
**2010
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, 2010

by

Robert W. Boucher and Jeffrey M. Gillespie



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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 to 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 is 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 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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Table 1. A Summary of Projected Costs and Returns per Acre for Crawfish and Crawfish-Rice Production in Louisiana, 2010.

Crop Description	Yield Per Acre	Direct Expenses	Fixed Expenses	Total Expenses
	Pounds	----- Dollars per Acre -----		
Crawfish Enterprises:				
Southwest Louisiana, Owner				
Non-aerated, b	600.00	495.44	151.13	646.57
Crawfish-Rice Double Crop, a b c	600+4200	844.59	133.75	978.34
Crawfish-Rice in Rotation, a b d	600+6000	914.88	149.90	1064.78

a Income for rice was calculated by multiplying the market price of \$15 by 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 60 cwt of rice.

Table 2. Breakeven Selling Prices for Crawfish for Selected Yield Levels, Louisiana, 2010.

	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								
Non-aerated, Owner	622.30		600	1.35	1.20	1.08	0.98	0.90
Crawfish-Rice Double Crop, b	620.27		600	1.20	1.06	0.96	0.87	0.80
Crawfish-Rice in Rotation, b	435.10		600	0.82	0.73	0.65	0.59	0.55
PRICES REQUIRED TO RECOVER VARIABLE COSTS								
Crawfish Enterprises:								
Southwest Louisiana								
Non-aerated, Owner		471.17	600	1.03	0.92	0.83	0.75	0.69
Crawfish-Rice Double Crop, b		583.84	600	1.12	1.00	0.90	0.82	0.75
Crawfish-Rice in Rotation, b		381.39	600	0.71	0.63	0.57	0.51	0.47

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 and Returns per Acre,
Single Crop Crawfish, Owner-Operators,
Southwest Louisiana, 2010.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Crawfish (December-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	7.00	0.7500	5.25	_____
BAIT					
Crawfish bait (fish)	lbs	0.44	175.0000	77.00	_____
Manuf. crawfish bait	lbs	0.22	180.0000	39.60	_____
FERTILIZER					
Urea (45%)	lbs	0.16	75.0000	12.00	_____
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	0.3300	3.16	_____
DIESEL FUEL					
Tractors	gal	2.30	1.7397	4.00	_____
Self-Propelled Eq.	gal	2.30	1.0075	2.31	_____
Crawf irrig single	gal	2.30	73.4910	169.02	_____
GASOLINE					
Self-Propelled Eq.	gal	2.47	1.5975	3.94	_____
REPAIR & MAINTENANCE					
Implements	acre	1.74	1.0000	1.74	_____
Tractors	acre	0.62	1.0000	0.62	_____
Self-Propelled Eq.	acre	2.41	1.0000	2.41	_____
Crawf irrig single	acin	0.52	33.0000	17.32	_____
Crawf pond&eq single	acre	7.18	1.0000	7.18	_____
INTEREST ON OP. CAP.	acre	12.58	1.0000	12.58	_____
TOTAL DIRECT EXPENSES				495.44	_____
FIXED EXPENSES					
Implements	acre	4.23	1.0000	4.23	_____
Tractors	acre	4.17	1.0000	4.17	_____
Self-Propelled Eq.	acre	7.02	1.0000	7.02	_____
Crawf irrig single	acre	34.78	1.0000	34.78	_____
Crawf pond&eq single	acre	100.92	1.0000	100.92	_____
TOTAL FIXED EXPENSES				151.13	_____
TOTAL SPECIFIED EXPENSES				646.57	_____
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-Operators,
Southwest Louisiana, 2010.

