2008 Sweet Potato Research Verification Program
Economic Analysis Report

North Louisiana Field

The Louisiana Sweet Potato Research Verification Program (LSPRVP) is a multi-disciplinary program aimed at implementing and analyzing research recommendations in real world situations. Participating producers work closely with the LSU AgCenter Sweet Potato specialists in making production decisions throughout the growing and harvesting period. To determine if these production decisions result in greater profitability for the producer, cost information was collected on every activity conducted in each of the participating fields. The type of information collected includes:

- Time required to complete activity
- Number of acres covered in activity
- Tractor size and implement width
- Input rates and costs, and
- Custom application charges.

Using the information collected, estimates of costs per acre for conducting each activity were developed. Costs for each activity were separated into four broad categories: direct equipment costs, fixed equipment costs, input costs, and labor costs. Direct and fixed costs of tractors, implements, and other machinery were estimated using assumptions on performance rates, fuel use, repair and maintenance, interest expense, and depreciation from LSU AgCenter Enterprise Budgets. Irrigation costs were based data provided by the LSU AgCenter Enterprise Budgets along with producer information regarding fuel use and pumping rates per hour. Where possible, input costs were estimated using the data provided by the producer on the amount of the input used and the cost per unit of the input. In other cases, input costs estimates were based on producer's use rates and input price information from the LSU AgCenter Enterprise Budgets. Labor costs associated with operating equipment were based on the time required to complete the activity which is either supplied by the producer or determined using performance rates from the LSU Enterprise Budgets. Other labor costs were estimated based on information provided by the producer on the hourly wage rate and the time required to complete the activity.

While costs were estimated from planting of seed potatoes to harvesting, the costs associated with packaging lines and storage were not conducted as part of the verification program. Estimates provided for packaging lines are set at those estimated in LSU AgCenter Enterprise Budgets.

The remainder of this report provides the estimates developed regarding sweet potato production in 2008. The information provided summarizes costs estimates for both plant bed and production acres. In addition, the report provides an estimated cost and return associated with the production acres. Finally, a detailed cost analysis is provided for both the plant bed and production acres with costs estimated for each separate activity conducted.

Much higher input costs and much lower production levels highlighted the 2008 production and marketing year. Total direct costs were estimated at $2,316.13 and $2,438.29 per acre for the two North Louisiana production fields. When estimated packaging line costs were added, the total costs for producing sweet potatoes were $2,884.19 and $3,006.35 per acre for the two fields. Much higher fuel and fertilizer prices during 2008 were the main drivers in the high production costs in 2008.

Coupled with the high production costs were the difficult production environment created by two hurricanes in 2008. Total production was estimated at 374 and 366 bushels per acre for each field. The percentage of No.1's and Jumbo's were significantly lower in 2008 as difficulties from excessively wet growing conditions greatly impacted quality. Estimated breakeven prices per box to cover both direct and fixed production costs ranged from slightly higher than $14.00 per box to as high as $20.00 per box depending on packout percentage. When packaging line costs are added, these breakeven prices climbed to as $25.00 per box.

2008 Sweet Potato Research Verification Program
General Program Information and Assumptions
North Louisiana Fields

		Plant Bed	Field #1	Field # 2
Number of Acres In Verification Field	:	2.9	8.4	7.3
Variety Planted	:		Evangeline	BX
Planting Date	:		July 6, 2008	July 7, 2008
Harvest Date	:		September 2008	September 2008
Yield (Bushels Per Acre)	:			
No. 1's	:		154	193
Jumbos			0	0
Canners	:		220	173
Total	:		374	366
Yield Percentages (% of Total Yield)	:			
No. 1's	:		41.18%	52.73%
Jumbos	:		0.00%	0.00%
Canners	:		58.82%	47.27%
Economic Assumptions				
Diesel Cost Per Gallon[A]	:		$3.75	
Electricity Cost Per Kwh[B]			$0.1154	
Labor Wage Plus Fringe Benefits Per Hour[C]	:			
Regular Labor	:		$8.94	
H2A Labor	:		$8.41	
Interest on Operating Loans [D]	:		8.00%	
Interest on Intermediate Loans [D]	:		7.50%	

[A] The estimate for diesel fuel was determined using the Department of Energy estimates for retail prices of on-highway diesel prices from March 2008 to November 2008 for the Gulf Coast. These prices were adjusted for federal and state taxes to approximate farm diesel costs.

[B] The estimate for electricity was determined using the Department of Energy estimates for prices for residential and commercial users from March 2008 to November 2008. .

[C] Estimates for labor costs were provided by cooperating producer. In the case of regular labor, the rate per hour provided by the producer was increased by 27.65% to account for benefits and additional payroll expenses.

[D] Estimates for interest rates for both operating capital and intermediate debt (for example, equipment loans) was set at the levels assumed in the LSU AgCenter Enterprise Budgets.

2008 Sweet Potato Research Verification Program
Summary of Estimated Costs
North Louisiana Fields

Expense Item	Plant Bed Production[A]	Production Field 1	Production Field 2
	---------------------- Costs Per Acre ----------------------		
Seed	$3,390.12	$175.95	$175.95
Fertilizer	$50.63	$269.47	$269.47
Insecticide	$7.79	$105.53	$105.53
Herbicide	$0.00	$68.78	$68.78
Fungicide	$79.14	$0.00	$0.00
Fuel and Repair & Maintenance	$184.60	$320.43	$342.47
Labor	$334.03	$591.87	$677.33
Other Inputs	$23.39	$400.90	$397.35
Custom Application/Service	$0.00	$94.00	$94.00
Interest Expense on Operating Loan[B]	$183.28	$31.77	$33.12
Total Direct Cost	$4,252.98	$2,058.70	$2,164.00
Total Fixed Cost[C]	$145.84	$257.43	$274.30
Total Specified Costs	$4,398.82	$2,316.13	$2,438.29
Estimated Packing Line Costs[D]	$0.00	$568.06	$568.06
Total Production and Packing Line Costs	$4,398.82	$2,884.19	$3,006.35

[A] Total direct and fixed costs associated with plant bed production are incorporated into the production field cost estimates as the estimated seed expense for both fields. Total costs associated with plant bed production are converted to production field estimates based on the assumed number of production acres that were planted with the plant beds.

[B] Interest expense on an operating loan is calculated using a 8 percent interest rate. Interest was calculated in the same manner as is calculated in the 2007 LSU Enterprise Budgets.

[C] Fixed costs are interest expense and depreciation on tractors and implements. An annual interest rate of 7.5 percent was assumed. Fixed costs were calculated in the same manner as is calculated in the 2007 LSU Enterprise Budgets.

[D] Packing line costs were set at levels assumed in LSU AgCenter Enterprise Budgets. Since 2008 Sweet Potato Enterprise Budgets were not developed by the LSU AgCenter, the packing line cost used the average of packing line costs from the 2007 and 2009 LSU AgCenter Sweet Potato Enterprise Budgets.

