

Projected Costs and Returns Crop Enterprise Budgets for Sugarcane Production in Louisiana, 2015

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



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PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR SUGARCANE PRODUCTION IN LOUISIANA, 2015

by

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Introduction

This publication presents estimates of projected costs and returns for sugarcane production in Louisiana for the 2015 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 2015 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 2015 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 2015 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 \$9.60 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 4.4% 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 \$2.75 per gallon and \$3.40 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 4.5%. 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, 2015.

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: (\$0.88/gal; 165,422 gallons)	--	--	145,572		
TOTAL GROSS VALUE			1,468,951	1,468.95	0.266
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	516,118		
Molasses	--	--	72,786		
Total mill charge			588,904	588.90	0.107
NET RETURNS TO LAND AND PRODUCER			880,047	880.05	0.160
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	134,813		
Molasses(16.7% after mill charge)	--	--	12,155		
Total land charge			146,968	146.97	0.027
PRODUCER INCOME					
Sugar and Molasses	--	--	733,079	733.08	0.133
ASCL Check Off (\$0.14 /ton)	--	--	(3,509)		
Total Income			729,570	729.57	0.132
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	127.96	250.0	31,990		
Cultured Seed Cane	522.72	4.1	2,138		
Hand Planting	203.80	4.1	834		
Wholestalk Seedcane Harvest	73.74	49.2	3,628		
Mechanical Planting - Wholestalk	168.35	245.9	41,397		
Plant Cane Field Operations	250.47	250.0	62,618		
1st Stubble Field Operations	316.77	250.0	79,193		
2nd Stubble Field Operations	311.39	250.0	77,848		
Harvest for Sugar 4/	155.71	700.8	109,122		
Total variable expenses			408,766	408.77	0.074
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			320,805	320.80	0.058
FIXED PRODUCTION EXPENSES 5/		1,000.0	136,998	137.00	0.025
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			183,806	183.81	0.033
FARM OVERHEAD EXPENSES		1,000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			153,806	153.81	0.028

- 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 88.0 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, 2015.

	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	16.4	15.8	15.2	14.7	14.2
Total specified costs	22.1	21.1	20.3	19.5	18.8
Total costs plus overhead	23.3	22.3	21.4	20.6	19.8
ONE-SIXTH 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	21.2	20.3	19.5	18.7	18.1
Total costs plus overhead	22.4	21.4	20.6	19.8	19.0
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.3	14.7	14.2	13.7	13.2
Total specified costs	20.6	19.7	18.9	18.2	17.6
Total costs plus overhead	21.8	20.8	20.0	19.2	18.5

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, 2015.

	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	5,433	5,197	4,980	4,781	4,597
Total specified costs	7,254	6,938	6,649	6,383	6,138
Total costs plus overhead	7,653	7,320	7,015	6,734	6,475
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,219	4,992	4,784	4,593	4,416
Total specified costs	6,968	6,665	6,388	6,132	5,896
Total costs plus overhead	7,351	7,032	6,739	6,469	6,220
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,069	4,849	4,647	4,461	4,289
Total specified costs	6,768	6,474	6,204	5,956	5,727
Total costs plus overhead	7,140	6,830	6,545	6,284	6,042

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, 2015.

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 (\$0.88/gal; 170,174 gallons)	--	--	149,753		
TOTAL GROSS VALUE			1,511,149	1,511.15	0.266
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	530,944		
Molasses	--	--	74,877		
Total mill charge			605,821	605.82	0.107
NET RETURNS TO LAND AND PRODUCER					
			905,238	905.33	0.160
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	138,685		
Molasses(16.7% after mill charge)	--	--	12,504		
Total land charge			151,190	151.19	0.027
PRODUCER INCOME					
Sugar and Molasses	--	--	754,138	754.14	0.133
ASCL Check Off (\$0.14 /ton)	--	--	(3,610)		
Total Income			750,528	750.53	0.132
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	127.96	200.0	25,592		
Cultured Seed Cane	522.72	3.3	1,725		
Hand Planting	203.80	3.3	673		
Harvesting Wholestalk Seedcane	73.74	39.4	2,905		
Mechanical Planting - Wholestalk	168.35	196.7	33,144		
Plant Cane Field Operations	250.47	200.0	50,094		
1st Stubble Field Operations	316.77	200.0	63,354		
2nd Stubble Field Operations	311.39	200.0	62,278		
3rd Stubble Field Operations	311.39	200.0	65,304		
Harvest for Sugar 4/	155.71	760.6	118,433		
Total variable expenses			420,446	420.45	0.074
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES					
			330,082	330.08	0.058
FIXED PRODUCTION EXPENSES 5/					
		1000.0	137,228	137.23	0.024
RETURNS ABOVE TOTAL PRODUCTION EXPENSES					
			192,854	192.85	0.034
FARM OVERHEAD EXPENSES					
		1000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES					
			162,854	162.85	0.029

- 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 88.0 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, 2015.

	Selected Yield Levels				
	-10%	-5%	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	16.4	15.8	15.2	14.7	14.2
Total specified costs	21.9	21.0	20.1	19.4	18.7
Total costs plus overhead	23.1	22.1	21.2	20.4	19.7
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.8	15.1	14.6	14.1	13.6
Total specified costs	21.0	20.1	19.3	18.6	18.0
Total costs plus overhead	22.2	21.2	20.4	19.6	18.9
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.3	14.7	14.2	13.7	13.3
Total specified costs	20.5	19.6	18.8	18.1	17.5
Total costs plus overhead	21.6	20.7	19.8	19.1	18.4

- 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 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 2C. Breakeven Raw Sugar Yields for Selected Yields and Rental Arrangements, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operators, Louisiana, 2015.

	Selected Price Levels				
	-2.0	-1.0	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	5,149	4,925	4,720	4,531	4,357
Total specified costs	6,829	6,532	6,260	6,010	5,779
Total costs plus overhead	7,197	6,884	6,597	6,333	6,090
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,946	4,731	4,534	4,353	4,185
Total specified costs	6,561	6,275	6,014	5,773	5,551
Total costs plus overhead	6,913	6,613	6,337	6,084	5,850
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,804	4,595	4,404	4,228	4,065
Total specified costs	6,372	6,095	5,841	5,608	5,392
Total costs plus overhead	6,715	6,423	6,156	5,909	5,682

- 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, 2015.

