
**2008
Projected
Commodity
Costs
And
Returns**

**Crawfish Production in
Louisiana**

Robert W. Boucher and Jeffrey M. Gillespie



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by

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TABLE OF CONTENTS

| | |
|--------------------|-------------|
| INTRODUCTION | PAGE B-1 |
|--------------------|-------------|

LIST OF TABLES

| TABLE | PAGE |
|---|------|
| 1 A Summary of Projected Costs per Acre for Crawfish and Crawfish-Rice Production, Louisiana, 2008. | B-3 |
| 2 Breakeven Selling Prices for Crawfish for Selected Yield Levels, Louisiana, 2008. | B-3 |
| 3A Estimated Costs and Returns per Acre, Single Crop Crawfish, Owner-Operator, North Louisiana, 2008. | B-4 |
| 4A Estimated Costs and Returns per Acre, Single Crop Crawfish, Owner-Operator, Southwest Louisiana, 2008. | B-5 |
| 5A Estimated Costs and Returns per Acre, Rice-Crawfish Double Crop, Owner-Operator, Southwest Louisiana, 2008. | B-6 |
| 3B Estimated Resource Use and Costs for Field Operations per Acre, Single Crop Crawfish, Owner-Operator, North Louisiana, 2008. | B-7 |
| 4B Estimated Resource Use and Costs for Field Operations per Acre, Single Crop Crawfish, Owner-Operator, Southwest Louisiana, 2008. | B-8 |
| 5B Estimated Resource Use and Costs for Field Operations per Acre, Rice - Crawfish Double Crop, Owner-Operator, Southwest Louisiana, 2008. | B-9 |

APPENDIX TABLE

| TABLE | | PAGE |
|-------|--|------|
| 1 | A Summary of Projected Costs Based on Reduced Fishing Days for Crawfish and Crawfish-Rice Production, Louisiana, 2008. | B-10 |
| 2 | Operating Inputs: Estimated Prices, Louisiana, 2008. | B-11 |
| 3 | Powered Equipment: Estimated Useful Life, Annual Use, Purchase Price, Repair Cost, Fuel Consumption Rate, and Direct and Fixed Cost per Hour, Louisiana, 2008. | B-11 |
| 4 | Implements: Estimated Performance Rate, Useful Life, Annual Use, Purchase Price, Repair Cost, and Direct and Fixed Cost per Hour and per Acre, Louisiana, 2008. | B-12 |
| 5 | 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, 2008. | B-12 |
| 6 | Definitions of Selected Line Items in the Crawfish and Catfish Production Budgets | B-13 |

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INTRODUCTION

Aquaculture 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.

Crawfish budgets are presented for three production-marketing situations. They are based primarily on a 1990 survey of 39 commercial crawfish producers with supplemental information provided by researchers and Cooperative Extension Service personnel. The personal interview survey collected information on production, harvesting, and marketing practices.

Budgets are presented for three owner-operator situations without aeration that typify producers included in the survey: 1) Northeast Louisiana single crop ponds (Table 3), 2) Southwest Louisiana single crop ponds (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 power boat with 20 traps per acre. In Southwest Louisiana, harvesting is assumed to occur every other day during December through February and daily during March through May. In Northeast Louisiana, harvesting is assumed to occur daily from March 1 to May 15 to accommodate retail marketing.

Appendix table 1 presents a summary of projected costs based on reduced fishing days for the three situations discussed. This table provides the direct, fixed, and total costs for the base situation and for 10%, 20%, and 30% reductions in fishing days. Though lower costs for the reduced fishing days do not result in a proportional percentage drop in costs, recent studies have shown that, with the use of pyramid traps, 30% fewer fishing days does not reduce the yield significantly.

Seasonal yield distributions reflect those reported by surveyed producers. Total season

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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 and is sold retail in Northeast 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 costs for detailed operations.

Table 1. A Summary of Projected Costs and Returns per Acre for Crawfish and Crawfish-Rice Production in Louisiana, 2008.

| Crop Description | Yield Per Acre | Direct Expenses | Fixed Expenses | Total Expenses |
|------------------------------|----------------|------------------------------|----------------|----------------|
| | Pounds | ----- Dollars per Acre ----- | | |
| Crawfish Enterprises: | | | | |
| Northeast Louisiana | | | | |
| Non-aerated, Owner b | 600.00 | 362.15 | 161.22 | 523.37 |
| Southwest Louisiana | | | | |
| Non-aerated, Owner b | 1200.00 | 587.01 | 169.55 | 756.56 |
| Crawfish-Rice, Owner a b | 700+5800 | 1099.50 | 205.62 | 1305.12 |

a Income for rice was calculated by multiplying the market price of \$12.80 by actual yield.

b Land costs are not included.

c Yield includes 700 lbs of crawfish and 58 cwt of rice.

Table 2. Breakeven Selling Prices for Crawfish for Selected Yield Levels, Louisiana, 2008.

| | 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: | | | | | | | | |
| Northeast Louisiana | | | | | | | | |
| Non-aerated, Owner | 523.37 | | 600 | 1.09 | 0.97 | 0.87 | 0.79 | 0.73 |
| Southwest Louisiana | | | | | | | | |
| Non-aerated, Owner | 756.56 | | 1200 | 0.79 | 0.70 | 0.63 | 0.57 | 0.53 |
| Crawfish-Rice, Owner b | 609.42 | | 700 | 1.09 | 0.97 | 0.87 | 0.79 | 0.73 |
| PRICES REQUIRED TO RECOVER VARIABLE COSTS | | | | | | | | |
| Crawfish Enterprises: | | | | | | | | |
| Northeast Louisiana | | | | | | | | |
| Non-aerated, Owner | | 362.15 | 600 | 0.75 | 0.67 | 0.60 | 0.55 | 0.50 |
| Southwest Louisiana | | | | | | | | |
| Non-aerated, Owner | | 587.01 | 1200 | 0.61 | 0.54 | 0.49 | 0.45 | 0.41 |
| Crawfish-Rice, Owner b | | 502.38 | 700 | 0.90 | 0.80 | 0.72 | 0.65 | 0.60 |

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, Northeast Louisiana, 2008.

