

Projected Costs and Returns Crop Enterprise Budgets for Sugarcane Production in Louisiana, 2016

Michael A. Deliberto, Brian M. Hilbun, and Michael E. Salassi



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PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR SUGARCANE PRODUCTION IN LOUISIANA, 2016

by

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Introduction

This publication presents estimates of projected costs and returns for sugarcane production in Louisiana for the 2016 crop year. Crop producers are annually faced with critical management decisions that impact the employment of production inputs for various crop enterprises and the combination of crops that will be assembled into a cropping system. The need for reliable information is crucial if sound production decisions are to be made. Planning information plays a pivotal role in the development of annual crop production plans by producers and is important in supporting their efforts to secure the necessary resources to carry out their plans. In addition, information regarding production alternatives and costs and returns for major crop enterprises is needed by extension personnel, researchers, lending institutions, and others involved in agriculture or agribusiness. The purpose of this report is to provide planning information regarding crop production costs and market returns for the 2016 crop year.

Sugarcane Crop Enterprise Budgets

Sugarcane enterprise budgets for tenant-operators in this report are presented in two budget formats. The first budget format (table A) is a summary of costs and returns for the crop enterprise. The second budget format (table B) provides a table listing the sequence of production operations, indicating the equipment and implements used, month of operation, labor required, machine time required, and materials used. Labor costs, material costs, custom costs, and direct and fixed costs for tractors and equipment are also included for each operation.

All costs are summed giving the total cost per operation or practice.

Whole farm sugarcane crop enterprise income and expense summary tables presented in this report (Tables 1A, 2A and 3A) present estimates of projected income and expenses of a sugarcane farming operation for 1,000 acres of sugarcane. A mill charge of 39.0% and a crop share land charge of 16.7% (a one-sixth crop share lease after mill charges) are used. Under these assumptions, the distribution of crop proceeds are as follows: 39.0% to the mill, 50.8% to the grower, and 10.2% to the landlord.

This report presents 2016 projected costs and returns associated with the various phases of sugarcane production using three row machinery and the production practices followed by most growers in the main sugarcane producing area of the state. Fertilizer and chemical rates were based on recommendations of the LSU Agricultural Center. Only tenant-operator budgets are presented in this report, reflecting the predominant share rent land tenure situation. The landlord does not share in any of the production expenses other than seed cane (in the form of reduced current year income) and provides little assistance in maintaining or improving farm housing, drainage, and roads.

Determination of costs associated with sugarcane is not a straight forward process. The uniqueness of the production rotation normally associated with sugarcane coupled with the fact that a portion of the rotation is non-income generating creates some difficulty. Thus, the sugarcane budgets presented in this report reflect costs per acre of land. Returns are based on pounds of raw sugar and gallons of molasses per acre of land harvested. Grower income reflects

the usual disposition of raw sugar and molasses between the grower, landlord and mill.

Projections of harvest costs are included for both wholestalk and combine harvesters. These harvest cost budgets includes the costs of hauling cane by tractor and wagon to a field transfer location to be loaded onto trucks. Costs of hauling harvested sugarcane from farm to mill are excluded.

Procedure

The general procedure used in this study was to project machinery and other input price data and apply these data to the production practice data for crop enterprises produced in Louisiana. Input prices were obtained from surveys of farm suppliers, machinery dealers, and aerial applicators to provide a basis for estimating 2016 planning budgets. Machinery and other input cost data are presented in the Appendix.

The budgets included in this report are categorized by per acre total direct expenses and per acre total fixed expenses for a production season. Within these two broad categories, the various inputs are itemized with their respective costs. Although a particular enterprise budget is presented on a per acre basis, some individual cost items are specified on an hourly or price per unit basis. Direct expenses include such cost items as seed, fertilizer, chemicals, fuel, labor, repairs, and irrigation. Fixed expenses include such items as depreciation and interest on investment which are generally incurred during the production period.

Due to the detailed nature of the cost computations, a computerized budget generator procedure was utilized. The Mississippi State Budget Generator Program, developed at Mississippi State University, is utilized by the LSU Agricultural Center in developing these crop enterprise costs and returns budgets. The budget generator provides a standard format for crop and livestock budgets and this computational procedure is widely accepted for estimating projected commodity costs and

returns information for upcoming crop year planning purposes.

Expected Crop Yields and Market Prices

Projected crop enterprise budgets in this report include a calculation of expected market returns for the crop. Expected crop yields and market prices are selected at the beginning of the crop year. Projected crop yields are determined based on recent production history for expected yield given normal weather conditions. Projected market prices are specified as expected marketing year average prices for the commodity, based on harvest time futures price quotes as well as other market information at the beginning of the crop year. No estimate of income from farm program participation or crop insurance is included in this budgets due to the wide variety of farm program and crop insurance choices available to producers.

Direct Production Costs

Direct or variable production costs were estimated by utilizing updated crop production input price data. Input price data for various crop production inputs were updated by obtaining prices from farm input suppliers in the fall and winter prior to the crop year. Herbicide, fertilizer, and insecticide expenditures for each enterprise budget are based upon the types of chemicals producers generally reported using for that situation. Suggested prices for selected farm inputs and aerial application rates are presented in the appendix.

Hired labor was charged at \$10.18 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at \$15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was charged for these classes of operators because of the relatively higher skills required to run these types of machinery and the general consensus that these operators are generally twelve month

(salaried) employees i.e. foremen. Farm labor may not be generally available on an hourly basis; however, an hourly charge represents a practical method for charging labor to the respective crop enterprises on a per acre basis.

Interest on operating capital (short term) was charged at a nominal rate of 4.50% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel prices for diesel and gasoline were \$2.00 per gallon and \$2.25 per gallon, respectively. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

The intermediate term interest rate was charged at an historical real rate of 5.00%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

Machinery cost data were obtained from a sample of machinery dealers. New machinery prices were used to reflect the economic cost of acquiring and maintaining capital assets in current dollar values. Purchase prices for selected power and machinery items included in this report are presented in the appendix. Other data included in the appendix indicate hours of annual use and years of life for each selected machinery item. Fuel consumption, accumulated repair costs, and other machinery performance data are based on ASAE standards. Machinery fixed costs are calculated using the capital recovery method which includes estimates of both annual depreciation and interest on investment.

Overhead Costs

Overhead costs reflect significant expenses associated with the operation of the entire farm business, but are not necessarily

attributable to a specific crop enterprise. Examples of farm overhead costs include tax services, record keeping, utilities, farmstead maintenance, and insurance and property taxes where applicable. General farm overhead costs can vary greatly from farm to farm based on many factors including farm size, land tenure and crop production technology utilized. A single general farm overhead charge is included in each of the three whole farm sugarcane crop enterprise budgets included in this report.

Charges for Management and Risk

The estimated production expenses included in this report include only direct and fixed expenses associated with the production of the specific crop enterprise. Labor charges included in the enterprise budgets only include charges for field labor. No charges for management or risk as well as other general farm expenses are included.

Acknowledgments

Several individuals were instrumental in making this report possible. The authors are particularly indebted to Louisiana crop producers and LSU Agricultural Center Extension Service agents and Experiment Station scientists for their cooperation and assistance in providing specific production practice information, as well as farm suppliers and agribusiness firms for supplying input price information.

Internet Access

This publication, along with projected costs and returns reports for other major agricultural crop commodities produced in Louisiana, as well as other farm management publications, are available on the Internet on the LSU AgCenter web page under the “*Extension and Outreach*” section of the Department of Agricultural Economics and Agribusiness web page. These projected costs and returns reports are also available on the LSU Ag Center crop commodities web pages. The web address for the LSU AgCenter is: www.lsuagcenter.com.

Table 1A. Projected Costs and Returns on 1,000 Acres of Sugarcane, 4-Year Rotation, Harvest through 2nd stubble, Tenant-Operator, Louisiana, 2016.