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 (\$0.88/gal, 171,337 gallons)	--	--	150,776		
TOTAL GROSS VALUE			1,521,471	1,521.47	0.266
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	534,571		
Molasses	--	--	75,388		
Total mill charge			609,959	609.96	0.107
NET RETURNS TO LAND AND PRODUCER			911,512	911.51	0.160
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	139,633		
Molasses(16.7% after mill charge)	--	--	12,590		
Total land charge			152,222	152.22	0.027
PRODUCER INCOME					
Sugar and Molasses	--	--	759,289	759.29	0.133
ASCL Check Off (\$0.14 /ton)	--	--	(3,634)		
Total Income			755,655	755.65	0.132
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	127.96	166.7	21,331		
Cultured Seed Cane	522.72	2.7	1,411		
Hand Planting	203.80	2.7	550		
Wholestalk Seedcane Harvest	73.74	32.8	2,419		
Mechanical Planting - Wholestalk	168.35	164.0	27,609		
Plant Cane Field Operations	250.47	166.7	41,753		
1st Stubble Field Operations	316.77	166.7	52,806		
2nd Stubble Field Operations	311.39	166.7	51,909		
3rd Stubble Field Operations	311.39	166.7	51,909		
4th Stubble Field Operations	311.39	166.7	51,909		
Harvest for Sugar 4/	155.71	800.7	124,677		
Total variable expenses			428,283	428.28	0.075
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			327,372	327.37	0.057
FIXED PRODUCTION EXPENSES 5/		1000.0	137,410	137.41	0.024
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			189,963	189.96	0.033
FARM OVERHEAD EXPENSES		1000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			159,963	159.96	0.028

- 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 88.0 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, 2015.

	Selected Yield Levels				
	-10%	-5%	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	18.1	16.6	15.4	14.4	13.3
Total specified costs	24.3	22.1	20.3	18.9	17.7
Total costs plus overhead	25.6	23.3	21.4	19.8	18.6
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	17.4	15.9	14.8	13.8	13.0
Total specified costs	23.3	21.2	19.5	18.1	17.0
Total costs plus overhead	24.6	22.3	20.5	19.0	17.8
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	16.9	15.5	14.3	13.4	12.7
Total specified costs	22.6	20.6	18.9	17.6	16.5
Total costs plus overhead	23.9	21.7	20.0	18.5	17.3

- 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, 2015.

	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	4,983	4,767	4,568	4,385	4,217
Total specified costs	6,582	6,296	6,033	5,792	5,569
Total costs plus overhead	6,931	6,630	6,353	6,099	5,865
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,787	4,579	4,388	4,213	4,051
Total specified costs	6,323	6,048	5,796	5,564	5,350
Total costs plus overhead	6,658	6,369	6,103	5,859	5,634
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,650	4,448	4,262	4,092	3,934
Total specified costs	6,141	5,874	5,630	5,405	5,197
Total costs plus overhead	6,467	6,186	5,928	5,691	5,472

- 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 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Roundup Power Max	pt	3.16	2.7500	8.69	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
LA Hired Labor					
Tractors	hour	9.60	2.7675	26.58	_____
DIESEL FUEL					
Tractors	gal	2.75	21.8864	60.19	_____
REPAIR & MAINTENANCE					
Implements	acre	11.09	1.0000	11.09	_____
Tractors	acre	11.63	1.0000	11.63	_____
INTEREST ON OP. CAP.	acre	2.77	1.0000	2.77	_____
TOTAL DIRECT EXPENSES				127.96	_____
FIXED EXPENSES					
Implements	acre	15.03	1.0000	15.03	_____
Tractors	acre	68.93	1.0000	68.93	_____
TOTAL FIXED EXPENSES				83.96	_____
TOTAL SPECIFIED EXPENSES				211.92	_____

Table 4.B Estimated resource use and costs for field operations, per acre Breaking stubble, fallow activities & seedbed preparation, Sugarcane, Louisiana 2015.

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 Disk	20 ft	MFWD 190	0.100	2.00	Mar	6.38	6.10	1.54	2.07	0.20	1.92				18.01
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Mar	7.01	6.70	0.97	1.18	0.21	2.11				17.97
SC Land Plane	15 ft	MFWD 150	0.300	2.00	Apr	15.43	15.60	1.32	2.65	0.60	5.77				40.77
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Apr	7.01	6.70	0.97	1.18	0.21	2.11				17.97
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	3.19	3.05	0.77	1.03	0.10	0.96				9.00
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	3.19	3.05	0.77	1.03	0.10	0.96				9.00
SC 5Row (Marker)	18 ft	MFWD 150	0.075	1.00	May	1.93	1.95	0.37	0.42	0.07	0.72				5.39
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	2.00	May	3.86	3.90	0.86	1.01	0.15	1.44				11.07
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.95	0.58	0.13	0.13	0.08	0.77				2.56
Subsoiler	3 shank	MFWD 190	0.204	0.50	May	3.26	3.11	0.12	0.29	0.10	0.98				7.76
SC Chisel Plow	23 ft	MFWD 190	0.120	0.50	May	1.91	1.83	0.25	0.64	0.06	0.58				5.21
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	2.00	May	3.86	3.90	0.86	1.01	0.15	1.44				11.07
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Jun	3.09	3.12	0.26	0.27	0.12	1.15				7.89
Roundup Power Max	pt											1.3750	3.16	4.35	4.35
SC 5Row (Plow)	18 ft	MFWD 150	0.075	1.00	Jul	1.93	1.95	0.69	0.82	0.07	0.72				6.11
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Jul	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Aug	3.09	3.12	0.26	0.27	0.12	1.15				7.89
Roundup Power Max	pt											1.3750	3.16	4.35	4.35
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Aug	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Aug	0.95	0.58	0.13	0.13	0.08	0.77				2.56
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						71.82	68.93	11.09	15.03	2.76	26.58			15.70	209.15
INTEREST ON OPERATING CAPITAL															2.77
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															211.92

Table 5.A Estimated costs per acre,
Cultured seed cane,
Sugarcane, Louisiana, 2015.

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	9.60	0.3303	3.17	_____
DIESEL FUEL					
Self-Propelled	gal	2.75	2.1021	5.78	_____
REPAIR & MAINTENANCE					
Self-Propelled	acre	7.74	1.0000	7.74	_____
INTEREST ON OP. CAP.	acre	22.03	1.0000	22.03	_____

TOTAL DIRECT EXPENSES				522.72	_____
FIXED EXPENSES					
Self-Propelled	acre	12.53	1.0000	12.53	_____

TOTAL FIXED EXPENSES				12.53	_____

TOTAL SPECIFIED EXPENSES				535.25	_____

Table 5.B Estimated resource use and costs for field operations, per acre
Cultured seed cane,
Sugarcane, Louisiana, 2015.