2008 Sweet Potato Research Verification Program
Estimated Cost Per Box Sold (No. 1's and Jumbos)
North Louisiana Fields

	------------- Field One -------------			------------ Field Two ------------		
Price To Cover:	70% Packout	65% Packout	60% Packout	70% Packout	65% Packout	60% Packout
Direct Costs	$15.28	$16.45	$17.82	$12.81	$13.80	$14.95
Direct + Fixed Costs	$17.19	$18.51	$20.05	$14.44	$15.55	$16.84
Direct+Fixed+Packing Line Costs	$21.40	$23.05	$24.97	$17.80	$19.17	$20.77

2008 Sweet Potato Research Verification Program
Estimated Costs and Returns
North Louisiana Fields

	Production Field 1	Production Field 2	Production Field 1	Production Field 2
	------------ Per Acre ------------		---- Total For Entire Field ----	
Costs				
Direct Costs	$2,058.70	$2,164.00	$17,293.08	$15,797.17
Direct + Fixed Costs	$2,316.13	$2,438.29	$19,455.45	$17,799.54
Direct+Fixed+Packing Line Costs	$2,884.19	$3,006.35	$24,227.16	$21,946.38
Revenue - @ 70% Packout				
No 1's @ $14.50/box	$1,953.88	$2,448.69	$16,412.55	$17,875.42
Jumbos @ $9.00/box	$0.00	$0.00	$0.00	$0.00
Canners @ $6.50/hundredweight	$715.00	$562.25	$6,006.00	$4,104.43
Total	$2,668.88	$3,010.94	$22,418.55	$21,979.84
Revenue - @ 65% Packout				
No 1's @ $14.50/box	$1,814.31	$2,273.78	$15,240.23	$16,598.60
Jumbos @ $9.00/box	$0.00	$0.00	$0.00	$0.00
Canners @ $6.50/hundredweight	$715.00	$562.25	$6,006.00	$4,104.43
Total	$2,529.31	$2,836.03	$21,246.23	$20,703.03
Revenue - @ 60% Packout				
No 1's @ $14.50/box	$1,674.75	$2,098.88	$14,067.90	$15,321.79
Jumbos @ $9.00/box	$0.00	$0.00	$0.00	$0.00
Canners @ $6.50/hundredweight	$715.00	$562.25	$6,006.00	$4,104.43
Total	$2,389.75	$2,661.13	$20,073.90	$19,426.21
Returns Above Costs - @ 70% Packout				
Direct Costs	$610.18	$846.94	$5,125.47	$6,182.67
Direct + Fixed Costs	$352.75	$572.64	$2,963.10	$4,180.30
Direct+Fixed+Packing Line Costs	-$215.31	$4.58	-$1,808.61	$33.47
Returns Above Costs - @ 65% Packout				
Direct Costs	$470.61	$672.04	$3,953.15	$4,905.86
Direct + Fixed Costs	$213.19	$397.74	$1,790.77	$2,903.49
Direct+Fixed+Packing Line Costs	-$354.87	-$170.32	-$2,980.93	-$1,243.35
Returns Above Costs - @ 60% Packout				
Direct Costs	$331.05	$497.13	$2,780.82	$3,629.04
Direct + Fixed Costs	$73.62	$222.83	$618.45	$1,626.67
Direct+Fixed+Packing Line Costs	-$494.44	-$345.23	-$4,153.26	-$2,520.16

2008 Sweet Potato Research Verification Program
Estimated Production Costs
Plant Bed Production - North Louisiana Fields

Expense Item	Cost Per Acre	Percent of Total Direct Costs
Seed	$3,390.12	79.71%
Fertilizer	$50.63	1.19%
Insecticide	$7.79	0.18%
Herbicide	$0.00	0.00%
Fungicide	$79.14	1.86%
Fuel & Repair and Maintenance	$184.60	4.34%
Labor	$334.03	7.85%
Other Inputs	$23.39	0.55%
Custom Application/Service	$0.00	0.00%
Interest Expense	$183.28	4.31%
Total Direct Cost	$4,252.98	
Total Fixed Cost	$145.84	
Total Specified Costs	$4,398.82	

2008 Sweet Potato Research Verification Program
Breakdown of Direct Cost Category & Field Activity
Plant Bed Production - North Louisiana Fields

Field Activity	Fuel and Repair/Maintenance	Labor	Inputs	Custom Service	Interest Expense	Total Costs
	Costs Per Acre					
Non-Harvest Activities	$156.26	$328.95	$3,551.07	$0.00	$181.72	$4,218.00
Irrigation Activities	$28.34	$5.08	$0.00	$0.00	$1.56	$34.98
Harvest Activities	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Totals	$184.60	$334.03	$3,551.07	$0.00	$183.28	$4,252.98

2008 Sweet Potato Research Verification Program
Summary of Pesticide Applications and Costs
Plant Bed Production - North Louisiana Fields

Pesticide	Number of Trips	Number of Pesticides Applied	Total Application Costs	Cost Per Trip
	Per Acre			
Insecticide	2	2	$10.89	$5.44
Herbicide	0	0	$0.00	$0.00
Fungicide	1	2	$95.90	$95.90

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Plant Bed Production - North Louisiana Fields

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Chisel Plow Field - March 2008							
Tractor - JD 4450 - 150 HP	2.9	0.123	$2.39	$3.91		$0.00	$6.29
Chisel Plow - 14 Ft	2.9	0.123	$0.63	$0.30		$0.00	$0.94
Labor	2.9	0.123	$0.00	$0.00		$1.21	$1.21
Totals For Activities			$3.02	$4.21	$0.00	$1.21	$8.44
Chisel Plow Field - March 2008							
Tractor - JD 4450 - 150 HP	2.9	0.123	$2.39	$3.91		$0.00	$6.29
Chisel Plow - 14 Ft	2.9	0.123	$0.63	$0.30		$0.00	$0.94
Labor	2.9	0.123	$0.00	$0.00		$1.21	$1.21
Totals For Activities			$3.02	$4.21	$0.00	$1.21	$8.44
Disked Filed - March 2008							
Tractor - JD -220 HP	2.9	0.076	$2.34	$3.61		$0.00	$5.94
Disk - 25 Ft	2.9	0.076	$2.02	$0.81		$0.00	$2.83
Labor	2.9	0.076	$0.00	$0.00		$0.74	$0.74
Totals For Activities			$4.36	$4.42	$0.00	$0.74	$9.52
Ran Do -All - March 2008							
Tractor - 1066 Int. - 100 HP	2.9	0.097	$1.25	$2.15		$0.00	$3.39
Do - All - 6 Row - 42" Rows	2.9	0.097	$1.01	$0.20		$0.00	$1.21
Labor	2.9	0.097	$0.00	$0.00		$0.96	$0.96
Totals For Activities			$2.25	$2.35	$0.00	$0.96	$5.56
Ran Do -All - March 2008							
Tractor - 1066 Int. - 100 HP	2.9	0.097	$1.25	$2.15		$0.00	$3.39
Do - All - 6 Row - 42" Rows	2.9	0.097	$1.01	$0.20		$0.00	$1.21
Labor	2.9	0.097	$0.00	$0.00		$0.96	$0.96
Totals For Activities			$2.25	$2.35	$0.00	$0.96	$5.56
Applied Fertilizer - March 2008							
Tractor - 100 HP	2.9	0.110	$1.41	$2.43		$0.00	$3.84
No Pull Spreader	2.9	0.110	$0.16	$0.11		$0.00	$0.27
Labor	2.9	0.110	$0.00	$0.00		$1.08	$1.08
Fertilizer (13-13-13)			$0.00	$0.00		$0.00	$0.00
200 lbs/acre @ $480/ton	2.9		$0.00	$0.00	$48.00	$0.00	$48.00
Totals For Activities			$1.57	$2.54	$48.00	$1.08	$53.19