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---------------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Crawfish (March) | lbs | | 60.0000 | | _____ |
| Crawfish (April) | lbs | | 210.0000 | | _____ |
| Crawfish (May) | lbs | | 240.0000 | | _____ |
| Crawfish (June) | lbs | | 90.0000 | | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | | _____ |
| DIRECT EXPENSES | | | | | |
| BAIT | | | | | |
| Manuf. crawfish bait | lbs | 0.20 | 330.0000 | 66.00 | _____ |
| FERTILIZER | | | | | |
| Nitrogen | lbs | 0.54 | 51.0000 | 27.54 | _____ |
| Phosphate | lbs | 0.44 | 51.0000 | 22.44 | _____ |
| Potash | lbs | 0.36 | 51.0000 | 18.36 | _____ |
| HIRED LABOR | | | | | |
| Irrigation labor | hour | 9.60 | 1.5000 | 14.40 | _____ |
| OTHER | | | | | |
| Hip boots | pair | 74.95 | 0.0083 | 0.62 | _____ |
| Sacks | each | 0.40 | 15.0260 | 6.01 | _____ |
| SEED | | | | | |
| Rice seed | lbs | 0.26 | 100.0000 | 26.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.60 | 0.5033 | 4.83 | _____ |
| Self-Propelled Eq. | hour | 9.60 | 7.2600 | 69.69 | _____ |
| IRRIGATION LABOR | | | | | |
| Crawf irrig north LA | hour | 9.60 | 0.2400 | 2.30 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.90 | 2.7909 | 8.09 | _____ |
| Crawf irrig north LA | gal | 2.90 | 16.9920 | 49.27 | _____ |
| GASOLINE | | | | | |
| Self-Propelled Eq. | gal | 2.80 | 1.9800 | 5.54 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | | 2.94 | 1.0000 | 2.94 | _____ |
| Tractors | | 0.90 | 1.0000 | 0.90 | _____ |
| Self-Propelled Eq. | | 1.58 | 1.0000 | 1.58 | _____ |
| Crawf irrig north LA | acin | 0.35 | 24.0000 | 8.54 | _____ |
| Crawf pond&eq north | acre | 11.58 | 1.0000 | 11.58 | _____ |
| INTEREST ON OP. CAP. | | 15.46 | 1.0000 | 15.46 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 362.15 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | | 6.86 | 1.0000 | 6.86 | _____ |
| Tractors | | 6.40 | 1.0000 | 6.40 | _____ |
| Self-Propelled Eq. | | 5.49 | 1.0000 | 5.49 | _____ |
| Crawf irrig north LA | | 16.68 | 1.0000 | 16.68 | _____ |
| Crawf pond&eq north | | 125.78 | 1.0000 | 125.78 | _____ |
| | | | | ----- | |
| TOTAL FIXED EXPENSES | | | | 161.22 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 523.37 | _____ |
| 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, Single Crop Crawfish, Owner-Operator, Southwest Louisiana, 2008.

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---------------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Crawfish (December) | lbs | | 60.0000 | | _____ |
| Crawfish (January) | lbs | | 120.0000 | | _____ |
| Crawfish (February) | lbs | | 180.0000 | | _____ |
| Crawfish (March) | lbs | | 240.0000 | | _____ |
| Crawfish (April) | lbs | | 360.0000 | | _____ |
| Crawfish (May) | lbs | | 240.0000 | | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM | | | | | |
| Airplane seed | cwt | 5.60 | 1.4000 | 7.84 | _____ |
| Airplane fert | cwt | 5.00 | 0.7500 | 3.75 | _____ |
| BAIT | | | | | |
| Crawfish bait (fish) | lbs | 0.35 | 225.0000 | 78.75 | _____ |
| Manuf. crawfish bait | lbs | 0.20 | 245.0000 | 49.00 | _____ |
| FERTILIZER | | | | | |
| Urea (45%) | lbs | 0.18 | 75.0000 | 13.50 | _____ |
| 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 | 29.1220 | 11.64 | _____ |
| SEED | | | | | |
| Rice seed | lbs | 0.26 | 140.0000 | 36.40 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.60 | 0.3491 | 3.35 | _____ |
| Self-Propelled Eq. | hour | 9.60 | 8.1580 | 78.31 | _____ |
| IRRIGATION LABOR | | | | | |
| Crawf irrig single | hour | 9.60 | 0.3960 | 3.80 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.90 | 1.7397 | 5.04 | _____ |
| Self-Propelled Eq. | gal | 2.90 | 1.0075 | 2.92 | _____ |
| Crawf irrig single | gal | 2.90 | 73.4910 | 213.12 | _____ |
| GASOLINE | | | | | |
| Self-Propelled Eq. | gal | 2.80 | 2.1150 | 5.92 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | | 1.42 | 1.0000 | 1.42 | _____ |
| Tractors | | 0.54 | 1.0000 | 0.54 | _____ |
| Self-Propelled Eq. | | 3.05 | 1.0000 | 3.05 | _____ |
| Crawf irrig single | acin | 0.52 | 33.0000 | 17.32 | _____ |
| Crawf pond&eq single | acre | 7.49 | 1.0000 | 7.49 | _____ |
| INTEREST ON OP. CAP. | | 25.40 | 1.0000 | 25.40 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 587.01 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | | 3.67 | 1.0000 | 3.67 | _____ |
| Tractors | | 3.87 | 1.0000 | 3.87 | _____ |
| Self-Propelled Eq. | | 9.34 | 1.0000 | 9.34 | _____ |
| Crawf irrig single | | 34.59 | 1.0000 | 34.59 | _____ |
| Crawf pond&eq single | | 118.06 | 1.0000 | 118.06 | _____ |
| | | | | ----- | |
| TOTAL FIXED EXPENSES | | | | 169.55 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 756.57 | _____ |
| 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
 Double Crop, in Field Rotation, Owner-Operator,
 Southwest, Louisiana, 2008.