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		13.52	12.53			0.33	3.17	1.0000	484.00	484.00	484.00
SC Loader 2Rw		12 ft	0.300	1.00	Sep										29.22
TOTALS						13.52	12.53	0.00	0.00	0.33	3.17			484.00	513.22
INTEREST ON OPERATING CAPITAL															22.03
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															535.25

Table 6.A Estimated costs per acre,
 Wholestalk seedcane harvest,
 Sugarcane, Louisiana, 2015.

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	9.60	0.6300	6.05	_____
Self-Propelled	hour	9.60	0.3303	3.17	_____
DIESEL FUEL					
Tractors	gal	2.75	4.5553	12.53	_____
Self-Propelled	gal	2.75	5.2061	14.32	_____
REPAIR & MAINTENANCE					
Implements	acre	0.76	1.0000	0.76	_____
Tractors	acre	2.56	1.0000	2.56	_____
Self-Propelled	acre	24.72	1.0000	24.72	_____
INTEREST ON OP. CAP.	acre	3.10	1.0000	3.10	_____
TOTAL DIRECT EXPENSES				73.74	_____
FIXED EXPENSES					
Implements	acre	0.96	1.0000	0.96	_____
Tractors	acre	14.86	1.0000	14.86	_____
Self-Propelled	acre	33.55	1.0000	33.55	_____
TOTAL FIXED EXPENSES				49.37	_____
TOTAL SPECIFIED EXPENSES				123.11	_____

Table 6.B Estimated resource use and costs for field operations, per acre
 Wholestalk seedcane harvest,
 Sugarcane, Louisiana, 2015.

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	25.52	21.02			0.42	6.53			53.07
SC Loader 2Rw		12 ft	0.300	1.00	Sep	13.52	12.53			0.33	3.17			29.22
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Sep	14.14	14.28	0.63	0.83	0.55	5.28			35.16
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.95	0.58	0.13	0.13	0.08	0.77			2.56
TOTALS						54.13	48.41	0.76	0.96	1.38	15.75		0.00	120.01
INTEREST ON OPERATING CAPITAL														3.10
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														123.11

Table 7.A Estimated costs per acre,
Billet seedcane harvest,
Sugarcane, Louisiana, 2015.

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	9.60	0.7400	7.11	_____
DIESEL FUEL					
Tractors	gal	2.75	5.4046	14.86	_____
Self-Propelled	gal	2.75	8.4000	23.10	_____
REPAIR & MAINTENANCE					
Implements	acre	5.46	1.0000	5.46	_____
Tractors	acre	3.05	1.0000	3.05	_____
Self-Propelled	acre	27.07	1.0000	27.07	_____
INTEREST ON OP. CAP.	acre	4.07	1.0000	4.07	_____
TOTAL DIRECT EXPENSES				96.50	_____
FIXED EXPENSES					
Implements	acre	4.09	1.0000	4.09	_____
Tractors	acre	17.72	1.0000	17.72	_____
Self-Propelled	acre	31.56	1.0000	31.56	_____
TOTAL FIXED EXPENSES				53.37	_____
TOTAL SPECIFIED EXPENSES				149.87	_____

Table 7.B Estimated resource use and costs for field operations, per acre
Billet seedcane harvest,
Sugarcane, Louisiana, 2015.

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 Billet Harvester	6 ft	0.700	1.00	Sep	50.17	31.56	5.33	3.96	0.77	11.78				93.51
SC Cane Wgn Billt HD 10Ton	MFWD 150	0.600	1.00	Sep	16.96	17.14	0.13	0.13	0.66	6.34				49.73
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.95	0.58	0.13	0.13	0.08	0.77			2.56
TOTALS						68.08	49.28	5.46	4.09	1.51	18.89			145.80
INTEREST ON OPERATING CAPITAL													0.00	4.07
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														149.87

Table 8.A Estimated costs per acre,
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2015.

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	3.44	7.2000	24.77	_____
LA SC Planting Labor					
Special Labor	acre	25.00	3.0000	75.00	_____
LA Hired Labor					
Tractors	hour	9.60	2.0700	19.88	_____
DIESEL FUEL					
Tractors	gal	2.75	15.5083	42.64	_____
REPAIR & MAINTENANCE					
Implements	acre	15.13	1.0000	15.13	_____
Tractors	acre	8.62	1.0000	8.62	_____
INTEREST ON OP. CAP.	acre	0.96	1.0000	0.96	_____
TOTAL DIRECT EXPENSES				203.80	_____
FIXED EXPENSES					
Implements	acre	22.79	1.0000	22.79	_____
Tractors	acre	50.27	1.0000	50.27	_____
TOTAL FIXED EXPENSES				73.06	_____
TOTAL SPECIFIED EXPENSES				276.86	_____

Table 8.B Estimated resource use and costs for field operations, per acre
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2015.

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 Rototiller	18 ft	MFWD 190	0.219	1.00	Sep	7.01	6.70	3.52	3.46	0.21	2.11				22.80
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Sep	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC 5Row (Opener)	18 ft	MFWD 150	0.075	1.00	Sep	1.93	1.95	0.29	0.35	0.07	0.72				5.24
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Cane Planters Aid	6 ft	MFWD 150	1.000	1.00	Sep	25.70	25.97	8.44	16.58	1.00	9.60				86.29
LA SC Planting Labor	acre									3.00	75.00				75.00
SC 5Row (Cover)	18 ft	MFWD 150	0.075	1.00	Sep	1.93	1.95	0.90	0.26	0.07	0.72				5.76
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	4.89	4.94	0.47	0.46	0.19	1.83				12.59
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Sep	3.09	3.12	0.26	0.27	0.12	1.15				7.89
Sencor DF	lb											1.5000	11.20	16.80	16.80
Prowl 3.3 EC	pt											7.2000	3.44	24.77	24.77
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Oct	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Oct	0.95	0.58	0.13	0.13	0.08	0.77				2.56
TOTALS						51.26	50.27	15.13	22.79	5.07	94.88			41.57	275.90
INTEREST ON OPERATING CAPITAL															0.96
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															276.86

Table 9.A Estimated costs per acre,
Mechanical planting, 1-Row
Wholestalk, Sugarcane, Louisiana, 2015.

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	3.44	7.2000	24.77	_____
LA SC Planting Labor					
Special Labor	acre	25.00	2.0000	50.00	_____
LA Hired Labor					
Tractors	hour	9.60	1.7400	16.71	_____
DIESEL FUEL					
Tractors	gal	2.75	12.9604	35.64	_____
REPAIR & MAINTENANCE					
Implements	acre	10.38	1.0000	10.38	_____
Tractors	acre	7.14	1.0000	7.14	_____
INTEREST ON OP. CAP.	acre	6.91	1.0000	6.91	_____
TOTAL DIRECT EXPENSES				168.35	_____
FIXED EXPENSES					
Implements	acre	13.45	1.0000	13.45	_____
Tractors	acre	41.70	1.0000	41.70	_____
TOTAL FIXED EXPENSES				55.15	_____
TOTAL SPECIFIED EXPENSES				223.50	_____

Table 9.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2015.