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Plant Bed Production - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Water/Fungicide - March 2008							
Tractor -1066 Int. - 100 HP	2.9	0.345	$4.42	$7.61		$0.00	$12.03
Water Trailer	2.9	0.345	$1.10	$0.23		$0.00	$1.33
Labor	2.9	0.345	$0.00	$0.00		$3.39	$3.39
Fungicide (Botran)			$0.00	$0.00		$0.00	$0.00
4 lbs/acre @ $34.80/4lb bag	2.9		$0.00	$0.00	$34.80	$0.00	$34.80
Fungicide (Mertect)			$0.00	$0.00		$0.00	$0.00
22 oz/acre @ $258/gallon	2.9		$0.00	$0.00	$44.34	$0.00	$44.34
Totals For Activities			$5.51	$7.85	$79.14	$3.39	$95.90
Water - March 2008							
Tractor -1066 Int. - 100 HP	2.9	0.345	$4.42	$7.61		$0.00	$12.03
Water Trailer	2.9	0.345	$1.10	$0.23		$0.00	$1.33
Labor	2.9	0.345	$0.00	$0.00		$3.39	$3.39
Totals For Activities			$5.51	$7.85	$0.00	$3.39	$16.75
Seed Potatoes - March 2008							
Tractor (JD 4960 - 220 HP)	2.9	0.330	$10.19	$15.72		$0.00	$25.91
Bed Buggy	2.9	0.330	$4.80	$1.54		$0.00	$6.34
Labor	2.9	0.330	$0.00	$0.00		$3.24	$3.24
Seed (Seed Potatoes)			$0.00	$0.00		$0.00	$0.00
1,824 Bu/ 2.9 Ac @ $5.39/bu	2.9		$0.00	$0.00	$3,390.12	$0.00	$3,390.12
Totals For Activities			$14.99	$17.27	$3,390.12	$3.24	$3,425.62
Rolled Beds - March 2008							
Tractor - 1466 Int. - 100 HP	2.9	0.052	$0.66	$1.14		$0.00	$1.81
Roller	2.9	0.052	$0.03	$0.01		$0.00	$0.04
Labor	2.9	0.052	$0.00	$0.00		$0.51	$0.51
Totals For Activities			$0.69	$1.15	$0.00	$0.51	$2.36
Covered Beds - March 2008							
Tractor - Voucher 8950 - 110 HP	2.9	0.330	$4.23	$7.29		$0.00	$11.51
Bed Covering Machine	2.9	0.330	$5.17	$1.66		$0.00	$6.83
Labor	2.9	0.330	$0.00	$0.00		$3.24	$3.24
Totals For Activities			$9.39	$8.95	$0.00	$3.24	$21.58

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Plant Bed Production - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Laid Plastic - March 2008							
Tractor - JD 7810 - 150 HP	2.9	1.500	$34.75	$48.35		$0.00	$83.10
Plastic Machine Mulcher	2.9	1.500	$5.16	$2.33		$0.00	$7.49
Labor	2.9	1.500	$0.00	$0.00		$14.74	$14.74
Input - Plastic			$0.00	$0.00		$0.00	$0.00
5.5 Rolls/2.9 acres @ $5/roll	2.9		$0.00	$0.00	$9.48	$0.00	$9.48
Totals For Activities			$39.91	$50.68	$9.48	$14.74	$114.82
Chisel Plow-Twice - March 2008							
Tractor - JD 4450 - 150 HP	2.9	0.123	$4.77	$7.81		$0.00	$12.59
Chisel Plow - 14 Ft	2.9	0.123	$1.27	$0.61		$0.00	$1.87
Labor	2.9	0.123	$0.00	$0.00		$2.42	$2.42
Totals For Activities			$6.04	$8.42	$0.00	$2.42	$16.88
Spike Roller - Twice - March 2008							
Tractor - JD 7810 - 150 HP	2.9	0.124	$4.82	$7.89		$0.00	$12.71
Spike Roller - 4 Row - 42"	2.9	0.124	$0.38	$0.23		$0.00	$0.61
Labor	2.9	0.124	$0.00	$0.00		$2.45	$2.45
Totals For Activities			$5.20	$8.12	$0.00	$2.45	$15.76
Irrigated-Reel Gun - March 2008							
Pumped 8 Hours	2.9	1.000	$25.31	$0.00		$0.00	$25.31
Apply 1 Acre Inch	2.9	1.000	$0.00	$9.45		$0.00	$9.45
Labor	2.9	0.172	$0.00	$0.00		$1.69	$1.69
Totals For Activities			$25.31	$9.45	$0.00	$1.69	$36.45
Irrigated-Reel Gun - March 2008							
Pumped 8 Hours	2.9	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	2.9	1.000	$0.00	$9.45		$0.00	$9.45
Labor	2.9	0.172	$0.00	$0.00		$1.69	$1.69
Totals For Activities			$0.00	$9.45	$0.00	$1.69	$11.14
Irrigated-Reel Gun - March 2008							
Pumped 8 Hours	2.9	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	2.9	1.000	$0.00	$9.45		$0.00	$9.45
Labor	2.9	0.172	$0.00	$0.00		$1.69	$1.69
Totals For Activities			$0.00	$9.45	$0.00	$1.69	$11.14

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Plant Bed Production - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Applied Insecticide - April 2008							
Tractor - Voucher 8950 -110 HP	2.9	0.028	$0.36	$0.62		$0.00	$0.98
Spray Boom - 60 ft	2.9	0.028	$0.18	$0.11		$0.00	$0.29
Labor	2.9	0.028	$0.00	$0.00		$0.28	$0.28
Insecticide - Brigade			$0.00	$0.00		$0.00	$0.00
3.2 oz/acre @ $19.04/pt	2.9		$0.00	$0.00	$3.81	$0.00	$3.81
Totals For Activities			$0.54	$0.73	$3.81	$0.28	$5.36
Applied Insecticide - April 2008							
Tractor - Voucher 8950 -110 HP	2.9	0.028	$0.36	$0.62		$0.00	$0.98
Spray Boom - 60 ft	2.9	0.028	$0.18	$0.11		$0.00	$0.29
Labor	2.9	0.028	$0.00	$0.00		$0.28	$0.28
Insecticide - Brigade			$0.00	$0.00		$0.00	$0.00
3.2 oz/acre @ $19.89/lb	2.9		$0.00	$0.00	$3.98	$0.00	$3.98
Totals For Activities			$0.54	$0.73	$3.98	$0.28	$5.53
Applied Foliar Nutrient - May 2008							
Tractor - Voucher 8950 -110 HP	2.9	0.028	$0.36	$0.62		$0.00	$0.98
Spray Boom - 60 ft	2.9	0.028	$0.18	$0.11		$0.00	$0.29
Labor	2.9	0.028	$0.00	$0.00		$0.28	$0.28
Nutrient - Foliar Zinc			$0.00	$0.00		$0.00	$0.00
1 qrt/acre @ $10.50 per gallon	2.9		$0.00	$0.00	$2.63	$0.00	$2.63
Totals For Activities			$0.54	$0.73	$2.63	$0.28	$4.18
Cut Slips - June 2008							
Tractor - 110 HP	2.9	1.034	$13.25	$22.84		$0.00	$36.09
Mechanical Cutter	2.9	1.034	$1.93	$0.87		$0.00	$2.80
Labor	2.9	1.034	$0.00	$0.00		$10.17	$10.17
Labor (32 H2A @ 8.41/Hr)	2.9		$0.00	$0.00	$278.40	$0.00	$278.40
Boxes for Slips			$0.00	$0.00		$0.00	$0.00
32 Boxes @ $1.26 per box	2.9		$0.00	$0.00	$13.90	$0.00	$13.90
Totals For Activities			$15.18	$23.71	$292.30	$10.17	$341.36

2008 Sweet Potato Research Verification Program
Estimated Production Costs
Production Field #1 - North Louisiana Fields

Expense Item	Cost Per Acre	Percent of Total Direct Costs
Seed	$175.95	8.55%
Fertilizer	$269.47	13.09%
Insecticide	$105.53	5.13%
Herbicide	$68.78	3.34%
Fungicide	$0.00	0.00%
Fuel & Repair and Maintenance	$320.43	15.56%
Labor	$591.87	28.75%
Other Inputs	$400.90	19.47%
Custom Application/Service	$94.00	4.57%
Interest Expense	$31.77	1.54%
Total Direct Cost	$2,058.70	
Total Fixed Cost	$257.43	
Total Specified Costs	$2,316.13	

2008 Sweet Potato Research Verification Program
Breakdown of Direct Cost Category & Field Activity
Production Field #1 - North Louisiana Fields

	Fuel and			Custom	Interest	Total
	Repair/Maintenance	Labor	Inputs	Service	Expense	Costs
Field Activity	----------	----------	Costs Per Acre	----------	----------	----------
Non-Harvest Activities	$127.67	$299.77	$802.23	$94.00	$26.11	$1,349.77
Irrigation Activities	$66.24	$0.85	$21.97	$0.00	$1.56	$90.63
Harvest Activities	$126.52	$291.25	$196.43	$0.00	$4.09	$618.30
Totals	$320.43	$591.87	$1,020.63	$94.00	$31.77	$2,058.70

