
2012
Projected
Commodity
Costs
And
Returns

Crawfish Production in Louisiana

Robert W. Boucher and Jeffrey M. Gillespie



PROJECTED COSTS AND RETURNS FOR CRAWFISH PRODUCTION IN LOUISIANA, 2012

by

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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 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, 2012.

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	587.87	162.09	749.96
Crawfish-Rice Double Crop, a b c	600+4200	1044.92	166.66	1211.58
Crawfish-Rice in Rotation, a b d	600+6000	1103.29	175.81	1279.10

a Income for rice was calculated by multiplying the market price of \$14 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 65 cwt of rice.

Table 2. Breakeven Selling Prices for Crawfish for Selected Yield Levels, Louisiana, 2012.

	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	749.96		600	1.56	1.39	1.25	1.14	1.04
Crawfish-Rice Double Crop, b	731.99		600	1.52	1.36	1.22	1.11	1.02
Crawfish-Rice in Rotation, b	479.35		600	1.00	0.89	0.80	0.73	0.67
PRICES REQUIRED TO RECOVER VARIABLE COSTS								
Crawfish Enterprises:								
Southwest Louisiana								
Single Crop Crawfish, Owner		587.87	600	1.22	1.09	0.98	0.89	0.82
Crawfish-Rice Double Crop, b		656.90	600	1.37	1.22	1.09	1.00	0.91
Crawfish-Rice in Rotation, b		395.11	600	0.82	0.73	0.66	0.60	0.55

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-Operator,
Southwest Louisiana, 2012.

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	6.25	0.7500	4.68	_____
BAIT					
Crawfish bait (fish)	lbs	0.40	175.0000	70.00	_____
Manuf. crawfish bait	lbs	0.26	180.0000	46.80	_____
FERTILIZER					
Urea (45%)	lbs	0.19	75.0000	14.25	_____
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	0.45	120.0000	54.00	_____
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	3.50	1.7397	6.08	_____
Self-Propelled Eq.	gal	3.50	1.0075	3.52	_____
Crawf irrig single	gal	3.50	71.2224	249.27	_____
GASOLINE					
Self-Propelled Eq.	gal	3.50	1.5975	5.59	_____
REPAIR & MAINTENANCE					
Implements	acre	1.71	1.0000	1.71	_____
Tractors	acre	0.72	1.0000	0.72	_____
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	14.46	1.0000	14.46	_____
TOTAL DIRECT EXPENSES				587.87	_____
FIXED EXPENSES					
Implements	acre	3.82	1.0000	3.82	_____
Tractors	acre	4.44	1.0000	4.44	_____
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				162.09	_____
TOTAL SPECIFIED EXPENSES				749.96	_____
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, 2012.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	cwt	14.00	42.0000	588.00	_____
Rice Checkoff	cwt	0.08	-42.0000	-3.36	_____
Crawfish (Dec- April)	lbs		600.0000		_____

TOTAL INCOME				584.64	_____
DIRECT EXPENSES					
CUSTOM					
Airplane fert	cwt	6.25	4.4000	27.50	_____
Global pos. system	acre	0.35	4.0000	1.40	_____
Airplane seed	cwt	5.60	1.4000	7.84	_____
App by air	acre	5.75	1.0000	5.75	_____
Drying rice	cwt	0.90	47.1900	42.47	_____
Haul rice	cwt	0.30	42.0000	12.60	_____
BAIT					
Crawfish bait (fish)	lbs	0.40	131.2500	52.50	_____
Manuf. crawfish bait	lbs	0.26	90.0000	23.40	_____
FERTILIZER					
Nitrogen	lbs	0.63	125.0000	78.75	_____
Phosphate	lbs	0.70	50.0000	35.00	_____
Potash	lbs	0.51	50.0000	25.50	_____
HERBICIDES					
Stam 4E	qt	6.69	3.0000	20.07	_____
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	0.45	120.0000	54.00	_____
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	0.6120	5.87	_____
OWNER LABOR					
Self-Propelled Eq.	hour	15.30	0.3303	5.05	_____
DIESEL FUEL					
Tractors	gal	3.50	7.1637	25.07	_____
Self-Propelled Eq.	gal	3.50	3.3325	11.66	_____
Crawf irrig double	gal	3.50	110.0710	385.24	_____
GASOLINE					
Self-Propelled Eq.	gal	3.50	1.3275	4.64	_____
REPAIR & MAINTENANCE					
Implements	acre	2.94	1.0000	2.94	_____
Tractors	acre	3.06	1.0000	3.06	_____
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	30.72	1.0000	30.72	_____