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	7.01	6.70	3.52	3.46	0.21	2.11				22.80
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Sep	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC 5Row (Opener)	18 ft	MFWD 150	0.075	1.00	Sep	1.93	1.95	0.29	0.35	0.07	0.72				5.24
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Cane Plt-Whlstalk	6 ft	MFWD 150	0.670	1.00	Sep	17.22	17.40	3.69	7.24	0.67	6.43				51.98
LA SC Planting Labor	acre									2.00	50.00				50.00
SC 5Row (Cover)	18 ft	MFWD 150	0.075	1.00	Sep	1.93	1.95	0.90	0.26	0.07	0.72				5.76
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	4.89	4.94	0.47	0.46	0.19	1.83				12.59
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	3.09	3.12	0.26	0.27	0.12	1.15				7.89
Sencor DF	lb											1.5000	11.20	16.80	16.80
Prowl 3.3 EC	pt											7.2000	3.44	24.77	24.77
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Nov	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.95	0.58	0.13	0.13	0.08	0.77				2.56
TOTALS						42.78	41.70	10.38	13.45	3.74	66.71			41.57	216.59
INTEREST ON OPERATING CAPITAL															6.91
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															223.50

Table 10.A Estimated costs per acre,
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2015.

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	3.44	7.2000	24.77	_____
LA SC Planting Labor					
Special Labor	acre	25.00	1.0000	25.00	_____
LA Hired Labor					
Tractors	hour	9.60	1.7400	16.71	_____
DIESEL FUEL					
Tractors	gal	2.75	12.9604	35.64	_____
REPAIR & MAINTENANCE					
Implements	acre	10.38	1.0000	10.38	_____
Tractors	acre	7.14	1.0000	7.14	_____
INTEREST ON OP. CAP.	acre	5.81	1.0000	5.81	_____
TOTAL DIRECT EXPENSES				142.25	_____
FIXED EXPENSES					
Implements	acre	13.45	1.0000	13.45	_____
Tractors	acre	41.70	1.0000	41.70	_____
TOTAL FIXED EXPENSES				55.15	_____
TOTAL SPECIFIED EXPENSES				197.40	_____

Table 10.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2015.

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 Rototiller	18 ft	MFWD 190	0.219	1.00	Sep	7.01	6.70	3.52	3.46	0.21	2.11				22.80
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Sep	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC 5Row (Opener)	18 ft	MFWD 150	0.075	1.00	Sep	1.93	1.95	0.29	0.35	0.07	0.72				5.24
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Cane Plt-1R Bille	1 row	MFWD 150	0.670	1.00	Sep	17.22	17.40	3.69	7.24	0.67	6.43				51.98
LA SC Planting Labor	acre									1.00	25.00				25.00
SC 5Row (Cover)	18 ft	MFWD 150	0.075	1.00	Sep	1.93	1.95	0.90	0.26	0.07	0.72				5.76
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	4.89	4.94	0.47	0.46	0.19	1.83				12.59
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	3.09	3.12	0.26	0.27	0.12	1.15				7.89
Sencor DF	lb											1.5000	11.20	16.80	16.80
Prowl 3.3 EC	pt											7.2000	3.44	24.77	24.77
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Nov	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.95	0.58	0.13	0.13	0.08	0.77				2.56
TOTALS						42.78	41.70	10.38	13.45	2.74	41.71			41.57	191.59
INTEREST ON OPERATING CAPITAL															5.81
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															197.40

Table 11.A Estimated costs per acre,
Plant cane field operations,
Sugarcane, Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	3.25	2.0000	6.50	_____
FERTILIZERS					
LA Nitrogen	lb	0.50	80.0000	40.00	_____
LA Potash	lb	0.34	80.0000	27.20	_____
HERBICIDES					
Sencor DF	lb	11.20	0.7500	8.40	_____
Prowl 3.3 EC	pt	3.44	3.6000	12.38	_____
LA Weedmaster	qt	6.50	0.7500	4.88	_____
LA Asulox/Asulam	gal	37.00	0.5000	18.50	_____
Treflan HFP	pt	2.90	4.0000	11.60	_____
Atrazine 4L	pt	1.50	4.0000	6.00	_____
INSECTICIDES					
Confirm 2F	oz	2.05	16.0000	32.80	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	3.60	3.2000	11.52	_____
LA Hired Labor					
Tractors	hour	9.60	1.6679	16.02	_____
DIESEL FUEL					
Tractors	gal	2.75	11.3340	31.16	_____
REPAIR & MAINTENANCE					
Implements	acre	5.15	1.0000	5.15	_____
Tractors	acre	6.20	1.0000	6.20	_____
INTEREST ON OP. CAP.	acre	5.16	1.0000	5.16	_____
TOTAL DIRECT EXPENSES				250.47	_____
FIXED EXPENSES					
Implements	acre	6.37	1.0000	6.37	_____
Tractors	acre	35.85	1.0000	35.85	_____
TOTAL FIXED EXPENSES				42.22	_____
TOTAL SPECIFIED EXPENSES				292.69	_____

Table 11.B Estimated resource use and costs for field operations, per acre
 Plant cane field operations,
 Sugarcane, Louisiana, 2015.