Item	Dollars Per Acre	Number of Acres	Total Dollar Value	Per Acre Dollar Value 6/	Per Pound of Sugar Value 7/
	(\$/acre)	(acres)	(\$)	(\$/acre)	(\$/lb)
GROSS VALUE OF PRODUCTION: 1/					
Sugar: (\$0.240/lb; 5,514,080 lbs.)					
Plantcane (8,800 lbs/acre)	2,112.00	201.6	425,779		
1st stubble (8,184 lbs/acre)	1,964.16	250.0	491,040		
2nd stubble (6,776 lbs/acre)	1,626.24	250.0	406,560		
Total sugar (7,868 lbs/acre avg.)			1,323,379	1,323.38	0.240
Molasses: (\$0.67/gal; 165,422 gallons)	--	--	110,833		
TOTAL GROSS VALUE			1,434,212	1,434.21	0.260
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	516,118		
Molasses	--	--	55,417		
Total mill charge			571,534	571.53	0.104
NET RETURNS TO LAND AND PRODUCER			862,678	862.68	0.156
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	134,813		
Molasses(16.7% after mill charge)	--	--	9,255		
Total land charge			144,067	144.07	0.026
PRODUCER INCOME					
Sugar and Molasses	--	--	718,611	718.61	0.130
ASCL Check Off (\$0.14 /ton)	--	--	(3,509)		
Total Income			715,102	715.10	0.130
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	108.29	250.0	27,073		
Cultured Seed Cane	521.77	4.1	2,134		
Hand Planting	209.44	4.1	857		
Wholestalk Seedcane Harvest	66.83	49.2	3,288		
Mechanical Planting - Wholestalk	176.07	245.9	43,296		
Plant Cane Field Operations	251.77	250.0	62,943		
1st Stubble Field Operations	316.91	250.0	79,228		
2nd Stubble Field Operations	308.57	250.0	77,143		
Harvest for Sugar 4/	138.72	700.8	97,215		
Total variable expenses			393,174	393.17	0.071
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			321,927	321.93	0.058
FIXED PRODUCTION EXPENSES 5/		1,000.0	145,929	145.93	0.026
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			175,998	176.00	0.032
FARM OVERHEAD EXPENSES		1,000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			145,998	146.00	0.026

- 1/ Gross value of production is determined using estimated production from 1,000 acres of sugarcane land in a standard 4 year rotation (fallow/plant, plantcane, 1st stubble, and 2nd stubble). Raw sugar is valued at 24.0 cents per pound and molasses at 67.0 cents per gallon.
- 2/ Harvested sugarcane is assumed to be transloaded to custom truck and trailer. Hauling costs from farm to mill and hauling rebate are excluded.
- 3/ Each category of production expense listed includes all variable costs associated with the specified operations including cost of inputs, labor, fuel, repairs, and interest on operating capital.
- 4/ Harvest costs are estimated assuming 100% of sugarcane is harvested with a combine harvester.
- 5/ Fixed expenses includes depreciation and interest charges on equipment used in production.
- 6/ Per acre dollar value is calculated by dividing total dollar value by total farm acreage.
- 7/ Per pound of sugar value is calculated by dividing total dollar value by total sugar production over 1,000 farm acres (5,514,080 pounds of sugar from 25,064 tons of cane).

Table 1B. Breakeven Selling Prices for Raw Sugar for Selected Yields and Rental Arrangements, 4-Year Rotation, Harvest through 2nd stubble, Tenant-Operators, Louisiana, 2016.

	Selected Yield Levels				
	-10%	-5%	Base	+5%	+10%
Cane yield per harvested acre (tons) 1/	32.1	33.9	35.7	37.5	39.3
Sugar yield per harvested acre (lbs) 2/	7069	7461	7854	8247	8639
Sugar yield per rotational acre (lbs) 3/	4956	5232	5507	5782	6058
ONE-FIFTH LAND SHARE RENT					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.8	15.2	14.6	14.1	13.6
Total specified costs	21.9	20.9	20.0	19.3	18.5
Total costs plus overhead	23.1	22.1	21.2	20.3	19.6
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.2	14.6	14.0	13.5	13.1
Total specified costs	21.0	20.1	19.2	18.5	17.8
Total costs plus overhead	22.2	21.2	20.3	19.5	18.8
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	14.8	14.2	13.6	13.2	12.7
Total specified costs	20.4	19.5	18.7	18.0	17.3
Total costs plus overhead	21.6	20.6	19.7	19.0	18.3

1/ Average farm yield across harvested acreage of plantcane, 1st and 2nd stubble crops.
 2/ Average yield in tons per acre multiplied by a 220 CRS.
 3/ Assumes a standard land rotation of 25.0% each of plantcane, 1st stubble, 2nd stubble, and fallow/plant.
 4/ Breakeven prices are calculated by dividing grower's share of production (48.8% for 1/5 crop share rent, 50.8% for 1/6 crop share rent, and 52.3% for 1/7 crop share rent) into direct costs, total specified costs, and total specified costs plus overhead. Charges for management, risk and additional farm overhead expenses are excluded.
Breakeven sugar price excludes molasses payment. Mill share assumed to be 39.0%.

Table 1C. Breakeven Raw Sugar Yields for Selected Yields and Rental Arrangements, 4-Year Rotation, Harvest through 2nd stubble, Tenant-Operators, Louisiana, 2016.

	Selected Price Levels				
	-2.0	-1.0	Base	+1.0	+2.0
Raw sugar price (cents per pound)	22.0	23.0	24.0	25.0	26.0
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,226	4,999	4,790	4,599	4,422
Total specified costs	7,165	6,854	6,568	6,305	6,063
Total costs plus overhead	7,564	7,235	6,934	6,656	6,400
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,020	4,802	4,602	4,418	4,248
Total specified costs	6,883	6,584	6,310	6,057	5,824
Total costs plus overhead	7,266	6,950	6,661	6,394	6,148
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,876	4,664	4,470	4,291	4,126
Total specified costs	6,686	6,395	6,129	5,884	5,657
Total costs plus overhead	7,058	6,751	6,470	6,211	5,972

1/ Breakeven sugar yield per harvested acre to recover direct costs, total specified costs, and total costs plus overhead. Charges for management, risk and additional farm overhead expenses are excluded.
Breakeven sugar yield excludes molasses payment.

Table 2A. Projected Costs and Returns on 1,000 Acres of Sugarcane, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operator, Louisiana, 2016.

Item	Dollars Per Acre	Number of Acres	Total Dollar Value	Per Acre Dollar Value 6/	Per Pound of Sugar Value 7/
	(\$/acre)	(acres)	(\$)	(\$/acre)	(\$/lb)
GROSS VALUE OF PRODUCTION: 1/					
Sugar: (\$0.240/lb; 5,672,480 lbs)					
Plantcane (8,800 lbs/acre)	2,112.00	160.6	339,187		
1st stubble (8,184 lbs/acre)	1,964.16	200.0	392,832		
2nd stubble (6,776 lbs/acre)	1,626.24	200.0	325,248		
3rd stubble (6,336 lbs/acre)	1,520.64	200.0	304,128		
Total sugar (7,458 lbs/acre avg.)			1,361,395	1,361.40	0.240
Molasses (\$0.67/gal; 170,174 gallons)	--	--	149,753		
TOTAL GROSS VALUE			1,475,412	1,475.41	0.260
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	530,944		
Molasses	--	--	57,008		
Total mill charge			587,953	587.95	0.104
NET RETURNS TO LAND AND PRODUCER			887,459	887.46	0.156
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	138,685		
Molasses(16.7% after mill charge)	--	--	9,520		
Total land charge			148,206	148.21	0.026
PRODUCER INCOME					
Sugar and Molasses	--	--	739,254	739.25	0.130
ASCL Check Off (\$0.14 /ton)	--	--	(3,610)		
Total Income			735,644	735.64	0.130
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	108.29	200.0	21,658		
Cultured Seed Cane	521.77	3.3	1,722		
Hand Planting	209.44	3.3	691		
Harvesting Wholestalk Seedcane	66.83	39.4	2,633		
Mechanical Planting - Wholestalk	176.07	196.7	34,633		
Plant Cane Field Operations	251.77	200.0	50,354		
1st Stubble Field Operations	316.91	200.0	63,382		
2nd Stubble Field Operations	308.57	200.0	61,714		
3rd Stubble Field Operations	308.57	200.0	61,714		
Harvest for Sugar 4/	138.72	760.6	105,510		
Total variable expenses			404,011	404.01	0.071
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			331,633	331.63	0.058
FIXED PRODUCTION EXPENSES 5/		1000.0	145,959	145.96	0.026
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			185,674	185.67	0.033
FARM OVERHEAD EXPENSES		1000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			155,674	155.67	0.027

- 1/ Gross value of production is determined using estimated production from 1,000 acres of sugarcane land in an extended 5 year rotation (fallow/plant, plantcane, 1st stubble, 2nd stubble and 3rd stubble). Raw sugar is valued at 24.0 cents per pound and molasses at 67.0 cents per gallon.
- 2/ Harvested sugarcane is assumed to be transloaded to custom truck and trailer. Hauling costs from farm to mill and hauling rebate are excluded.
- 3/ Each category of production expense listed includes all variable costs associated with the specified operations including cost of inputs, labor, fuel, repairs, and interest on operating capital.
- 4/ Harvest costs are estimated assuming 100% of sugarcane is harvested with a combine harvester.
- 5/ Fixed expenses includes depreciation and interest charges on equipment used in production.
- 6/ Per acre dollar value is calculated by dividing total dollar value by total farm acreage.
- 7/ Per pound of sugar value is calculated by dividing total dollar value by total sugar production over 1,000 farm acres (5,672,480 pounds of sugar from 25,784 tons of cane).