TOTAL DIRECT EXPENSES				1044.92	_____
FIXED EXPENSES					
Implements	acre	6.94	1.0000	6.94	_____
Tractors	acre	18.76	1.0000	18.76	_____
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	_____

TOTAL FIXED EXPENSES				166.66	_____

TOTAL SPECIFIED EXPENSES				1211.59	_____
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, 2012.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	cwt	14.00	65.0000	910.00	
Rice Checkoff	cwt	0.08	-65.0000	-5.20	
Crawfish (Jan - June)	lbs	1.00	600.0000		
TOTAL INCOME				904.80	
DIRECT EXPENSES					
CUSTOM					
Airplane fert	cwt	6.25	3.8000	23.75	
Global pos. system	acre	0.35	9.0000	3.15	
Airplane seed	cwt	5.60	1.2000	6.72	
App by air	acre	5.75	5.0000	28.75	
Drying rice	cwt	0.90	72.0000	64.80	
Haul rice	cwt	0.30	65.0000	19.50	
BAIT					
Crawfish bait (fish)	lbs	0.40	90.0000	36.00	
Manuf. crawfish bait	lbs	0.26	120.0000	31.20	
FERTILIZER					
Nitrogen	lbs	0.63	125.0000	78.75	
Phosphate	lbs	0.70	50.0000	35.00	
Potash	lbs	0.51	50.0000	25.50	
FUNGICIDES					
Quadris	oz	2.24	10.0000	22.40	
HERBICIDES					
Facet 75DF	lb	45.50	0.5000	22.75	
Londax 60DF	oz	14.50	1.0000	14.50	
2,4-D Amine 4	pt	2.01	2.5000	5.02	
HIRED LABOR					
Other labor	hour	9.60	0.0500	0.48	
Irrigation labor	hour	9.60	2.0000	19.20	
INSECTICIDES					
Karate Z	oz	2.73	4.0000	10.92	
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	0.45	120.0000	54.00	
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	0.5487	5.26	
OWNER LABOR					
Self-Propelled Eq.	hour	15.30	0.3303	5.05	
DIESEL FUEL					
Tractors	gal	3.50	12.4264	43.49	
Self-Propelled Eq.	gal	3.50	3.5675	12.48	
Crawf irrig double	gal	3.50	98.6970	345.43	
GASOLINE					
Self-Propelled Eq.	gal	3.50	1.2600	4.41	
REPAIR & MAINTENANCE					
Implements	acre	3.45	1.0000	3.45	
Tractors	acre	5.52	1.0000	5.52	
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	21.06	1.0000	21.06	
TOTAL DIRECT EXPENSES				1103.29	
FIXED EXPENSES					
Implements	acre	7.27	1.0000	7.27	
Tractors	acre	34.79	1.0000	34.79	
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	
TOTAL FIXED EXPENSES				175.81	
TOTAL SPECIFIED EXPENSES				1279.10	
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, 2012.