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	1.93	1.95	0.43	0.51	0.07	0.72				5.54	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	3.09	3.12	0.26	0.27	0.12	1.15				7.89	
Sencor DF	lb											0.7500	11.20	8.40	8.40	
Prowl 3.3 EC	pt											3.6000	3.44	12.38	12.38	
LA Weedmaster	qt											0.7500	6.50	4.88	4.88	
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	3.34	3.38	0.36	0.54	0.13	1.25				8.87	
LA Nitrogen	lb											80.0000	0.50	40.00	40.00	
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	2.00	Mar	3.86	3.90	0.86	1.01	0.15	1.44				11.07	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Apr	1.54	1.56	0.23	0.31	0.05	0.58				4.22	
LA Potash	lb											80.0000	0.34	27.20	27.20	
Disk Bed (Hipper)	4R-38	MFWD 150	0.147	1.00	Apr	3.79	3.83	0.29	0.74	0.14	1.42				10.07	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Apr	1.93	1.95	0.43	0.51	0.07	0.72				5.54	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	3.09	3.12	0.26	0.27	0.12	1.15				7.89	
LA Asulox/Asulam	gal											0.5000	37.00	18.50	18.50	
Surfactant	pt											1.6000	3.60	5.76	5.76	
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.93	1.95	0.43	0.51	0.07	0.72				5.54	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	3.09	3.12	0.26	0.27	0.12	1.15				7.89	
Treflan HFP	pt											4.0000	2.90	11.60	11.60	
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.93	1.95	0.43	0.51	0.07	0.72				5.54	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	3.09	3.12	0.26	0.27	0.12	1.15				7.89	
Atrazine 4L	pt											4.0000	1.50	6.00	6.00	
Surfactant	pt											1.6000	3.60	5.76	5.76	
App by Air (2 gal)	appl			1.00	Jun							1.0000	3.25	3.25	3.25	
Confirm 2F	oz											8.0000	2.05	16.40	16.40	
App by Air (2 gal)	appl			1.00	Jul							1.0000	3.25	3.25	3.25	
Confirm 2F	oz											8.0000	2.05	16.40	16.40	
Crop Consultant	acre			1.00	Aug							1.0000	7.00	7.00	7.00	
TOTALS							37.36	35.85	5.15	6.37	1.66	16.02			186.78	287.53
INTEREST ON OPERATING CAPITAL																5.16
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																292.69

Table 12.A Estimated costs per acre,
 First Stubble field operations,
 Sugarcane, Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	3.25	3.0000	9.75	_____
FERTILIZERS					
LA Nitrogen	lb	0.50	100.0000	50.00	_____
LA Phosphate	lb	0.61	40.0000	24.40	_____
LA Potash	lb	0.34	100.0000	34.00	_____
Sulfur	lb	0.26	24.0000	6.24	_____
HERBICIDES					
Sencor DF	lb	11.20	0.7500	8.40	_____
Prowl 3.3 EC	pt	3.44	3.6000	12.38	_____
LA Weedmaster	qt	6.50	0.7500	4.88	_____
LA Asulox/Asulam	gal	37.00	0.5000	18.50	_____
Treflan HFP	pt	2.90	4.0000	11.60	_____
Atrazine 4L	pt	1.50	4.0000	6.00	_____
INSECTICIDES					
Confirm 2F	oz	2.05	16.0000	32.80	_____
GROWTH REGULATORS					
LA Polado	oz	0.38	8.0000	3.04	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	3.60	4.8000	17.28	_____
LA Hired Labor					
Tractors	hour	9.60	1.7904	17.19	_____
DIESEL FUEL					
Tractors	gal	2.75	12.2793	33.77	_____
REPAIR & MAINTENANCE					
Implements	acre	5.98	1.0000	5.98	_____
Tractors	acre	6.75	1.0000	6.75	_____
INTEREST ON OP. CAP.	acre	6.81	1.0000	6.81	_____
TOTAL DIRECT EXPENSES				316.77	_____
FIXED EXPENSES					
Implements	acre	6.93	1.0000	6.93	_____
Tractors	acre	39.04	1.0000	39.04	_____
TOTAL FIXED EXPENSES				45.97	_____
TOTAL SPECIFIED EXPENSES				362.74	_____

Table 12.B Estimated resource use and costs for field operations, per acre
 First Stubble field operations,
 Sugarcane, Louisiana, 2015.

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		
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Feb	3.86	3.90	0.86	1.02	0.15	1.44				11.08	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	3.09	3.12	0.26	0.27	0.12	1.15				7.89	
Sencor DF	lb											0.7500	11.20	8.40	8.40	
Prowl 3.3 EC	pt											3.6000	3.44	12.38	12.38	
LA Weedmaster	qt											0.7500	6.50	4.88	4.88	
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	3.34	3.38	0.36	0.54	0.13	1.25				8.87	
LA Nitrogen	lb											100.0000	0.50	50.00	50.00	
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Mar	3.86	3.90	0.86	1.02	0.15	1.44				11.08	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.54	1.56	0.23	0.31	0.05	0.58				4.22	
LA Phosphate	lb											40.0000	0.61	24.40	24.40	
LA Potash	lb											100.0000	0.34	34.00	34.00	
Sulfur	lb											24.0000	0.26	6.24	6.24	
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Mar	1.93	1.95	0.43	0.51	0.07	0.72				5.54	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	3.09	3.12	0.26	0.27	0.12	1.15				7.89	
Surfactant	pt											1.6000	3.60	5.76	5.76	
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Apr	1.93	1.95	0.43	0.51	0.07	0.72				5.54	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	3.09	3.12	0.26	0.27	0.12	1.15				7.89	
LA Asulox/Asulam	gal											0.5000	37.00	18.50	18.50	
Surfactant	pt											1.6000	3.60	5.76	5.76	
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.93	1.95	0.43	0.51	0.07	0.72				5.54	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.95	0.58	0.13	0.13	0.08	0.77				2.56	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	3.09	3.12	0.26	0.27	0.12	1.15				7.89	
Treflan HFP	pt											4.0000	2.90	11.60	11.60	
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.93	1.95	0.43	0.51	0.07	0.72				5.54	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	3.09	3.12	0.26	0.27	0.12	1.15				7.89	
Atrazine 4L	pt											4.0000	1.50	6.00	6.00	
Surfactant	pt											1.6000	3.60	5.76	5.76	
App by Air (2 gal)	appl			1.00	Jun							1.0000	3.25	3.25	3.25	
Confirm 2F	oz											8.0000	2.05	16.40	16.40	
App by Air (2 gal)	appl			1.00	Jul							1.0000	3.25	3.25	3.25	
Confirm 2F	oz											8.0000	2.05	16.40	16.40	
App by Air (2 gal)	appl			1.00	Sep							1.0000	3.25	3.25	3.25	
LA Polado	oz											8.0000	0.38	3.04	3.04	
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00	
TOTALS							40.52	39.04	5.98	6.93	1.79	17.19			246.27	355.93
INTEREST ON OPERATING CAPITAL																6.81
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																362.74

