

Projected Costs and Returns Crop Enterprise Budgets for Sugarcane Production in Louisiana, 2017

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



**Farm Management Research & Extension
Department of Agricultural Economics & Agribusiness
Louisiana State University Agricultural Center
A.E.A. Information Series No. 323 - January 2017**

January 2017

A.E.A. Information Series No. 323

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www.lsuagcenter.com**

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PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR SUGARCANE PRODUCTION IN LOUISIANA, 2017

by

Michael A. Deliberto, Brian M. Hilbun, and Michael E. Salassi ¹

¹ Assistant Professor-Research, Research Associate, and Department Head and Professor
Department of Agricultural Economics and Agribusiness, LSU Agricultural Center, Baton Rouge, LA.

Introduction

This publication presents estimates of projected costs and returns for sugarcane production in Louisiana for the 2017 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 2017 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 2017 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 2017 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 \$10.69 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 4.75% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was \$1.85 per gallon. 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, 2017.

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: (\$0.255/lb; 5,639,400 lbs.)					
Plantcane (9,000 lbs/acre)	2,295.00	201.6	462,672		
1st stubble (8,370 lbs/acre)	2,134.35	250.0	533,588		
2nd stubble (6,930 lbs/acre)	1,767.15	250.0	441,788		
Total sugar (8,033 lbs/acre avg.)			1,438,047	1,438.05	0.255
Molasses: (\$0.67/gal; 169,182 gallons)	--	--	113,352		
TOTAL GROSS VALUE			1,551,399	1,551.40	0.275
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	560,838		
Molasses	--	--	56,676		
Total mill charge			617,514	617.51	0.110
NET RETURNS TO LAND AND PRODUCER			933,885	933.88	0.166
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	146,494		
Molasses(16.7% after mill charge)	--	--	9,465		
Total land charge			155,959	155.96	0.028
PRODUCER INCOME					
Sugar and Molasses	--	--	777,926	777.93	0.138
ASCL Check Off (\$0.14 /ton)	--	--	(3,509)		
Total Income			774,417	774.42	0.137
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	109.30	250.0	27,325		
Cultured Seed Cane	522.89	4.1	2,139		
Hand Planting	214.40	4.1	877		
Wholestalk Seedcane Harvest	65.88	49.2	3,241		
Mechanical Planting - Wholestalk	181.86	245.9	44,719		
Plant Cane Field Operations	224.88	250.0	56,220		
1st Stubble Field Operations	277.78	250.0	69,445		
2nd Stubble Field Operations	274.51	250.0	68,628		
Harvest for Sugar 4/	136.03	700.8	95,330		
Total variable expenses			367,924	367.92	0.065
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			406,493	406.49	0.072
FIXED PRODUCTION EXPENSES 5/		1,000.0	142,709	142.71	0.025
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			263,784	263.78	0.047
FARM OVERHEAD EXPENSES		1,000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			233.784	233.78	0.041

- 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 25.5 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 (5,639,400 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, 2017.

	-10%	-5%	Selected Yield Levels 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/	7229	7631	8033	8434	8836
Sugar yield per rotational acre (lbs) 3/	5069	5351	5632	5914	6195
ONE-FIFTH LAND SHARE RENT					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	14.5	13.9	13.4	12.9	12.5
Total specified costs	20.2	19.4	18.6	17.8	17.2
Total costs plus overhead	21.4	20.5	19.7	18.9	18.2
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	13.9	13.3	12.8	12.4	12.0
Total specified costs	19.4	18.6	17.8	17.1	16.5
Total costs plus overhead	20.6	19.7	18.9	18.1	17.5
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	13.5	13.0	12.5	12.0	11.6
Total specified costs	18.9	18.1	17.3	16.7	16.0
Total costs plus overhead	20.0	19.1	18.3	17.6	17.0

1/ Average farm yield across harvested acreage of plantcane, 1st and 2nd stubble crops.

2/ Average yield in tons per acre multiplied by a 225 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, 2017.

	-2.0	-1.0	Selected Price Levels Base	+1.0	+2.0
Raw sugar price (cents per pound)	23.5	24.5	25.5	26.5	27.5
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,578	4,391	4,219	4,060	3,912
Total specified costs	6,354	6,094	5,855	5,634	5,430
Total costs plus overhead	6,727	6,452	6,199	5,965	5,749
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,398	4,218	4,053	3,900	3,758
Total specified costs	6,104	5,854	5,625	5,413	5,216
Total costs plus overhead	6,462	6,198	5,955	5,731	5,522
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,272	4,097	3,937	3,788	3,650
Total specified costs	5,929	5,687	5,464	5,257	5,066
Total costs plus overhead	6,277	6,021	5,785	5,566	5,364

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, 2017.

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: (\$0.255/lb; 5,801,400 lbs)					
Plantcane (9,000 lbs/acre)	2,295.00	160.6	368,577		
1st stubble (8,370 lbs/acre)	2,134.35	200.0	426,870		
2nd stubble (6,930 lbs/acre)	1,767.15	200.0	353,430		
3rd stubble (6,480 lbs/acre)	1,652.40	200.0	330,480		
Total sugar (7,628 lbs/acre avg.)			1,479,357	1,479.36	0.255
Molasses (\$0.67/gal; 174,042 gallons)	--	--	116,608		
TOTAL GROSS VALUE			1,595,965	1,595.97	0.275
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	576,949		
Molasses	--	--	58,304		
Total mill charge			635,253	635.25	0.110
NET RETURNS TO LAND AND PRODUCER			960,712	960.71	0.166
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	150,702		
Molasses(16.7% after mill charge)	--	--	9,737		
Total land charge			160,439	160.44	0.028
PRODUCER INCOME					
Sugar and Molasses	--	--	800,273	800.27	0.138
ASCL Check Off (\$0.14 /ton)	--	--	(3,610)		
Total Income			796,663	796.66	0.137
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	109.30	200.0	21,860		
Cultured Seed Cane	522.89	3.3	1,726		
Hand Planting	214.40	3.3	708		
Harvesting Wholestalk Seedcane	65.88	39.4	2,596		
Mechanical Planting - Wholestalk	181.86	196.7	35,772		
Plant Cane Field Operations	224.88	200.0	44,976		
1st Stubble Field Operations	277.78	200.0	55,556		
2nd Stubble Field Operations	274.51	200.0	54,902		
3rd Stubble Field Operations	274.51	200.0	54,902		
Harvest for Sugar 4/	136.03	760.6	103,464		
Total variable expenses			376,461	376.46	0.065
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			420,202	420.20	0.072
FIXED PRODUCTION EXPENSES 5/		1000.0	142,625	142.62	0.025
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			277,578	277.58	0.048
FARM OVERHEAD EXPENSES		1000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			247,578	247.58	0.043

- 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 25.5 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 (5,801,400 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, 2017.

	-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/	6865	7246	7628	8009	8390
Sugar yield per rotational acre (lbs) 3/	5221	5511	5801	6091	6382
ONE-FIFTH LAND SHARE RENT					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	14.4	13.8	13.3	12.8	12.4
Total specified costs	20.0	19.1	18.3	17.6	17.0
Total costs plus overhead	21.1	20.2	19.4	18.6	18.0
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	13.8	13.3	12.8	12.3	11.9
Total specified costs	19.2	18.4	17.6	16.9	16.3
Total costs plus overhead	20.3	19.4	18.6	17.9	17.3
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	13.4	12.9	12.4	12.0	11.6
Total specified costs	18.6	17.9	17.1	16.5	15.9
Total costs plus overhead	19.7	18.9	18.1	17.4	16.8

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 225 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, 2017.