Table 2B. Breakeven Selling Prices for Raw Sugar for Selected Yields and Rental Arrangements, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operators, Louisiana, 2016.

	-10%	-5%	Selected Yield Levels Base	+5%	+10%
Cane yield per harvested acre (tons) 1/	30.5	32.2	33.9	35.6	37.3
Sugar yield per harvested acre (lbs) 2/	6712	7085	7458	7831	8204
Sugar yield per rotational acre (lbs) 3/	5105	5389	5672	5956	6240
ONE-FIFTH LAND SHARE RENT					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.8	15.2	14.6	14.1	13.6
Total specified costs	21.7	20.7	19.9	19.1	18.4
Total costs plus overhead	22.9	21.9	21.0	20.1	19.4
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.2	14.6	14.0	13.5	13.1
Total specified costs	20.8	19.9	19.1	18.3	17.7
Total costs plus overhead	22.0	21.0	20.1	19.3	18.6
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	14.7	14.2	13.6	13.1	12.7
Total specified costs	20.2	19.3	18.5	17.8	17.2
Total costs plus overhead	21.3	20.4	19.6	18.8	18.1

- 1/ Average farm yield across harvested acreage of plantcane, 1st, 2nd, and 3rd stubble crops.
- 2/ Average yield in tons per acre multiplied by a 220 CRS.
- 3/ Assumes a standard land rotation of 20.0% each of plantcane, 1st stubble, 2nd stubble, 3rd stubble, and fallow/plant.
- 4/ Breakeven prices are calculated by dividing grower's share of production (48.8% for 1/5 crop share rent, 50.8% for 1/6 crop share rent, and 52.3% for 1/7 crop share rent) into direct costs, total specified costs, and total costs plus overhead. Charges for management, risk and additional farm overhead expenses are excluded.
Breakeven sugar price excludes molasses payment. Mill share assumed to be 39.0%.

Table 2C. Breakeven Raw Sugar Yields for Selected Yields and Rental Arrangements, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operators, Louisiana, 2016.

	-2.0	-1.0	Selected Price Levels Base	+1.0	+2.0
Raw sugar price (cents per pound)	22.0	23.0	24.0	23.0	26.0
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,948	4,732	4,535	4,354	4,186
Total specified costs	6,735	6,442	6,174	5,927	5,699
Total costs plus overhead	7,102	6,794	6,511	6,250	6,010
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,753	4,546	4,357	4,182	4,022
Total specified costs	6,470	6,189	5,931	5,693	5,475
Total costs plus overhead	6,823	6,526	6,254	6,004	5,773
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,617	4,416	4,232	4,063	3,906
Total specified costs	6,284	6,011	5,761	5,530	5,318
Total costs plus overhead	6,627	6,339	6,075	5,832	5,608

- 1/ Breakeven sugar yield per harvested acre to recover direct costs, total specified costs, and total costs plus overhead. Charges for management, risk and additional farm overhead expenses are excluded.
Breakeven sugar yield excludes molasses payment.

Table 3A. Projected Costs and Returns on 1,000 Acres of Sugarcane, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operator, Louisiana, 2016.

Item	Dollars Per Acre	Number of Acres	Total Dollar Value	Per Acre Dollar Value 6/	Per Pound of Sugar Value 7/
	(\$/acre)	(acres)	(\$)	(\$/acre)	(\$/lb)
GROSS VALUE OF PRODUCTION: 1/					
Sugar: (\$0.240/lb; 5,711,226 lbs.)					
Plantcane (8,800 lbs/acre)	2,112.00	133.9	282,797		
1st stubble (8,184 lbs/acre)	1,964.16	166.7	327,425		
2nd stubble (6,776 lbs/acre)	1,626.24	166.7	271,094		
3rd stubble (6,336 lbs/acre)	1,520.64	166.7	253,491		
4th stubble (5,896 lbs/acre)	1,415.04	166.7	235,887		
Total sugar (7,128 lbs/acre avg.)			1,370,694	1,370.69	0.240
Molasses (\$0.67/gal, 171,337 gallons)	--	--	114,796		
TOTAL GROSS VALUE			1,485,490	1,485.49	0.260
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	534,571		
Molasses	--	--	57,398		
Total mill charge			591,969	591.97	0.104
NET RETURNS TO LAND AND PRODUCER			893,521	893.52	0.156
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	139,633		
Molasses(16.7% after mill charge)	--	--	9,585		
Total land charge			149,218	149.22	0.026
PRODUCER INCOME					
Sugar and Molasses	--	--	744,303	744.30	0.130
ASCL Check Off (\$0.14 /ton)	--	--	(3,634)		
Total Income			740,669	740.67	0.130
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	108.29	166.7	18,052		
Cultured Seed Cane	521.77	2.7	1,409		
Hand Planting	209.44	2.7	565		
Wholestalk Seedcane Harvest	66.83	32.8	2,192		
Mechanical Planting - Wholestalk	176.07	164.0	28,875		
Plant Cane Field Operations	251.77	166.7	41,970		
1st Stubble Field Operations	316.91	166.7	52,829		
2nd Stubble Field Operations	308.57	166.7	51,439		
3rd Stubble Field Operations	308.57	166.7	51,439		
4th Stubble Field Operations	308.57	166.7	51,439		
Harvest for Sugar 4/	138.72	800.7	111,073		
Total variable expenses			411,282	411.28	0.072
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			329,387	329.39	0.058
FIXED PRODUCTION EXPENSES 5/		1000.0	146,009	146.01	0.026
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			183,379	183.38	0.032
FARM OVERHEAD EXPENSES		1000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			153,379	153.38	0.027

- 1/ Gross value of production is determined using estimated production from 1,000 acres of sugarcane land in an extended 6 year rotation (fallow/plant, plantcane, 1st stubble, 2nd stubble, 3rd stubble and 4th stubble). Raw sugar is valued at 24.0 cents per pound and molasses at 67.0 cents per gallon.
- 2/ Harvested sugarcane is assumed to be transloaded to custom truck and trailer. Hauling costs from farm to mill and hauling rebate are excluded.
- 3/ Each category of production expense listed includes all variable costs associated with the specified operations including cost of inputs, labor, fuel, repairs, and interest on operating capital.
- 4/ Harvest costs are estimated assuming 100% of sugarcane is harvested with a combine harvester.
- 5/ Fixed expenses includes depreciation and interest charges on equipment used in production.
- 6/ Per acre dollar value is calculated by dividing total dollar value by total farm acreage.
- 7/ Per pound of sugar value is calculated by dividing total dollar value by total sugar production over 1,000 farm acres (5,711,226 pounds of sugar from 25,960 tons of cane).

Table 3B. Breakeven Selling Prices for Raw Sugar for Selected Yields and Rental Arrangements, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operators, Louisiana, 2016.

	-10%	-5%	Selected Yield Levels Base	+5%	+10%
Cane yield per harvested acre (tons) 1/	29.2	30.8	32.4	34.0	35.6
Sugar yield per harvested acre (lbs) 2/	6415	6772	7128	7484	7841
Sugar yield per rotational acre (lbs) 3/	5140	5426	5711	5997	6282
ONE-FIFTH LAND SHARE RENT					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	17.5	16.0	14.8	13.8	13.0
Total specified costs	24.0	21.8	20.0	18.5	17.3
Total costs plus overhead	25.3	23.0	21.1	19.5	18.2
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	16.8	15.3	14.2	13.2	12.4
Total specified costs	23.0	20.9	19.2	17.8	16.6
Total costs plus overhead	24.3	22.1	20.2	18.7	17.5
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	16.3	14.9	13.8	12.9	12.1
Total specified costs	22.4	20.3	18.7	17.3	16.2
Total costs plus overhead	23.7	21.4	19.7	18.2	17.0

- 1/ Average farm yield across harvested acreage of plantcane, 1st, 2nd, 3rd and 4th stubble crops.
2/ Average yield in tons per acre multiplied by a 220 CRS.
3/ Assumes a standard land rotation of 16.7% each of plantcane, 1st stubble, 2nd stubble, 3rd stubble, 4th stubble and fallow/plant.
4/ Breakeven prices are calculated by dividing grower's share of production (48.8% for 1/5 crop share rent, 50.8% for 1/6 crop share rent, and 52.3% for 1/7 crop share rent) into direct costs, total specified costs, and total specified costs plus overhead. Charges for management, risk and additional farm overhead expenses are excluded.
Breakeven sugar price excludes molasses payment. Mill share assumed to be 39.0%.

Table 3C. Breakeven Raw Sugar Yields for Selected Yields and Rental Arrangements, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operators, Louisiana, 2016.