2008 Sweet Potato Research Verification Program
Summary of Pesticide Applications and Costs
Production Field #1 - North Louisiana Fields

	Number of	Number of	Total Application	Cost
	Trips	Pesticides Applied	Costs	Per Trip
Pesticide	----------	Per Acre	----------	----------
Insecticide	13	13	$159.09	$12.24
Herbicide	3	4	$83.28	$27.76
Fungicide	0	0	$0.00	$0.00

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #1 - North Louisiana Fields

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Apply Fertilizer - May 2008							
Tractor - 100 HP	8.4	0.110	$1.41	$2.43		$0.00	$3.84
Spreader - No Pull	8.4	0.110	$0.16	$0.11		$0.00	$0.27
Labor	8.4	0.110	$0.00	$0.00		$1.08	$1.08
Fertilizer/Nutrients			$0.00	$0.00		$0.00	$0.00
85 lbs P @ $1.04/lb			$0.00	$0.00	$88.40	$0.00	$88.40
165 lbs K @ $0.51/lb			$0.00	$0.00	$84.15	$0.00	$84.15
1 lb Boron @ $0.42/lb			$0.00	$0.00	$0.42	$0.00	$0.42
10 lbs Sulfur @ $0.35/lb			$0.00	$0.00	$3.50	$0.00	$3.50
Totals For Activities			$1.57	$2.54	$176.47	$1.08	$181.66
Disked Field-Twice - June 2008							
Tractor - JD -220 HP	8.4	0.076	$4.67	$7.21		$0.00	$11.88
Disk - 25 Ft	8.4	0.076	$4.04	$1.62		$0.00	$5.67
Labor	8.4	0.076	$0.00	$0.00		$1.49	$1.49
Totals For Activities			$8.72	$8.84	$0.00	$1.49	$19.04
Chisel Plow - June 2008							
Tractor - JD -220 HP	8.4	0.123	$3.80	$5.87		$0.00	$9.68
Chisel Plow - 14 Ft	8.4	0.123	$0.63	$0.30		$0.00	$0.94
Labor	8.4	0.123	$0.00	$0.00		$1.21	$1.21
Totals For Activities			$4.44	$6.18	$0.00	$1.21	$11.83
Chisel Plow - June 2008							
Tractor - JD 4450 - 150 HP	8.4	0.123	$2.39	$3.91		$0.00	$6.29
Chisel Plow - 14 Ft	8.4	0.123	$0.63	$0.30		$0.00	$0.94
Labor	8.4	0.123	$0.00	$0.00		$1.21	$1.21
Totals For Activities			$3.02	$4.21	$0.00	$1.21	$8.44
Disked Field - June 2008							
Tractor - JD -220 HP	8.4	0.076	$2.34	$3.61		$0.00	$5.94
Disk - 25 Ft	8.4	0.076	$2.02	$0.81		$0.00	$2.83
Labor	8.4	0.076	$0.00	$0.00		$0.74	$0.74
Totals For Activities			$4.36	$4.42	$0.00	$0.74	$9.52

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #1 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Hipped Rows - June 2008							
Tractor - JD 4850 - 220 HP	8.4	0.094	$2.89	$4.47		$0.00	$7.36
Hipper - 25 Ft	8.4	0.094	$0.96	$0.31		$0.00	$1.27
Labor	8.4	0.094	$0.00	$0.00		$0.92	$0.92
Totals For Activities			$3.85	$4.78	$0.00	$0.92	$9.55
Hipped Rows - June 2008							
Tractor - JD 7810 - 150 HP	8.4	0.099	$1.91	$3.13		$0.00	$5.04
Orthman Buster - 6 Row - 42"	8.4	0.099	$0.87	$0.28		$0.00	$1.14
Labor	8.4	0.099	$0.00	$0.00		$0.97	$0.97
Totals For Activities			$2.78	$3.41	$0.00	$0.97	$7.15
Rolled Field - June 2008							
Tractor -966 Int. - 105 HP	8.4	0.052	$0.66	$1.14		$0.00	$1.81
Roller	8.4	0.052	$0.03	$0.01		$0.00	$0.04
Labor	8.4	0.052	$0.00	$0.00		$0.51	$0.51
Totals For Activities			$0.69	$1.15	$0.00	$0.51	$2.36
Applied Herbicide - June 2008							
Tractor - Voucher 8950 - 110 HP	8.4	0.028	$0.36	$0.62		$0.00	$0.98
Spray Boom - 60 Ft	8.4	0.028	$0.18	$0.11		$0.00	$0.29
Labor	8.4	0.028	$0.00	$0.00		$0.28	$0.28
Herbicide (Command)			$0.00	$0.00		$0.00	$0.00
3 pts/acre @ $12.75/pt	8.4		$0.00	$0.00	$38.25	$0.00	$38.25
Herbicide (Valor SX)			$0.00	$0.00		$0.00	$0.00
3 oz/acre @ $4.31/oz	8.4		$0.00	$0.00	$12.93	$0.00	$12.93
Totals For Activities			$0.54	$0.73	$51.18	$0.28	$52.73
Applied Insecticide - June 2008							
Tractor - Voucher 8950 - 110 HP	8.4	0.028	$0.36	$0.62		$0.00	$0.98
Spray Boom - 60 Ft	8.4	0.028	$0.18	$0.11		$0.00	$0.29
Labor	8.4	0.028	$0.00	$0.00		$0.28	$0.28
Insecticide (Brigade)			$0.00	$0.00		$0.00	$0.00
19.2 oz/acre @ $19.04/pt	8.4		$0.00	$0.00	$22.85	$0.00	$22.85
Totals For Activities			$0.54	$0.73	$22.85	$0.28	$24.40

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #1 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Applied Fertilizer - June 2008							
Tractor - 1066 Int. - 100 HP	8.4	0.060	$0.77	$1.32		$0.00	$2.09
Fertilizer Buggy	8.4	0.060	$0.36	$0.25		$0.00	$0.61
Labor	8.4	0.060	$0.00	$0.00		$0.59	$0.59
Fertilizer (Nitrogen)			$0.00	$0.00		$0.00	$0.00
45 lbs/ac @ $0.80/lb			$0.00	$0.00	$36.00	$0.00	$36.00
Fertilizer (Potassium)			$0.00	$0.00		$0.00	$0.00
100 lbs @ $0.51/lb			$0.00	$0.00	$51.00	$0.00	$51.00
Totals For Activities			$1.13	$1.57	$87.00	$0.59	$90.29
Pull Weeds - June 2008							
Labor			$0.00	$0.00		$0.00	$0.00
3 Full Time and 1 H2A	8.4		$0.00	$0.00	$6.73	$0.00	$6.73
Totals For Activities			$0.00	$0.00	$6.73	$0.00	$6.73
Orthman Plow - June 2008							
Tractor - JD 4850 - 220 HP	8.4	0.091	$2.81	$4.33		$0.00	$7.14
Orthman Plow - 6 Row - 42" Row	8.4	0.091	$0.73	$0.52		$0.00	$1.25
Labor	8.4	0.091	$0.00	$0.00		$0.89	$0.89
Totals For Activities			$3.54	$4.85	$0.00	$0.89	$9.28
Cultivator - June 2008							
Tractor - JD 4450 - 150 HP	8.4	0.109	$2.10	$3.44		$0.00	$5.54
Cultivator - 6 Row, 42" Row	8.4	0.109	$1.17	$0.37		$0.00	$1.54
Labor	8.4	0.109	$0.00	$0.00		$1.07	$1.07
Totals For Activities			$3.27	$3.81	$0.00	$1.07	$8.15
4 -Transplanters - July 6, 2008							
Tractor - Voucher 8950 - 110 HP	8.4	0.476	$24.39	$42.06		$0.00	$66.45
Transplanter - 6 Row - 42" Row	8.4	0.476	$22.53	$13.05		$0.00	$35.59
Labor	8.4	0.476	$0.00	$0.00		$18.72	$18.72
Seed (Transplant Slips)			$0.00	$0.00		$0.00	$0.00
.336 Acres of Plant Bed Needed			$0.00	$0.00	$175.95	$0.00	$175.95
Additional Labor			$0.00	$0.00		$0.00	$0.00
64 H2A Workers @ $8.41/hr			$0.00	$0.00	$256.30	$0.00	$256.30
Totals For Activities			$46.93	$55.11	$432.26	$18.72	$553.01