	-2.0	-1.0	Selected Price Levels Base	+1.0	+2.0
Raw sugar price (cents per pound)	23.5	24.5	25.5	26.5	27.5
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,316	4,140	3,977	3,827	3,688
Total specified costs	5,951	5,708	5,484	5,277	5,085
Total costs plus overhead	6,295	6,038	5,801	5,582	5,379
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,146	3,977	3,821	3,677	3,543
Total specified costs	5,717	5,483	5,268	5,070	4,885
Total costs plus overhead	6,047	5,800	5,573	5,363	5,168
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,027	3,863	3,711	3,571	3,441
Total specified costs	5,553	5,326	5,117	4,924	4,745
Total costs plus overhead	5,874	5,634	5,413	5,209	5,019

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, 2017.

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: (\$0.255/lb; 5,841,027 lbs.)					
Plantcane (9,000 lbs/acre)	2,295.00	133.9	307,301		
1st stubble (8,370 lbs/acre)	2,134.35	166.7	355,796		
2nd stubble (6,930 lbs/acre)	1,767.15	166.7	294,584		
3rd stubble (6,480 lbs/acre)	1,652.40	166.7	275,455		
4th stubble (6,030 lbs/acre)	1,537.65	166.7	256,326		
Total sugar (7,290 lbs/acre avg.)			1,489,462	1,489.46	0.255
Molasses (\$0.67/gal, 175,231 gallons)	--	--	117,405		
TOTAL GROSS VALUE			1,606,867	1,606.87	0.275
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	580,890		
Molasses	--	--	58,702		
Total mill charge			639,592	639.59	0.110
NET RETURNS TO LAND AND PRODUCER			967,274	967.27	0.166
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	151,731		
Molasses (16.7% after mill charge)	--	--	9,803		
Total land charge			161,535	161.53	0.028
PRODUCER INCOME					
Sugar and Molasses	--	--	805,739	805.74	0.138
ASCL Check Off (\$0.14 /ton)	--	--	(3,634)		
Total Income			802,105	802.10	0.137
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	109.30	166.7	18,220		
Cultured Seed Cane	522.89	2.7	1,412		
Hand Planting	214.40	2.7	579		
Wholestalk Seedcane Harvest	65.88	32.8	2,161		
Mechanical Planting - Wholestalk	181.86	164.0	29,825		
Plant Cane Field Operations	224.88	166.7	37,487		
1st Stubble Field Operations	277.78	166.7	46,306		
2nd Stubble Field Operations	274.51	166.7	45,761		
3rd Stubble Field Operations	274.51	166.7	45,761		
4th Stubble Field Operations	274.51	166.7	45,761		
Harvest for Sugar 4/	136.03	800.7	108,919		
Total variable expenses			382,192	382.19	0.065
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			419,913	419.91	0.072
FIXED PRODUCTION EXPENSES 5/		1000.0	142,686	142.69	0.024
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			277,227	277.23	0.047
FARM OVERHEAD EXPENSES		1000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			247,227	247.23	0.042

- 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 25.5 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 (5,841,027 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, 2017.

	-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/	6561	6926	7290	7655	8019
Sugar yield per rotational acre (lbs) 3/	5257	5549	5841	6133	6425
ONE-FIFTH LAND SHARE RENT					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.8	14.5	13.4	12.5	11.8
Total specified costs	22.1	20.0	18.4	17.1	16.0
Total costs plus overhead	23.4	21.2	19.5	18.0	16.9
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.2	13.9	12.9	12.0	11.3
Total specified costs	21.2	19.2	17.7	16.4	15.3
Total costs plus overhead	22.4	20.4	18.7	17.3	16.2
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	14.8	13.5	12.5	11.7	11.0
Total specified costs	20.6	18.7	17.2	16.0	14.9
Total costs plus overhead	21.8	19.8	18.2	16.8	15.7

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 225 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, 2017.

	-2.0	-1.0	Selected Price Levels Base	+1.0	+2.0
Raw sugar price (cents per pound)	23.5	24.5	25.5	26.5	27.5
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,163	3,993	3,837	3,692	3,558
Total specified costs	5,717	5,484	5,269	5,070	4,886
Total costs plus overhead	6,044	5,797	5,570	5,360	5,165
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	3,999	3,836	4,214	4,045	3,890
Total specified costs	5,492	5,268	5,061	4,870	4,693
Total costs plus overhead	5,806	5,569	5,351	5,149	4,962
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	3,884	3,726	3,580	3,445	3,319
Total specified costs	5,335	5,117	4,916	4,731	4,559
Total costs plus overhead	5,640	5,409	5,197	5,001	4,819

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 2017.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Roundup Power Max	pt	2.25	2.7500	6.19	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
LA Hired Labor					
Tractors	hour	10.69	2.7675	29.59	_____
DIESEL FUEL					
Tractors	gal	1.85	21.8864	40.48	_____
REPAIR & MAINTENANCE					
Implements	acre	11.09	1.0000	11.09	_____
Tractors	acre	12.39	1.0000	12.39	_____
INTEREST ON OP. CAP.	acre	2.57	1.0000	2.57	_____

TOTAL DIRECT EXPENSES				109.30	_____
FIXED EXPENSES					
Implements	acre	15.44	1.0000	15.44	_____
Tractors	acre	76.09	1.0000	76.09	_____

TOTAL FIXED EXPENSES				91.53	_____

TOTAL SPECIFIED EXPENSES				200.83	_____

Table 4.B Estimated resource use and costs for field operations, per acre
Breaking stubble, fallow activities & seedbed preparation,
Sugarcane, Louisiana 2017.

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	4.78	7.32	1.54	2.13	0.20	2.14				17.91
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Mar	5.26	8.04	0.97	1.20	0.21	2.35				17.82
SC Land Plane	15 ft	MFWD 150	0.300	2.00	Apr	11.26	16.15	1.32	2.75	0.60	6.42				37.90
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Apr	5.26	8.04	0.97	1.20	0.21	2.35				17.82
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	2.39	3.66	0.77	1.06	0.10	1.07				8.95
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	2.39	3.66	0.77	1.06	0.10	1.07				8.95
SC 5Row (Marker)	18 ft	MFWD 150	0.075	1.00	May	1.41	2.02	0.37	0.43	0.07	0.80				5.03
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	2.00	May	2.81	4.03	0.86	1.04	0.15	1.60				10.34
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.66	0.54	0.13	0.13	0.08	0.86				2.32
Subsoiler	3 shank	MFWD 190	0.204	0.50	May	2.44	3.74	0.12	0.30	0.10	1.09				7.69
SC Chisel Plow	23 ft	MFWD 190	0.120	0.50	May	1.44	2.20	0.25	0.66	0.06	0.64				5.19
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	2.00	May	2.81	4.03	0.86	1.04	0.15	1.60				10.34
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Jun	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Roundup Power Max	pt											1.3750	2.25	3.09	3.09
SC 5Row (Plow)	18 ft	MFWD 150	0.075	1.00	Jul	1.41	2.02	0.69	0.84	0.07	0.80				5.76
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Jul	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Aug	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Roundup Power Max	pt											1.3750	2.25	3.09	3.09
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Aug	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Aug	0.66	0.54	0.13	0.13	0.08	0.86				2.32
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						52.87	76.09	11.09	15.44	2.76	29.59			13.18	198.26
INTEREST ON OPERATING CAPITAL															2.57
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															200.83

Table 5.A Estimated costs per acre,
Cultured seed cane,
Sugarcane, Louisiana, 2017.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
SEED/PLANTS					
SC Cultured seedcane acre	acre	484.00	1.0000	484.00	_____
LA Hired Labor					
Self-Propelled	hour	10.69	0.3303	3.53	_____
DIESEL FUEL					
Self-Propelled	gal	1.85	2.1021	3.89	_____
REPAIR & MAINTENANCE					
Self-Propelled	acre	7.74	1.0000	7.74	_____
INTEREST ON OP. CAP.	acre	23.71	1.0000	23.71	_____

TOTAL DIRECT EXPENSES				522.87	_____
FIXED EXPENSES					
Self-Propelled	acre	12.88	1.0000	12.88	_____

TOTAL FIXED EXPENSES				12.88	_____

TOTAL SPECIFIED EXPENSES				535.75	_____

Table 5.B Estimated resource use and costs for field operations, per acre
Cultured seed cane,
Sugarcane, Louisiana, 2017.

