	8.95	0.53
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	24,700	25	6.17	0.38	26.55	1.65
Field cultivator	32 ft	0.046	10	100	31,400	25	7.85	0.36	33.75	1.57
Grain cart	500 bu	0.057	12	200	20,856	65	5.64	0.32	9.99	0.57
Grain drill	12 ft	0.157	8	150	22,400	45	8.40	1.31	16.36	2.57
Grain drill	20 ft	0.094	8	150	36,700	45	13.76	1.29	26.81	2.52
Harrow	13Ft	0.119	10	200	3,810	70	1.33	0.15	2.04	0.24
Levee plow	8 Ft	0.050	10	150	4,600	50	1.53	0.07	3.77	0.18
PTO aerator	hour	1.000	10	426	2,600	25	0.15	0.15	0.75	0.75
Rotary mower	13.3 ft	0.130	10	150	10,800	44	3.16	0.41	8.87	1.15
Rotary mower-levees	6.7 ft	0.500	10	150	3,950	44	1.15	0.57	3.24	1.62
Side Mount Mower	6 ft	0.500	6	50	4,400	20	2.93	1.46	16.19	8.09
Spike harrow	18 ft	0.080	10	200	9,500	70	3.32	0.26	5.10	0.40
Tractor blade	6 ft	1.000	20	200	1,090	190	0.51	0.51	0.42	0.42
Water level	24 ft	0.149	15	100	3,500	66	1.54	0.23	3.27	0.49

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, 2013.

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	2.158	7.293	1.438	32.34
Crawf irrig single	acin	0.150	2.158	7.293	1.438	32.34
Crawf pond&eq double	acre	0.742	0.000	0.742		40.02
Crawf pond&eq single	acre	7.180	0.000	7.180		97.38
Irrigation system 1	acre	3.750	53.958	182.350		35.13

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