

Projected Costs and Returns Crop Enterprise Budgets for Sugarcane Production in Louisiana, 2019

Michael A. Deliberto and Brian M. Hilbun



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www.lsuagcenter.com**

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PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR SUGARCANE PRODUCTION IN LOUISIANA, 2019

by

Michael A. Deliberto and Brian M. Hilbun¹

¹ Assistant Professor and Research Associate

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 2019 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 2019 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 2019 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 include 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 2019 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 \$10.73 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 6.0% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was \$2.50 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 6.5%. 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, 2019.

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: (\$0.260/lb; 5,639,400 lbs.)					
Plantcane (9,000 lbs/acre)	2,340.00	201.6	471,744		
1st stubble (8,370 lbs/acre)	2,176.20	250.0	544,050		
2nd stubble (6,930 lbs/acre)	1,081.80	250.0	450,450		
Total sugar (8,033 lbs/acre avg.)			1,466,244	1,466.24	0.260
Molasses: (\$0.55/gal; 169,182 gallons)	--	--	93,050		
TOTAL GROSS VALUE			1,559,294	1,559.29	0.277
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	571,835		
Molasses	--	--	46,525		
Total mill charge			618,360	618.36	0.110
NET RETURNS TO LAND AND PRODUCER			940,934	940.93	0.167
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	149,366		
Molasses(16.7% after mill charge)	--	--	7,770		
Total land charge			157,136	157.14	0.028
PRODUCER INCOME					
Sugar and Molasses	--	--	783,798	783.80	0.139
ASCL Check Off (\$0.14 /ton)	--	--	(3,509)		
Total Income			780,289	780.29	0.138
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	132.59	250.0	33,148		
Cultured Seed Cane	531.39	4.1	2,173		
Hand Planting	218.77	4.1	895		
Wholestalk Seedcane Harvest	75.80	49.2	3,729		
Mechanical Planting - Wholestalk	186.64	245.9	45,895		
Plant Cane Field Operations	248.99	250.0	62,248		
1st Stubble Field Operations	309.40	250.0	77,350		
2nd Stubble Field Operations	306.46	250.0	76,615		
Harvest for Sugar 4/	156.03	700.8	109,346		
Total variable expenses			411,398	411.40	0.073
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			368,891	368.89	0.065
FIXED PRODUCTION EXPENSES 5/		1,000.0	150,889	150.89	0.027
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			218,002	218.00	0.039
FARM OVERHEAD EXPENSES		1,000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			188,002	188.00	0.033

- 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 26.0 cents per pound and molasses at 55.0 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, 2019.

	-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	16.2	15.5	15.0	14.4	14.0
Total specified costs	22.3	21.3	20.4	19.7	18.9
Total costs plus overhead	23.5	22.5	21.5	20.7	19.9
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.5	14.9	14.4	13.9	13.4
Total specified costs	21.4	20.5	19.6	18.9	18.2
Total costs plus overhead	22.5	21.6	20.7	19.9	19.1
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.1	14.5	14.0	13.5	13.0
Total specified costs	20.8	19.9	19.1	18.3	17.7
Total costs plus overhead	21.9	21.0	20.1	19.3	18.6

- 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, 2019.

	-2.0	-1.0	Selected Price Levels Base	+1.0	+2.0
Raw sugar price (cents per pound)	24.0	25.0	26.0	27.0	28.0
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,012	4,812	4,627	4,455	4,296
Total specified costs	6,851	6,577	6,324	6,089	5,872
Total costs plus overhead	7,216	6,928	6,661	6,414	6,185
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,815	4,622	4,445	4,280	4,127
Total specified costs	6,581	6,318	6,075	5,850	5,641
Total costs plus overhead	6,932	6,655	6,399	6,162	5,942
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,677	4,490	4,317	4,157	4,009
Total specified costs	6,392	6,137	5,900	5,682	5,479
Total costs plus overhead	6,733	6,464	6,215	5,985	5,771

- 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, 2019.