Table 13.A Estimated costs per acre,
 Second Stubble and older field operations,
 Sugarcane, Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	3.25	3.0000	9.75	_____
FERTILIZERS					
LA Nitrogen	lb	0.50	110.0000	55.00	_____
LA Phosphate	lb	0.61	40.0000	24.40	_____
LA Potash	lb	0.34	100.0000	34.00	_____
Sulfur	lb	0.26	24.0000	6.24	_____
HERBICIDES					
Sencor DF	lb	11.20	0.7500	8.40	_____
Prowl 3.3 EC	pt	3.44	3.6000	12.38	_____
LA Weedmaster	qt	6.50	0.7500	4.88	_____
LA Asulox/Asulam	gal	37.00	0.5000	18.50	_____
Treflan HFP	pt	2.90	4.0000	11.60	_____
Atrazine 4L	pt	1.50	4.0000	6.00	_____
INSECTICIDES					
Confirm 2F	oz	2.05	16.0000	32.80	_____
GROWTH REGULATORS					
LA Polado	oz	0.38	8.0000	3.04	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	3.60	3.2000	11.52	_____
LA Hired Labor					
Tractors	hour	9.60	1.6703	16.04	_____
DIESEL FUEL					
Tractors	gal	2.75	11.3525	31.22	_____
REPAIR & MAINTENANCE					
Implements	acre	5.72	1.0000	5.72	_____
Tractors	acre	6.21	1.0000	6.21	_____
INTEREST ON OP. CAP.	acre	6.69	1.0000	6.69	_____
TOTAL DIRECT EXPENSES				311.39	_____
FIXED EXPENSES					
Implements	acre	6.66	1.0000	6.66	_____
Tractors	acre	35.92	1.0000	35.92	_____
TOTAL FIXED EXPENSES				42.58	_____
TOTAL SPECIFIED EXPENSES				353.97	_____

Table 13.B Estimated resource use and costs for field operations, per acre
 Second Stubble and older field operations,
 Sugarcane, Louisiana, 2015.

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	3.86	3.90	0.86	1.02	0.15	1.44				11.08
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	3.34	3.38	0.36	0.54	0.13	1.25				8.87
LA Nitrogen	lb											110.0000	0.50	55.00	55.00
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Mar	3.86	3.90	0.86	1.02	0.15	1.44				11.08
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.54	1.56	0.23	0.31	0.05	0.58				4.22
LA Phosphate	lb											40.0000	0.61	24.40	24.40
LA Potash	lb											100.0000	0.34	34.00	34.00
Sulfur	lb											24.0000	0.26	6.24	6.24
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Mar	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	3.09	3.12	0.26	0.27	0.12	1.15				7.89
Sencor DF	lb											0.7500	11.20	8.40	8.40
Prowl 3,3 EC	pt											3.6000	3.44	12.38	12.38
LA Weedmaster	qt											0.7500	6.50	4.88	4.88
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Apr	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	3.09	3.12	0.26	0.27	0.12	1.15				7.89
LA Asulox/Asulam	gal											0.5000	37.00	18.50	18.50
Surfactant	pt											1.6000	3.60	5.76	5.76
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.95	0.58	0.13	0.13	0.08	0.77				2.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	3.09	3.12	0.26	0.27	0.12	1.15				7.89
Treflan HFP	pt											4.0000	2.90	11.60	11.60
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.93	1.95	0.43	0.51	0.07	0.72				5.54
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	3.09	3.12	0.26	0.27	0.12	1.15				7.89
Atrazine 4L	pt											4.0000	1.50	6.00	6.00
Surfactant	pt											1.6000	3.60	5.76	5.76
App by Air (2 gal)	appl			1.00	Jun							1.0000	3.25	3.25	3.25
Confirm 2F	oz											8.0000	2.05	16.40	16.40
App by Air (2 gal)	appl			1.00	Jul							1.0000	3.25	3.25	3.25
Confirm 2F	oz											8.0000	2.05	16.40	16.40
App by Air (2 gal)	appl			1.00	Aug							1.0000	3.25	3.25	3.25
LA Polado	oz											8.0000	0.38	3.04	3.04
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						37.43	35.92	5.72	6.66	1.67	16.04			245.51	347.28
INTEREST ON OPERATING CAPITAL															6.69
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															353.97

Table 14.A Estimated costs per acre,
Harvest-1R Combine Harvester, 10-Ton High Dump wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2015.

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	9.60	2.0600	19.79	_____
DIESEL FUEL					
Tractors	gal	2.75	15.5962	42.88	_____
Self-Propelled	gal	2.75	8.4000	23.10	_____
REPAIR & MAINTENANCE					
Implements	acre	16.12	1.0000	16.12	_____
Tractors	acre	8.95	1.0000	8.95	_____
Self-Propelled	acre	27.07	1.0000	27.07	_____
INTEREST ON OP. CAP.	acre	6.02	1.0000	6.02	_____
TOTAL DIRECT EXPENSES				155.71	_____
FIXED EXPENSES					
Implements	acre	12.01	1.0000	12.01	_____
Tractors	acre	52.00	1.0000	52.00	_____
Self-Propelled	acre	31.56	1.0000	31.56	_____
TOTAL FIXED EXPENSES				95.57	_____
TOTAL SPECIFIED EXPENSES				251.28	_____

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, 2015.

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	Nov	50.17	31.56	5.33	3.96	0.77	11.78			93.51
SC Cane Wgn Billt HD 10Ton		MFWD 150	0.600	1.00	Nov	16.96	17.14	5.33	3.96	0.66	6.34			49.73
SC Cane Wgn Billt HD 10Ton		MFWD 150	0.600	1.00	Nov	16.96	17.14	5.33	3.96	0.66	6.34			49.73
SC Cane Wgn Billt HD 10Ton		MFWD 150	0.600	1.00	Nov	16.96	17.14	5.33	3.96	0.66	6.34			49.73
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.95	0.58	0.13	0.13	0.08	0.77			2.56
TOTALS						102.00	83.56	16.12	12.01	2.83	31.57		0.00	245.26
INTEREST ON OPERATING CAPITAL														6.02
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														251.28

Table 15.A Estimated costs per acre,
Harvest-2-row Wholestalk, 10-ton transfer wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2015.

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	9.60	1.2499	12.00	_____
Self-Propelled	hour	9.60	0.6053	5.81	_____
DIESEL FUEL					
Tractors	gal	2.75	9.0717	24.95	_____
Self-Propelled	gal	2.75	6.3811	17.55	_____
REPAIR & MAINTENANCE					
Implements	acre	1.51	1.0000	1.51	_____
Tractors	acre	5.14	1.0000	5.14	_____
Self-Propelled	acre	28.47	1.0000	28.47	_____
INTEREST ON OP. CAP.	acre	4.11	1.0000	4.11	_____
TOTAL DIRECT EXPENSES				106.07	_____
FIXED EXPENSES					
Implements	acre	2.07	1.0000	2.07	_____
Tractors	acre	29.86	1.0000	29.86	_____
Self-Propelled	acre	40.00	1.0000	40.00	_____
TOTAL FIXED EXPENSES				71.93	_____
TOTAL SPECIFIED EXPENSES				178.00	_____

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, 2015.