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 Cultured seedcane acre				1.00	Sep							1.0000	484.00	484.00	484.00
SC Loader 2Rw	12 ft		0.300	1.00	Sep	11.63	12.88			0.33	3.53				28.04
TOTALS						11.63	12.88	0.00	0.00	0.33	3.53			484.00	512.04
INTEREST ON OPERATING CAPITAL															23.71
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															535.75

Table 6.A Estimated costs per acre,
Wholestalk seedcane harvest,
Sugarcane, Louisiana, 2017.

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	10.69	0.6300	6.74	_____
Self-Propelled	hour	10.69	0.3303	3.53	_____
DIESEL FUEL					
Tractors	gal	1.85	4.5553	8.43	_____
Self-Propelled	gal	1.85	5.2061	9.63	_____
REPAIR & MAINTENANCE					
Implements	acre	0.76	1.0000	0.76	_____
Tractors	acre	2.55	1.0000	2.55	_____
Self-Propelled	acre	24.72	1.0000	24.72	_____
INTEREST ON OP. CAP.	acre	2.99	1.0000	2.99	_____

TOTAL DIRECT EXPENSES				65.88	_____
FIXED EXPENSES					
Implements	acre	0.99	1.0000	0.99	_____
Tractors	acre	15.33	1.0000	15.33	_____
Self-Propelled	acre	34.58	1.0000	34.58	_____

TOTAL FIXED EXPENSES				50.90	_____

TOTAL SPECIFIED EXPENSES				116.78	_____

Table 6.B Estimated resource use and costs for field operations, per acre
Wholestalk seedcane harvest,
Sugarcane, Louisiana, 2017.

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 Harvester 2Rw	12 ft		0.388	1.00	Sep	22.72	21.70			0.42	6.53				50.95
SC Loader 2Rw	12 ft		0.300	1.00	Sep	11.63	12.88			0.33	3.53				28.04
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Sep	10.32	14.79	0.63	0.86	0.55	5.88				32.48
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.66	0.54	0.13	0.13	0.08	0.86				2.32
TOTALS						45.33	49.91	0.76	0.99	1.38	16.80			0.00	113.79
INTEREST ON OPERATING CAPITAL															2.99
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															116.78

Table 7.A Estimated costs per acre,
Billet seedcane harvest,
Sugarcane, Louisiana, 2017.

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	10.69	0.7400	7.92	_____
DIESEL FUEL					
Tractors	gal	1.85	5.4046	10.00	_____
Self-Propelled	gal	1.85	8.4000	15.54	_____
REPAIR & MAINTENANCE					
Implements	acre	5.46	1.0000	5.46	_____
Tractors	acre	3.04	1.0000	3.04	_____
Self-Propelled	acre	27.07	1.0000	27.07	_____
INTEREST ON OP. CAP.	acre	3.84	1.0000	3.84	_____

TOTAL DIRECT EXPENSES				84.65	_____
FIXED EXPENSES					
Implements	acre	4.20	1.0000	4.20	_____
Tractors	acre	18.29	1.0000	18.29	_____
Self-Propelled	acre	32.47	1.0000	32.47	_____

TOTAL FIXED EXPENSES				54.96	_____

TOTAL SPECIFIED EXPENSES				139.61	_____

Table 7.B Estimated resource use and costs for field operations, per acre
Billet seedcane harvest,
Sugarcane, Louisiana, 2017.

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 Billet Harvester	6 ft		0.700	1.00	Sep	42.61	32.47			0.77	11.78				86.86
SC Cane Wgn Billt HD 10Ton		MFWD 150	0.600	1.00	Sep	12.38	17.75	5.33	4.07	0.66	7.06				46.59
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.66	0.54	0.13	0.13	0.08	0.86				2.32
						-----					-----	-----			
TOTALS						55.65	50.76	5.46	4.20	1.51	19.70			0.00	135.77
INTEREST ON OPERATING CAPITAL															3.84
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															139.61

Table 8.A Estimated costs per acre,
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2017.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lb	9.50	1.5000	14.25	_____
Prowl 3.3 EC	pt	6.86	7.2000	49.39	_____
LA SC Planting Labor					
Special Labor	acre	25.00	3.0000	75.00	_____
LA Hired Labor					
Tractors	hour	10.69	2.0700	22.13	_____
DIESEL FUEL					
Tractors	gal	1.85	15.5083	28.68	_____
REPAIR & MAINTENANCE					
Implements	acre	15.13	1.0000	15.13	_____
Tractors	acre	8.77	1.0000	8.77	_____
INTEREST ON OP. CAP.	acre	1.05	1.0000	1.05	_____

TOTAL DIRECT EXPENSES				214.40	_____
FIXED EXPENSES					
Implements	acre	23.74	1.0000	23.74	_____
Tractors	acre	52.97	1.0000	52.97	_____

TOTAL FIXED EXPENSES				76.71	_____

TOTAL SPECIFIED EXPENSES				291.11	_____

Table 8.B Estimated resource use and costs for field operations, per acre
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2017.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST ----- DIRECT	FIXED	EQUIPMENT COST ----- DIRECT	FIXED	ALLOC LABOR HOURS	COST	OPERATING/DURABLE INPUT ----- AMOUNT	PRICE	INPUT COST	TOTAL COST
						-----dollars-----		-----dollars-----				-----dollars-----			
SC Rototiller	18 ft	MFWD 190	0.219	1.00	Sep	5.26	8.04	3.52	3.56	0.21	2.35				22.73
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Sep	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC 5Row (Opener)	18 ft	MFWD 150	0.075	1.00	Sep	1.41	2.02	0.29	0.36	0.07	0.80				4.88
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Cane Planters Aid	6 ft	MFWD 150	1.000	1.00	Sep	18.75	26.89	8.44	17.37	1.00	10.69				82.14
LA SC Planting Labor	acre									3.00	75.00				75.00
SC 5Row (Cover)	18 ft	MFWD 150	0.075	1.00	Sep	1.41	2.02	0.90	0.27	0.07	0.80				5.40
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.57	5.11	0.47	0.47	0.19	2.03				11.65
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Sep	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Sencor DF	lb											1.5000	9.50	14.25	14.25
Prowl 3.3 EC	pt											7.2000	6.86	49.39	49.39
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Oct	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Oct	0.66	0.54	0.13	0.13	0.08	0.86				2.32
						-----		-----							
TOTALS						37.45	52.97	15.13	23.74	5.07	97.13			63.64	290.06
INTEREST ON OPERATING CAPITAL															1.05
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															291.11

Table 9.A Estimated costs per acre,
Mechanical planting, 1-Row
Wholestalk, Sugarcane, Louisiana, 2017.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lb	9.50	1.5000	14.25	_____
Prowl 3.3 EC	pt	6.86	7.2000	49.39	_____
LA SC Planting Labor					
Special Labor	acre	25.00	2.0000	50.00	_____
LA Hired Labor					
Tractors	hour	10.69	1.7400	18.60	_____
DIESEL FUEL					
Tractors	gal	1.85	12.9604	23.97	_____
REPAIR & MAINTENANCE					
Implements	acre	10.38	1.0000	10.38	_____
Tractors	acre	7.29	1.0000	7.29	_____
INTEREST ON OP. CAP.	acre	7.98	1.0000	7.98	_____

TOTAL DIRECT EXPENSES				181.86	_____
FIXED EXPENSES					
Implements	acre	13.96	1.0000	13.96	_____
Tractors	acre	44.10	1.0000	44.10	_____

TOTAL FIXED EXPENSES				58.06	_____

TOTAL SPECIFIED EXPENSES				239.92	_____

Table 9.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2017.