| ITEM | UNIT | PRICE dollars | QUANTITY | AMOUNT dollars | YOUR FARM |
|---------------------------------|------|------------------|----------|-------------------|-----------|
| INCOME | | | | | |
| Rice | cwt | 12.80 | 58.0000 | 742.40 | _____ |
| Rice Checkoff | cwt | 0.08 | -58.0000 | -4.64 | _____ |
| Crawfish (January) | lbs | | 21.0000 | | _____ |
| Crawfish (February) | lbs | | 56.0000 | | _____ |
| Crawfish (March) | lbs | | 126.0000 | | _____ |
| Crawfish (April) | lbs | | 210.0000 | | _____ |
| Crawfish (May) | lbs | | 196.0000 | | _____ |
| Crawfish (June) | lbs | | 88.0000 | | _____ |
| TOTAL INCOME | | | | 737.76 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM | | | | | |
| Airplane fert | cwt | 5.00 | 3.8000 | 19.00 | _____ |
| Global pos. system | acre | 0.35 | 9.0000 | 3.15 | _____ |
| Airplane seed | cwt | 5.60 | 1.2000 | 6.72 | _____ |
| App by air | appl | 4.50 | 5.0000 | 22.50 | _____ |
| Drying rice | cwt | 0.90 | 65.0000 | 58.50 | _____ |
| Haul rice | cwt | 0.30 | 58.0000 | 17.40 | _____ |
| BAIT | | | | | |
| Crawfish bait (fish) | lbs | 0.35 | 84.3750 | 29.53 | _____ |
| Manuf. crawfish bait | lbs | 0.20 | 226.8750 | 45.37 | _____ |
| FERTILIZER | | | | | |
| Nitrogen | lbs | 0.54 | 130.0000 | 70.20 | _____ |
| Phosphate | lbs | 0.44 | 40.0000 | 17.60 | _____ |
| Potash | lbs | 0.36 | 60.0000 | 21.60 | _____ |
| FUNGICIDES | | | | | |
| Quadris | oz | 1.97 | 10.0000 | 19.70 | _____ |
| HERBICIDES | | | | | |
| Facet 75DF | lb | 50.75 | 0.5000 | 25.37 | _____ |
| Londax 60DF | oz | 11.25 | 1.0000 | 11.25 | _____ |
| 2,4-D Amine 4 | pt | 1.72 | 2.5000 | 4.30 | _____ |
| HIRED LABOR | | | | | |
| Other labor | hour | 9.60 | 0.0500 | 0.48 | _____ |
| Irrigation labor | hour | 9.60 | 2.0000 | 19.20 | _____ |
| INSECTICIDES | | | | | |
| Karate Z | oz | 3.10 | 4.0000 | 12.40 | _____ |
| OTHER | | | | | |
| Rice gate | each | 3.65 | 1.0000 | 3.65 | _____ |
| Seed crawfish | lbs | 1.00 | 60.0000 | 60.00 | _____ |
| Hip boots | pair | 74.95 | 1.0000 | 74.95 | _____ |
| Sacks | each | 0.40 | 31.2900 | 12.51 | _____ |
| SEED | | | | | |
| Rice seed | lbs | 0.26 | 120.0000 | 31.20 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.60 | 1.1192 | 10.74 | _____ |
| Self-Propelled Eq. | hour | 9.60 | 7.2415 | 69.51 | _____ |
| IRRIGATION LABOR | | | | | |
| Crawf irrig double | hour | 9.60 | 0.2580 | 2.47 | _____ |
| Irrigation system 1 | hour | 9.60 | 0.3000 | 2.88 | _____ |
| OWNER LABOR | | | | | |
| Self-Propelled Eq. | hour | 15.30 | 0.3303 | 5.05 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.90 | 12.4264 | 36.03 | _____ |
| Self-Propelled Eq. | gal | 2.90 | 3.5675 | 10.34 | _____ |
| Crawf irrig double | gal | 2.90 | 47.8805 | 138.85 | _____ |
| Irrigation system 1 | gal | 2.90 | 53.9580 | 156.47 | _____ |
| GASOLINE | | | | | |
| Self-Propelled Eq. | gal | 2.80 | 1.8675 | 5.22 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | | 2.99 | 1.0000 | 2.99 | _____ |
| Tractors | | 4.35 | 1.0000 | 4.35 | _____ |
| Self-Propelled Eq. | | 16.03 | 1.0000 | 16.03 | _____ |
| Crawf irrig double | acin | 0.29 | 21.5000 | 6.40 | _____ |
| Crawf pond&eq double | acre | 1.06 | 1.0000 | 1.06 | _____ |
| Irrigation system 1 | acre | 3.75 | 1.0000 | 3.75 | _____ |
| INTEREST ON OP. CAP. | | 40.68 | 1.0000 | 40.68 | _____ |
| TOTAL DIRECT EXPENSES | | | | 1099.50 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | | 7.27 | 1.0000 | 7.27 | _____ |
| Tractors | | 31.41 | 1.0000 | 31.41 | _____ |
| Self-Propelled Eq. | | 31.47 | 1.0000 | 31.47 | _____ |
| Crawf irrig double | | 34.59 | 1.0000 | 34.59 | _____ |
| Crawf pond&eq double | | 58.09 | 1.0000 | 58.09 | _____ |
| Irrigation system 1 | | 42.77 | 1.0000 | 42.77 | _____ |
| TOTAL FIXED EXPENSES | | | | 205.62 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 1305.12 | _____ |
| 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, Northeast Louisiana, 2008.

| 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 | | dollars | | | | |
| Crawf pond&eq north | acre | | | 1.00 | Jul | | | 11.58 | 125.78 | | | 1.0000 | | | 137.36 | |
| Disk | 24 ft | 150 | 0.081 | 2.00 | Jul | 4.10 | 3.12 | 1.22 | 3.05 | 0.163 | 1.57 | | | | 13.08 | |
| Fertilizer buggy | 30 ft | 105 | 0.060 | 1.00 | Jul | 1.04 | 0.72 | 0.37 | 0.58 | 0.060 | 0.57 | | | | 3.30 | |
| Nitrogen | lbs | | | | | | | | | | | 51.0000 | 0.54 | 27.54 | 27.54 | |
| Phosphate | lbs | | | | | | | | | | | 51.0000 | 0.44 | 22.44 | 22.44 | |
| Potash | lbs | | | | | | | | | | | 51.0000 | 0.36 | 18.36 | 18.36 | |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Jul | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 | |
| Grain drill | 20 ft | 150 | 0.094 | 1.00 | Jul | 2.36 | 1.79 | 1.14 | 2.59 | 0.094 | 0.90 | | | | 8.80 | |
| Rice seed | lbs | | | | | | | | | | | 100.0000 | 0.26 | 26.00 | 26.00 | |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Aug | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 | |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Sep | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 | |
| Crawf irrig north LA | acin | | | 1.00 | Oct | | | 14.45 | 16.68 | 0.060 | 0.57 | 6.0000 | | | 31.71 | |
| 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 | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 | |
| Crawf irrig north LA | acin | | | 1.00 | Nov | | | 14.45 | | 0.060 | 0.57 | 6.0000 | | | 15.03 | |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 | |
| Crawf irrig north LA | acin | | | 1.00 | Dec | | | 4.81 | | 0.020 | 0.19 | 2.0000 | | | 5.01 | |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 | |
| Crawf irrig north LA | acin | | | 1.00 | Jan | | | 2.40 | | 0.010 | 0.09 | 1.0000 | | | 2.50 | |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 | |
| Crawf irrig north LA | acin | | | 1.00 | Feb | | | 7.22 | | 0.030 | 0.28 | 3.0000 | | | 7.51 | |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 | |
| Crawfish combine | 12 hp | | 0.075 | 26.00 | Mar | | | 2.10 | 1.62 | 2.145 | 20.59 | | | | 24.32 | |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 97.5000 | 0.20 | 19.50 | 19.50 | |
| Sacks | each | | | | | | | | | | | 1.5080 | 0.40 | 0.60 | 0.60 | |
| Crawf irrig north LA | acin | | | 1.00 | Mar | | | 2.40 | | 0.010 | 0.09 | 1.0000 | | | 2.50 | |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 | |
| Crawfish combine | 12 hp | | 0.075 | 24.00 | Apr | | | 1.94 | 1.49 | 1.980 | 19.00 | | | | 22.45 | |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 90.0000 | 0.20 | 18.00 | 18.00 | |
| Sacks | each | | | | | | | | | | | 5.2560 | 0.40 | 2.10 | 2.10 | |
| Crawf irrig north LA | acin | | | 1.00 | Apr | | | 2.40 | | 0.010 | 0.09 | 1.0000 | | | 2.50 | |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 | |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Apr | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 | |
| Crawfish combine | 12 hp | | 0.075 | 26.00 | May | | | 2.10 | 1.62 | 2.145 | 20.59 | | | | 24.32 | |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 97.5000 | 0.20 | 19.50 | 19.50 | |
| Sacks | each | | | | | | | | | | | 6.0060 | 0.40 | 2.40 | 2.40 | |
| Crawf irrig north LA | acin | | | 1.00 | May | | | 4.81 | | 0.020 | 0.19 | 2.0000 | | | 5.01 | |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 | |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | May | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 | |
| Crawfish combine | 12 hp | | 0.075 | 12.00 | Jun | | | 0.97 | 0.74 | 0.990 | 9.50 | | | | 11.22 | |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 | |
| Sacks | each | | | | | | | | | | | 2.2560 | 0.40 | 0.90 | 0.90 | |
| Crawf irrig north LA | acin | | | 1.00 | Jun | | | 4.81 | | 0.020 | 0.19 | 2.0000 | | | 5.01 | |
| Irrigation labor | hour | | | | | | | | | | | 0.3000 | 9.60 | 2.88 | 2.88 | |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Jun | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 | |
| TOTALS | | | | | | | | 9.00 | 6.40 | 79.48 | 154.82 | 8.003 | | 76.83 | 181.37 | 507.91 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | | 15.46 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | | 523.37 |