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: (\$0.260/lb; 5,801,400 lbs)					
Plantcane (9,000 lbs/acre)	2,340.00	160.6	375,804		
1st stubble (8,370 lbs/acre)	2,176.20	200.0	435,240		
2nd stubble (6,930 lbs/acre)	1,801.80	200.0	360,360		
3rd stubble (6,480 lbs/acre)	1,684.80	200.0	336,960		
Total sugar (7,628 lbs/acre avg.)			1,508,364	1,508.36	0.260
Molasses (\$0.55/gal; 174,042 gallons)	--	--	95,723		
TOTAL GROSS VALUE			1,604,087	1,604.09	0.277
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	588,262		
Molasses	--	--	47,862		
Total mill charge			636,124	636.12	0.110
NET RETURNS TO LAND AND PRODUCER			967,964	967.96	0.167
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	153,657		
Molasses(16.7% after mill charge)	--	--	7,993		
Total land charge			161,650	161.65	0.028
PRODUCER INCOME					
Sugar and Molasses	--	--	806,314	806.31	0.139
ASCL Check Off (\$0.14 /ton)	--	--	(3,610)		
Total Income			802,704	802.70	0.138
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	132.59	200.0	26,518		
Cultured Seed Cane	531.39	3.3	1,754		
Hand Planting	218.77	3.3	722		
Harvesting Wholestalk Seedcane	75.80	39.4	2,986		
Mechanical Planting - Wholestalk	186.64	196.7	36,712		
Plant Cane Field Operations	248.99	200.0	49,798		
1st Stubble Field Operations	309.40	200.0	61,880		
2nd Stubble Field Operations	306.46	200.0	61,292		
3rd Stubble Field Operations	306.46	200.0	61,292		
Harvest for Sugar 4/	156.03	760.6	118,676		
Total variable expenses			421,631	421.63	0.073
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			381,073	381.07	0.066
FIXED PRODUCTION EXPENSES 5/		1000.0	150,957	150.96	0.026
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			230,117	230.12	0.040
FARM OVERHEAD EXPENSES		1000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			200,117	200.12	0.034

- 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 26.0 cents per pound and molasses at 55.0 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, 2019.

	-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	16.1	15.5	14.9	14.4	13.9
Total specified costs	22.0	21.1	20.2	19.5	18.8
Total costs plus overhead	23.2	22.2	21.3	20.5	19.7
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.4	14.8	14.3	13.8	13.4
Total specified costs	21.1	20.2	19.4	18.7	18.0
Total costs plus overhead	22.3	21.3	20.4	19.7	18.9
ONE-SEVENTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	15.0	14.4	13.9	13.4	13.0
Total specified costs	20.5	19.7	18.9	18.2	17.5
Total costs plus overhead	21.6	20.7	19.9	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 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, 2019.

	-2.0	-1.0	Selected Price Levels Base	+1.0	+2.0
Raw sugar price (cents per pound)	24.0	25.0	26.0	27.0	28.0
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,733	4,544	4,369	4,207	4,057
Total specified costs	6,428	6,171	5,933	5,713	5,509
Total costs plus overhead	6,764	6,494	6,244	6,013	5,798
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,547	4,365	4,197	4,042	3,897
Total specified costs	6,175	5,928	5,700	5,489	5,293
Total costs plus overhead	6,498	6,238	5,998	5,776	5,570
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,416	4,240	4,077	3,926	3,785
Total specified costs	5,998	5,758	5,536	5,331	5,141
Total costs plus overhead	6,312	6,059	5,826	5,610	5,410

- 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, 2019.