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	5.26	8.04	3.52	3.56	0.21	2.35				22.73
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Sep	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC 5Row (Opener)	18 ft	MFWD 150	0.075	1.00	Sep	1.41	2.02	0.29	0.36	0.07	0.80				4.88
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Cane Plt-Whlstalk	6 ft	MFWD 150	0.670	1.00	Sep	12.56	18.02	3.69	7.59	0.67	7.16				49.02
LA SC Planting Labor	acre									2.00	50.00				50.00
SC 5Row (Cover)	18 ft	MFWD 150	0.075	1.00	Sep	1.41	2.02	0.90	0.27	0.07	0.80				5.40
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.57	5.11	0.47	0.47	0.19	2.03				11.65
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Sencor DF	lb											1.5000	9.50	14.25	14.25
Prowl 3.3 EC	pt											7.2000	6.86	49.39	49.39
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Nov	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.66	0.54	0.13	0.13	0.08	0.86				2.32
TOTALS						31.26	44.10	10.38	13.96	3.74	68.60				231.94
INTEREST ON OPERATING CAPITAL															7.98
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															239.92

Table 10.A Estimated costs per acre,
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2017.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lb	9.50	1.5000	14.25	_____
Prowl 3.3 EC	pt	6.86	7.2000	49.39	_____
LA SC Planting Labor					
Special Labor	acre	25.00	1.0000	25.00	_____
LA Hired Labor					
Tractors	hour	10.69	1.7400	18.60	_____
DIESEL FUEL					
Tractors	gal	1.85	12.9604	23.97	_____
REPAIR & MAINTENANCE					
Implements	acre	10.38	1.0000	10.38	_____
Tractors	acre	7.29	1.0000	7.29	_____
INTEREST ON OP. CAP.	acre	6.79	1.0000	6.79	_____

TOTAL DIRECT EXPENSES				155.67	_____
FIXED EXPENSES					
Implements	acre	13.96	1.0000	13.96	_____
Tractors	acre	44.10	1.0000	44.10	_____

TOTAL FIXED EXPENSES				58.06	_____

TOTAL SPECIFIED EXPENSES				213.73	_____

Table 10.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2017.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST ----- DIRECT	FIXED	EQUIPMENT COST ----- DIRECT	FIXED	ALLOC LABOR HOURS	COST	OPERATING/DURABLE INPUT ----- AMOUNT	PRICE	INPUT COST	TOTAL COST
						-----dollars-----		-----dollars-----				-----dollars-----			
SC Rototiller	18 ft	MFWD 190	0.219	1.00	Sep	5.26	8.04	3.52	3.56	0.21	2.35				22.73
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Sep	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC 5Row (Opener)	18 ft	MFWD 150	0.075	1.00	Sep	1.41	2.02	0.29	0.36	0.07	0.80				4.88
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Cane Plt-1R Bille	1 row	MFWD 150	0.670	1.00	Sep	12.56	18.02	3.69	7.59	0.67	7.16				49.02
LA SC Planting Labor	acre									1.00	25.00				25.00
SC 5Row (Cover)	18 ft	MFWD 150	0.075	1.00	Sep	1.41	2.02	0.90	0.27	0.07	0.80				5.40
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.57	5.11	0.47	0.47	0.19	2.03				11.65
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Sencor DF	lb											1.5000	9.50	14.25	14.25
Prowl 3.3 EC	pt											7.2000	6.86	49.39	49.39
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Nov	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.66	0.54	0.13	0.13	0.08	0.86				2.32
						-----		-----							
TOTALS						31.26	44.10	10.38	13.96	2.74	43.60			63.64	206.94
INTEREST ON OPERATING CAPITAL															6.79
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															213.73

Table 11.A Estimated costs per acre,
Plant cane field operations,
Sugarcane, Louisiana, 2017.

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	0.32	80.0000	25.60	_____
LA Potash	lb	0.26	80.0000	20.80	_____
HERBICIDES					
Sencor DF	lb	9.50	0.7500	7.13	_____
Prowl 3.3 EC	pt	6.86	3.6000	24.70	_____
LA Weedmaster	qt	6.15	0.7500	4.61	_____
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	1.63	3.2000	5.22	_____
LA Hired Labor					
Tractors	hour	10.69	1.6679	17.83	_____
DIESEL FUEL					
Tractors	gal	1.85	11.3340	20.94	_____
REPAIR & MAINTENANCE					
Implements	acre	5.18	1.0000	5.18	_____
Tractors	acre	6.15	1.0000	6.15	_____
INTEREST ON OP. CAP.	acre	4.96	1.0000	4.96	_____

TOTAL DIRECT EXPENSES				224.88	_____
FIXED EXPENSES					
Implements	acre	6.62	1.0000	6.62	_____
Tractors	acre	36.81	1.0000	36.81	_____

TOTAL FIXED EXPENSES				43.43	_____

TOTAL SPECIFIED EXPENSES				268.31	_____

Table 11.B Estimated resource use and costs for field operations, per acre
Plant cane field operations,
Sugarcane, Louisiana, 2017.

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	1.00	Feb	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Sencor DF	lb											0.7500	9.50	7.13	7.13
Prowl 3.3 EC	pt											3.6000	6.86	24.70	24.70
LA Weedmaster	qt											0.7500	6.15	4.61	4.61
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	2.44	3.50	0.36	0.55	0.13	1.39				8.24
LA Nitrogen	lb											80.0000	0.32	25.60	25.60
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	2.00	Mar	2.81	4.03	0.86	1.04	0.15	1.60				10.34
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Apr	1.13	1.61	0.23	0.32	0.05	0.64				3.93
LA Potash	lb											80.0000	0.26	20.80	20.80
Disk Bed (Hipper)	4R-38	MFWD 150	0.147	1.00	Apr	2.77	3.97	0.32	0.86	0.14	1.58				9.50
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Apr	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.25	3.23	0.26	0.28	0.12	1.28				7.30
LA Asulox/Asulam	gal											0.5000	38.80	19.40	19.40
Surfactant	pt											1.6000	1.63	2.61	2.61
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Treflan HFP	pt											4.0000	2.90	11.60	11.60
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Atrazine 4L	pt											4.0000	1.50	6.00	6.00
Surfactant	pt											1.6000	1.63	2.61	2.61
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						27.09	36.81	5.18	6.62	1.66	17.83			169.82	263.35
INTEREST ON OPERATING CAPITAL															4.96
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															268.31

Table 12.A Estimated costs per acre,
First Stubble field operations,
Sugarcane, Louisiana, 2017.

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	0.32	100.0000	32.00	_____
LA Phosphate	lb	0.49	40.0000	19.60	_____
LA Potash	lb	0.26	100.0000	26.00	_____
Sulfur	lb	0.34	24.0000	8.16	_____
HERBICIDES					
Sencor DF	lb	9.50	0.7500	7.13	_____
Prowl 3.3 EC	pt	6.86	3.6000	24.70	_____
LA Weedmaster	qt	6.15	0.7500	4.61	_____
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	0.14	8.0000	1.12	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	1.63	4.8000	7.82	_____
LA Hired Labor					
Tractors	hour	10.69	1.7904	19.13	_____
DIESEL FUEL					
Tractors	gal	1.85	12.2793	22.68	_____
REPAIR & MAINTENANCE					
Implements	acre	5.98	1.0000	5.98	_____
Tractors	acre	6.70	1.0000	6.70	_____
INTEREST ON OP. CAP.	acre	6.38	1.0000	6.38	_____

TOTAL DIRECT EXPENSES				277.78	_____
FIXED EXPENSES					
Implements	acre	7.10	1.0000	7.10	_____
Tractors	acre	40.10	1.0000	40.10	_____

TOTAL FIXED EXPENSES				47.20	_____

TOTAL SPECIFIED EXPENSES				324.98	_____

Table 12.B Estimated resource use and costs for field operations, per acre
First Stubble field operations,
Sugarcane, Louisiana, 2017.