Table 4.B Estimated Resource Use and Costs for Field Operations per Acre, Single Crop Crawfish, Owner-Operators, Southwest Louisiana, 2008.

| 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 | | dollars | | | |
| Crawf pond&eq single | acre | 150 | 0.081 | 1.00 | Jul | 4.10 | 3.12 | 7.49 | 118.06 | 0.163 | 1.57 | 1.0000 | | | 125.55 |
| Disk | 24 ft | | | 2.00 | Jul | | | 1.22 | 3.05 | | | | | | 13.08 |
| Crawf irrig single | acin | | | 1.00 | Jul | | | 10.47 | 34.59 | 0.018 | 0.17 | 1.5000 | | | 45.23 |
| 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 | | | | | | | | | | | 140.0000 | 0.26 | 36.40 | 36.40 |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Jul | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 |
| Airplane fert | cwt | | | 1.00 | Jul | | | | | | | 0.7500 | 5.00 | 3.75 | 3.75 |
| Urea (45%) | lbs | | | | | | | | | | | 75.0000 | 0.18 | 13.50 | 13.50 |
| Crawf irrig single | acin | | | 1.00 | Aug | | | 10.47 | | 0.018 | 0.17 | 1.5000 | | | 10.64 |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Aug | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 |
| Crawf irrig single | acin | | | 1.00 | Sep | | | 10.47 | | 0.018 | 0.17 | 1.5000 | | | 10.64 |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Sep | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 |
| Crawf irrig single | acin | | | 1.00 | Oct | | | 83.79 | | 0.144 | 1.38 | 12.0000 | | | 85.18 |
| 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 | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 |
| Crawf irrig single | acin | | | 1.00 | Nov | | | 27.93 | | 0.048 | 0.46 | 4.0000 | | | 28.39 |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 |
| Crawfish combine | 12 hp | | 0.075 | 10.00 | Dec | | | 0.81 | 0.62 | 0.825 | 7.92 | | | | 9.35 |
| Crawfish bait (fish) | lbs | | | | | | | | | | | 50.0000 | 0.35 | 17.50 | 17.50 |
| Sacks | each | | | | | | | | | | | 1.3300 | 0.40 | 0.53 | 0.53 |
| Crawf irrig single | acin | | | 1.00 | Dec | | | 17.45 | | 0.030 | 0.28 | 2.5000 | | | 17.74 |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 |
| Pickup truck | 1/2 ton | | 1.000 | 0.04 | Dec | | | 0.45 | 0.37 | 0.043 | 0.41 | | | | 1.24 |
| Crawfish combine | 12 hp | | 0.075 | 13.00 | Jan | | | 1.05 | 0.81 | 1.072 | 10.29 | | | | 12.16 |
| Crawfish bait (fish) | lbs | | | | | | | | | | | 65.0000 | 0.35 | 22.75 | 22.75 |
| Sacks | each | | | | | | | | | | | 3.0030 | 0.40 | 1.20 | 1.20 |
| Crawf irrig single | acin | | | 1.00 | Jan | | | 13.96 | | 0.024 | 0.23 | 2.0000 | | | 14.19 |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 |
| Pickup truck | 1/2 ton | | 1.000 | 0.05 | Jan | | | 0.59 | 0.48 | 0.056 | 0.53 | | | | 1.61 |
| Crawfish combine | 12 hp | | 0.075 | 12.00 | Feb | | | 0.97 | 0.74 | 0.990 | 9.50 | | | | 11.22 |
| Crawfish bait (fish) | lbs | | | | | | | | | | | 60.0000 | 0.35 | 21.00 | 21.00 |
| Sacks | each | | | | | | | | | | | 4.5000 | 0.40 | 1.80 | 1.80 |
| Crawf irrig single | acin | | | 1.00 | Feb | | | 13.96 | | 0.024 | 0.23 | 2.0000 | | | 14.19 |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 |
| Pickup truck | 1/2 ton | | 1.000 | 0.05 | Feb | | | 0.54 | 0.43 | 0.051 | 0.48 | | | | 1.47 |
| Crawfish combine | 12 hp | | 0.075 | 20.00 | Mar | | | 1.62 | 1.24 | 1.650 | 15.84 | | | | 18.71 |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 50.0000 | 0.20 | 10.00 | 10.00 |
| Crawfish bait (fish) | lbs | | | | | | | | | | | 50.0000 | 0.35 | 17.50 | 17.50 |
| Sacks | each | | | | | | | | | | | 5.3400 | 0.40 | 2.13 | 2.13 |
| Crawf irrig single | acin | | | 1.00 | Mar | | | 13.96 | | 0.024 | 0.23 | 2.0000 | | | 14.19 |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 |
| Pickup truck | 1/2 ton | | 1.000 | 0.08 | Mar | | | 0.91 | 0.74 | 0.086 | 0.82 | | | | 2.48 |
| Crawfish combine | 12 hp | | 0.075 | 21.00 | Apr | | | 1.70 | 1.31 | 1.732 | 16.63 | | | | 19.64 |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 105.0000 | 0.20 | 21.00 | 21.00 |
| Sacks | each | | | | | | | | | | | 9.0090 | 0.40 | 3.60 | 3.60 |
| Crawf irrig single | acin | | | 1.00 | Apr | | | 13.96 | | 0.024 | 0.23 | 2.0000 | | | 14.19 |
| Irrigation labor | hour | | | | | | | | | | | 0.1000 | 9.60 | 0.96 | 0.96 |
| Pickup truck | 1/2 ton | | 1.000 | 0.09 | Apr | | | 0.95 | 0.77 | 0.090 | 0.86 | | | | 2.59 |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Apr | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 |
| Crawfish combine | 12 hp | | 0.075 | 18.00 | May | | | 1.45 | 1.12 | 1.485 | 14.25 | | | | 16.83 |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 90.0000 | 0.20 | 18.00 | 18.00 |
| Sacks | each | | | | | | | | | | | 5.9400 | 0.40 | 2.37 | 2.37 |
| Crawf irrig single | acin | | | 1.00 | May | | | 13.96 | | 0.024 | 0.23 | 2.0000 | | | 14.19 |
| Irrigation labor | hour | | | | | | | | | | | 0.3000 | 9.60 | 2.88 | 2.88 |
| Pickup truck | 1/2 ton | | 1.000 | 0.07 | May | | | 0.81 | 0.66 | 0.077 | 0.73 | | | | 2.22 |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | May | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Jun | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 |
| TOTALS | | | | | | 5.59 | 3.87 | 251.27 | 165.67 | 8.903 | 85.46 | | | 219.27 | 731.16 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | 25.40 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | 756.57 |