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				626.64	_____
DIRECT EXPENSES					
CUSTOM					
Airplane fert	cwt	7.00	4.4000	30.80	_____
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	0.44	131.2500	57.75	_____
Manuf. crawfish bait	lbs	0.22	90.0000	19.80	_____
FERTILIZER					
Nitrogen	lbs	0.42	125.0000	52.50	_____
Phosphate	lbs	0.39	50.0000	19.50	_____
Potash	lbs	0.48	50.0000	24.00	_____
HERBICIDES					
Stam 4E	qt	5.12	3.0000	15.36	_____
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	0.33	120.0000	39.60	_____
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	0.6324	6.07	_____
OWNER LABOR					
Self-Propelled Eq.	hour	15.30	0.3303	5.05	_____
DIESEL FUEL					
Tractors	gal	2.30	7.1637	16.47	_____
Self-Propelled Eq.	gal	2.30	3.3325	7.66	_____
Crawf irrig double	gal	2.30	113.5770	261.22	_____
GASOLINE					
Self-Propelled Eq.	gal	2.47	1.3275	3.27	_____
REPAIR & MAINTENANCE					
Implements	acre	3.22	1.0000	3.22	_____
Tractors	acre	2.72	1.0000	2.72	_____
Self-Propelled Eq.	acre	15.12	1.0000	15.12	_____
Crawf irrig double	acin	0.15	51.0000	7.90	_____
Crawf pond&eq double	acre	0.74	1.0000	0.74	_____
INTEREST ON OP. CAP.	acre	25.77	1.0000	25.77	_____

TOTAL DIRECT EXPENSES				844.59	_____
FIXED EXPENSES					
Implements	acre	8.27	1.0000	8.27	_____
Tractors	acre	18.09	1.0000	18.09	_____
Self-Propelled Eq.	acre	27.34	1.0000	27.34	_____
Crawf irrig double	acre	39.31	1.0000	39.31	_____
Crawf pond&eq double	acre	40.72	1.0000	40.72	_____

TOTAL FIXED EXPENSES				133.75	_____

TOTAL SPECIFIED EXPENSES				978.34	_____
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 and Returns per Acre,
Rice-Crawfish, in Field Rotation,
Owner-Operator, Southwest Louisiana, 2010.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	cwt	15.00	60.0000	900.00	_____
Rice Checkoff	cwt	0.08	-60.0000	-4.80	_____
Crawfish (Jan.-June)	lbs		600.0000		_____
TOTAL INCOME				895.20	_____
DIRECT EXPENSES					
CUSTOM					
Airplane fert	cwt	7.00	3.8000	26.60	_____
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	68.0000	61.20	_____
Haul rice	cwt	0.30	60.0000	18.00	_____
BAIT					
Crawfish bait (fish)	lbs	0.44	90.0000	39.60	_____
Manuf. crawfish bait	lbs	0.22	120.0000	26.40	_____
FERTILIZER					
Nitrogen	lbs	0.42	125.0000	52.50	_____
Phosphate	lbs	0.39	50.0000	19.50	_____
Potash	lbs	0.48	50.0000	24.00	_____
FUNGICIDES					
Quadris	oz	2.56	10.0000	25.60	_____
HERBICIDES					
Facet 75DF	lb	50.75	0.5000	25.37	_____
Londax 60DF	oz	13.40	1.0000	13.40	_____
2,4-D Amine 4	pt	2.08	2.5000	5.20	_____
HIRED LABOR					
Other labor	hour	9.60	0.0500	0.48	_____
Irrigation labor	hour	9.60	2.0000	19.20	_____
INSECTICIDES					
Karate Z	oz	3.28	4.0000	13.12	_____
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	0.33	120.0000	39.60	_____
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	0.5670	5.44	_____
OWNER LABOR					
Self-Propelled Eq.	hour	15.30	0.3303	5.05	_____
DIESEL FUEL					
Tractors	gal	2.30	12.4264	28.58	_____
Self-Propelled Eq.	gal	2.30	3.5675	8.20	_____
Crawf irrig double	gal	2.30	101.8407	234.23	_____
GASOLINE					
Self-Propelled Eq.	gal	2.47	1.2600	3.11	_____
REPAIR & MAINTENANCE					
Implements	acre	3.44	1.0000	3.44	_____
Tractors	acre	5.01	1.0000	5.01	_____
Self-Propelled Eq.	acre	15.33	1.0000	15.33	_____
Crawf irrig double	acin	0.15	45.7300	7.08	_____
Crawf pond&eq double	acre	0.74	2.0000	1.48	_____
INTEREST ON OP. CAP.	acre	17.81	1.0000	17.81	_____
TOTAL DIRECT EXPENSES				914.88	_____
FIXED EXPENSES					
Implements	acre	7.87	1.0000	7.87	_____
Tractors	acre	34.17	1.0000	34.17	_____
Self-Propelled Eq.	acre	27.82	1.0000	27.82	_____
Crawf irrig double	acre	39.31	1.0000	39.31	_____
Crawf pond&eq double	acre	40.72	1.0000	40.72	_____
TOTAL FIXED EXPENSES				149.90	_____
TOTAL SPECIFIED EXPENSES				1064.78	_____
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-Operators, Southwest Louisiana, 2010.