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	2.81	4.03	0.86	1.05	0.15	1.60				10.35
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Sencor DF	lb											0.7500	9.50	7.13	7.13
Prowl 3.3 EC	pt											3.6000	6.86	24.70	24.70
LA Weedmaster	qt											0.7500	6.15	4.61	4.61
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	2.44	3.50	0.36	0.55	0.13	1.39				8.24
LA Nitrogen	lb											100.0000	0.32	32.00	32.00
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Mar	2.81	4.03	0.86	1.05	0.15	1.60				10.35
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.13	1.61	0.23	0.32	0.05	0.64				3.93
LA Phosphate	lb											40.0000	0.49	19.60	19.60
LA Potash	lb											100.0000	0.26	26.00	26.00
Sulfur	lb											24.0000	0.34	8.16	8.16
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Mar	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Surfactant	pt											1.6000	1.63	2.61	2.61
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Apr	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.25	3.23	0.26	0.28	0.12	1.28				7.30
LA Asulox/Asulam	gal											0.5000	38.80	19.40	19.40
Surfactant	pt											1.6000	1.63	2.61	2.61
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Treflan HFP	pt											4.0000	2.90	11.60	11.60
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Atrazine 4L	pt											4.0000	1.50	6.00	6.00
Surfactant	pt											1.6000	1.63	2.61	2.61
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	0.14	1.12	1.12
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						29.38	40.10	5.98	7.10	1.79	19.13			216.91	318.60
INTEREST ON OPERATING CAPITAL															6.38
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															324.98

Table 13.A Estimated costs per acre,
Second Stubble and older field operations,
Sugarcane, Louisiana, 2017.

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	0.32	110.0000	35.20	_____
LA Phosphate	lb	0.49	40.0000	19.60	_____
LA Potash	lb	0.26	100.0000	26.00	_____
Sulfur	lb	0.34	24.0000	8.16	_____
HERBICIDES					
Sencor DF	lb	9.50	0.7500	7.13	_____
Prowl 3.3 EC	pt	6.86	3.6000	24.70	_____
LA Weedmaster	qt	6.15	0.7500	4.61	_____
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	0.14	8.0000	1.12	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	1.63	3.2000	5.22	_____
LA Hired Labor					
Tractors	hour	10.69	1.6703	17.85	_____
DIESEL FUEL					
Tractors	gal	1.85	11.3525	20.97	_____
REPAIR & MAINTENANCE					
Implements	acre	5.72	1.0000	5.72	_____
Tractors	acre	6.16	1.0000	6.16	_____
INTEREST ON OP. CAP.	acre	6.31	1.0000	6.31	_____

TOTAL DIRECT EXPENSES				274.51	_____
FIXED EXPENSES					
Implements	acre	6.82	1.0000	6.82	_____
Tractors	acre	36.87	1.0000	36.87	_____

TOTAL FIXED EXPENSES				43.69	_____

TOTAL SPECIFIED EXPENSES				318.20	_____

Table 13.B Estimated resource use and costs for field operations, per acre
Second Stubble and older field operations,
Sugarcane, Louisiana, 2017.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER		POWER UNIT COST DIRECT	COST FIXED	EQUIPMENT COST DIRECT	COST FIXED	ALLOC LABOR HOURS	COST	OPERATING/DURABLE INPUT AMOUNT	PRICE	INPUT COST	TOTAL COST
-----dollars-----															
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Feb	2.81	4.03	0.86	1.05	0.15	1.60				10.35
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	2.44	3.50	0.36	0.55	0.13	1.39				8.24
LA Nitrogen	lb											110.0000	0.32	35.20	35.20
SC 5Row (Offbar)	18 ft	MFWD 150	0.075	2.00	Mar	2.81	4.03	0.86	1.05	0.15	1.60				10.35
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.13	1.61	0.23	0.32	0.05	0.64				3.93
LA Phosphate	lb											40.0000	0.49	19.60	19.60
LA Potash	lb											100.0000	0.26	26.00	26.00
Sulfur	lb											24.0000	0.34	8.16	8.16
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Mar	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Sencor DF	lb											0.7500	9.50	7.13	7.13
Prowl 3.3 EC	pt											3.6000	6.86	24.70	24.70
LA Weedmaster	qt											0.7500	6.15	4.61	4.61
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	Apr	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.25	3.23	0.26	0.28	0.12	1.28				7.30
LA Asulox/Asulam	gal											0.5000	38.80	19.40	19.40
Surfactant	pt											1.6000	1.63	2.61	2.61
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.66	0.54	0.13	0.13	0.08	0.86				2.32
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Treflan HFP	pt											4.0000	2.90	11.60	11.60
SC 5Row (Hipper)	18 ft	MFWD 150	0.075	1.00	May	1.41	2.02	0.43	0.52	0.07	0.80				5.18
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.25	3.23	0.26	0.28	0.12	1.28				7.30
Atrazine 4L	pt											4.0000	1.50	6.00	6.00
Surfactant	pt											1.6000	1.63	2.61	2.61
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	0.14	1.12	1.12
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						27.13	36.87	5.72	6.82	1.67	17.85			217.50	311.89
INTEREST ON OPERATING CAPITAL															6.31
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															318.20

Table 14.A Estimated costs per acre,
Harvest-1R Combine Harvester, 10-Ton High Dump wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2017.

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	10.69	2.0600	22.04	_____
DIESEL FUEL					
Tractors	gal	1.85	15.5962	28.86	_____
Self-Propelled	gal	1.85	8.4000	15.54	_____
REPAIR & MAINTENANCE					
Implements	acre	16.12	1.0000	16.12	_____
Tractors	acre	8.94	1.0000	8.94	_____
Self-Propelled	acre	27.07	1.0000	27.07	_____
INTEREST ON OP. CAP.	acre	5.68	1.0000	5.68	_____

TOTAL DIRECT EXPENSES				136.03	_____
FIXED EXPENSES					
Implements	acre	12.34	1.0000	12.34	_____
Tractors	acre	53.79	1.0000	53.79	_____
Self-Propelled	acre	32.47	1.0000	32.47	_____

TOTAL FIXED EXPENSES				98.60	_____

TOTAL SPECIFIED EXPENSES				234.63	_____

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, 2017.

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 Billet Harvester	6 ft		0.700	1.00	Nov	42.61	32.47			0.77	11.78				86.86
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Nov	12.38	17.75	5.33	4.07	0.66	7.06				46.59
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Nov	12.38	17.75	5.33	4.07	0.66	7.06				46.59
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Nov	12.38	17.75	5.33	4.07	0.66	7.06				46.59
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.66	0.54	0.13	0.13	0.08	0.86				2.32
TOTALS						80.41	86.26	16.12	12.34	2.83	33.82			0.00	228.95
INTEREST ON OPERATING CAPITAL															5.68
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															234.63

Table 15.A Estimated costs per acre,
Harvest-2-row Wholestalk, 10-ton transfer wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2017.

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	10.69	1.2499	13.36	_____
Self-Propelled	hour	10.69	0.6053	6.47	_____
DIESEL FUEL					
Tractors	gal	1.85	9.0717	16.79	_____
Self-Propelled	gal	1.85	6.3811	11.80	_____
REPAIR & MAINTENANCE					
Implements	acre	1.51	1.0000	1.51	_____
Tractors	acre	5.17	1.0000	5.17	_____
Self-Propelled	acre	28.47	1.0000	28.47	_____
INTEREST ON OP. CAP.	acre	3.92	1.0000	3.92	_____

TOTAL DIRECT EXPENSES				94.02	_____
FIXED EXPENSES					
Implements	acre	2.14	1.0000	2.14	_____
Tractors	acre	31.11	1.0000	31.11	_____
Self-Propelled	acre	41.24	1.0000	41.24	_____

TOTAL FIXED EXPENSES				74.49	_____

TOTAL SPECIFIED EXPENSES				168.51	_____

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, 2017.