	-2.0	-1.0	Selected Price Levels Base	+1.0	+2.0
Raw sugar price (cents per pound)	22.0	23.0	24.0	25.0	26.0
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,785	4,577	4,387	4,211	4,049
Total specified costs	6,484	6,202	5,944	5,706	5,487
Total costs plus overhead	6,833	6,536	6,264	6,013	5,782
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,597	4,397	4,214	4,045	3,890
Total specified costs	6,229	5,958	5,710	5,481	5,271
Total costs plus overhead	6,564	6,279	6,017	5,777	5,554
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,465	4,271	4,093	3,929	3,778
Total specified costs	6,050	5,787	5,546	5,324	5,119
Total costs plus overhead	6,367	6,099	5,845	5,611	5,395

- 1/ Breakeven sugar yield per harvested acre to recover direct costs, total specified costs, and total costs plus overhead. Charges for management, risk and additional farm overhead expenses are excluded.
Breakeven sugar yield excludes molasses payment.

Table 4.A Estimated costs per acre, Breaking stubble, fallow activities & seedbed preparation, Sugarcane, Louisiana 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Roundup Power Max	pt	1.25	2.7500	3.44	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
LA Hired Labor					
Tractors	hour	10.18	2.7675	28.15	_____
DIESEL FUEL					
Tractors	gal	2.00	21.8864	43.79	_____
REPAIR & MAINTENANCE					
Implements	acre	11.09	1.0000	11.09	_____
Tractors	acre	12.46	1.0000	12.46	_____
INTEREST ON OP. CAP.	acre	2.36	1.0000	2.36	_____
TOTAL DIRECT EXPENSES				108.29	_____
FIXED EXPENSES					
Implements	acre	15.44	1.0000	15.44	_____
Tractors	acre	76.57	1.0000	76.57	_____
TOTAL FIXED EXPENSES				92.01	_____
TOTAL SPECIFIED EXPENSES				200.30	_____

Table 4.B Estimated resource use and costs for field operations, per acre Breaking stubble, fallow activities & seedbed preparation, Sugarcane, Louisiana 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
SC Disk	20 ft	MFWD 190	0.100	2.00	Mar	5.04	7.08	1.54	2.13	0.20	2.04				17.83
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Mar	5.54	7.78	0.97	1.20	0.21	2.24				17.73
SC Land Plane	15 ft	MFWD 150	0.300	2.00	Apr	12.07	16.83	1.32	2.75	0.60	6.11				39.08
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Apr	5.54	7.78	0.97	1.20	0.21	2.24				17.73
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	2.52	3.54	0.77	1.06	0.10	1.02				8.91
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	2.52	3.54	0.77	1.06	0.10	1.02				8.91
SC 5Row (Marker)	18 ft	MFWD 150	0.075	1.00	May	1.51	2.10	0.37	0.43	0.07	0.76				5.17
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	2.00	May	3.02	4.20	0.86	1.04	0.15	1.53				10.65
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.71	0.57	0.13	0.13	0.08	0.81				2.35
Subsoiler	3 shank	MFWD 190	0.204	0.50	May	2.57	3.62	0.12	0.30	0.10	1.04				7.65
SC Chisel Plow	23 ft	MFWD 190	0.120	0.50	May	1.51	2.13	0.25	0.66	0.06	0.61				5.16
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	2.00	May	3.02	4.20	0.86	1.04	0.15	1.53				10.65
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Jun	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Roundup Power Max	pt											1.3750	1.25	1.72	1.72
SC 5Row (Plow)	18 ft	MFWD 150	0.075	1.00	Jul	1.51	2.10	0.69	0.84	0.07	0.76				5.90
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Jul	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Aug	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Roundup Power Max	pt											1.3750	1.25	1.72	1.72
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Aug	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Aug	0.71	0.57	0.13	0.13	0.08	0.81				2.35
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						56.25	76.57	11.09	15.44	2.76	28.15			10.44	197.94
INTEREST ON OPERATING CAPITAL															2.36
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															200.30

Table 5.A Estimated costs per acre,
Cultured seed cane,
Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
SEED/PLANTS					
SC Cultured seedcane	acre	484.00	1.0000	484.00	_____
LA Hired Labor					
Self-Propelled	hour	10.18	0.3303	3.36	_____
DIESEL FUEL					
Self-Propelled	gal	2.00	2.1021	4.20	_____
REPAIR & MAINTENANCE					
Self-Propelled	acre	7.74	1.0000	7.74	_____
INTEREST ON OP. CAP.	acre	22.47	1.0000	22.47	_____

TOTAL DIRECT EXPENSES				521.77	_____
FIXED EXPENSES					
Self-Propelled	acre	12.88	1.0000	12.88	_____

TOTAL FIXED EXPENSES				12.88	_____

TOTAL SPECIFIED EXPENSES				534.65	_____

Table 5.B Estimated resource use and costs for field operations, per acre
Cultured seed cane,
Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
SC Cultured seedcane	acre		1.00	Sep								1.0000	484.00	484.00	484.00
SC Loader 2Rw	12 ft		0.300	1.00	Sep	11.94	12.88			0.33	3.36				28.18
TOTALS						11.94	12.88	0.00	0.00	0.33	3.36			484.00	512.18
INTEREST ON OPERATING CAPITAL															22.47
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															534.65

Table 6.A Estimated costs per acre,
 Wholestalk seedcane harvest,
 Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.4268	6.53	_____
LA Hired Labor					
Tractors	hour	10.18	0.6300	6.41	_____
Self-Propelled	hour	10.18	0.3303	3.36	_____
DIESEL FUEL					
Tractors	gal	2.00	4.5553	9.11	_____
Self-Propelled	gal	2.00	5.2061	10.41	_____
REPAIR & MAINTENANCE					
Implements	acre	0.76	1.0000	0.76	_____
Tractors	acre	2.65	1.0000	2.65	_____
Self-Propelled	acre	24.72	1.0000	24.72	_____
INTEREST ON OP. CAP.	acre	2.88	1.0000	2.88	_____
TOTAL DIRECT EXPENSES				66.83	_____
FIXED EXPENSES					
Implements	acre	0.99	1.0000	0.99	_____
Tractors	acre	15.98	1.0000	15.98	_____
Self-Propelled	acre	34.58	1.0000	34.58	_____
TOTAL FIXED EXPENSES				51.55	_____
TOTAL SPECIFIED EXPENSES				118.38	_____

Table 6.B Estimated resource use and costs for field operations, per acre
 Wholestalk seedcane harvest,
 Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	
						-----dollars-----				dollars		-----dollars-----		
SC Harvester 2Rw	12 ft		0.388	1.00	Sep	23.19	21.70			0.42	6.53			51.42
SC Loader 2Rw	12 ft		0.300	1.00	Sep	11.94	12.88			0.33	3.36			28.18
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Sep	11.05	15.41	0.63	0.86	0.55	5.60			33.55
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.71	0.57	0.13	0.13	0.08	0.81			2.35
TOTALS						46.89	50.56	0.76	0.99	1.38	16.30		0.00	115.50
INTEREST ON OPERATING CAPITAL														2.88
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														118.38

Table 7.A Estimated costs per acre,
Billet seedcane harvest,
Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.7700	11.78	_____
LA Hired Labor					
Tractors	hour	10.18	0.7400	7.53	_____
DIESEL FUEL					
Tractors	gal	2.00	5.4046	10.81	_____
Self-Propelled	gal	2.00	8.4000	16.80	_____
REPAIR & MAINTENANCE					
Implements	acre	5.46	1.0000	5.46	_____
Tractors	acre	3.16	1.0000	3.16	_____
Self-Propelled	acre	27.07	1.0000	27.07	_____
INTEREST ON OP. CAP.	acre	3.71	1.0000	3.71	_____
TOTAL DIRECT EXPENSES				86.32	_____
FIXED EXPENSES					
Implements	acre	4.20	1.0000	4.20	_____
Tractors	acre	19.06	1.0000	19.06	_____
Self-Propelled	acre	32.47	1.0000	32.47	_____
TOTAL FIXED EXPENSES				55.73	_____
TOTAL SPECIFIED EXPENSES				142.05	_____

Table 7.B Estimated resource use and costs for field operations, per acre
Billet seedcane harvest,
Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	
						-----dollars-----				dollars		-----dollars-----		
SC Billet Harvester	6 ft		0.700	1.00	Sep	43.87	32.47			0.77	11.78			88.12
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Sep	13.26	18.49	5.33	4.07	0.66	6.72			47.87
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.71	0.57	0.13	0.13	0.08	0.81			2.35
TOTALS						57.84	51.53	5.46	4.20	1.51	19.31			138.34
INTEREST ON OPERATING CAPITAL													0.00	3.71
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														142.05