Table 5.A Estimated resource use and costs for field operations, per Acre, Rice-Crawfish Double Crop, in Field Rotation, Owner-Operator, Southwest, Louisiana, 2008.

| 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----- | | | | | | | | | | | | | | | |
| Disk Harrow | 32' | 4WD 225 | 0.061 | 2.00 | Nov | 4.68 | 4.12 | 1.19 | 2.98 | 0.122 | 1.17 | | | | 14.17 |
| Levee plow | 8 Ft | 4WD 300 | 0.050 | 2.00 | Nov | 4.95 | 3.45 | 0.15 | 0.42 | 0.100 | 0.96 | | | | 9.94 |
| Blade-Scraper | 10' | MFWD 150 | 1.176 | 0.09 | Nov | 2.70 | 2.37 | 0.13 | 0.13 | 0.105 | 1.01 | | | | 6.36 |
| Ditcher rotary | 1.5 ft | MFWD 150 | 0.020 | 1.00 | Nov | 0.51 | 0.44 | 0.03 | 0.05 | 0.020 | 0.19 | | | | 1.23 |
| Field cultivator | 32 ft | 4WD 300 | 0.046 | 1.00 | Feb | 2.31 | 1.61 | 0.32 | 1.64 | 0.046 | 0.44 | | | | 6.34 |
| Airplane fert | cwt | | | 1.00 | Feb | | | | | | | 1.5000 | 5.00 | 7.50 | 7.50 |
| Nitrogen | lbs | | | | | | | | | | | 70.0000 | 0.54 | 37.80 | 37.80 |
| Global pos. system | acre | | | | | | | | | | | 1.0000 | 0.35 | 0.35 | 0.35 |
| Airplane fert | cwt | | | 1.00 | Feb | | | | | | | 1.0000 | 5.00 | 5.00 | 5.00 |
| Phosphate | lbs | | | | | | | | | | | 40.0000 | 0.44 | 17.60 | 17.60 |
| Potash | lbs | | | | | | | | | | | 60.0000 | 0.36 | 21.60 | 21.60 |
| Global pos. system | acre | | | | | | | | | | | 1.0000 | 0.35 | 0.35 | 0.35 |
| Ditcher rotary | 1.5 ft | MFWD 150 | 0.020 | 1.00 | Feb | 0.51 | 0.44 | 0.03 | 0.05 | 0.020 | 0.19 | | | | 1.23 |
| Blade-Scraper | 10' | MFWD 150 | 1.176 | 0.09 | Feb | 2.70 | 2.37 | 0.13 | 0.13 | 0.105 | 1.01 | | | | 6.36 |
| Rice gate | each | | | 1.00 | Feb | | | | | | | 1.0000 | 3.65 | 3.65 | 3.65 |
| Backhoe | | MFWD 150 | 0.500 | 0.05 | Feb | 0.63 | 0.56 | 0.13 | 0.20 | 0.025 | 0.24 | | | | 1.77 |
| Water level | 24 ft | 4WD 300 | 0.149 | 2.00 | Feb | 14.84 | 10.37 | 0.46 | 1.14 | 0.299 | 2.87 | | | | 29.70 |
| Irrigation system 1 | acre | | | 1.00 | Mar | | | | | | | 1.0000 | | | 205.87 |
| Airplane seed | cwt | | | 1.00 | Apr | | | | | | | 1.2000 | 5.60 | 6.72 | 6.72 |
| Rice seed | lbs | | | | | | | | | | | 120.0000 | 0.26 | 31.20 | 31.20 |
| Global pos. system | acre | | | | | | | | | | | 1.0000 | 0.35 | 0.35 | 0.35 |
| App by air | appl | | | 1.00 | Apr | | | | | | | 1.0000 | 4.50 | 4.50 | 4.50 |
| Karate Z | oz | | | | | | | | | | | 2.0000 | 3.10 | 6.20 | 6.20 |
| Global pos. system | acre | | | | | | | | | | | 1.0000 | 0.35 | 0.35 | 0.35 |
| App by air | appl | | | 1.00 | Apr | | | | | | | 1.0000 | 4.50 | 4.50 | 4.50 |
| Facet 75DF | lb | | | | | | | | | | | 0.5000 | 50.75 | 25.37 | 25.37 |
| Londax 60DF | oz | | | | | | | | | | | 1.0000 | 11.25 | 11.25 | 11.25 |
| Global pos. system | acre | | | | | | | | | | | 1.0000 | 0.35 | 0.35 | 0.35 |
| App by air | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 4.50 | 4.50 | 4.50 |
| 2,4-D Amine 4 | pt | | | | | | | | | | | 2.5000 | 1.72 | 4.30 | 4.30 |
| Global pos. system | acre | | | | | | | | | | | 1.0000 | 0.35 | 0.35 | 0.35 |
| Airplane fert | cwt | | | 1.00 | Jun | | | | | | | 1.3000 | 5.00 | 6.50 | 6.50 |
| Nitrogen | lbs | | | | | | | | | | | 60.0000 | 0.54 | 32.40 | 32.40 |
| Global pos. system | acre | | | | | | | | | | | 1.0000 | 0.35 | 0.35 | 0.35 |
| App by air | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 4.50 | 4.50 | 4.50 |
| Quadris | oz | | | | | | | | | | | 10.0000 | 1.97 | 19.70 | 19.70 |
| 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 | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 4.50 | 4.50 | 4.50 |
| Karate Z | oz | | | | | | | | | | | 2.0000 | 3.10 | 6.20 | 6.20 |
| Global pos. system | acre | | | | | | | | | | | 1.0000 | 0.35 | 0.35 | 0.35 |
| Combine Rice | 25 Ft | | 0.300 | 1.00 | Aug | | | 20.70 | 22.89 | 0.330 | 5.05 | | | | 48.65 |
| Grain cart | 500 bu | MFWD 150 | 0.057 | 0.20 | Aug | 0.29 | 0.25 | 0.04 | 0.09 | 0.011 | 0.10 | | | | 0.79 |
| Drying rice | cwt | | | 1.00 | Aug | | | | | | | | 0.90 | 58.50 | 58.50 |
| Haul rice | cwt | | | 1.00 | Aug | | | | | | | 58.0000 | 0.30 | 17.40 | 17.40 |