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 Harvester 2Rw	12 ft		0.388	1.00	Nov	22.72	21.70			0.42	6.53				50.95
SC Burning Unit	18 ft	MFWD 75	0.149	1.00	Nov	1.32	1.53	0.25	0.42	0.14	1.60				5.12
SC Loader 2Rw	12 ft		0.300	1.00	Nov	11.63	12.88			0.33	3.53				28.04
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	10.32	14.79	0.63	0.86	0.55	5.88				32.48
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	10.32	14.79	0.63	0.86	0.55	5.88				32.48
SC Transloader			0.250	1.00	Nov	5.92	6.66			0.27	2.94				15.52
						-----	-----	-----	-----	-----	-----				-----
TOTALS						62.23	72.35	1.51	2.14	2.28	26.36			0.00	164.59
INTEREST ON OPERATING CAPITAL															3.92
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															168.51

Appendix Table 1. Estimated fuel prices, labor wage rates, and interest rates, Louisiana 2017.

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	1.85
LABOR TYPES		
Operator	hour	15.30
Hired	hour	10.69
Special	acre	25.00
INTEREST RATES		
Short-term	%	4.75
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 2017.

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	32,200	600	8	2.57	10.69	4.76	1.00	16.45	6.05	22.51
Tractor(40-59hp)Cab	MFWD 50	39,100	600	8	2.57	10.69	4.76	1.22	16.67	7.35	24.02
Tractor(40-59hp)RB	2WD 50	20,900	600	8	2.57	10.69	4.76	0.65	16.10	3.93	20.03
Tractor(40-59hp)RB	MFWD 50	24,300	600	8	2.57	10.69	4.76	0.75	16.21	4.56	20.78
Tractor(60-89hp)CAB	2WD 75	48,300	600	8	3.86	10.69	7.14	1.50	19.34	9.08	28.42
Tractor(60-89hp)CAB	MFWD 75	54,100	600	8	3.86	10.69	7.14	1.69	19.52	10.17	29.69
Tractor(60-89hp)RB	2WD 75	34,400	600	8	3.86	10.69	7.14	1.07	18.90	6.46	25.37
Tractor(60-89hp)RB	MFWD 75	35,800	600	8	3.86	10.69	7.14	1.11	18.95	6.73	25.68
Tractor(90-119hp)CB	2WD 105	65,300	600	8	5.40	10.69	9.99	2.04	22.72	12.28	35.00
Tractor(90-119hp)CB	MFWD 105	77,400	600	8	5.40	10.69	9.99	2.41	23.10	14.55	37.66
Tractor(90-119hp)RB	2WD 105	57,600	600	8	5.40	10.69	9.99	1.80	22.48	10.83	33.32
Tractor(90-119hp)RB	MFWD 105	62,100	600	8	5.40	10.69	9.99	1.94	22.62	11.67	34.30
Tractor(120-139hp)CB	2WD 130	177,000	600	8	6.69	10.69	12.37	5.53	28.60	33.28	61.88
Tractor(120-139hp)CB	MFWD 130	123,000	600	8	6.69	10.69	12.37	3.84	26.91	23.13	50.04
Tractor(140-159hp)CB	2WD 150	108,000	600	8	7.72	10.69	14.28	3.37	28.34	20.30	48.65
Tractor(140-159hp)CB	MFWD 150	143,000	600	8	7.72	10.69	14.28	4.46	29.44	26.89	56.33
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	10.69	16.18	4.87	31.75	30.69	62.45
Tractor(160-179hp)CB	MFWD 170	170,000	600	8	8.75	10.69	16.18	5.31	32.19	33.45	65.64
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.69	17.14	4.45	32.29	28.08	60.37
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	10.69	18.09	4.46	33.25	28.13	61.39
Tractor(180-199hp)CB	MFWD 190	186,000	600	8	9.77	10.69	18.09	5.81	34.59	36.60	71.19
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.69	21.42	4.59	36.71	28.93	65.65
Tractor(200-249hp)CB	MFWD 225	218,000	600	8	11.58	10.69	21.42	6.81	38.92	42.89	81.82
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	10.69	21.42	8.65	40.77	54.50	95.28
Tractor(250-349hp)CB	4WD 300	282,000	600	8	15.44	10.69	28.56	8.81	48.06	55.49	103.56
Tractor(250-349hp)CB	Track 300	292,000	600	8	15.44	10.69	28.56	9.12	48.38	57.46	105.84
Tractor(350-449hp)CB	4WD 400	325,000	600	8	20.58	10.69	38.08	10.15	58.93	63.95	122.89
Tractor(350-449hp)CB	Track 400	364,000	600	8	20.58	10.69	38.08	11.37	60.15	71.62	131.78
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.69	45.23	8.74	64.66	55.07	119.74

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 2017.