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 pondseq single acre				1.00	Jul			7.18	97.38			1.0000				104.56
Disk 24 ft	150		0.081	2.00	Jul	4.99	3.53	1.49	3.22	0.163	1.57					14.82
Crawf irrig single acin				1.00	Jul			11.55	2.15	0.018	0.17	1.5000				13.88
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	0.45	54.00		54.00
Global pos. system acre												1.0000	0.35	0.35		0.35
Rotary mower-levees 6.7 ft	50		0.500	0.05	Jul	0.25	0.12	0.03	0.08	0.026	0.25					0.75
Airplane fert cwt				1.00	Jul							0.7500	6.25	4.68		4.68
Urea (45%) lbs												75.0000	0.19	14.25		14.25
Global pos. system acre												1.0000	0.35	0.35		0.35
Crawf irrig single acin				1.00	Aug			11.55	2.15	0.018	0.17	1.5000				13.88
Irrigation labor hour												0.1000	9.60	0.96		0.96
Rotary mower-levees 6.7 ft	50		0.500	0.05	Aug	0.25	0.12	0.03	0.08	0.026	0.25					0.75
Crawf irrig single acin				1.00	Sep			11.55	2.15	0.018	0.17	1.5000				13.88
Irrigation labor hour												0.1000	9.60	0.96		0.96
Rotary mower-levees 6.7 ft	50		0.500	0.05	Sep	0.25	0.12	0.03	0.08	0.026	0.25					0.75
Crawf irrig single acin				1.00	Oct			92.44	17.26	0.144	1.38	12.0000				111.08
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	0.25	0.12	0.03	0.08	0.026	0.25					0.75
Crawf irrig single acin				1.00	Nov			30.81	5.75	0.048	0.46	4.0000				37.02
Irrigation labor hour												0.1000	9.60	0.96		0.96
Crawfish combine 12 hp			0.075	3.00	Dec			0.32	0.26	0.247	2.37					2.96
Crawfish bait (fish) lbs												15.0000	0.40	6.00		6.00
Sacks each												0.7680	0.40	0.30		0.30
Crawf irrig single acin				1.00	Dec			19.25	3.59	0.030	0.28	2.5000				23.14
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.04	Dec			0.49	0.28	0.043	0.41					1.19
Crawfish combine 12 hp			0.075	12.00	Jan			1.28	1.06	0.990	9.50					11.85
Crawfish bait (fish) lbs												60.0000	0.40	24.00		24.00
Sacks each												3.0720	0.40	1.22		1.22
Crawf irrig single acin				1.00	Jan			15.40	2.87	0.024	0.23	2.0000				18.51
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.05	Jan			0.64	0.37	0.056	0.53					1.56
Crawfish combine 12 hp			0.075	12.00	Feb			1.28	1.06	0.990	9.50					11.85
Crawfish bait (fish) lbs												60.0000	0.40	24.00		24.00
Sacks each												3.0720	0.40	1.22		1.22
Crawf irrig single acin				1.00	Feb			15.40	2.87	0.024	0.23	2.0000				18.51
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.05	Feb			0.58	0.34	0.051	0.48					1.42
Crawfish combine 12 hp			0.075	16.00	Mar			1.71	1.41	1.320	12.67					15.80
Manuf. crawfish bait lbs												40.0000	0.26	10.40		10.40
Crawfish bait (fish) lbs												40.0000	0.40	16.00		16.00
Sacks each												4.0960	0.40	1.63		1.63
Crawf irrig single acin				1.00	Mar			15.40	2.87	0.024	0.23	2.0000				18.51
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.08	Mar			0.99	0.57	0.086	0.82					2.39
Crawfish combine 12 hp			0.075	16.00	Apr			1.71	1.41	1.320	12.67					15.80
Manuf. crawfish bait lbs												80.0000	0.26	20.80		20.80
Sacks each												4.1024	0.40	1.64		1.64
Crawf irrig single acin				1.00	Apr			15.40	2.87	0.024	0.23	2.0000				18.51
Irrigation labor hour												0.1000	9.60	0.96		0.96
Pickup truck 1/2 ton			1.000	0.09	Apr			1.04	0.60	0.090	0.86					2.50
Rotary mower-levees 6.7 ft	50		0.500	0.05	Apr	0.25	0.12	0.03	0.08	0.026	0.25					0.75
Crawfish combine 12 hp			0.075	12.00	May			1.28	1.06	0.990	9.50					11.85
Manuf. crawfish bait lbs												60.0000	0.26	15.60		15.60
Sacks each												3.0720	0.40	1.22		1.22
Crawf irrig single acin				1.00	May			15.40	2.87	0.024	0.23	2.0000				18.51
Irrigation labor hour												0.3000	9.60	2.88		2.88
Pickup truck 1/2 ton			1.000	0.07	May			0.89	0.51	0.077	0.73					2.14
Rotary mower-levees 6.7 ft	50		0.500	0.05	May	0.25	0.12	0.03	0.08	0.026	0.25					0.75
Rotary mower-levees 6.7 ft	50		0.500	0.05	Jun	0.25	0.12	0.03	0.08	0.026	0.25					0.75
TOTALS						6.81	4.44	275.41	157.65	7.005	67.25			223.93		735.50
INTEREST ON OPERATING CAPITAL																14.46
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																749.96