Table 8.A Estimated costs per acre,
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lb	11.20	1.5000	16.80	_____
Prowl 3.3 EC	pt	5.62	7.2000	40.46	_____
LA SC Planting Labor					
Special Labor	acre	25.00	3.0000	75.00	_____
LA Hired Labor					
Tractors	hour	10.18	2.0700	21.05	_____
DIESEL FUEL					
Tractors	gal	2.00	15.5083	31.03	_____
REPAIR & MAINTENANCE					
Implements	acre	15.13	1.0000	15.13	_____
Tractors	acre	9.02	1.0000	9.02	_____
INTEREST ON OP. CAP.	acre	0.95	1.0000	0.95	_____
TOTAL DIRECT EXPENSES				209.44	_____
FIXED EXPENSES					
Implements	acre	23.74	1.0000	23.74	_____
Tractors	acre	54.60	1.0000	54.60	_____
TOTAL FIXED EXPENSES				78.34	_____
TOTAL SPECIFIED EXPENSES				287.78	_____

Table 8.B Estimated resource use and costs for field operations, per acre
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
-----dollars-----															
SC Rototiller	18 ft	MFWD 190	0.219	1.00	Sep	5.54	7.78	3.52	3.56	0.21	2.24				22.64
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Sep	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC 5Row (Opener)	18 ft	MFWD 150	0.075	1.00	Sep	1.51	2.10	0.29	0.36	0.07	0.76				5.02
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Cane Planters Aid	6 ft	MFWD 150	1.000	1.00	Sep	20.10	28.02	8.44	17.37	1.00	10.18				84.11
LA SC Planting Labor	acre									3.00	75.00				75.00
SC 5Row (Cover)	18 ft	MFWD 150	0.075	1.00	Sep	1.51	2.10	0.90	0.27	0.07	0.76				5.54
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.83	5.33	0.47	0.47	0.19	1.94				12.04
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Sep	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Sencor DF	lb											1.5000	11.20	16.80	16.80
Prowl 3.3 EC	pt											7.2000	5.62	40.46	40.46
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Oct	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Oct	0.71	0.57	0.13	0.13	0.08	0.81				2.35
TOTALS						40.05	54.60	15.13	23.74	5.07	96.05				286.83
INTEREST ON OPERATING CAPITAL															0.95
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															287.78

Table 9.A Estimated costs per acre,
Mechanical planting, 1-Row
Wholestalk, Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lb	11.20	1.5000	16.80	_____
Prowl 3.3 EC	pt	5.62	7.2000	40.46	_____
LA SC Planting Labor					
Special Labor	acre	25.00	2.0000	50.00	_____
LA Hired Labor					
Tractors	hour	10.18	1.7400	17.69	_____
DIESEL FUEL					
Tractors	gal	2.00	12.9604	25.94	_____
REPAIR & MAINTENANCE					
Implements	acre	10.38	1.0000	10.38	_____
Tractors	acre	7.48	1.0000	7.48	_____
INTEREST ON OP. CAP.	acre	7.32	1.0000	7.32	_____
TOTAL DIRECT EXPENSES				176.07	_____
FIXED EXPENSES					
Implements	acre	13.96	1.0000	13.96	_____
Tractors	acre	45.35	1.0000	45.35	_____
TOTAL FIXED EXPENSES				59.31	_____
TOTAL SPECIFIED EXPENSES				235.38	_____

Table 9.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
SC Rototiller	18 ft	MFWD 190	0.219	1.00	Sep	5.54	7.78	3.52	3.56	0.21	2.24				22.64
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Sep	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC 5Row (Opener)	18 ft	MFWD 150	0.075	1.00	Sep	1.51	2.10	0.29	0.36	0.07	0.76				5.02
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Cane Plt-Whlstalk	6 ft	MFWD 150	0.670	1.00	Sep	13.47	18.77	3.69	7.59	0.67	6.82				50.34
LA SC Planting Labor	acre									2.00	50.00				50.00
SC 5Row (Cover)	18 ft	MFWD 150	0.075	1.00	Sep	1.51	2.10	0.90	0.27	0.07	0.76				5.54
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.83	5.33	0.47	0.47	0.19	1.94				12.04
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Sencor DF	lb											1.5000	11.20	16.80	16.80
Prowl 3.3 EC	pt											7.2000	5.62	40.46	40.46
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Nov	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.71	0.57	0.13	0.13	0.08	0.81				2.35
TOTALS						33.42	45.35	10.38	13.96	3.74	67.69			57.26	228.06
INTEREST ON OPERATING CAPITAL															7.32
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															235.38

Table 10.A Estimated costs per acre,
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lb	11.20	1.5000	16.80	_____
Prowl 3.3 EC	pt	5.62	7.2000	40.46	_____
LA SC Planting Labor					
Special Labor	acre	25.00	1.0000	25.00	_____
LA Hired Labor					
Tractors	hour	10.18	1.7400	17.69	_____
DIESEL FUEL					
Tractors	gal	2.00	12.9604	25.94	_____
REPAIR & MAINTENANCE					
Implements	acre	10.38	1.0000	10.38	_____
Tractors	acre	7.48	1.0000	7.48	_____
INTEREST ON OP. CAP.	acre	6.20	1.0000	6.20	_____

TOTAL DIRECT EXPENSES				149.95	_____
FIXED EXPENSES					
Implements	acre	13.96	1.0000	13.96	_____
Tractors	acre	45.35	1.0000	45.35	_____

TOTAL FIXED EXPENSES				59.31	_____

TOTAL SPECIFIED EXPENSES				209.26	_____

Table 10.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
-----dollars-----															
SC Rototiller	18 ft	MFWD 190	0.219	1.00	Sep	5.54	7.78	3.52	3.56	0.21	2.24				22.64
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Sep	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC 5Row (Opener)	18 ft	MFWD 150	0.075	1.00	Sep	1.51	2.10	0.29	0.36	0.07	0.76				5.02
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Cane Plt-1R Bille	1 row	MFWD 150	0.670	1.00	Sep	13.47	18.77	3.69	7.59	0.67	6.82				50.34
LA SC Planting Labor	acre									1.00	25.00				25.00
SC 5Row (Cover)	18 ft	MFWD 150	0.075	1.00	Sep	1.51	2.10	0.90	0.27	0.07	0.76				5.54
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.83	5.33	0.47	0.47	0.19	1.94				12.04
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Sencor DF	lb											1.5000	11.20	16.80	16.80
Prowl 3.3 EC	pt											7.2000	5.62	40.46	40.46
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Nov	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.71	0.57	0.13	0.13	0.08	0.81				2.35
TOTALS						33.42	45.35	10.38	13.96	2.74	42.69				203.06
INTEREST ON OPERATING CAPITAL															6.20
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															209.26

Table 11.A Estimated costs per acre,
Plant cane field operations,
Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	4.00	2.0000	8.00	_____
FERTILIZERS					
LA Nitrogen	lb	0.43	80.0000	34.40	_____
LA Potash	lb	0.35	80.0000	28.00	_____
HERBICIDES					
Sencor DF	lb	11.20	0.7500	8.40	_____
Prowl 3.3 EC	pt	5.62	3.6000	20.23	_____
LA Weedmaster	qt	7.25	0.7500	5.44	_____
LA Asulox/Asulam	gal	38.80	0.5000	19.40	_____
Treflan HFP	pt	2.90	4.0000	11.60	_____
Atrazine 4L	pt	1.50	4.0000	6.00	_____
INSECTICIDES					
Confirm 2F	oz	1.86	16.0000	29.76	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	5.35	3.2000	17.12	_____
LA Hired Labor					
Tractors	hour	10.18	1.6679	16.93	_____
DIESEL FUEL					
Tractors	gal	2.00	11.3340	22.68	_____
REPAIR & MAINTENANCE					
Implements	acre	5.17	1.0000	5.17	_____
Tractors	acre	6.37	1.0000	6.37	_____
INTEREST ON OP. CAP.	acre	5.27	1.0000	5.27	_____
TOTAL DIRECT EXPENSES				251.77	_____
FIXED EXPENSES					
Implements	acre	6.58	1.0000	6.58	_____
Tractors	acre	38.35	1.0000	38.35	_____
TOTAL FIXED EXPENSES				44.93	_____
TOTAL SPECIFIED EXPENSES				296.70	_____