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/acre	-----\$/acre-----					
LA Pickup Truck	1/2 ton	25,000	800	5	2.50	1.000	10.69	4.75	2.81	18.25	6.65	24.90
SC Billet Harvester	6 ft	290,000	750	10	12.00	0.700	11.78	15.54	27.06	54.38	32.47	86.85
SC Harvester 1Rw	6 ft	115,000	400	12	6.80	0.875	14.72	11.00	20.96	46.69	26.80	73.49
SC Harvester 2Rw	12 ft	210,000	400	12	8.00	0.388	6.53	5.74	16.97	29.24	21.70	50.95
SC Loader 1Rw	6 ft	85,000	425	10	5.10	0.598	7.04	5.64	8.74	21.43	14.55	35.99
SC Loader 2Rw	12 ft	150,000	425	10	7.00	0.300	3.53	3.88	7.73	15.15	12.88	28.04
SC Transloader		30,000	120	12	4.70	0.250	2.93	2.17	3.75	8.86	6.65	15.52
SC Truck&Trailer	30 Ton	45,000	400	10	7.00	1.000	11.75	12.95	7.87	32.58	13.67	46.25
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.18	0.09	0.59	0.63	1.23
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.13	0.07	0.44	0.47	0.92
Sprayer(600-750Gal)	60'	193,000	350	8	10.29	0.017	0.31	0.33	0.18	0.82	1.19	2.02
Sprayer(600-825Gal)	80'	202,000	350	8	10.29	0.013	0.23	0.25	0.14	0.62	0.94	1.56
Sprayer(600-825Gal)	90'	273,000	350	8	10.29	0.011	0.20	0.22	0.17	0.60	1.13	1.73
Sprayer(1000-1400Gal)	90'	294,000	350	8	14.15	0.014	0.24	0.36	0.22	0.84	1.46	2.30
Sprayer(1200PlusGal)	120'	343,000	350	8	15.44	0.008	0.15	0.25	0.16	0.56	1.06	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 2017.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Total		---Fixed--- Total			
									Imp. P.U.	Direct	Imp. P.U.	Cost		
			dollars	hours	years	hr/ac			\$/acre					
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.28	1.72	1.43	0.53	4.98	0.44	3.23	8.66
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.28	1.71	0.68	0.53	4.22	0.82	3.22	8.27
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.28	1.71	0.58	0.53	4.12	0.69	3.22	8.04
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.28	1.71	0.69	0.53	4.22	0.83	3.22	8.29
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.28	1.71	0.46	0.53	4.00	0.56	3.22	7.80
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.28	2.17	1.11	0.69	5.26	1.34	4.39	11.00
SC 5Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.075	0.80	1.07	0.89	0.33	3.10	0.27	2.01	5.39
SC 5Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.075	0.80	1.07	0.42	0.33	2.63	0.51	2.01	5.17
SC 5Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.075	0.80	1.07	0.36	0.33	2.57	0.43	2.01	5.02
SC 5Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.075	0.80	1.07	0.43	0.33	2.64	0.52	2.01	5.18
SC 5Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.075	0.80	1.07	0.29	0.33	2.50	0.35	2.01	4.87
SC 5Row (Plow)	18 ft	MFWD 150	17,000	200	9	0.075	0.80	1.07	0.69	0.33	2.90	0.83	2.01	5.75
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	9.37	12.52	2.55	3.91	28.38	2.19	23.58	54.16
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.28	1.71	0.25	0.53	3.78	0.28	3.22	7.30
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.60	1.49	0.24	0.30	3.65	0.41	1.84	5.91
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	10.69	14.28	8.43	4.46	37.87	17.37	26.89	82.14
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	7.16	9.57	3.68	2.99	23.41	7.58	18.01	49.01
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	2.13	0.95	5.10	0.13	8.32	10.50	0.78	19.60
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	7.16	9.57	3.68	2.99	23.41	7.58	18.01	49.01
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	5.87	7.85	0.62	2.45	16.81	0.85	13.44	31.12
SC Cane Wgn Billt HD	10Ton	MFWD 150	40,000	750	9	0.600	7.05	9.42	5.33	2.94	24.76	4.06	16.13	44.96
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.34	3.97	0.96	1.27	8.57	1.20	8.04	17.81
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.28	2.17	0.49	0.69	4.64	1.31	4.39	10.35
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.17	1.09	0.29	0.22	2.79	0.46	1.35	4.60
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.17	1.78	0.39	0.53	3.89	0.54	3.37	7.81
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.49	2.00	0.32	0.47	4.30	0.45	2.84	7.60
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.60	0.71	0.56	0.09	2.97	0.77	0.58	4.33
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	1.06	1.80	0.77	0.58	4.22	1.06	3.66	8.95
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.74	1.13	0.64	0.34	2.86	0.89	2.14	5.91
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	1.06	1.61	0.40	0.48	3.58	0.56	3.06	7.21
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	0.85	0.57	0.13	0.08	1.64	0.13	0.53	2.31
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.39	1.85	0.36	0.58	4.19	0.55	3.49	8.24
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.64	0.85	0.22	0.26	1.99	0.31	1.61	3.92
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	2.03	2.71	0.47	0.84	6.07	0.46	5.11	11.65
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	10.69	21.42	0.13	4.59	36.84	0.18	28.93	65.96
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	3.21	4.28	0.66	1.34	9.50	1.37	8.07	18.95
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.67	3.57	3.12	1.11	10.48	3.79	6.72	21.00
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.85	0.99	0.41	0.44	2.70	0.50	2.66	5.86
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.67	1.78	0.51	0.27	5.25	1.41	1.68	8.35
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.34	3.97	3.51	1.27	11.11	3.56	8.04	22.72
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	10.69	9.99	0.86	2.04	23.59	3.20	12.28	39.08
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.17	1.09	0.04	0.22	2.54	0.06	1.35	3.95
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	10.69	12.37	0.23	5.53	28.83	0.91	33.28	63.03
SCMechanical Planter	6 ft	MFWD 150	15,500	160	10	1.000	10.69	14.28	7.26	4.46	36.70	11.77	26.89	75.37

Appendix Table 5. Operating Inputs: Estimated Prices for 2017.

ITEM NAME	UNIT	PRICE
CUSTOM FERT/LIME		
App Fert by Air(Min)	appl	7.00
Custom Apply Fert	acre	7.00
Custom Spread(Truc	appl	4.50
Lime (Spread)	ton	46.00
CUSTOM HARVEST/HAUL		
Custom Combine Rice	acre	0.00
Haul Corn	bu	0.23
Haul Cotton	lb	0.02
Haul Rice	bu	0.35
Haul Rice (cwt)	cwt	0.25
Haul Sorghum	bu	0.25
Haul Soybeans	bu	0.27
Haul Wheat	bu	0.26
LARice Haul	cwt	0.30
CUSTOM PLANT		
Custom Spread + Seed	appl	0.00
LARice Air Plant NE	cwt	5.50
LARice Air Plant SW	cwt	5.60
Plant by Air	cwt	7.00
CUSTOM SPRAY		
App 2,4-D Helicopter	appl	0.00
App by Air (1 gal)	appl	2.50
App by Air (2 gal)	appl	4.00
App by Air (3 gal)	appl	5.00
App by Air (5 gal)	appl	6.50
App by Air (10 gal)	appl	8.50
App Furadan by Air	appl	0.00
App Ordram by Air	appl	0.00
Custom Apply	acre	7.00
Custom Terragator	acre	5.00
LARice GPS Charge-SW	acre	0.35
LARice GPS Charge_NE	acre	0.25
Spray Levees, 4whlr	acre	0.00
FERTILIZERS		
Amm Nitrate (34% N)	cwt	22.50
Amm Sulfate (21% N)	cwt	17.23
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	4.60
DAP	cwt	24.82
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	28.58
Fert 10-34-0	gal	0.00
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	16.85
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.32
LA Phosphate	lb	0.49
LA Potash	lb	0.26
Phosphorus(46% P205)	cwt	21.88
Potash (60% K20)	cwt	16.97
Sulfur	lb	0.34
UAN (32% N)	cwt	14.31
UAN + Sulfur (28% N)	cwt	14.48
Urea, Solid (46% N)	cwt	16.78
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.93
Apron XL	oz	6.98
Apron XL LS	oz	5.27
Benlate 50 WP	lb	15.95
Captan 4L	pt	2.83
Captan 50 WP	lb	5.41
Crop Oil (Petroleum)	pt	3.86
Cruiser 5FS	oz	17.38
Delta Coat AD	oz	3.75
Dithane F-45	qt	9.08
Dithane Rainsheild	lb	4.15
Fungicide	lb	2.82

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2017.

ITEM NAME	UNIT	PRICE
FUNGICIDES CONT'D		
Gem 25 WG	oz	3.70
Manzate 75 DF	lb	5.54
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	38.35
Orbit	oz	2.75
Prevail	lb	28.50
Quadris	oz	2.66
Ridomil GoldPC 10G	lb	2.08
Ridomil Gold PC	lb	5.30
Ridomil Gold PC Liq	oz	6.54
Rovral 4F	pt	16.97
Rovral WG	lb	0.00
Shelter	oz	8.50
Stiletto	oz	0.58
Stratego	pt	25.00
Terrachlor Flowable	pt	4.74
Terraclor 2EC	pt	1.87
Terraclor Super X EC	pt	3.95
Terraclor Super X G	lb	2.82
Tilt 3.6 EC	oz	0.85
Vitavax 200	oz	0.47
Vitavax M Flowable	oz	1.06
Vitavax RTU-Thiram	oz	0.40
Vitavax T-L	oz	0.29
GIN/DRY		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Rice	bu	0.40
Dry Rice (cwt)	cwt	0.90
Gin	lb	0.11
LARice Dry	cwt	0.90
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
LA Polado	oz	0.14
Mepex	oz	0.13
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.39
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	7.01
CottonQuik	pt	6.06
Def 6	pt	6.88
Def/Folex	pt	7.55
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.09
Ethephon 6E	pt	3.38
Finish 6	pt	10.25
Folex 6EC	pt	9.32
Ginstar EC	pt	30.23
Gramoxone Extra	pt	4.86
Gramoxone Inteon	oz	0.26
Gramoxone Max	pt	4.06
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	2.75
Sodium Chlorate 3L	gal	3.50
Sodium Chlorate 6L	gal	5.57
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.88
2,4-D Ester	pt	3.00
AAtrex 4L	pt	2.58
AAtrex NINE-O	lb	4.52
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.16
Aim DF	oz	9.65
App Fert by Air	cwt	7.00
Arrosolo	qt	7.88
Assure II	oz	0.84