Appendix Table 1. Operating Inputs: Estimated Prices, Louisiana, 2012.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
BAIT			BAIT		
Crawfish bait (fish)	lbs	0.40	Manuf. crawfish bait	lbs	0.26
CUSTOM			CUSTOM		
Airplane fert	cwt	6.25	Airplane fert	acre	6.25
Airplane seed	acre	5.60	Airplane stam	acre	7.75
App by air	acre	5.75	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		
Nitrogen	lbs	0.63	Phosphate	lbs	0.70
Potash	lbs	0.51	Urea (45%)	lbs	0.19
FUNGICIDES			FUNGICIDE		
Quadris	oz	2.24	Tilt	oz	1.25
HERBICIDES			HERBICIDE		
2,4-D Amine 4	pt	2.01	2,4-D LV4	pt	2.31
Facet 75DF	lb	45.50	Londax 60DF	oz	14.50
Stam 4E	qt	6.69			
HIRED LABOR			HIRED LABOR		
Irrigation labor	hour	9.60	Other labor	hour	9.60
INSECTICIDES			INSECTICIDE		
Karate Z	oz	2.73	Methyl parathion	pt	4.44
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	0.45			

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, 2012.

ITEM NAME	SIZE	PERF	USEFUL	ANNUAL	PURCHASE	REPAIR	CONS	--DIRECT COST--		--FIXEDCOST--	
		RATE	LIFE	USE	PRICE	COST	RATE	\$/hr	\$/ac	\$/hr	\$/ac
		hrs/ac	years	hours	dollars	percent	/hour				
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	11.56		6.70	
Tractor (15-30hp)	22		8	600	8,200	15	1.13	4.21		1.56	
Tractor (40-59hp)	50		8	600	25,500	15	2.57	9.79		4.87	
Tractor (60-89hp)	75		8	600	42,100	15	3.86	14.82		8.05	
Tractor (90-115hp)	105		8	600	66,300	15	5.40	20.97		12.68	
Tractor (200-249hp)	225		8	600	147,066	15	11.58	45.12		29.40	
Tractor (106-130hp)	118		8	600	97,500	15	6.69	26.46		18.65	
Tractor (140-159hp)	150		8	600	113,000	15	7.72	30.55		21.61	
Tractor (140-159hp)	150 MFWD		8	600	122,000	15	7.72	30.83		23.33	
Tractor (160-170hp)	170		8	600	119,000	15	8.75	34.34		23.79	
Tractor (180-199hp)	190		8	600	143,000	15	9.77	38.69		28.59	
Tractor (200-249)CB	4WD 225		8	600	147,066	15	11.58	45.13		29.40	
Tractor (250-349hp)	300		8	600	211,000	15	15.44	60.64		42.18	
Tractor GC(90-115hp)	105		8	600	65,300	15	2.59	11.10		12.49	
Tractor PTO(60-89hp)	68		8	600	42,100	15	3.86	14.82		8.05	
Tractor(140-159hp)CB	MFWD 150		8	600	122,000	15	7.72	30.83		23.33	
Tractor(250-349hp)	4WD 300		8	600	211,000	15	15.44	60.64		42.18	
2 man cf combine	12 hp	0.063	10	923	10,500	40	0.30	1.50	0.09	1.40	0.08
Boat, Motor&Trailer	14 ft	0.075	8	12	6,000	69	4.00	52.97	3.97	66.15	4.96
Combine Rice	25 Ft	0.300	10	300	165,000	80	8.60	74.10	22.25	67.77	20.35
Crawfish combine	12 hp	0.075	10	1098	10,500	40	0.30	1.43	0.10	1.17	0.08
Truck	5 ton	1.000	12	100	115,000	100	5.00	113.33	113.33	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, 2012.

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	2,970	190	1.41	1.65	1.15	1.35
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	33,000	50	9.16	0.74	19.70	1.61
Disk Harrow	32'	0.061	10	180	44,800	50	12.44	0.76	26.75	1.64
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	1,160	66	0.38	0.33	0.91	0.80
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	11,300	88	6.62	0.39	9.28	0.55
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	23,500	25	5.87	0.36	25.26	1.57
Field cultivator	32 ft	0.046	10	100	32,700	25	8.17	0.38	35.15	1.64
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	17,400	45	6.52	1.02	12.71	1.99
Grain drill	20 ft	0.094	8	150	29,000	45	10.87	1.02	21.18	1.99
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	3,500	190	1.66	1.66	1.35	1.35
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, 2012.

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	7.703	1.438	32.34
Crawf irrig single	acin	0.150	2.158	7.703	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	192.603		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