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	150	0.081	1.00	Jul	3.41	3.35	7.18	100.92	0.163	1.57	1.0000			108.10
Disk	24 ft			2.00	Jul			1.52	3.57						13.43
Crawf irrig single	acin			1.00	Jul			8.47	34.78	0.015	0.14	1.5000			43.39
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	0.17	0.11	0.03	0.09	0.026	0.25				0.67
Airplane fert	cwt			1.00	Jul							0.7500	7.00	5.25	5.25
Urea (45%)	lbs											75.0000	0.16	12.00	12.00
Global pos. system	acre											1.0000	0.35	0.35	0.35
Crawf irrig single	acin			1.00	Aug			8.47		0.015	0.14	1.5000			8.61
Irrigation labor	hour											0.1000	9.60	0.96	0.96
Rotary mower-levees	6.7 ft	50	0.500	0.05	Aug	0.17	0.11	0.03	0.09	0.026	0.25				0.67
Crawf irrig single	acin			1.00	Sep			8.47		0.015	0.14	1.5000			8.61
Irrigation labor	hour											0.1000	9.60	0.96	0.96
Rotary mower-levees	6.7 ft	50	0.500	0.05	Sep	0.17	0.11	0.03	0.09	0.026	0.25				0.67
Crawf irrig single	acin			1.00	Oct			67.76		0.120	1.15	12.0000			68.91
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	0.17	0.11	0.03	0.09	0.026	0.25				0.67
Crawf irrig single	acin			1.00	Nov			22.58		0.040	0.38	4.0000			22.97
Irrigation labor	hour											0.1000	9.60	0.96	0.96
Crawfish combine	12 hp		0.075	3.00	Dec			0.22	0.17	0.247	2.37	0.1000	9.60	0.96	2.77
Crawfish bait (fish)	lbs											15.0000	0.44	6.60	6.60
Sacks	each											0.7680	0.40	0.30	0.30
Crawf irrig single	acin			1.00	Dec			14.11		0.025	0.24	2.5000			14.35
Irrigation labor	hour											0.1000	9.60	0.96	0.96
Pickup truck	1/2 ton		1.000	0.04	Dec			0.36	0.29	0.043	0.41				1.08
Crawfish combine	12 hp		0.075	12.00	Jan			0.88	0.71	0.990	9.50				11.09
Crawfish bait (fish)	lbs											60.0000	0.44	26.40	26.40
Sacks	each											3.0720	0.40	1.22	1.22
Crawf irrig single	acin			1.00	Jan			11.29		0.020	0.19	2.0000			11.48
Irrigation labor	hour											0.1000	9.60	0.96	0.96
Pickup truck	1/2 ton		1.000	0.05	Jan			0.47	0.39	0.056	0.53				1.40
Crawfish combine	12 hp		0.075	12.00	Feb			0.88	0.71	0.990	9.50				11.09
Crawfish bait (fish)	lbs											60.0000	0.44	26.40	26.40
Sacks	each											3.0720	0.40	1.22	1.22
Crawf irrig single	acin			1.00	Feb			11.29		0.020	0.19	2.0000			11.48
Irrigation labor	hour											0.1000	9.60	0.96	0.96
Pickup truck	1/2 ton		1.000	0.05	Feb			0.43	0.35	0.051	0.48				1.28
Crawfish combine	12 hp		0.075	16.00	Mar			1.17	0.94	1.320	12.67				14.79
Manuf. crawfish bait	lbs											40.0000	0.22	8.80	8.80
Crawfish bait (fish)	lbs											40.0000	0.44	17.60	17.60
Sacks	each											4.0960	0.40	1.63	1.63
Crawf irrig single	acin			1.00	Mar			11.29		0.020	0.19	2.0000			11.48
Irrigation labor	hour											0.1000	9.60	0.96	0.96
Pickup truck	1/2 ton		1.000	0.08	Mar			0.73	0.59	0.086	0.82				2.16
Crawfish combine	12 hp		0.075	16.00	Apr			1.17	0.94	1.320	12.67				14.79
Manuf. crawfish bait	lbs											80.0000	0.22	17.60	17.60
Sacks	each											4.1024	0.40	1.64	1.64
Crawf irrig single	acin			1.00	Apr			11.29		0.020	0.19	2.0000			11.48
Irrigation labor	hour											0.1000	9.60	0.96	0.96
Pickup truck	1/2 ton		1.000	0.09	Apr			0.77	0.62	0.090	0.86				2.26
Rotary mower-levees	6.7 ft	50	0.500	0.05	Apr	0.17	0.11	0.03	0.09	0.026	0.25				0.67
Crawfish combine	12 hp		0.075	12.00	May			0.88	0.71	0.990	9.50				11.09
Manuf. crawfish bait	lbs											60.0000	0.22	13.20	13.20
Sacks	each											3.0720	0.40	1.22	1.22
Crawf irrig single	acin			1.00	May			11.29		0.020	0.19	2.0000			11.48
Irrigation labor	hour											0.3000	9.60	2.88	2.88
Pickup truck	1/2 ton		1.000	0.07	May			0.65	0.53	0.077	0.73				1.93
Rotary mower-levees	6.7 ft	50	0.500	0.05	May	0.17	0.11	0.03	0.09	0.026	0.25				0.67
Rotary mower-levees	6.7 ft	50	0.500	0.05	Jun	0.17	0.11	0.03	0.09	0.026	0.25				0.67
TOTALS						4.63	4.17	203.95	146.95	6.939	66.62			207.64	633.98
INTEREST ON OPERATING CAPITAL															12.58
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															646.57