Table 11.B Estimated resource use and costs for field operations, per acre
 Plant cane field operations,
 Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	1.00	Feb	1.51	2.10	0.43	0.52	0.07	0.76					5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.71	0.57	0.13	0.13	0.08	0.81					2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.41	3.36	0.26	0.28	0.12	1.22					7.53
Sencor DF	lb											0.7500	11.20	8.40		8.40
Prowl 3.3 EC	pt											3.6000	5.62	20.23		20.23
LA Weedmaster	qt											0.7500	7.25	5.44		5.44
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	2.62	3.64	0.36	0.55	0.13	1.32					8.49
LA Nitrogen	lb											80.0000	0.43	34.40		34.40
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	2.00	Mar	3.02	4.20	0.86	1.04	0.15	1.53					10.65
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.71	0.57	0.13	0.13	0.08	0.81					2.35
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Apr	1.21	1.68	0.23	0.32	0.05	0.61					4.05
LA Potash	lb											80.0000	0.35	28.00		28.00
Disk Bed (Hipper)	4R-38	MFWD 150	0.147	1.00	Apr	2.97	4.14	0.31	0.82	0.14	1.50					9.74
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.71	0.57	0.13	0.13	0.08	0.81					2.35
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Apr	1.51	2.10	0.43	0.52	0.07	0.76					5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.71	0.57	0.13	0.13	0.08	0.81					2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.41	3.36	0.26	0.28	0.12	1.22					7.53
LA Asulox/Asulam	gal											0.5000	38.80	19.40		19.40
Surfactant	pt											1.6000	5.35	8.56		8.56
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.51	2.10	0.43	0.52	0.07	0.76					5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.71	0.57	0.13	0.13	0.08	0.81					2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.41	3.36	0.26	0.28	0.12	1.22					7.53
Treflan HFP	pt											4.0000	2.90	11.60		11.60
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.51	2.10	0.43	0.52	0.07	0.76					5.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.41	3.36	0.26	0.28	0.12	1.22					7.53
Atrazine 4L	pt											4.0000	1.50	6.00		6.00
Surfactant	pt											1.6000	5.35	8.56		8.56
App by Air (2 gal)	appl			1.00	Jun							1.0000	4.00	4.00		4.00
Confirm 2F	oz											8.0000	1.86	14.88		14.88
App by Air (2 gal)	appl			1.00	Jul							1.0000	4.00	4.00		4.00
Confirm 2F	oz											8.0000	1.86	14.88		14.88
Crop Consultant	acre			1.00	Aug							1.0000	7.00	7.00		7.00
TOTALS						29.05	38.35	5.17	6.58	1.66	16.93				195.35	291.43
INTEREST ON OPERATING CAPITAL																5.27
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																296.70

Table 12.A Estimated costs per acre,
 First Stubble field operations,
 Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	4.00	3.0000	12.00	_____
FERTILIZERS					
LA Nitrogen	lb	0.43	100.0000	43.00	_____
LA Phosphate	lb	0.54	40.0000	21.60	_____
LA Potash	lb	0.35	100.0000	35.00	_____
Sulfur	lb	0.34	24.0000	8.16	_____
HERBICIDES					
Sencor DF	lb	11.20	0.7500	8.40	_____
Prowl 3.3 EC	pt	5.62	3.6000	20.23	_____
LA Weedmaster	qt	7.25	0.7500	5.44	_____
LA Asulox/Asulam	gal	38.80	0.5000	19.40	_____
Treflan HFP	pt	2.90	4.0000	11.60	_____
Atrazine 4L	pt	1.50	4.0000	6.00	_____
INSECTICIDES					
Confirm 2F	oz	1.86	16.0000	29.76	_____
GROWTH REGULATORS					
LA Polado	oz	0.13	8.0000	1.04	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	5.35	4.8000	25.68	_____
LA Hired Labor					
Tractors	hour	10.18	1.7904	18.18	_____
DIESEL FUEL					
Tractors	gal	2.00	12.2793	24.57	_____
REPAIR & MAINTENANCE					
Implements	acre	5.98	1.0000	5.98	_____
Tractors	acre	6.94	1.0000	6.94	_____
INTEREST ON OP. CAP.	acre	6.93	1.0000	6.93	_____
TOTAL DIRECT EXPENSES				316.91	_____
FIXED EXPENSES					
Implements	acre	7.10	1.0000	7.10	_____
Tractors	acre	41.77	1.0000	41.77	_____
TOTAL FIXED EXPENSES				48.87	_____
TOTAL SPECIFIED EXPENSES				365.78	_____

Table 12.B Estimated resource use and costs for field operations, per acre
 First Stubble field operations,
 Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
-----dollars-----															
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Feb	3.02	4.20	0.86	1.05	0.15	1.53				10.66
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Sencor DF	lb											0.7500	11.20	8.40	8.40
Prowl 3.3 EC	pt											3.6000	5.62	20.23	20.23
LA Weedmaster	qt											0.7500	7.25	5.44	5.44
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	2.62	3.64	0.36	0.55	0.13	1.32				8.49
LA Nitrogen	lb											100.0000	0.43	43.00	43.00
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Mar	3.02	4.20	0.86	1.05	0.15	1.53				10.66
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.21	1.68	0.23	0.32	0.05	0.61				4.05
LA Phosphate	lb											40.0000	0.54	21.60	21.60
LA Potash	lb											100.0000	0.35	35.00	35.00
Sulfur	lb											24.0000	0.34	8.16	8.16
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Mar	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Surfactant	pt											1.6000	5.35	8.56	8.56
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Apr	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.41	3.36	0.26	0.28	0.12	1.22				7.53
LA Asulox/Asulam	gal											0.5000	38.80	19.40	19.40
Surfactant	pt											1.6000	5.35	8.56	8.56
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Treflan HFP	pt											4.0000	2.90	11.60	11.60
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Atrazine 4L	pt											4.0000	1.50	6.00	6.00
Surfactant	pt											1.6000	5.35	8.56	8.56
App by Air (2 gal)	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Confirm 2F	oz											8.0000	1.86	14.88	14.88
App by Air (2 gal)	appl			1.00	Jul							1.0000	4.00	4.00	4.00
Confirm 2F	oz											8.0000	1.86	14.88	14.88
App by Air (2 gal)	appl			1.00	Sep							1.0000	4.00	4.00	4.00
LA Polado	oz											8.0000	0.13	1.04	1.04
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						31.51	41.77	5.98	7.10	1.79	18.18			254.31	358.85
INTEREST ON OPERATING CAPITAL															6.93
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															365.78

Table 13.A Estimated costs per acre,
 Second Stubble and older field operations,
 Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	4.00	3.0000	12.00	_____
FERTILIZERS					
LA Nitrogen	lb	0.43	110.0000	47.30	_____
LA Phosphate	lb	0.54	40.0000	21.60	_____
LA Potash	lb	0.35	100.0000	35.00	_____
Sulfur	lb	0.34	24.0000	8.16	_____
HERBICIDES					
Sencor DF	lb	11.20	0.7500	8.40	_____
Prowl 3.3 EC	pt	5.62	3.6000	20.23	_____
LA Weedmaster	qt	7.25	0.7500	5.44	_____
LA Asulox/Asulam	gal	38.80	0.5000	19.40	_____
Treflan HFP	pt	2.90	4.0000	11.60	_____
Atrazine 4L	pt	1.50	4.0000	6.00	_____
INSECTICIDES					
Confirm 2F	oz	1.86	16.0000	29.76	_____
GROWTH REGULATORS					
LA Polado	oz	0.13	8.0000	1.04	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	5.35	3.2000	17.12	_____
LA Hired Labor					
Tractors	hour	10.18	1.6703	16.96	_____
DIESEL FUEL					
Tractors	gal	2.00	11.3525	22.72	_____
REPAIR & MAINTENANCE					
Implements	acre	5.72	1.0000	5.72	_____
Tractors	acre	6.38	1.0000	6.38	_____
INTEREST ON OP. CAP.	acre	6.74	1.0000	6.74	_____
TOTAL DIRECT EXPENSES				308.57	_____
FIXED EXPENSES					
Implements	acre	6.82	1.0000	6.82	_____
Tractors	acre	38.41	1.0000	38.41	_____
TOTAL FIXED EXPENSES				45.23	_____
TOTAL SPECIFIED EXPENSES				353.80	_____

Table 13.B Estimated resource use and costs for field operations, per acre
 Second Stubble and older field operations,
 Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Feb	3.02	4.20	0.86	1.05	0.15	1.53				10.66
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	2.62	3.64	0.36	0.55	0.13	1.32				8.49
LA Nitrogen	lb											110.0000	0.43	47.30	47.30
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Mar	3.02	4.20	0.86	1.05	0.15	1.53				10.66
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.21	1.68	0.23	0.32	0.05	0.61				4.05
LA Phosphate	lb											40.0000	0.54	21.60	21.60
LA Potash	lb											100.0000	0.35	35.00	35.00
Sulfur	lb											24.0000	0.34	8.16	8.16
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Mar	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Sencor DF	lb											0.7500	11.20	8.40	8.40
Prowl 3,3 EC	pt											3.6000	5.62	20.23	20.23
LA Weedmaster	qt											0.7500	7.25	5.44	5.44
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Apr	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.41	3.36	0.26	0.28	0.12	1.22				7.53
LA Asulox/Asulam	gal											0.5000	38.80	19.40	19.40
Surfactant	pt											1.6000	5.35	8.56	8.56
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.71	0.57	0.13	0.13	0.08	0.81				2.35
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Treflan HFP	pt											4.0000	2.90	11.60	11.60
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.51	2.10	0.43	0.52	0.07	0.76				5.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.41	3.36	0.26	0.28	0.12	1.22				7.53
Atrazine 4L	pt											4.0000	1.50	6.00	6.00
Surfactant	pt											1.6000	5.35	8.56	8.56
App by Air (2 gal)	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Confirm 2F	oz											8.0000	1.86	14.88	14.88
App by Air (2 gal)	appl			1.00	Jul							1.0000	4.00	4.00	4.00
Confirm 2F	oz											8.0000	1.86	14.88	14.88
App by Air (2 gal)	appl			1.00	Aug							1.0000	4.00	4.00	4.00
LA Polado	oz											8.0000	0.13	1.04	1.04
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						29.10	38.41	5.72	6.82	1.67	16.96			250.05	347.06
INTEREST ON OPERATING CAPITAL															6.74
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															353.80