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	25.52	21.02			0.42	6.53			53.07
SC Burning Unit	18 ft	MFWD 75	0.149	1.00	Nov	1.81	1.30	0.25	0.41	0.14	1.44			5.21
SC Loader 2Rw		12 ft	0.300	1.00	Nov	13.52	12.53			0.33	3.17			29.22
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	14.14	14.28	0.63	0.83	0.55	5.28			35.16
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	14.14	14.28	0.63	0.83	0.55	5.28			35.16
SC Transloader			0.250	1.00	Nov	6.98	6.45			0.27	2.64			16.07
TOTALS						76.11	69.86	1.51	2.07	2.28	24.34		0.00	173.89
INTEREST ON OPERATING CAPITAL														4.11
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														178.00

Appendix Table 1. Estimated fuel prices, labor wage rates, and interest rates, Louisiana 2015.

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.75
Gasoline	gal	3.40
LABOR TYPES		
Operator	hour	15.30
Hired	hour	9.60
Special	acre	25.00
INTEREST RATES		
Short-term	%	3.40
Intermediate-term	%	4.50

Appendix Table 2. Tractors: estimated useful life, annual use, purchase price, repair cost, fuel consumption rate, and direct and fixed cost per hour, Louisiana 2015.

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	33,700	600	8	2.57	9.60	7.07	1.05	17.73	6.12	23.85
Tractor(40-59hp)Cab	MFWD 50	38,900	600	8	2.57	9.60	7.07	1.21	17.89	7.06	24.95
Tractor(40-59hp)RB	2WD 50	18,900	600	8	2.57	9.60	7.07	0.59	17.26	3.43	20.70
Tractor(40-59hp)RB	MFWD 50	26,200	600	8	2.57	9.60	7.07	0.81	17.49	4.75	22.25
Tractor(60-89hp)CAB	2WD 75	43,400	600	8	3.86	9.60	10.61	1.35	21.57	7.88	29.45
Tractor(60-89hp)CAB	MFWD 75	47,900	600	8	3.86	9.60	10.61	1.49	21.71	8.69	30.41
Tractor(60-89hp)RB	2WD 75	35,000	600	8	3.86	9.60	10.61	1.09	21.30	6.35	27.66
Tractor(60-89hp)RB	MFWD 75	39,600	600	8	3.86	9.60	10.61	1.23	21.45	7.19	28.64
Tractor(90-119hp)CB	2WD 105	63,100	600	8	5.40	9.60	14.86	1.97	26.43	11.45	37.89
Tractor(90-119hp)CB	MFWD 105	74,400	600	8	5.40	9.60	14.86	2.32	26.78	13.51	40.29
Tractor(90-119hp)RB	2WD 105	54,300	600	8	5.40	9.60	14.86	1.69	26.15	9.86	36.02
Tractor(90-119hp)RB	MFWD 105	56,900	600	8	5.40	9.60	14.86	1.77	26.24	10.33	36.57
Tractor(120-139hp)CB	2WD 130	96,300	600	8	6.69	9.60	18.40	3.00	31.01	17.48	48.49
Tractor(120-139hp)CB	MFWD 130	114,000	600	8	6.69	9.60	18.40	3.56	31.56	20.70	52.26
Tractor(140-159hp)CB	2WD 150	127,000	600	8	7.72	9.60	21.23	3.96	34.80	23.06	57.86
Tractor(140-159hp)CB	MFWD 150	143,000	600	8	7.72	9.60	21.23	4.46	35.30	25.97	61.27
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	9.60	24.06	4.87	38.53	29.71	68.25
Tractor(160-179hp)CB	MFWD 170	167,000	600	8	8.75	9.60	24.06	5.21	38.88	31.81	70.69
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	9.60	25.47	4.45	39.53	27.18	66.72
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	9.60	26.89	4.46	40.96	27.24	68.20
Tractor(180-199hp)CB	MFWD 190	160,000	600	8	9.77	9.60	26.89	5.00	41.49	30.47	71.97
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	9.60	31.84	4.59	46.04	28.01	74.05
Tractor(200-249hp)CB	MFWD 225	226,000	600	8	11.58	9.60	31.84	7.06	48.51	43.05	91.56
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	9.60	31.84	8.65	50.10	52.76	102.87
Tractor(250-349hp)CB	4WD 300	277,000	600	8	15.44	9.60	42.46	8.65	60.72	52.76	113.48
Tractor(250-349hp)CB	Track 300	281,000	600	8	15.44	9.60	42.46	8.78	60.84	53.52	114.37
Tractor(350-449hp)CB	4WD 400	313,000	600	8	20.58	9.60	56.61	9.78	76.00	59.62	135.62
Tractor(350-449hp)CB	Track 400	364,000	600	8	20.58	9.60	56.61	11.37	77.59	69.33	146.93
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	9.60	67.23	8.74	85.58	53.31	138.89

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 2015.