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #1 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Applied Chemicals - July 2008							
Tractor - JD 7810 - 155 HP	8.4	0.028	$0.55	$0.89		$0.00	$1.44
Spray Boom - 60 Ft	8.4	0.028	$0.18	$0.11		$0.00	$0.29
Labor	8.4	0.028	$0.00	$0.00		$0.28	$0.28
Insecticide - Brigade			$0.00	$0.00		$0.00	$0.00
3.2 oz/acre @ $19.04/pt	8.4		$0.00	$0.00	$3.81	$0.00	$3.81
Nutrient - Zinc Chelated			$0.00	$0.00		$0.00	$0.00
1 qrt/acre @ $12.00/gallon	8.4		$0.00	$0.00	$3.00	$0.00	$3.00
Totals For Activities			$0.73	$1.00	$6.81	$0.28	$8.82
Applied Insecticide - July 2008							
Custom Application @ $4.00/acre	8.4	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Brigade			$0.00	$0.00		$0.00	$0.00
3.2 oz/acre @ $19.04/pt	8.4		$0.00	$0.00	$3.81	$0.00	$3.81
Totals For Activities			$0.00	$0.00	$7.81	$0.00	$7.81
Applied Chemical - July 2008							
Custom Application @ $4.00/acre	8.4	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Brigade			$0.00	$0.00		$0.00	$0.00
3.2 oz/acre @ $19.04/pt	8.4		$0.00	$0.00	$3.81	$0.00	$3.81
Nutrient - Zinc Chelated			$0.00	$0.00		$0.00	$0.00
1 qrt/acre @ $12.00/gallon	8.4		$0.00	$0.00	$3.00	$0.00	$3.00
Totals For Activities			$0.00	$0.00	$10.81	$0.00	$10.81
Polypipe For Irrigation - July 2008							
Tractor - 100 HP	8.4	0.003	$0.04	$0.07		$0.00	$0.10
Pipe Spool	8.4	0.003	$0.08	$0.01		$0.00	$0.09
Labor	8.4	0.003	$0.00	$0.00		$0.03	$0.03
Polypipe			$0.00	$0.00		$0.00	$0.00
1.5 rolls/ 15.7 acres @ $230/ roll	8.4		$0.00	$0.00	$21.97	$0.00	$0.00
Totals For Activities			$0.12	$0.07	$21.97	$0.03	$22.19
Irrigated-Polypipe - July 2008							
Pumped 6 Hours	8.4	1.000	$27.70	$0.00		$0.00	$27.70
Apply 1 Acre Inch	8.4	1.000	$0.00	$11.44		$0.00	$11.44
Labor	8.4	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre @ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$27.70	$11.44	$0.00	$0.05	$39.18

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #1 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Irrigated-Polypipe - July 2008							
Pumped 6 Hours	8.4	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	8.4	1.000	$0.00	$11.44		$0.00	$11.44
Labor	8.4	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre @ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$0.00	$11.44	$0.00	$0.05	$11.48
Irrigated-Polypipe - July 2008							
Pumped 6 Hours	8.4	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	8.4	1.000	$0.00	$11.44		$0.00	$11.44
Labor	8.4	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre @ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$0.00	$11.44	$0.00	$0.05	$11.48
Insecticide – Twice – Aug 2008							
Custom Application @ $4.00/acre	8.4	0.000	$0.00	$0.00	$8.00	$0.00	$8.00
Insecticide - Mustang Max			$0.00	$0.00		$0.00	$0.00
2 oz per acre @ $1.61/oz	8.4		$0.00	$0.00	$6.44	$0.00	$6.44
Totals For Activities			$0.00	$0.00	$14.44	$0.00	$14.44
Insecticide – 4 Times – Aug 2008							
Custom Application @ $4.00/acre	8.4	0.000	$0.00	$0.00	$16.00	$0.00	$16.00
Insecticide - Baythroid			$0.00	$0.00		$0.00	$0.00
2.8 oz per acre @ $2.22/oz	8.4		$0.00	$0.00	$24.86	$0.00	$24.86
Totals For Activities			$0.00	$0.00	$40.86	$0.00	$40.86
Applied Insecticide- August 2008							
Custom Application @ $4.00/acre	8.4	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Pencap M			$0.00	$0.00		$0.00	$0.00
2 pts per acre @ $3.55/pt	8.4		$0.00	$0.00	$7.10	$0.00	$7.10
Totals For Activities			$0.00	$0.00	$11.10	$0.00	$11.10
Applied Insecticide- August 2008							
Custom Application @ $4.00/acre	8.4	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Assail			$0.00	$0.00		$0.00	$0.00
1.5 oz per acre @ $6.10/oz	8.4		$0.00	$0.00	$9.15	$0.00	$9.15
Totals For Activities			$0.00	$0.00	$13.15	$0.00	$13.15

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #1 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Irrigated-Polypipe - August 2008							
Pumped 6 Hours	8.4	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	8.4	1.000	$0.00	$11.44		$0.00	$11.44
Labor	8.4	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre @ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$0.00	$11.44	$0.00	$0.05	$11.48
Irrigated-Polypipe - August 2008							
Pumped 6 Hours	8.4	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	8.4	1.000	$0.00	$11.44		$0.00	$11.44
Labor	8.4	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre @ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$0.00	$11.44	$0.00	$0.05	$11.48
Irrigated-Reel Gun - August 2008							
Pumped 8 Hours	8.4	1.000	$25.31	$0.00		$0.00	$25.31
Apply 1 Acre Inch	8.4	1.000	$0.00	$9.00		$0.00	$9.00
Labor	8.4	0.060	$0.00	$0.00		$0.59	$0.59
Totals For Activities			$25.31	$9.00	$0.00	$0.59	$34.89
Applied Insecticide- August 2008							
Custom Application @ $4.00/acre	8.4	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Lorsban			$0.00	$0.00		$0.00	$0.00
15 lbs per acre @ $1.58/lb	8.4		$0.00	$0.00	$23.70	$0.00	$23.70
Totals For Activities			$0.00	$0.00	$27.70	$0.00	$27.70
Apply Herbicide - August 2008							
Tractor - JD 7930 - 160 HP	8.4	0.085	$1.64	$2.68		$0.00	$4.32
Hooded Sprayer -6 Row -42" Row	8.4	0.085	$0.78	$0.55		$0.00	$1.32
Labor	8.4	0.085	$0.00	$0.00		$0.83	$0.83
Herbicide - Dual Magnum			$0.00	$0.00		$0.00	$0.00
2/3 pt per acre @ $13.47/pt			$0.00	$0.00	$8.98	$0.00	$8.98
Totals For Activities			$2.41	$3.23	$8.98	$0.83	$15.46