| Blade-Scraper | 10' | MFWD 150 | 1.176 | 0.20 | Aug | 6.01 | 5.27 | 0.30 | 0.30 | 0.235 | 2.25 | | | | 14.15 |
| Crawf irrig double | acin | | | 1.00 | Oct | | | 40.53 | 34.59 | 0.072 | 0.69 | 6.0000 | | | 75.81 |
| Hip boots | pair | | | | | | | | | | | 1.0000 | 74.95 | 74.95 | 74.95 |
| Irrigation labor | hour | | | | | | | | | | | 0.6000 | 9.60 | 5.76 | 5.76 |
| Rotary mower-levees | 6.7 ft | 50 | 0.500 | 0.05 | Oct | 0.21 | 0.10 | 0.02 | 0.08 | 0.026 | 0.25 | | | | 0.69 |
| Crawf irrig double | acin | | | 1.00 | Nov | | | 27.02 | | 0.048 | 0.46 | 4.0000 | | | 27.48 |
| Irrigation labor | hour | | | | | | | | | | | 0.2000 | 9.60 | 1.92 | 1.92 |
| Crawf irrig double | acin | | | 1.00 | Dec | | | 13.51 | | 0.024 | 0.23 | 2.0000 | | | 13.74 |
| Irrigation labor | hour | | | | | | | | | | | 0.2000 | 9.60 | 1.92 | 1.92 |
| Crawfish combine | 12 hp | | 0.075 | 5.00 | Jan | | | 0.40 | 0.31 | 0.412 | 3.96 | | | | 4.67 |
| Crawfish bait (fish) | lbs | | | | | | | | | | | 18.7500 | 0.35 | 6.56 | 6.56 |
| Sacks | each | | | | | | | | | | | 0.9000 | 0.40 | 0.36 | 0.36 |
| Crawf irrig double | acin | | | 1.00 | Jan | | | 10.13 | | 0.018 | 0.17 | 1.5000 | | | 10.30 |
| Irrigation labor | hour | | | | | | | | | | | 0.2000 | 9.60 | 1.92 | 1.92 |
| Pickup truck | 1/2 ton | | 1.000 | 0.05 | Jan | | | 0.59 | 0.48 | 0.056 | 0.53 | | | | 1.61 |
| Crawf pond&eq double | acre | | | 1.00 | Jan | | | 1.06 | 58.09 | | | 1.0000 | | | 59.15 |
| Crawfish combine | 12 hp | | 0.075 | 10.00 | Feb | | | 0.81 | 0.62 | 0.825 | 7.92 | | | | 9.35 |
| Crawfish bait (fish) | lbs | | | | | | | | | | | 37.5000 | 0.35 | 13.12 | 13.12 |
| Sacks | each | | | | | | | | | | | 3.7000 | 0.40 | 1.48 | 1.48 |
| Crawf irrig double | acin | | | 1.00 | Feb | | | 13.51 | | 0.024 | 0.23 | 2.0000 | | | 13.74 |
| Irrigation labor | hour | | | | | | | | | | | 0.2000 | 9.60 | 1.92 | 1.92 |
| Pickup truck | 1/2 ton | | 1.000 | 0.05 | Feb | | | 0.54 | 0.43 | 0.051 | 0.48 | | | | 1.47 |
| Crawfish combine | 12 hp | | 0.075 | 15.00 | Mar | | | 1.21 | 0.93 | 1.237 | 11.88 | | | | 14.03 |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 28.1250 | 0.20 | 5.62 | 5.62 |
| Crawfish bait (fish) | lbs | | | | | | | | | | | 28.1250 | 0.35 | 9.84 | 9.84 |
| Sacks | each | | | | | | | | | | | 3.9000 | 0.40 | 1.56 | 1.56 |
| Crawf irrig double | acin | | | 1.00 | Mar | | | 13.51 | | 0.024 | 0.23 | 2.0000 | | | 13.74 |
| Irrigation labor | hour | | | | | | | | | | | 0.4000 | 9.60 | 3.84 | 3.84 |
| Pickup truck | 1/2 ton | | 1.000 | 0.08 | Mar | | | 0.91 | 0.74 | 0.086 | 0.82 | | | | 2.48 |
| Crawfish combine | 12 hp | | 0.075 | 21.00 | Apr | | | 1.70 | 1.31 | 1.732 | 16.63 | | | | 19.64 |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 78.7500 | 0.20 | 15.75 | 15.75 |
| Sacks | each | | | | | | | | | | | 9.0300 | 0.40 | 3.61 | 3.61 |
| Crawf irrig double | acin | | | 1.00 | Apr | | | 13.51 | | 0.024 | 0.23 | 2.0000 | | | 13.74 |
| Irrigation labor | hour | | | | | | | | | | | 0.2000 | 9.60 | 1.92 | 1.92 |
| Pickup truck | 1/2 ton | | 1.000 | 0.06 | Apr | | | 0.68 | 0.55 | 0.064 | 0.61 | | | | 1.84 |
| Pickup truck | 1/2 ton | | 1.000 | 0.05 | Apr | | | 0.54 | 0.43 | 0.051 | 0.48 | | | | 1.47 |
| Crawfish combine | 12 hp | | 0.075 | 21.00 | May | | | 1.70 | 1.31 | 1.732 | 16.63 | | | | 19.64 |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 78.7500 | 0.20 | 15.75 | 15.75 |
| Sacks | each | | | | | | | | | | | 9.0300 | 0.40 | 3.61 | 3.61 |
| Crawf irrig double | acin | | | 1.00 | May | | | 13.51 | | 0.024 | 0.23 | 2.0000 | | | 13.74 |
| Pickup truck | 1/2 ton | | 1.000 | 0.08 | May | | | 0.91 | 0.74 | 0.086 | 0.82 | | | | 2.48 |
| Crawfish combine | 12 hp | | 0.075 | 11.00 | Jun | | | 0.89 | 0.68 | 0.907 | 8.71 | | | | 10.29 |
| Manuf. crawfish bait | lbs | | | | | | | | | | | 41.2500 | 0.20 | 8.25 | 8.25 |
| Sacks | each | | | | | | | | | | | 4.7300 | 0.40 | 1.89 | 1.89 |
| TOTALS | | | | | | 40.38 | 31.41 | 341.16 | 174.20 | 9.249 | 90.67 | | | 586.59 | 1264.44 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | 40.68 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | 1305.12 |