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	9.60	8.50	2.81	20.91	6.54	27.45
SC Billet Harvester	6 ft	290,000	750	10	12.00	0.700	11.78	23.10	27.06	61.94	31.56	93.51
SC Harvester 1Rw	6 ft	115,000	400	12	6.80	0.875	14.72	16.36	20.96	52.05	25.96	78.01
SC Harvester 2Rw	12 ft	210,000	400	12	8.00	0.388	6.53	8.53	16.97	32.04	21.02	53.06
SC Loader 1Rw	6 ft	85,000	425	10	5.10	0.598	6.32	8.39	8.74	23.46	14.16	37.62
SC Loader 2Rw	12 ft	150,000	425	10	7.00	0.300	3.17	5.78	7.73	16.68	12.53	29.22
SC Transloader		30,000	120	12	4.70	0.250	2.64	3.23	3.75	9.62	6.44	16.07
SC Truck&Trailer	30 Ton	45,000	400	10	7.00	1.000	10.56	19.25	7.87	37.68	13.30	50.98
Sprayer(300-450Gal)	60 ft	103,000	350	8	5.66	0.017	0.30	0.27	0.09	0.67	0.62	1.29
Sprayer(300-450Gal)	80 ft	103,000	350	8	5.66	0.013	0.22	0.20	0.07	0.50	0.46	0.96
Sprayer(600-750Gal)	60 ft	174,000	350	8	10.29	0.017	0.30	0.49	0.16	0.96	1.04	2.01
Sprayer(600-825Gal)	80 ft	174,000	350	8	10.29	0.013	0.22	0.37	0.12	0.72	0.78	1.50
Sprayer(600-825Gal)	90 ft	254,000	350	8	10.29	0.011	0.20	0.33	0.15	0.69	1.02	1.71
Sprayer(1000-1400Gal)	90 ft	290,000	350	8	14.15	0.014	0.24	0.54	0.21	1.00	1.39	2.40
Sprayer(1200PlusGal)	120 ft	318,000	350	8	15.44	0.008	0.15	0.37	0.15	0.67	0.95	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 2015.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Total		--Fixed-- Total			
			dollars	hours	years	hr/ac	-----\$/acre-----							
									Imp.	P.U.	Imp.	P.U.		
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.15	2.55	1.43	0.53	5.69	0.41	3.12	9.23
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.15	2.54	0.68	0.53	4.92	0.80	3.11	8.85
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.15	2.54	0.58	0.53	4.82	0.67	3.11	8.62
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.15	2.54	0.69	0.53	4.92	0.81	3.11	8.86
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.15	2.54	0.46	0.53	4.70	0.55	3.11	8.37
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.15	3.22	1.11	0.60	6.09	1.30	3.65	11.06
SC 5Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.075	0.72	1.59	0.89	0.33	3.54	0.25	1.94	5.74
SC 5Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.075	0.72	1.59	0.42	0.33	3.07	0.50	1.94	5.53
SC 5Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.075	0.72	1.59	0.36	0.33	3.01	0.42	1.94	5.38
SC 5Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.075	0.72	1.59	0.43	0.33	3.07	0.51	1.94	5.53
SC 5Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.075	0.72	1.59	0.29	0.33	2.94	0.34	1.94	5.23
SC 5Row (Plow)	18 ft	MFWD 150	17,000	200	9	0.075	0.72	1.59	0.69	0.33	3.34	0.81	1.94	6.10
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	8.42	18.62	2.55	3.91	33.52	2.05	22.78	58.36
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.15	2.54	0.25	0.53	4.49	0.27	3.11	7.88
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.43	2.22	0.24	0.29	4.21	0.41	1.71	6.34
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	9.60	21.23	8.43	4.46	43.73	16.57	25.97	86.28
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	6.43	14.22	3.68	2.99	27.33	7.24	17.40	51.97
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	1.92	1.41	5.10	0.11	8.55	10.02	0.68	19.26
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	6.43	14.22	3.68	2.99	27.33	7.24	17.40	51.97
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	5.28	11.67	0.62	2.45	20.04	0.82	12.98	33.85
SC Cane Wgn Billt HD	10Ton	MFWD 150	40,000	750	9	0.600	6.33	14.01	5.33	2.94	28.63	3.95	15.58	48.17
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.10	5.91	0.96	1.09	10.08	1.18	6.69	17.96
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.15	3.22	0.49	0.60	5.47	1.28	3.65	10.42
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.05	1.63	0.29	0.21	3.20	0.44	1.26	4.90
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.05	2.64	0.39	0.53	4.63	0.53	3.26	8.43
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.34	2.97	0.32	0.55	5.20	0.44	3.23	8.87
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.43	1.06	0.56	0.08	3.14	0.75	0.51	4.41
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	0.96	2.68	0.77	0.50	4.91	1.03	3.04	9.00
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.67	1.68	0.64	0.34	3.34	0.86	2.07	6.29
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	0.96	2.40	0.40	0.48	4.26	0.54	2.97	7.77
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	0.76	0.84	0.13	0.09	1.84	0.12	0.57	2.55
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.24	2.76	0.36	0.58	4.95	0.53	3.37	8.86
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.57	1.27	0.22	0.26	2.34	0.30	1.55	4.21
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	1.82	4.03	0.47	0.84	7.18	0.45	4.93	12.57
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	9.60	31.84	0.13	4.59	46.17	0.17	28.01	74.36
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	2.88	6.37	0.66	1.34	11.26	1.32	7.79	20.38
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.40	5.30	3.12	1.11	11.95	3.69	6.49	22.13
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.76	1.47	0.41	0.24	2.89	0.48	1.39	4.78
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.40	2.65	0.51	0.30	5.87	1.37	1.79	9.05
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.10	5.91	3.51	1.09	12.63	3.46	6.69	22.79
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	9.60	14.86	0.86	1.97	27.29	3.09	11.45	41.84
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.05	1.63	0.04	0.21	2.95	0.06	1.26	4.27
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	9.60	18.40	0.23	3.00	31.24	0.88	17.48	49.61
SCMechanical Planter	6 ft	MFWD 150	15,500	160	10	1.000	9.60	21.23	7.26	4.46	42.56	11.45	25.97	79.99

Appendix Table 5. Operating inputs: estimated prices, Louisiana 2015.

ITEM NAME	UNIT	PRICE	ITEM	UNIT	PRICE
dollars			dollars		
ADJUVANTS			HERBIBIDES (cont)		
Crop Oil (Seed Oil) pt		4.60	Basagran	pt	11.88
Crop Oil (Petroleum) pt		3.60	Command 3ME	pt	18.50
Surfactant pt		3.60	Direx 4L	pt	2.81
CUSTOM FERT/LIME			Direx 80 DF	lb	7.37
App Fert by Air cwt		6.50	Gramoxone Max	pt	4.06
App Fert by Air(Min) appl		6.50	Karmex DF	lb	5.93
Custom Spread(Truc appl		4.50	LA Asulox	gal	37.00
Lime (Spread) ton		48.00	LA Weedmaster	qt	6.50
CUSTOM SPRAY			Prowl 3.3 EC	pt	3.44
App by Air (2 gal) appl		3.25	Roundup Original	pt	6.00
App by Air (3 gal) appl		4.75	Roundup Original Max	oz	0.38
App by Air (5 gal) appl		6.00	Roundup Power MAX	pt	3.16
App by Air (10 gal) appl		8.00	Roundup WeatherMax	oz	0.27
FERTILIZERS			Sencor 4F	pt	14.74
Amm Nitrate (34% N) cwt		22.50	Sencor DF	lb	11.20
Amm Sulfate (21% N) cwt		18.60	Treflan HFP	pt	2.90
Fert 10-34-0 cwt		26.00	INSECTICIDES		
Fert 41-0-0-4 cwt		23.50	Asana .66 XL	oz	0.64
LA Nitrogen lb		0.50	Baythroid 2	oz	2.30
LA Phosphate lb		0.61	Confirm 2F	oz	2.05
LA Potash lb		0.34	Fury 1.5 EC	oz	1.30
Phosphorus(46% P2O5) cwt		24.50	Karate Z	oz	3.40
Potash (60% K2O) cwt		23.60	Mustang Max	oz	1.60
UAN (32% N) cwt		18.50	Thimet 20-G	lb	3.60
Urea, Solid (46% N) cwt		25.25	RIPENER		
HERBICIDES			Polado	oz	0.38
2,4-D Amine 4 pt		1.85	SEED CANE		
Atrazine 4L pt		1.50	Cultured seedcane	acre	484.00
Atrazine 90DF lb		2.80			