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #1 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Apply Herbicide - August 2008							
Tractor - JD 7930 - 160 HP	8.4	0.085	$1.64	$2.68		$0.00	$4.32
Hooded Sprayer -6 Row -42" Row	8.4	0.085	$0.78	$0.55		$0.00	$1.32
Labor	8.4	0.085	$0.00	$0.00		$0.83	$0.83
Herbicide - Valor SX			$0.00	$0.00		$0.00	$0.00
2 oz per acre @ $4.31/oz			$0.00	$0.00	$8.62	$0.00	$8.62
Totals For Activities			$2.41	$3.23	$8.62	$0.83	$15.10
Plowed - August 2008							
Tractor - JD 4850 - 220 HP	8.4	0.091	$2.81	$4.33		$0.00	$7.14
Orthman Plow - 6 Row - 42" Row	8.4	0.091	$0.73	$0.52		$0.00	$1.25
Labor	8.4	0.091	$0.00	$0.00		$0.89	$0.89
Totals For Activities			$3.54	$4.85	$0.00	$0.89	$9.28
Barred Off - September 2008							
Tractor - 1066 Int - 100 HP	8.4	0.318	$4.08	$7.03		$0.00	$11.11
Barred Off Equip	8.4	0.318	$0.99	$0.68		$0.00	$1.67
Labor	8.4	0.318	$0.00	$0.00		$3.13	$3.13
Totals For Activities			$5.07	$7.71	$0.00	$3.13	$15.91
Devined - September 2008							
Tractor - JD 4850 - 220 HP	8.4	0.083	$2.55	$3.93		$0.00	$6.48
Shredder - 6 Row	8.4	0.083	$0.99	$1.40		$0.00	$2.39
Labor	8.4	0.083	$0.00	$0.00		$0.81	$0.81
Totals For Activities			$3.54	$5.33	$0.00	$0.81	$9.68
5 - Harvesters - September 2008							
Tractor	8.4	0.595	$50.63	$83.00		$0.00	$133.63
Harvester - 2 Row	8.4	0.595	$14.40	$8.15		$0.00	$22.55
Labor	8.4	0.595	$0.00	$0.00		$29.25	$29.25
Additional Labor			$0.00	$0.00		$0.00	$0.00
10 H2A Workers/Harvester	8.4		$0.00	$0.00	$250.30	$0.00	$250.30
Bins - 150 Bins for Field			$0.00	$0.00		$0.00	$0.00
Bins @ $55/bin (Prorated 5 yrs)	8.4		$0.00	$0.00	$196.43	$0.00	$196.43
Totals For Activities			$65.04	$91.15	$446.73	$29.25	$632.16

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #1 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Harvest - September 2008							
Forklift	8.4	1.000	$3.84	$0.00		$0.00	$3.84
	8.4	1.000	$0.00	$4.25		$0.00	$4.25
Labor	8.4	0.595	$0.00	$0.00		$5.85	$5.85
Totals For Activities			$3.84	$4.25	$0.00	$5.85	$13.94
Harvest - Transport – Sept 2008							
Truck (18-Wheeler)	8.4	1.000	$32.34	$31.13		$0.00	$63.47
Labor	8.4	0.595	$0.00	$0.00		$5.85	$5.85
Totals For Activities			$32.34	$31.13	$0.00	$5.85	$69.32
Crop Consultants - Check Off							
Crop and Farm Management			$0.00	$0.00		$0.00	$0.00
$25/acre for both	8.4		$0.00	$0.00	$50.00	$0.00	$50.00
LDAF Checkoff/Association Dues			$0.00	$0.00		$0.00	$0.00
$17.50/acre for both	8.4		$0.00	$0.00	$17.50	$0.00	$17.50
Totals For Activities			$0.00	$0.00	$67.50	$0.00	$67.50
Land Rent							
Cash Land Rent - $165 per acre	8.4		$0.00	$0.00	$165.00	$0.00	$165.00
Totals For Activities			$0.00	$0.00	$165.00	$0.00	$165.00

2008 Sweet Potato Research Verification Program
Estimated Production Costs
Production Field #2 - North Louisiana Fields

Expense Item	Cost Per Acre	Percent of Total Direct Costs
Seed	$175.95	8.13%
Fertilizer	$269.47	12.45%
Insecticide	$105.53	4.88%
Herbicide	$68.78	3.18%
Fungicide	$0.00	0.00%
Fuel & Repair and Maintenance	$342.47	15.83%
Labor	$677.33	31.30%
Other Inputs	$397.35	18.36%
Custom Application/Service	$94.00	4.34%
Interest Expense	$33.12	1.53%
Total Direct Cost	$2,164.00	
Total Fixed Cost	$274.30	
Total Specified Costs	$2,438.29	

2008 Sweet Potato Research Verification Program
Breakdown of Direct Cost Category & Field Activity
Production Field #2 - North Louisiana Fields

Field Activity	Fuel and Repair/Maintenance	Labor	Inputs	Custom Service	Interest Expense	Total Costs
	----------	----------	Costs Per Acre	----------	----------	----------
Non-Harvest Activities	$135.97	$341.21	$802.23	$94.00	$27.10	$1,400.51
Irrigation Activities	$66.24	$0.97	$21.97	$0.00	$1.57	$90.75
Harvest Activities	$140.26	$335.14	$192.88	$0.00	$4.46	$672.73
Totals	$342.47	$677.33	$1,017.08	$94.00	$33.12	$2,164.00

2008 Sweet Potato Research Verification Program
Summary of Pesticide Applications and Costs
Production Field #2 - North Louisiana Fields

Pesticide	Number of Trips	Number of Pesticides Applied	Total Application Costs	Cost Per Trip
	----------	Per Acre	----------	----------
Insecticide	13	13	$159.09	$12.24
Herbicide	3	4	$83.28	$27.76
Fungicide	0	0	$0.00	$0.00

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #2 - North Louisiana Fields

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Apply Fertilizer - May 2008							
Tractor - 100 HP	7.3	0.110	$1.41	$2.43		$0.00	$3.84
Spreader - No Pull	7.3	0.110	$0.16	$0.11		$0.00	$0.27
Labor	7.3	0.110	$0.00	$0.00		$1.08	$1.08
Fertilzer/Nutrients			$0.00	$0.00		$0.00	$0.00
85 lbs P @ $1.04/lb			$0.00	$0.00	$88.40	$0.00	$88.40
165 lbs K @ $0.51/lb			$0.00	$0.00	$84.15	$0.00	$84.15
1 lb Boron @ $0.42/lb			$0.00	$0.00	$0.42	$0.00	$0.42
10 lbs Sulfur @ $0.35/lb			$0.00	$0.00	$3.50	$0.00	$3.50
Totals For Activities			$1.57	$2.54	$176.47	$1.08	$181.66
Disked Field-Twice - June 2008							
Tractor - JD -220 HP	7.3	0.076	$4.67	$7.21		$0.00	$11.88
Disk - 25 Ft	7.3	0.076	$4.04	$1.62		$0.00	$5.67
Labor	7.3	0.076	$0.00	$0.00		$1.49	$1.49
Totals For Activities			$8.72	$8.84	$0.00	$1.49	$19.04
Chisel Plow - June 2008							
Tractor - JD -220 HP	7.3	0.123	$3.80	$5.87		$0.00	$9.68
Chisel Plow - 14 Ft	7.3	0.123	$0.63	$0.30		$0.00	$0.94
Labor	7.3	0.123	$0.00	$0.00		$1.21	$1.21
Totals For Activities			$4.44	$6.18	$0.00	$1.21	$11.83
Chisel Plow - June 2008							
Tractor - JD 4450 - 150 HP	7.3	0.123	$2.39	$3.91		$0.00	$6.29
Chisel Plow - 14 Ft	7.3	0.123	$0.63	$0.30		$0.00	$0.94
Labor	7.3	0.123	$0.00	$0.00		$1.21	$1.21
Totals For Activities			$3.02	$4.21	$0.00	$1.21	$8.44
Disked Field - June 2008							
Tractor - JD -220 HP	7.3	0.076	$2.34	$3.61		$0.00	$5.94
Disk - 25 Ft	7.3	0.076	$2.02	$0.81		$0.00	$2.83
Labor	7.3	0.076	$0.00	$0.00		$0.74	$0.74
Totals For Activities			$4.36	$4.42	$0.00	$0.74	$9.52