Appendix Table 1. A Summary of Projected Costs Based on Reduced Fishing Days for Crawfish and Crawfish-Rice Production, Louisiana, 2008.

| | Base | -10% | -20% | -30% |
|------------------------------------|---------|---------|---------|---------|
| Crawfish Enterprises: | | | | |
| Northeast Louisiana | | | | |
| Non-aerated, Owner fishing days | 88 | 79 | 71 | 61 |
| Direct Expenses | 362.15 | 346.66 | 332.86 | 315.67 |
| Fixed Expenses | 161.22 | 160.66 | 160.16 | 159.11 |
| Total Expenses | 523.37 | 507.32 | 493.02 | 475.20 |
| Southwest Louisiana | | | | |
| Non-aerated, Owner fishing days | 94 | 85 | 75 | 66 |
| Direct Expenses | 587.01 | 565.45 | 541.07 | 518.67 |
| Fixed Expenses | 169.55 | 168.99 | 168.36 | 167.80 |
| Total Expenses | 756.56 | 734.44 | 709.43 | 686.47 |
| Crawfish -Rice Owner | | | | |
| fishing days | 83 | 75 | 67 | 59 |
| Direct Expenses | 1108.71 | 1083.75 | 1067.61 | 1051.48 |
| Fixed Expenses | 213.42 | 205.23 | 204.73 | 204.23 |
| Total Expenses | 1322.13 | 1288.98 | 1272.34 | 1255.71 |

Appendix Table 2. Operating Inputs: Estimated Prices, Louisiana, 2008.

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|----------------------|-------|---------|----------------------|------|---------|
| | | dollars | | | dollars |
| BAIT | | | | | |
| Crawfish bait (fish) | lbs | 0.35 | Manuf. crawfish bait | lbs | 0.20 |
| CUSTOM | | | | | |
| Airplane fert | cwt | 5.00 | Airplane fert | acre | 5.00 |
| Airplane seed | acre | 5.00 | Airplane seed | cwt | 5.60 |
| Airplane stam | acre | 6.50 | App by air | appl | 4.50 |
| Drying rice | cwt | 0.90 | Fertilizer truck | acre | 5.00 |
| Global pos. system | acre | 0.35 | Haul rice | cwt | 0.30 |
| LARice Air Plant sw | cwt | 5.60 | LARice GPS Charge SW | acre | 0.35 |
| Storage rice | cwt | 0.10 | | | |
| FERTILIZER | | | | | |
| Anhydrous (82%) | lbs | 0.15 | Nitrogen | lbs | 0.54 |
| Nitrogen (32%) | lbs | 0.39 | Phosphate | lbs | 0.44 |
| Potash | lbs | 0.36 | Urea (45%) | lbs | 0.18 |
| FUNGICIDES | | | | | |
| Quadris | oz | 1.97 | Tilt | oz | 2.39 |
| HERBICIDES | | | | | |
| 2,4-D Amine 4 | pt | 1.72 | 2,4-D LV4 | pt | 1.93 |
| Facet 75DF | lb | 50.75 | Londax 60DF | oz | 11.25 |
| Stam 4E | qt | 5.12 | | | |
| HIRED LABOR | | | | | |
| Irrigation labor | hour | 9.60 | Other labor | hour | 9.60 |
| INSECTICIDES | | | | | |
| Karate Z | oz | 3.10 | Methyl parathion | pt | 4.26 |
| Sevin 80% S | lbs | 5.90 | | | |
| 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 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 | | | | | |
| Common bermuda seed | lbs | 4.50 | Rice seed | lbs | 0.26 |
| Ryegrass seed | lbs | 0.41 | | | |

Appendix Table 3. Powered Equipment: Estimated Useful Life, Annual Use, Purchase Price, Repair Cost, Fuel Consumption Rate, and Direct and Fixed Cost per Hour, Louisiana, 2008.