Table 14.A Estimated costs per acre,
Harvest-1R Combine Harvester, 10-Ton High Dump wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.7700	11.78	_____
LA Hired Labor					
Tractors	hour	10.18	2.0600	20.97	_____
DIESEL FUEL					
Tractors	gal	2.00	15.5962	31.19	_____
Self-Propelled	gal	2.00	8.4000	16.80	_____
REPAIR & MAINTENANCE					
Implements	acre	16.12	1.0000	16.12	_____
Tractors	acre	9.30	1.0000	9.30	_____
Self-Propelled	acre	27.07	1.0000	27.07	_____
INTEREST ON OP. CAP.	acre	5.49	1.0000	5.49	_____
TOTAL DIRECT EXPENSES				138.72	_____
FIXED EXPENSES					
Implements	acre	12.34	1.0000	12.34	_____
Tractors	acre	56.04	1.0000	56.04	_____
Self-Propelled	acre	32.47	1.0000	32.47	_____
TOTAL FIXED EXPENSES				100.85	_____
TOTAL SPECIFIED EXPENSES				239.57	_____

Table 14.B Estimated resource use and costs for field operations, per acre
Harvest-1R Combine Harvester, 10-Ton High Dump wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	
						-----dollars-----				dollars		-----dollars-----		
SC Billet Harvester	6 ft		0.700	1.00	Nov	43.87	32.47	5.33	4.07	0.77	11.78			88.12
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Nov	13.26	18.49	5.33	4.07	0.66	6.72			47.87
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Nov	13.26	18.49	5.33	4.07	0.66	6.72			47.87
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Nov	13.26	18.49	5.33	4.07	0.66	6.72			47.87
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.71	0.57	0.13	0.13	0.08	0.81			2.35
TOTALS						84.36	88.51	16.12	12.34	2.83	32.75		0.00	234.08
INTEREST ON OPERATING CAPITAL														5.49
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														239.57

Table 15.A Estimated costs per acre,
Harvest-2-row Wholestalk, 10-ton transfer wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.4268	6.53	_____
LA Hired Labor					
Tractors	hour	10.18	1.2499	12.73	_____
Self-Propelled	hour	10.18	0.6053	6.16	_____
DIESEL FUEL					
Tractors	gal	2.00	9.0717	18.14	_____
Self-Propelled	gal	2.00	6.3811	12.76	_____
REPAIR & MAINTENANCE					
Implements	acre	1.51	1.0000	1.51	_____
Tractors	acre	5.35	1.0000	5.35	_____
Self-Propelled	acre	28.47	1.0000	28.47	_____
INTEREST ON OP. CAP.	acre	3.78	1.0000	3.78	_____
TOTAL DIRECT EXPENSES				95.43	_____
FIXED EXPENSES					
Implements	acre	2.14	1.0000	2.14	_____
Tractors	acre	32.21	1.0000	32.21	_____
Self-Propelled	acre	41.24	1.0000	41.24	_____
TOTAL FIXED EXPENSES				75.59	_____
TOTAL SPECIFIED EXPENSES				171.02	_____

Table 15.B Estimated resource use and costs for field operations, per acre
Harvest-2R Wholestalk, 10-ton transfer wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	
SC Harvester 2Rw	12 ft		0.388	1.00	Nov	23.19	21.70			0.42	6.53			51.42
SC Burning Unit	18 ft	MFWD 75	0.149	1.00	Nov	1.39	1.39	0.25	0.42	0.14	1.53			4.98
SC Loader 2Rw	12 ft		0.300	1.00	Nov	11.94	12.88			0.33	3.36			28.18
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	11.05	15.41	0.63	0.86	0.55	5.60			33.55
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	11.05	15.41	0.63	0.86	0.55	5.60			33.55
SC Transloader			0.250	1.00	Nov	6.10	6.66			0.27	2.80			15.56
TOTALS						64.72	73.45	1.51	2.14	2.28	25.42		0.00	167.24
INTEREST ON OPERATING CAPITAL														3.78
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														171.02

Appendix Table 1. Estimated fuel prices, labor wage rates, and interest rates, Louisiana 2016.

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.00
Gasoline	gal	2.25
LABOR TYPES		
Operator	hour	15.30
Hired	hour	10.18
Special	acre	25.00
INTEREST RATES		
Short-term	%	4.50
Intermediate-term	%	5.00

Appendix Table 2. Tractors: estimated useful life, annual use, purchase price, repair cost, fuel consumption rate, and direct and fixed cost per hour, Louisiana 2016.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hr-----					
Tractor(40-59hp)Cab	2WD 50	31,100	600	8	2.57	10.18	5.14	0.97	16.29	5.84	22.14
Tractor(40-59hp)Cab	MFWD 50	38,100	600	8	2.57	10.18	5.14	1.19	16.51	7.16	23.68
Tractor(40-59hp)RB	2WD 50	18,500	600	8	2.57	10.18	5.14	0.57	15.90	3.47	19.38
Tractor(40-59hp)RB	MFWD 50	23,600	600	8	2.57	10.18	5.14	0.73	16.06	4.43	20.50
Tractor(60-89hp)CAB	2WD 75	47,700	600	8	3.86	10.18	7.72	1.49	19.39	8.97	28.36
Tractor(60-89hp)CAB	MFWD 75	49,300	600	8	3.86	10.18	7.72	1.54	19.44	9.27	28.71
Tractor(60-89hp)RB	2WD 75	37,000	600	8	3.86	10.18	7.72	1.15	19.05	6.95	26.01
Tractor(60-89hp)RB	MFWD 75	37,800	600	8	3.86	10.18	7.72	1.18	19.08	7.10	26.19
Tractor(90-119hp)CB	2WD 105	65,300	600	8	5.40	10.18	10.80	2.04	23.02	12.28	35.30
Tractor(90-119hp)CB	MFWD 105	78,300	600	8	5.40	10.18	10.80	2.44	23.43	14.72	38.16
Tractor(90-119hp)RB	2WD 105	59,900	600	8	5.40	10.18	10.80	1.87	22.86	11.26	34.12
Tractor(90-119hp)RB	MFWD 105	60,300	600	8	5.40	10.18	10.80	1.88	22.87	11.33	34.21
Tractor(120-139hp)CB	2WD 130	96,300	600	8	6.69	10.18	13.38	3.00	26.57	18.10	44.68
Tractor(120-139hp)CB	MFWD 130	116,000	600	8	6.69	10.18	13.38	3.62	27.18	21.81	49.00
Tractor(140-159hp)CB	2WD 150	108,000	600	8	7.72	10.18	15.44	3.37	28.99	20.30	49.30
Tractor(140-159hp)CB	MFWD 150	149,000	600	8	7.72	10.18	15.44	4.65	30.27	28.02	58.29
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	10.18	17.50	4.87	32.55	30.69	63.25
Tractor(160-179hp)CB	MFWD 170	166,000	600	8	8.75	10.18	17.50	5.18	32.86	32.66	65.53
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.18	18.53	4.45	33.16	28.08	61.25
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	10.18	19.55	4.46	34.20	28.13	62.34
Tractor(180-199hp)CB	MFWD 190	180,000	600	8	9.77	10.18	19.55	5.62	35.36	35.42	70.78
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.18	23.16	4.59	37.93	28.93	66.87
Tractor(200-249hp)CB	MFWD 225	228,000	600	8	11.58	10.18	23.16	7.12	40.46	44.86	85.33
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	10.18	23.16	8.65	41.99	54.50	96.50
Tractor(250-349hp)CB	4WD 300	282,000	600	8	15.44	10.18	30.88	8.81	49.87	55.49	105.36
Tractor(250-349hp)CB	Track 300	289,000	600	8	15.44	10.18	30.88	9.03	50.09	56.86	106.96
Tractor(350-449hp)CB	4WD 400	341,000	600	8	20.58	10.18	41.17	10.65	62.01	67.10	129.11
Tractor(350-449hp)CB	Track 400	364,000	600	8	20.58	10.18	41.17	11.37	62.73	71.62	134.36
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.18	48.89	8.74	67.82	55.07	122.89