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #2 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Hipped Rows - June 2008							
Tractor - JD 4850 - 220 HP	7.3	0.094	$2.89	$4.47		$0.00	$7.36
Hipper - 25 Ft	7.3	0.094	$0.96	$0.31		$0.00	$1.27
Labor	7.3	0.094	$0.00	$0.00		$0.92	$0.92
Totals For Activities			$3.85	$4.78	$0.00	$0.92	$9.55
Hipped Rows - June 2008							
Tractor - JD 7810 - 150 HP	7.3	0.099	$1.91	$3.13		$0.00	$5.04
Orthman Buster - 6 Row - 42"	7.3	0.099	$0.87	$0.28		$0.00	$1.14
Labor	7.3	0.099	$0.00	$0.00		$0.97	$0.97
Totals For Activities			$2.78	$3.41	$0.00	$0.97	$7.15
Rolled Field - June 2008							
Tractor -966 Int. - 105 HP	7.3	0.052	$0.66	$1.14		$0.00	$1.81
Roller	7.3	0.052	$0.03	$0.01		$0.00	$0.04
Labor	7.3	0.052	$0.00	$0.00		$0.51	$0.51
Totals For Activities			$0.69	$1.15	$0.00	$0.51	$2.36
Applied Herbicide - June 2008							
Tractor - Voucher 8950 - 110 HP	7.3	0.028	$0.36	$0.62		$0.00	$0.98
Spray Boom - 60 Ft	7.3	0.028	$0.18	$0.11		$0.00	$0.29
Labor	7.3	0.028	$0.00	$0.00		$0.28	$0.28
Herbicide (Command)			$0.00	$0.00		$0.00	$0.00
3 pts/acre @ $12.75/pt	7.3		$0.00	$0.00	$38.25	$0.00	$38.25
Herbicide (Valor SX)			$0.00	$0.00		$0.00	$0.00
3 oz/acre @ $4.31/oz	7.3		$0.00	$0.00	$12.93	$0.00	$12.93
Totals For Activities			$0.54	$0.73	$51.18	$0.28	$52.73
Applied Insecticide - June 2008							
Tractor - Voucher 8950 - 110 HP	7.3	0.028	$0.36	$0.62		$0.00	$0.98
Spray Boom - 60 Ft	7.3	0.028	$0.18	$0.11		$0.00	$0.29
Labor	7.3	0.028	$0.00	$0.00		$0.28	$0.28
Insecticide (Brigade)			$0.00	$0.00		$0.00	$0.00
19.2 oz/acre @ $19.04/pt	7.3		$0.00	$0.00	$22.85	$0.00	$22.85
Totals For Activities			$0.54	$0.73	$22.85	$0.28	$24.40

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #2 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Applied Fertilizer - June 2008							
Tractor - 1066 Int. - 100 HP	7.3	0.060	$0.77	$1.32		$0.00	$2.09
Fertilizer Buggy	7.3	0.060	$0.36	$0.25		$0.00	$0.61
Labor	7.3	0.060	$0.00	$0.00		$0.59	$0.59
Fertilizer (Nitrogen)			$0.00	$0.00		$0.00	$0.00
45 lbs/ac @ $0.80/lb			$0.00	$0.00	$36.00	$0.00	$36.00
Fertilizer (Potassium)			$0.00	$0.00		$0.00	$0.00
100 lbs @ $0.51/lb			$0.00	$0.00	$51.00	$0.00	$51.00
Totals For Activities			$1.13	$1.57	$87.00	$0.59	$90.29
Pull Weeds - June 2008							
Labor			$0.00	$0.00		$0.00	$0.00
3 Full Time and 1 H2A	7.3		$0.00	$0.00	$6.73	$0.00	$6.73
Totals For Activities			$0.00	$0.00	$6.73	$0.00	$6.73
Orthman Plow - June 2008							
Tractor - JD 4850 - 220 HP	7.3	0.091	$2.81	$4.33		$0.00	$7.14
Orthman Plow -6 Row -42" Row	7.3	0.091	$0.73	$0.52		$0.00	$1.25
Labor	7.3	0.091	$0.00	$0.00		$0.89	$0.89
Totals For Activities			$3.54	$4.85	$0.00	$0.89	$9.28
Cultivator - June 2008							
Tractor - JD 4450 - 150 HP	7.3	0.109	$2.10	$3.44		$0.00	$5.54
Cultivator - 6 Row, 42" Row	7.3	0.109	$1.17	$0.37		$0.00	$1.54
Labor	7.3	0.109	$0.00	$0.00		$1.07	$1.07
Totals For Activities			$3.27	$3.81	$0.00	$1.07	$8.15
4 -Transplanters - July 6, 2008							
Tractor - Voucher 8950 - 110 HP	7.3	0.548	$28.07	$48.40		$0.00	$76.46
Transplanter - 6 Row - 42" Row	7.3	0.548	$25.93	$15.02		$0.00	$40.95
Labor	7.3	0.548	$0.00	$0.00		$21.54	$21.54
Seed (Transplant Slips)			$0.00	$0.00		$0.00	$0.00
.292 acres of plant bed needed			$0.00	$0.00	$175.95	$0.00	$175.95
Additional Labor			$0.00	$0.00		$0.00	$0.00
64 H2A Workers @ $8.41/hr			$0.00	$0.00	$294.93	$0.00	$294.93
Totals For Activities			$54.00	$63.41	$470.88	$21.54	$609.83

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #2 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Applied Chemicals - July 2008							
Tractor - JD 7810 - 155 HP	7.3	0.028	$0.55	$0.89		$0.00	$1.44
Spray Boom - 60 Ft	7.3	0.028	$0.18	$0.11		$0.00	$0.29
Labor	7.3	0.028	$0.00	$0.00		$0.28	$0.28
Insecticide - Brigade			$0.00	$0.00		$0.00	$0.00
3.2 oz/acre @ $19.04/pt	7.3		$0.00	$0.00	$3.81	$0.00	$3.81
Nutrient - Zinc Chelated			$0.00	$0.00		$0.00	$0.00
1 qrt/acre @ $12.00/gallon	7.3		$0.00	$0.00	$3.00	$0.00	$3.00
Totals For Activities			$0.73	$1.00	$6.81	$0.28	$8.82
Applied Insecticide - July 2008							
Custom Application @ $4.00/acre	7.3	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Brigade			$0.00	$0.00		$0.00	$0.00
3.2 oz/acre @ $19.04/pt	7.3		$0.00	$0.00	$3.81	$0.00	$3.81
Totals For Activities			$0.00	$0.00	$7.81	$0.00	$7.81
Applied Chemical - July 2008							
Custom Application @ $4.00/acre	7.3	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Brigade			$0.00	$0.00		$0.00	$0.00
3.2 oz/acre @ $19.04/pt	7.3		$0.00	$0.00	$3.81	$0.00	$3.81
Nutrient - Zinc Chelated			$0.00	$0.00		$0.00	$0.00
1 qrt/acre @ $12.00/gallon	7.3		$0.00	$0.00	$3.00	$0.00	$3.00
Totals For Activities			$0.00	$0.00	$10.81	$0.00	$10.81
Polypipe For Irrigation - July 2008							
Tractor - 100 HP	7.3	0.003	$0.04	$0.07		$0.00	$0.10
Pipe Spool	7.3	0.003	$0.08	$0.01		$0.00	$0.09
Labor	7.3	0.003	$0.00	$0.00		$0.03	$0.03
Polypipe			$0.00	$0.00		$0.00	$0.00
1.5 Rolls/15.7 acres @ $230/roll			$0.00	$0.00	$21.97	$0.00	$0.00
Totals For Activities			$0.12	$0.07	$21.97	$0.03	$22.19
Irrigated-Polypipe - July 2008							
Pumped 6 Hours	7.3	1.000	$27.70	$0.00		$0.00	$27.70
Apply 1 Acre Inch	7.3	1.000	$0.00	$11.44		$0.00	$11.44
Labor	7.3	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre@ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$27.70	$11.44	$0.00	$0.05	$39.19