| 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 | 30,000 | 45 | 2.50 | 10.62 | | 8.62 | |
| Tractor (15-30hp) | 22 | | 8 | 600 | 8,200 | 15 | 1.13 | 3.42 | | 1.80 | |
| Tractor (40-59hp) | 50 | | 8 | 600 | 18,365 | 15 | 2.57 | 8.02 | | 4.05 | |
| Tractor (60-89hp) | 75 | | 8 | 600 | 28,341 | 15 | 3.86 | 12.07 | | 6.25 | |
| Tractor (90-115hp) | 105 | | 8 | 600 | 54,618 | 15 | 5.40 | 17.36 | | 12.05 | |
| Tractor (200-249hp) | 225 | | 8 | 600 | 147,066 | 15 | 11.58 | 38.17 | | 33.63 | |
| Tractor (106-130hp) | 118 | | 8 | 600 | 78,141 | 15 | 6.69 | 21.84 | | 17.24 | |
| Tractor (140-159hp) | 150 | | 8 | 600 | 86,566 | 15 | 7.72 | 25.09 | | 19.10 | |
| Tractor (140-159hp) | 150 MFWD | | 8 | 600 | 101,499 | 15 | 7.72 | 25.56 | | 22.40 | |
| Tractor (160-170hp) | 170 | | 8 | 600 | 92,716 | 15 | 8.75 | 28.27 | | 21.20 | |
| Tractor (180-199hp) | 190 | | 8 | 600 | 107,324 | 15 | 9.77 | 31.71 | | 24.54 | |
| Tractor (200-249)CB | 4WD 225 | | 8 | 600 | 147,066 | 15 | 11.58 | 38.18 | | 33.63 | |
| Tractor (250-349hp) | 300 | | 8 | 600 | 167,310 | 15 | 15.44 | 50.00 | | 38.26 | |
| Tractor GC(90-115hp) | 105 | | 8 | 600 | 54,618 | 15 | 2.59 | 9.21 | | 12.05 | |
| Tractor PTO(60-89hp) | 68 | | 8 | 600 | 28,341 | 15 | 3.86 | 12.07 | | 6.25 | |
| Tractor(140-159hp)CB | MFWD 150 | | 8 | 600 | 101,499 | 15 | 7.72 | 25.56 | | 22.40 | |
| Tractor(250-349hp) | 4WD 300 | | 8 | 600 | 151,284 | 15 | 15.44 | 49.50 | | 34.59 | |
| 2 man cf combine | 12 hp | 0.063 | 10 | 923 | 6,600 | 40 | 0.30 | 1.12 | 0.07 | 0.99 | 0.06 |
| Boat,Motor&Trailer | 14 ft | 0.075 | 8 | 12 | 5,775 | 69 | 4.00 | 48.71 | 3.65 | 70.55 | 5.29 |
| Combine Rice | 25 Ft | 0.300 | 10 | 300 | 165,000 | 80 | 8.60 | 68.94 | 20.70 | 76.23 | 22.89 |
| Crawfish combine | 12 hp | 0.075 | 10 | 1098 | 6,600 | 40 | 0.30 | 1.08 | 0.08 | 0.83 | 0.06 |
| Feeder truck | 1 ton | 0.016 | 10 | 200 | 25,325 | 33 | 2.66 | 11.64 | 0.19 | 17.55 | 0.29 |
| Pickup truck | 1/2 ton | 1.000 | 5 | 800 | 30,000 | 45 | 2.50 | 10.62 | 10.62 | 8.62 | 8.62 |
| Truck | 5 ton | 1.000 | 12 | 100 | 115,000 | 100 | 5.00 | 109.83 | 109.83 | 142.42 | 142.42 |

Appendix Table 4. Implements: Estimated Performance Rate, Useful Life, Annual Use, Purchase Price, Repair Cost, and Direct and Fixed Cost per Hour and per Acre, Louisiana, 2008.

| 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 | 8.31 | 4.15 |
| Blade-Scraper | 10' | 1.176 | 20 | 200 | 2,728 | 190 | 1.29 | 1.52 | 1.29 | 1.51 |
| Cultimulcher | 12 Ft | 0.160 | 15 | 120 | 3,375 | 88 | 1.65 | 0.26 | 3.07 | 0.49 |
| Disk | 24 ft | 0.081 | 10 | 180 | 26,978 | 50 | 7.49 | 0.61 | 18.65 | 1.52 |
| Disk Harrow | 32' | 0.061 | 10 | 180 | 35,157 | 50 | 9.76 | 0.59 | 24.31 | 1.49 |
| Ditcher rotary | 1.5 ft | 0.020 | 10 | 200 | 4,304 | 80 | 1.72 | 0.03 | 2.67 | 0.05 |
| Ditcher side | 1.5 | 0.009 | 10 | 200 | 4,304 | 80 | 1.72 | 0.01 | 2.67 | 0.02 |
| Dozer blade | 8 ft | 0.880 | 20 | 100 | 3,500 | 66 | 1.15 | 1.01 | 3.35 | 2.95 |
| Drag | 14 ft | 0.130 | 8 | 200 | 800 | 88 | 0.44 | 0.05 | 0.64 | 0.08 |
| Fertilizer buggy | 30 ft | 0.060 | 10 | 150 | 10,633 | 88 | 6.23 | 0.37 | 9.82 | 0.58 |
| 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 | 19,178 | 25 | 4.79 | 0.29 | 23.87 | 1.48 |
| Field cultivator | 32 ft | 0.046 | 10 | 100 | 28,281 | 25 | 7.07 | 0.32 | 35.20 | 1.64 |
| Grain cart | 500 bu | 0.057 | 12 | 200 | 14,819 | 65 | 4.01 | 0.22 | 8.37 | 0.47 |
| Grain drill | 12 ft | 0.157 | 8 | 150 | 14,144 | 45 | 5.30 | 0.83 | 12.03 | 1.89 |
| Grain drill | 20 ft | 0.094 | 8 | 150 | 32,350 | 45 | 12.13 | 1.14 | 27.52 | 2.59 |
| Harrow | 13Ft | 0.119 | 10 | 200 | 3,690 | 70 | 1.29 | 0.15 | 2.29 | 0.27 |
| Levee plow | 8 Ft | 0.050 | 10 | 150 | 4,600 | 50 | 1.53 | 0.07 | 4.25 | 0.21 |
| Rotary mower | 13.3 ft | 0.130 | 10 | 150 | 8,336 | 44 | 2.44 | 0.31 | 7.70 | 1.00 |
| Rotary mower-levees | 6.7 ft | 0.500 | 10 | 150 | 3,661 | 44 | 1.07 | 0.53 | 3.38 | 1.69 |
| Side Mount Mower | 6 ft | 0.500 | 6 | 50 | 4,400 | 20 | 2.93 | 1.46 | 17.53 | 8.76 |
| Spike harrow | 18 ft | 0.080 | 10 | 200 | 4,590 | 70 | 1.60 | 0.12 | 2.85 | 0.22 |
| Tractor blade | 6 ft | 1.000 | 20 | 200 | 1,168 | 190 | 0.55 | 0.55 | 0.55 | 0.55 |
| Water level | 24 ft | 0.149 | 15 | 100 | 3,500 | 66 | 1.54 | 0.23 | 3.83 | 0.57 |

Appendix Table 5. 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, 2008.

| 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 | 0.298 | 2.227 | 6.756 | | 34.59 |
| Crawf irrig north LA | acin | 0.356 | 0.708 | 2.409 | | 16.68 |
| Crawf irrig single | acin | 0.525 | 2.227 | 6.983 | | 34.59 |
| Crawf pond&eq relay | acre | 1.071 | 0.000 | 1.071 | | 116.05 |
| Crawf pond&eq double | acre | 1.060 | 0.000 | 1.060 | | 58.09 |
| Crawf pond&eq north | acre | 11.587 | 0.000 | 11.587 | | 125.78 |
| Crawf pond&eq recir | acre | 8.107 | 0.000 | 8.107 | | 124.19 |
| Crawf pond&eq single | acre | 7.498 | 0.000 | 7.498 | | 118.06 |
| Irrigation system 1 | acre | 3.750 | 53.958 | 160.228 | | 42.77 |

Appendix Table 6. 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 north LA | Irrigation system for crawfish production in North 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 north | Pond and equipment for crawfish production in North 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 |