Table 4.B Estimated Resource Use and Costs for Field Operations, per Acre, Rice-Crawfish Double Crop, Owner-Operators, Southwest Louisiana, 2010.

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		0.081	1.00	May	3.41	3.35	0.74	40.72	0.163	1.57	1.0000			41.46
Disk	24 ft	150		2.00	May			1.52	3.57						13.43
Airplane fert	cwt			1.00	May							3.0000	7.00	21.00	21.00
Nitrogen	lbs											62.0000	0.42	26.04	26.04
Phosphate	lbs											50.0000	0.39	19.50	19.50
Potash	lbs											50.0000	0.48	24.00	24.00
Global pos. system	acre											1.0000	0.35	0.35	0.35
Field cultivator	24 ft	150	0.062	1.00	May	1.29	1.27	0.36	1.69	0.062	0.59				5.22
Levee plow	8 ft	150	0.050	3.00	May	3.12	3.08	0.23	0.60	0.150	1.44				8.48
Ditcher rotary	1.5 ft	105	0.020	1.00	May	0.28	0.25	0.03	0.05	0.020	0.19				0.82
Dozer blade	8 ft	105	0.880	0.10	May	1.25	1.10	0.10	0.27	0.088	0.84				3.57
Backhoe	8 ft	105	0.500	0.10	May	0.71	0.62	0.26	0.39	0.050	0.48				2.48
Other labor	hour											0.0200	9.60	0.19	0.19
Crawf irrig double	acin			1.00	May				47.49	39.31	0.111	1.07			87.87
Irrigation labor	hour											9.0000			9.00
Rice gate	each											0.6000	9.60	5.76	5.76
Water level	24 ft	150	0.149	1.00	May	3.12	3.07	0.23	0.53	0.149	1.43	1.0000	3.65	3.65	3.65
Drag	14 ft	105	0.130	1.00	May	1.85	1.62	0.03	0.05	0.130	1.24				8.41
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				42.21		0.099	0.95			43.16
Irrigation labor	hour											8.0000			8.00
App by air	appl			1.00	Jun							0.2000	9.60	1.92	1.92
Stam 4E	qt											1.0000	6.00	6.00	6.00
Global pos. system	acre											3.0000	5.12	15.36	15.36
Crawf irrig double	acin			1.00	Jul				42.21		0.099	0.95			43.16
Airplane fert	cwt			1.00	Jul							1.4000	7.00	9.80	9.80
Nitrogen	lbs											63.0000	0.42	26.46	26.46
Global pos. system	acre											1.0000	0.35	0.35	0.35
Dozer blade	8 ft	105	0.880	0.10	Aug	1.25	1.10	0.10	0.27	0.088	0.84				3.57
Other labor	hour											0.0200	9.60	0.19	0.19
Combine Rice	25 Ft		0.300	1.00	Aug				19.15	21.75	0.330	5.05			45.95
Grain cart	500 bu	105	0.057	0.38	Aug	0.17	0.27	0.09	0.19	0.021	0.20				0.94
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	2.51	2.20	0.20	0.54	0.176	1.68				7.15
Crawf irrig double	acin			1.00	Oct				63.32		0.148	1.42			64.75
Hip boots	pair											12.0000			12.00
Irrigation labor	hour											0.0083	74.95	0.62	0.62
Rotary mower-levees	6.7 ft	50	0.500	0.05	Oct	0.17	0.11	0.03	0.09	0.026	0.25	0.6000	9.60	5.76	5.76
Crawf irrig double	acin			1.00	Nov				21.10		0.049	0.47			21.58
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Crawfish combine	12 hp		0.075	3.00	Dec				0.22	0.17	0.247	2.37			2.77
Crawfish bait (fish)	lbs											11.2500	0.44	4.95	4.95
Sacks	each											0.9243	0.40	0.36	0.36
Crawf irrig double	acin			1.00	Dec				13.19		0.031	0.29			13.49
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.04	Dec				0.36	0.29	0.043	0.41			1.08
Crawfish combine	12 hp		0.075	12.00	Jan				0.88	0.71	0.990	9.50			11.09
Crawfish bait (fish)	lbs											45.0000	0.44	19.80	19.80
Sacks	each											3.6972	0.40	1.47	1.47
Crawf irrig double	acin			1.00	Jan				7.91		0.018	0.17			8.09
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Jan				0.47	0.39	0.056	0.53			1.40
Crawfish combine	12 hp		0.075	12.00	Feb				0.88	0.71	0.990	9.50			11.09
Crawfish bait (fish)	lbs											45.0000	0.44	19.80	19.80
Sacks	each											3.6984	0.40	1.47	1.47
Crawf irrig double	acin			1.00	Feb				10.55		0.024	0.23			10.79
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Feb				0.43	0.35	0.051	0.48			1.28
Crawfish combine	12 hp		0.075	16.00	Mar				1.17	0.94	1.320	12.67			14.79
Manuf. crawfish bait	lbs											30.0000	0.22	6.60	6.60
Crawfish bait (fish)	lbs											30.0000	0.44	13.20	13.20
Sacks	each											4.9296	0.40	1.97	1.97
Crawf irrig double	acin			1.00	Mar				10.55		0.024	0.23			10.79
Irrigation labor	hour											2.0000			2.00
Pickup truck	1/2 ton		1.000	0.08	Mar				0.73	0.59	0.086	0.82			3.84
Crawfish combine	12 hp		0.075	16.00	Apr				1.17	0.94	1.320	12.67			2.16
Manuf. crawfish bait	lbs											60.0000	0.22	13.20	13.20
Sacks	each											4.9312	0.40	1.97	1.97
Crawf irrig double	acin			1.00	Apr				10.55		0.024	0.23			10.79
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.06	Apr				0.54	0.44	0.064	0.61			1.60
TOTALS						19.20	18.09	299.16	115.65	7.256	71.54			428.91	952.57
INTEREST ON OPERATING CAPITAL															25.77
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															978.34

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Table 5.B Estimated Resource Use and Costs for Field Operations, per Acre, Rice-Crawfish, in Field Rotation, Owner-Operator, Southwest Louisiana, 2010.