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #2 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Irrigated-Polypipe - July 2008							
Pumped 6 Hours	7.3	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	7.3	1.000	$0.00	$11.44		$0.00	$11.44
Labor	7.3	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre@ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$0.00	$11.44	$0.00	$0.05	$11.49
Irrigated-Polypipe - July 2008							
Pumped 6 Hours	7.3	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	7.3	1.000	$0.00	$11.44		$0.00	$11.44
Labor	7.3	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre@ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$0.00	$11.44	$0.00	$0.05	$11.49
Insecticide – Twice – Aug 2008							
Custom Application @ $4.00/acre	7.3	0.000	$0.00	$0.00	$8.00	$0.00	$8.00
Insecticide - Mustang Max			$0.00	$0.00		$0.00	$0.00
2 oz per acre @ $1.61/oz	7.3		$0.00	$0.00	$6.44	$0.00	$6.44
Totals For Activities			$0.00	$0.00	$14.44	$0.00	$14.44
Insecticide – 4 Times – Aug 2008							
Custom Application @ $4.00/acre	7.3	0.000	$0.00	$0.00	$16.00	$0.00	$16.00
Insecticide - Baythroid			$0.00	$0.00		$0.00	$0.00
2.8 oz per acre @ $2.22/oz	7.3		$0.00	$0.00	$24.86	$0.00	$24.86
Totals For Activities			$0.00	$0.00	$40.86	$0.00	$40.86
Applied Insecticide- August 2008							
Custom Application @ $4.00/acre	7.3	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Pencap M			$0.00	$0.00		$0.00	$0.00
2 pts per acre @ $3.55/pt	7.3		$0.00	$0.00	$7.10	$0.00	$7.10
Totals For Activities			$0.00	$0.00	$11.10	$0.00	$11.10
Applied Insecticide- August 2008							
Custom Application @ $4.00/acre	7.3	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Assail			$0.00	$0.00		$0.00	$0.00
1.5 oz per acre @ $6.10/oz	7.3		$0.00	$0.00	$9.15	$0.00	$9.15
Totals For Activities			$0.00	$0.00	$13.15	$0.00	$13.15

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #2 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Irrigated-Polypipe - August 2008							
Pumped 6 Hours	7.3	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	7.3	1.000	$0.00	$11.44		$0.00	$11.44
Labor	7.3	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre@ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$0.00	$11.44	$0.00	$0.05	$11.49
Irrigated-Polypipe - August 2008							
Pumped 6 Hours	7.3	1.000	$0.00	$0.00		$0.00	$0.00
Apply 1 Acre Inch	7.3	1.000	$0.00	$11.44		$0.00	$11.44
Labor	7.3	0.005	$0.00	$0.00		$0.05	$0.05
* 94 Kwh per acre@ $0.1154/kwh			$0.00	$0.00		$0.00	$0.00
Totals For Activities			$0.00	$11.44	$0.00	$0.05	$11.49
Irrigated-Reel Gun - August 2008							
Pumped 8 Hours	7.3	1.000	$25.31	$0.00		$0.00	$25.31
Apply 1 Acre Inch	7.3	1.000	$0.00	$9.00		$0.00	$9.00
Labor	7.3	0.068	$0.00	$0.00		$0.67	$0.67
Totals For Activities			$25.31	$9.00	$0.00	$0.67	$34.98
Applied Insecticide- August 2008							
Custom Application @ $4.00/acre	7.3	0.000	$0.00	$0.00	$4.00	$0.00	$4.00
Insecticide - Lorsban			$0.00	$0.00		$0.00	$0.00
15 lbs per acre @ $1.58/lb	7.3		$0.00	$0.00	$23.70	$0.00	$23.70
Totals For Activities			$0.00	$0.00	$27.70	$0.00	$27.70
Apply Herbicide - August 2008							
Tractor - JD 7930 - 160 HP	7.3	0.085	$1.64	$2.68		$0.00	$4.32
Hooded Sprayer -6 Row -42"	7.3	0.085	$0.78	$0.55		$0.00	$1.32
Labor	7.3	0.085	$0.00	$0.00		$0.83	$0.83
Herbicide - Dual Magnum			$0.00	$0.00		$0.00	$0.00
2/3 pt per acre @ $13.47/pt			$0.00	$0.00	$8.98	$0.00	$8.98
Totals For Activities			$2.41	$3.23	$8.98	$0.83	$15.46

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #2 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Apply Herbicide - August 2008							
Tractor - JD 7930 - 160 HP	7.3	0.085	$1.64	$2.68		$0.00	$4.32
Hooded Sprayer -6 Row -42"	7.3	0.085	$0.78	$0.55		$0.00	$1.32
Labor	7.3	0.085	$0.00	$0.00		$0.83	$0.83
Herbicide - Valor SX			$0.00	$0.00		$0.00	$0.00
2 oz per acre @ $4.31/oz			$0.00	$0.00	$8.62	$0.00	$8.62
Totals For Activities			$2.41	$3.23	$8.62	$0.83	$15.10
Plowed - August 2008							
Tractor - JD 4850 - 220 HP	7.3	0.091	$2.81	$4.33		$0.00	$7.14
Orthman Plow - 6 Row - 42" Row	7.3	0.091	$0.73	$0.52		$0.00	$1.25
Labor	7.3	0.091	$0.00	$0.00		$0.89	$0.89
Totals For Activities			$3.54	$4.85	$0.00	$0.89	$9.28
Barred Off - September 2008							
Tractor - 1066 Int - 100 HP	7.3	0.318	$4.08	$7.03		$0.00	$11.11
Barred Off Equip	7.3	0.318	$0.99	$0.68		$0.00	$1.67
Labor	7.3	0.318	$0.00	$0.00		$3.13	$3.13
Totals For Activities			$5.07	$7.71	$0.00	$3.13	$15.91
Devined - September 2008							
Tractor - JD 4850 - 220 HP	7.3	0.083	$2.55	$3.93		$0.00	$6.48
Shredder - 6 Row	7.3	0.083	$0.99	$1.40		$0.00	$2.39
Labor	7.3	0.083	$0.00	$0.00		$0.81	$0.81
Totals For Activities			$3.54	$5.33	$0.00	$0.81	$9.68
5 - Harvesters - September 2008							
Tractor	7.3	0.685	$58.26	$95.50		$0.00	$153.76
Harvester - 2 Row	7.3	0.685	$16.58	$9.38		$0.00	$25.95
Labor	7.3	0.685	$0.00	$0.00		$33.66	$33.66
Additional Labor			$0.00	$0.00		$0.00	$0.00
10 H2A Workers/Harvester	7.3		$0.00	$0.00	$288.01	$0.00	$288.01
Bins - 128 Bins for Field			$0.00	$0.00		$0.00	$0.00
Bins @ $55/bin (Prorated 5 yrs)	7.3		$0.00	$0.00	$192.88	$0.00	$192.88
Totals For Activities			$74.84	$104.88	$480.89	$33.66	$694.27

2008 Sweet Potato Research Verification Program
Estimated Costs of Individual Field Activities
Production Field #2 - North Louisiana Fields (Continued)

Activity	Acres Covered	Hours Per Acre	Fixed Equipment Costs	Direct Equipment Costs	Input Costs	Labor Costs	Total Costs
Harvest - September 2008							
Forklift	7.3	1.000	$3.84	$0.00		$0.00	$3.84
	7.3	1.000	$0.00	$4.25		$0.00	$4.25
Labor	7.3	0.685	$0.00	$0.00		$6.73	$6.73
Totals For Activities			$3.84	$4.25	$0.00	$6.73	$14.82
Harvest - Transport - Sept 2008							
Truck (18-Wheeler)	7.3	1.000	$32.34	$31.13		$0.00	$63.47
Labor	7.3	0.685	$0.00	$0.00		$6.73	$6.73
Totals For Activities			$32.34	$31.13	$0.00	$6.73	$70.20
Crop Consultants - Check Off							
Crop and Farm Management			$0.00	$0.00		$0.00	$0.00
$25/acre for both	8.4		$0.00	$0.00	$50.00	$0.00	$50.00
LDAF Checkoff/Association Dues			$0.00	$0.00		$0.00	$0.00
$17.50/acre for both	8.4		$0.00	$0.00	$17.50	$0.00	$17.50
Totals For Activities			$0.00	$0.00	$67.50	$0.00	$67.50
Land Rent							
Cash Land Rent - $165 per acre	8.4		$0.00	$0.00	$165.00	$0.00	$165.00
Totals For Activities			$0.00	$0.00	$165.00	$0.00	$165.00