Appendix Table 3. Self-propelled machines: estimated performance rate, useful life, annual use, purchase price, repair cost, fuel consumption rate, and direct and fixed cost per hour and per acre, Louisiana 2016.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
LA Pickup Truck	1/2 ton	25,000	800	5	2.50	1.000	10.18	5.62	2.81	18.61	6.65	25.26
SC Billet Harvester	6 ft	290,000	750	10	12.00	0.700	11.78	16.80	27.06	55.64	32.47	88.11
SC Harvester 1Rw	6 ft	115,000	400	12	6.80	0.875	14.72	11.90	20.96	47.58	26.80	74.39
SC Harvester 2Rw	12 ft	210,000	400	12	8.00	0.388	6.53	6.20	16.97	29.71	21.70	51.41
SC Loader 1Rw	6 ft	85,000	425	10	5.10	0.598	6.70	6.10	8.74	21.55	14.55	36.11
SC Loader 2Rw	12 ft	150,000	425	10	7.00	0.300	3.36	4.20	7.73	15.30	12.88	28.18
SC Transloader		30,000	120	12	4.70	0.250	2.79	2.35	3.75	8.89	6.65	15.55
SC Truck&Trailer	30 Ton	45,000	400	10	7.00	1.000	11.19	14.00	7.87	33.07	13.67	46.74
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.19	0.09	0.61	0.63	1.25
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.14	0.07	0.45	0.47	0.93
Sprayer(600-750Gal)	60'	174,000	350	8	10.29	0.017	0.31	0.36	0.16	0.84	1.08	1.92
Sprayer(600-825Gal)	80'	180,000	350	8	10.29	0.013	0.23	0.27	0.12	0.63	0.83	1.47
Sprayer(600-825Gal)	90'	255,000	350	8	10.29	0.011	0.21	0.24	0.16	0.61	1.05	1.66
Sprayer(1000-1400Gal)	90'	297,000	350	8	14.15	0.014	0.25	0.39	0.22	0.87	1.47	2.35
Sprayer(1200PlusGal)	120'	336,000	350	8	15.44	0.008	0.15	0.27	0.15	0.58	1.04	1.63

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 2016.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--	Total Cost	
			dollars	hours	years	hr/ac	-----\$/acre-----							
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.22	1.86	1.43	0.56	5.08	0.44	3.37	8.90
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.22	1.85	0.68	0.55	4.32	0.82	3.36	8.51
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.22	1.85	0.58	0.55	4.22	0.69	3.36	8.28
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.22	1.85	0.69	0.55	4.32	0.83	3.36	8.52
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.22	1.85	0.46	0.55	4.10	0.56	3.36	8.03
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.22	2.34	1.11	0.67	5.35	1.34	4.25	10.95
SC 5Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.075	0.76	1.15	0.89	0.34	3.16	0.27	2.10	5.54
SC 5Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.075	0.76	1.15	0.42	0.34	2.70	0.51	2.10	5.32
SC 5Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.075	0.76	1.15	0.36	0.34	2.63	0.43	2.10	5.17
SC 5Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.075	0.76	1.15	0.43	0.34	2.70	0.52	2.10	5.32
SC 5Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.075	0.76	1.15	0.29	0.34	2.56	0.35	2.10	5.02
SC 5Row (Plow)	18 ft	MFWD 150	17,000	200	9	0.075	0.76	1.15	0.69	0.34	2.96	0.83	2.10	5.90
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	8.92	13.54	2.55	4.08	29.11	2.19	24.57	55.88
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.22	1.85	0.25	0.55	3.89	0.28	3.36	7.53
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.52	1.62	0.24	0.30	3.70	0.41	1.84	5.96
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	10.18	15.44	8.43	4.65	38.71	17.37	28.02	84.10
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	6.82	10.34	3.68	3.11	23.97	7.58	18.77	50.33
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	2.03	1.02	5.10	0.11	8.28	10.50	0.69	19.47
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	6.82	10.34	3.68	3.11	23.97	7.58	18.77	50.33
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	5.59	8.49	0.62	2.56	17.27	0.85	14.01	32.14
SC Cane Wgn Billt HD	10Ton	MFWD 150	40,000	750	9	0.600	6.71	10.19	5.33	3.07	25.31	4.06	16.81	46.19
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.23	4.29	0.96	1.23	8.73	1.20	7.78	17.72
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.22	2.34	0.49	0.67	4.73	1.31	4.25	10.30
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.11	1.18	0.29	0.22	2.82	0.46	1.35	4.64
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.11	1.92	0.39	0.53	3.97	0.54	3.37	7.90
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.42	2.16	0.32	0.47	4.39	0.45	2.84	7.69
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.52	0.77	0.56	0.08	2.94	0.77	0.52	4.24
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	1.01	1.95	0.77	0.56	4.30	1.06	3.54	8.91
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.71	1.22	0.64	0.34	2.92	0.89	2.14	5.96
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	1.01	1.75	0.40	0.48	3.66	0.56	3.06	7.29
SC Double Hitch	DBLHTCH	2WD 50	0	1000	10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SC Drain Cleaner	6 ft	MFWD 75	3,750	300	9	0.080	0.81	0.61	0.13	0.09	1.65	0.13	0.56	2.36
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.32	2.00	0.36	0.60	4.30	0.55	3.64	8.49
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.61	0.92	0.22	0.27	2.04	0.31	1.68	4.04
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	1.93	2.93	0.47	0.88	6.22	0.46	5.32	12.02
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	10.18	23.16	0.13	4.59	38.07	0.18	28.93	67.19
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	3.05	4.63	0.66	1.39	9.75	1.37	8.41	19.54
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.54	3.86	3.12	1.16	10.69	3.79	7.00	21.49
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.81	1.07	0.41	0.24	2.53	0.50	1.44	4.49
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.54	1.93	0.51	0.29	5.28	1.41	1.77	8.47
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.23	4.29	3.51	1.23	11.28	3.56	7.78	22.63
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	10.18	10.80	0.86	2.04	23.89	3.20	12.28	39.38
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.11	1.18	0.04	0.22	2.57	0.06	1.35	3.99
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	10.18	13.38	0.23	3.00	26.80	0.91	18.10	45.83
SCMechanical Planter	6 ft	MFWD 150	15,500	160	10	1.000	10.18	15.44	7.26	4.65	37.54	11.77	28.02	77.33

Appendix Table 5. Operating inputs: estimated prices, Louisiana 2016.

ITEM NAME	UNIT	PRICE	ITEM	UNIT	PRICE
dollars			dollars		
ADJUVANTS			HERBIBIDES (cont)		
Crop Oil (Seed Oil)	pt	4.44	Basagran	pt	12.90
Crop Oil (Petroleum)	pt	3.86	Command 3ME	pt	18.50
Surfactant	pt	5.35	Direx 4L	pt	4.41
CUSTOM FERT/LIME			Direx 80 DF	lb	6.20
App Fert by Air	cwt	7.00	Gramoxone Max	pt	4.06
App Fert by Air(Min)	appl	7.00	Karmex DF	lb	5.93
Custom Spread(Truc	appl	4.50	LA Asulox	gal	38.80
Lime (Spread)	ton	46.00	LA Weedmaster	qt	7.25
CUSTOM SPRAY			Prowl 3.3 EC	pt	5.62
App by Air (2 gal)	appl	4.00	Roundup Original	pt	6.00
App by Air (3 gal)	appl	5.00	Roundup Original Max	oz	0.38
App by Air (5 gal)	appl	6.50	Roundup Power MAX	pt	1.25
App by Air (10 gal)	appl	8.75	Roundup WeatherMax	oz	0.08
FERTILIZERS			Sencor 4F	pt	14.74
Amm Nitrate (34% N)	cwt	22.50	Sencor DF	lb	11.20
Amm Sulfate (21% N)	cwt	17.25	Treflan HFP	pt	2.90
Fert 10-34-0	cwt	32.50	INSECTICIDES		
Fert 41-0-0-4	cwt	20.50	Asana .66 XL	oz	0.57
LA Nitrogen	lb	0.43	Baythroid 2	oz	2.30
LA Phosphate	lb	0.54	Confirm 2F	oz	1.86
LA Potash	lb	0.35	Fury 1.5 EC	oz	1.30
Phosphorus(46% P2O5)	cwt	25.00	Karate Z	oz	3.40
Potash (60% K2O)	cwt	21.27	Mustang Max	oz	1.48
UAN (32% N)	cwt	15.95	Thimet 20-G	lb	3.60
Urea, Solid (46% N)	cwt	20.83	RIPENER		
HERBICIDES			Polado	oz	0.13
2,4-D Amine 4	pt	1.85	SEED CANE		
Atrazine 4L	pt	1.50	Cultured seedcane	acre	484.00
Atrazine 90DF	lb	3.60			