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	3.83	3.89	1.49	3.50	0.122	1.17				13.91
Levee plow	8 Ft	4WD 300	0.050	2.00	Nov	4.15	4.13	0.15	0.40	0.100	0.96				9.80
Blade-Scraper	10'	MFWD 150	1.176	0.09	Nov	2.23	2.36	0.15	0.14	0.105	1.01				5.91
Ditcher rotary	1.5 ft	MFWD 150	0.020	1.00	Nov	0.42	0.44	0.03	0.05	0.020	0.19				1.15
Field cultivator	32 ft	4WD 300	0.046	1.00	Feb	1.93	1.92	0.38	1.79	0.046	0.44				6.49
Airplane fert	cwt			1.00	Feb							1.5000	7.00	10.50	10.50
Nitrogen	lbs											65.0000	0.42	27.30	27.30
Global pos. system	acre											1.0000	0.35	0.35	0.35
Airplane fert	cwt			1.00	Feb							1.0000	7.00	7.00	7.00
Phosphate	lbs											50.0000	0.39	19.50	19.50
Potash	lbs											50.0000	0.48	24.00	24.00
Global pos. system	acre											1.0000	0.35	0.35	0.35
Ditcher rotary	1.5 ft	MFWD 150	0.020	1.00	Feb	0.42	0.44	0.03	0.05	0.020	0.19				1.15
Blade-Scraper	10'	MFWD 150	1.176	0.09	Feb	2.23	2.36	0.15	0.14	0.105	1.01				5.91
Rice gate	each			1.00	Feb							1.0000	3.65	3.65	3.65
Backhoe		MFWD 150	0.500	0.05	Feb	0.52	0.55	0.13	0.19	0.025	0.24				1.65
Water level	24 ft	4WD 300	0.149	2.00	Feb	12.44	12.39	0.46	1.07	0.299	2.87				29.25
Crawf irrig double	acin			1.00	Mar			127.86	39.31	0.300	2.88				170.05
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	appl			1.00	Apr							1.0000	6.00	6.00	6.00
Karate Z	oz											2.0000	3.28	6.56	6.56
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	50.75	25.37	25.37
Londax 60DF	oz											1.0000	13.40	13.40	13.40
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	2.08	5.20	5.20
Global pos. system	acre											1.0000	0.35	0.35	0.35
Airplane fert	cwt			1.00	Jun							1.3000	7.00	9.10	9.10
Nitrogen	lbs											60.0000	0.42	25.20	25.20
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	2.56	25.60	25.60
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
App by air	appl			1.00	Jul							1.0000	6.00	6.00	6.00
Karate Z	oz											2.0000	3.28	6.56	6.56
Global pos. system	acre											1.0000	0.35	0.35	0.35
Combine Rice	25 Ft		0.300	1.00	Aug			19.15	21.75	0.330	5.05				45.95
Grain cart	500 bu	MFWD 150	0.057	0.20	Aug	0.24	0.25	0.05	0.10	0.011	0.10				0.76
Drying rice	cwt			1.00	Aug							68.0000	0.90	61.20	61.20
Haul rice	cwt			1.00	Aug							60.0000	0.30	18.00	18.00
Blade-Scraper	10'	MFWD 150	1.176	0.20	Aug	4.97	5.26	0.34	0.31	0.235	2.25				13.14
Crawf irrig double	acin			1.00	Oct			31.66		0.074	0.71				32.37
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	40.72		0.25				41.46