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2017.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	3.60
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	15.02
Basagran	pt	15.81
Basis Gold	lb	9.00
Beacon 75% WSP	oz	34.87
Beyond	oz	4.97
Bicep II Magnum	qt	11.69
Bicep II zmsgnum	qt	10.97
Bladex 4L	qt	0.00
Bladex 90DF	lb	0.00
Blazer 2L	pt	0.00
Blazer Ultra	pt	9.79
Boa	pt	3.63
Bolero 8EC	pt	7.67
Boundary	pt	10.18
Buctril 4EC	pt	17.06
Butoxone 175(2,4-DB)	pt	3.24
Butoxone 200(2,4-DB)	pt	3.92
Butyrac 175 (2,4-DB)	pt	3.55
Butyrac 200 (2,4-DB)	pt	4.77
Canopy 75%	oz	2.70
Canopy XL	oz	2.23
Caparol 4L	pt	4.44
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.18
Classic	oz	16.95
Clincher EC	oz	2.30
Cobra 2EC	oz	1.68
Command 3ME	pt	18.50
Command XTRA	pt	0.00
Conclude Ultra	pt	0.00
Conclude Ultra	pt	0.00
Conclude XACT	pt	11.32
Conclude XTRA	pt	8.32
Cornerstone	pt	2.50
Cotoran 4L	pt	6.31
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.98
Crossbow	pt	8.05
Cy-Pro 4L	qt	0.00
Cypro 90DF	lb	0.00
Delta Goal	pt	9.44
Denim 0.16 EC	pt	24.06
Detail	pt	7.99
Direx 4L	pt	3.29
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.36
Diuron 80 DF	lb	5.81
Domain 60DF	lb	12.75
DSMA 4	pt	0.90
Dual 8E	pt	0.00
Dual II Magnum	pt	13.50
Dual Magnum	pt	14.97
Duet	pt	4.75
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.95
Facet 75DF	lb	50.00
First Rate	oz	41.21
Flexstar HL	pt	4.50
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63
Fultime	pt	6.29

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2017.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Fusilade DX	oz	1.13
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	1.88
Glystar Plus	pt	2.64
Goal 2XL	pt	10.80
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	5.46
Gramoxone Max	pt	5.46
Grandstand R	qt	17.15
Guardsman	pt	4.66
Guardsman Max	pt	7.22
Harmony Extra	oz	12.02
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	38.80
LA Weedmaster	qt	6.15
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	12.60
Lexone 75DF	lb	18.90
Liberty	pt	8.84
Lightning	oz	14.25
Lightning	oz	14.25
Linex 4L	pt	11.23
Londax 60DF	oz	20.27
Lorox 50DF	lb	26.36
Matador	pt	0.00
MSMA 6.6	pt	3.66
MSMA6 + Surfactant	pt	2.63
Newpath 2SL	oz	3.63
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	19.31
Pendimax 3.3	pt	2.47
Permit 75DF	oz	18.50
Poast 1.53	pt	13.41
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	6.86
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.58
Raptor	oz	4.96
Reflex 2LC	pt	6.56
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	29.40
Ricestar	pt	24.54
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	2.25
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.08
Scepter 70 DG	oz	5.06
Select 2EC	oz	0.78
Sencor 4F	pt	14.74
Sencor DF	lb	9.50
Squadron CE	pt	4.55
Stam 4E	qt	5.12
Stam 80 EDF	lb	10.85
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.40
Steel	pt	10.28
Storm	pt	12.75
Strongarm	oz	62.62
Superwham	qt	9.78
Suprend	lb	13.49

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2017.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Surpass 20G	lb	2.36
Surpass EC	qt	29.04
Touchdown	qt	9.32
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	8.38
Treflan HFP	pt	2.90
Treflan TR-10	lb	1.10
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	4.01
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	6.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	8.69
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.92
Asana .66 XL	oz	0.67
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.30
Bidrin 8L	oz	0.90
Brigade EC	pt	3.50
Brigade WSB	lb	26.04
Capture 2EC	oz	2.40
Carbamate	oz	0.00
Centric 40WG	oz	5.21
Comite	pt	9.46
Condor XL	pt	0.00
Confirm 2F	oz	1.86
Counter 15G	lb	4.51
Counter CR	lb	2.65
Curacron 8E	pt	10.75
Decis 1.5EC	oz	2.84
Declare	pt	4.08
Denim 0.16EC	pt	32.63
Di-Syston 15G	lb	3.48
Di-Syston 8	pt	14.32
Diamond .83EC	pt	21.84
Dimethoate 4E	pt	5.88
Dimilin 2L	oz	2.12
Dipel DF	lb	14.47
Dipel ES	pt	5.50
Force 3G	lb	7.41
Furadan 3G	lb	0.00
Furadan 4F	pt	9.81
Fury 1.5 EC	oz	1.30
Gaucho 480	oz	5.80
Intrepid 2F	oz	1.80
Intruder 70WP	oz	10.99
Karate Z	oz	3.40
Lannate LV	pt	12.23
Lannate SP	oz	2.42
Larvin 3.2	oz	0.63
Leverage 2.7	oz	1.95
Lorsban 15G	lb	2.40
Lorsban 4E	pt	6.66
Malathion 57EC	pt	4.23
Malathion 8E	pt	5.33
Malathion ULV	pt	4.93
Mepichlor 4.2% Liq	pt	5.91
Methyl Parathion	pt	5.79
Monitor 4	pt	16.50
Monitor 4	pt	16.50
Mustang Max	oz	1.48
Organophosphate	oz	0.00
Orthene 90S	lb	5.75
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2017.

ITEM NAME	UNIT	PRICE
INSECTICIDES CONT'D		
Penncap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	16.80
Pounce 3.2 EC	oz	0.91
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	15.07
Spintor 2SC	oz	4.93
Steward	pt	39.51
Surfactant	pt	3.69
Synthetic Pyrethroid	oz	0.00
Temik 15G Grit	lb	4.00
Thimet 20-G	lb	3.65
Thionex 3EC	pt	4.17
Thionex 50W	lb	10.45
Tracer	oz	9.73
Trimax	oz	1.85
Vydate C-LV	oz	0.93
Warrior Z	oz	1.80
Warrior ZT	oz	1.88
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.25
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LARice Insurance	Dollar	1.00
LARice Misc. Overhd	dollar	1.00
LARice Property Tax	dollar	1.00
Shops Bldg & Equip.	Dol	6.55
SERVICE FEE		
Utilities	Dol	1.00
SEED/PLANTS		
Corn Seed Bt	thous	2.60
Corn Seed BtRR	thous	3.89
Corn Seed Conv.	thous	2.59
Corn Seed RR	thous	3.44
Corn Seed VT3	thous	3.52
Corn Seed VT3Pro	thous	3.52
Cotton Seed BG/RR	thous	0.62
Cotton Seed BGII/RRF	thous	0.61
Cotton Seed Bt	thous	0.28
Cotton Seed BtRR	thous	1.26
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
Cotton Seed WS	thous	0.49
Cotton Seed WS/RR	thous	0.00
Cotton Seed WS/RRF	thous	0.59
Rice Clearfield 161	lb	1.05
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.38
Rice Seed CF(Levees)	lb	1.65
Rice Seed Conv.	lb	0.38
Rice Seed Hybrid	lb	5.57
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	3.16
Sorghum Hybrid Sudax	lb	1.20
Sorghum NonConcept	lb	1.18
Soybean Seed LL	lb	1.16
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	0.90
Soybean Seed Stack	lb	1.28
Wheat Seed Private	lb	0.25
Wheat Seed Public	lb	0.00

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2017.

ITEM NAME	UNIT	PRICE
TECHNOLOGY FEE CONT'D		
SERVICE FEE		
Cotton Checkoff	bale	2.56
Cotton Storage	bale	25.00
Crop Consultant	acre	7.00
Insect Scouting	acre	7.00
Rice Consultant	acre	8.00
SC Treating Charge	acre	0.00
Survey & Mark Levees	acre	4.50
Survey & Mark Levees	acre	4.50