Rotary mower-levees	6.7 ft	50	0.500	0.05	Oct	0.17	0.11	0.03	0.09	0.026	0.25				0.67
Crawf irrig double	acin			1.00	Nov			21.10		0.049	0.47				21.58
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Crawf irrig double	acin			1.00	Dec			10.55		0.024	0.23				10.79
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Crawfish combine	12 hp		0.075	8.00	Jan			0.58	0.47	0.660	6.33				7.39
Crawfish bait (fish)	lbs											30.0000	0.44	13.20	13.20
Sacks	each											2.5968	0.40	1.03	1.03
Crawf irrig double	acin			1.00	Jan			7.91		0.018	0.17				8.09
Irrigation labor	hour											1.5000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Jan			0.47	0.39	0.056	0.53				1.40
Crawf pond&eq double	acre			1.00	Jan			0.74			0.74				0.74
Crawfish combine	12 hp		0.075	10.00	Feb			0.73	0.59	0.825	7.92				9.24
Crawfish bait (fish)	lbs											3.2460	0.40	1.29	1.29
Sacks	each											2.0000	0.40	1.55	1.55
Crawf irrig double	acin			1.00	Feb			10.55		0.024	0.23				10.79
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.05	Feb			0.43	0.35	0.051	0.48				1.28
Crawfish combine	12 hp		0.075	12.00	Mar			0.88	0.71	0.990	9.50				11.09
Manuf. crawfish bait	lbs											22.5000	0.22	4.95	4.95
Crawfish bait (fish)	lbs											22.5000	0.44	9.90	9.90
Sacks	each											3.8952	0.40	1.55	1.55
Crawf irrig double	acin			1.00	Mar			10.55		0.024	0.23				10.79
Irrigation labor	hour											0.4000	9.60	3.84	3.84
Pickup truck	1/2 ton		1.000	0.08	Mar			0.73	0.59	0.086	0.82				2.16
Crawfish combine	12 hp		0.075	12.00	Apr			0.88	0.71	0.990	9.50				11.09
Manuf. crawfish bait	lbs											45.0000	0.22	9.90	9.90
Sacks	each											3.9000	0.40	1.56	1.56
Crawf irrig double	acin			1.00	Apr			10.55		0.024	0.23				10.79
Irrigation labor	hour											0.2000	9.60	1.92	1.92
Pickup truck	1/2 ton		1.000	0.06	Apr			0.54	0.44	0.064	0.61				1.60
Pickup truck	1/2 ton		1.000	0.05	Apr			0.43	0.35	0.051	0.48				1.28
Crawfish combine	12 hp		0.075	10.00	May			0.73	0.59	0.825	7.92				9.24
Manuf. crawfish bait	lbs											37.5000	0.22	8.25	8.25
Sacks	each											3.2460	0.40	1.29	1.29
Crawf irrig double	acin			1.00	May			10.55		0.024	0.23				10.79
Pickup truck	1/2 ton		1.000	0.08	May			0.73	0.59	0.086	0.82				2.16
Crawfish combine	12 hp		0.075	4.00	Jun			0.29	0.23	0.330	3.16				3.69
Manuf. crawfish bait	lbs											15.0000	0.22	3.30	3.30
Sacks	each											1.2984	0.40	0.51	0.51
TOTALS						33.59	34.17	272.89	115.73	7.030	69.37			521.19	1046.97
INTEREST ON OPERATING CAPITAL															17.81
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															1064.78

Appendix Table 1. Operating Inputs: Estimated Prices, Louisiana, 2010.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
BAIT					
Crawfish bait (fish)	lbs	0.44	Manuf. crawfish bait	lbs	0.22
CUSTOM					
Airplane fert	cwt	7.00	Airplane seed	cwt	5.60
Airplane stam	acre	6.00	App by air	appl	6.00
Drying rice	cwt	0.90	Fertilizer truck	acre	4.50
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					
Nitrogen	lbs	0.42	Phosphate	lbs	0.39
Potash	lbs	0.48	Urea (45%)	lbs	0.16
FUNGICIDES					
Quadris	oz	2.56	Tilt	oz	2.39
HERBICIDES					
2,4-D Amine 4	pt	2.08	2,4-D LV4	pt	2.70
Facet 75DF	lb	50.75	Londax 60DF	oz	13.40
Stam 4E	qt	5.12			
HIRED LABOR					
Irrigation labor	hour	9.60	Other labor	hour	9.60
INSECTICIDES					
Karate Z	oz	3.28	Methyl parathion	pt	4.30
Sevin 80% S	lbs	6.81			
OTHER					
Accounting service	dol	1.00	Farmstead & drainage	dol	1.00
Hip boots	pair	74.95	Levee gate	gate	3.50
Misc. overhead	dol	1.00	Plastic	sqft	0.05
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					
Common bermuda seed	lbs	4.10	Rice seed	lbs	0.33
Ryegrass seed	lbs	0.70			

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, 2010.

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	8.56	6.97		
Tractor (15-30hp)	22		8	600	8,200	15	1.13	3.04	1.70		
Tractor (40-59hp)	50		8	600	21,240	15	2.57	6.57	4.40		
Tractor (60-89hp)	75		8	600	37,648	15	3.86	10.05	7.81		
Tractor (90-115hp)	105		8	600	60,333	15	5.40	14.30	12.52		
Tractor (200-249hp)	225		8	600	147,066	15	11.58	31.22	31.74		
Tractor (106-130hp)	118		8	600	84,260	15	6.69	18.02	17.48		
Tractor (140-159hp)	150		8	600	98,933	15	7.72	20.84	20.53		
Tractor (140-159hp)	150 MFWD		8	600	107,720	15	7.72	21.12	22.35		
Tractor (160-170hp)	170		8	600	108,217	15	8.75	23.50	23.35		
Tractor (180-199hp)	190		8	600	109,958	15	9.77	25.92	23.73		
Tractor (200-249)CB	4WD 225		8	600	147,066	15	11.58	31.23	31.74		
Tractor (250-349hp)	300		8	600	191,494	15	15.44	41.50	41.33		
Tractor GC(90-115hp)	105		8	600	60,333	15	2.59	7.84	12.52		
Tractor PTO(60-89hp)	68		8	600	37,648	15	3.86	10.05	7.81		
Tractor(140-159hp)CB	MFWD 150		8	600	107,720	15	7.72	21.12	22.35		
Tractor(250-349hp)	4WD 300		8	600	191,494	15	15.44	41.50	41.33		
2 man cf combine	12 hp	0.063	10	923	6,600	40	0.30	1.02	0.06	0.94	0.05
Boat, Motor&Trailer	14 ft	0.075	8	12	5,775	69	4.00	47.39	3.55	67.46	5.05
Combine Rice	25 Ft	0.300	10	300	165,000	80	8.60	63.78	19.15	72.43	21.75
Crawfish combine	12 hp	0.075	10	1098	6,600	40	0.30	0.98	0.07	0.79	0.05
Truck	5 ton	1.000	12	100	115,000	100	5.00	108.18	108.18	134.33	134.33

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, 2010.

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	7.90	3.95
Blade-Scraper	10'	1.176	20	200	3,069	190	1.45	1.71	1.33	1.56
Cultimulcher	12 Ft	0.160	15	120	4,640	88	2.26	0.36	3.95	0.63
Disk	24 ft	0.081	10	180	33,608	50	9.33	0.76	21.82	1.78
Disk Harrow	32'	0.061	10	180	43,981	50	12.21	0.74	28.55	1.75
Ditcher rotary	1.5 ft	0.020	10	200	4,873	80	1.94	0.03	2.84	0.05
Ditcher side	1.5	0.009	10	200	4,873	80	1.94	0.01	2.84	0.02
Dozer blade	8 ft	0.880	20	100	3,500	66	1.15	1.01	3.08	2.71
Drag	14 ft	0.130	8	200	500	88	0.27	0.03	0.38	0.05
Fertilizer buggy	30 ft	0.060	10	150	6,500	88	3.81	0.22	5.70	0.34
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	23,259	25	5.81	0.36	27.18	1.69
Field cultivator	32 ft	0.046	10	100	32,889	25	8.22	0.38	38.43	1.79
Grain cart	500 bu	0.057	12	200	16,979	65	4.59	0.26	8.93	0.51
Grain drill	12 ft	0.157	8	150	17,280	45	6.48	1.01	13.77	2.16
Grain drill	20 ft	0.094	8	150	31,741	45	11.90	1.12	25.30	2.38
Harrow	13Ft	0.119	10	200	3,690	70	1.29	0.15	2.15	0.25
Levee plow	8 Ft	0.050	10	150	4,600	50	1.53	0.07	4.03	0.20
PTO aerator	hour	1.000	10	426	2,600	25	0.15	0.15	0.80	0.80
Rotary mower	13.3 ft	0.130	10	150	7,000	44	2.05	0.26	6.14	0.79
Rotary mower-levees	6.7 ft	0.500	10	150	4,057	44	1.19	0.59	3.56	1.78
Side Mount Mower	6 ft	0.500	6	50	4,400	20	2.93	1.46	16.93	8.46
Spike harrow	18 ft	0.080	10	200	4,590	70	1.60	0.12	2.68	0.21
Tractor blade	6 ft	1.000	20	200	1,583	190	0.75	0.75	0.68	0.68
Water level	24 ft	0.149	15	100	3,500	66	1.54	0.23	3.57	0.53

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, 2010.

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	0.155	2.227	5.277		39.31
Crawf irrig north LA	acin	0.356	0.708	1.984		16.77
Crawf irrig single	acin	0.525	2.227	5.647		34.78
Crawf pond&eq relay	acre	1.071	0.000	1.071		83.05
Crawf pond&eq double	acre	0.742	0.000	0.742		40.72
Crawf pond&eq north	acre	11.000	0.000	11.000		94.11
Crawf pond&eq recir	acre	8.107	0.000	8.107		124.52
Crawf pond&eq single	acre	7.180	0.000	7.180		100.92
Feeder truck	ton	4.061	1.200	7.025		53.08

Appendix Table 5. Definitions of Selected Line Items in the Crawfish and Catfish 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