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: (\$0.260/lb; 5,841,027 lbs.)					
Plantcane (9,000 lbs/acre)	2,340.00	133.9	313,326		
1st stubble (8,370 lbs/acre)	2,176.20	166.7	362,773		
2nd stubble (6,930 lbs/acre)	1,801.80	166.7	300,360		
3rd stubble (6,480 lbs/acre)	1,684.80	166.7	280,856		
4th stubble (6,030 lbs/acre)	1,567.80	166.7	261,352		
Total sugar (7,290 lbs/acre avg.)			1,518,667	1,518.67	0.260
Molasses (\$0.55/gal, 175,231 gallons)	--	--	96,377		
TOTAL GROSS VALUE			1,615,044	1,615.04	0.277
MILL CHARGE (Payment in kind):					
Sugar (39.0%)	--	--	592,280		
Molasses	--	--	48,188		
Total mill charge			640,469	640.47	0.110
NET RETURNS TO LAND AND PRODUCER			974,575	974.58	0.167
LAND RENT (Payment in kind):					
Sugar (16.7% after mill charge)	--	--	154,707		
Molasses(16.7% after mill charge)	--	--	8,047		
Total land charge			162,754	162.75	0.028
PRODUCER INCOME					
Sugar and Molasses	--	--	811,821	811.82	0.139
ASCL Check Off (\$0.14 /ton)	--	--	(3,634)		
Total Income			808,187	808.19	0.138
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	132.59	166.7	22,103		
Cultured Seed Cane	531.39	2.7	1,435		
Hand Planting	218.77	2.7	591		
Wholestalk Seedcane Harvest	75.80	32.8	2,486		
Mechanical Planting - Wholestalk	186.64	164.0	30,609		
Plant Cane Field Operations	248.99	166.7	41,507		
1st Stubble Field Operations	309.40	166.7	51,577		
2nd Stubble Field Operations	306.46	166.7	51,087		
3rd Stubble Field Operations	306.46	166.7	51,087		
4th Stubble Field Operations	306.46	166.7	51,087		
Harvest for Sugar 4/	156.03	800.7	124,993		
Total variable expenses			428,501	428.50	0.073
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			379,686	379.69	0.065
FIXED PRODUCTION EXPENSES 5/		1000.0	151,032	151.03	0.026
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			228,654	228.65	0.039
FARM OVERHEAD EXPENSES		1000.0	30,000	30.00	0.005
NET RETURNS TO MANAGEMENT, RISK AND OTHER FARM EXPENSES			198,654	198.65	0.034

- 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 26.0 cents per pound and molasses at 55.0 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, 2019.

	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/	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	17.7	16.2	15.0	14.1	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	17.0	15.6	14.4	13.5	12.7
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	16.5	15.1	14.0	13.1	12.4
Total specified costs	22.7	20.6	19.0	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 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, 2019.

	Selected Price Levels				
	-2.0	-1.0	Base	+1.0	+2.0
Raw sugar price (cents per pound)	24.0	25.0	26.0	27.0	28.0
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,570	4,387	4,219	4,062	3,917
Total specified costs	6,181	5,934	5,706	5,494	5,298
Total costs plus overhead	6,501	6,241	6,001	5,779	5,572
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,390	4,215	4,053	3,902	3,763
Total specified costs	5,938	5,700	5,481	5,278	5,089
Total costs plus overhead	6,245	5,995	5,765	5,551	5,353
ONE-SEVENTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	4,264	4,094	3,936	3,791	3,655
Total specified costs	5,767	5,537	5,324	5,127	4,944
Total costs plus overhead	6,066	5,823	5,599	5,392	5,199

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 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Roundup Power Max	pt	2.94	5.0000	14.70	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
LA Hired Labor					
Tractors	hour	10.73	2.7675	29.69	_____
DIESEL FUEL					
Tractors	gal	2.50	21.8864	54.71	_____
REPAIR & MAINTENANCE					
Implements	acre	11.17	1.0000	11.17	_____
Tractors	acre	11.52	1.0000	11.52	_____
INTEREST ON OP. CAP.	acre	3.80	1.0000	3.80	_____
TOTAL DIRECT EXPENSES				132.59	_____
FIXED EXPENSES					
Implements	acre	16.95	1.0000	16.95	_____
Tractors	acre	78.04	1.0000	78.04	_____
TOTAL FIXED EXPENSES				94.99	_____
TOTAL SPECIFIED EXPENSES				227.58	_____

Table 4.B Estimated resource use and costs for field operations, per acre Breaking stubble, fallow activities & seedbed preparation, Sugarcane, Louisiana 2019.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
SC Disk	20 ft	MFWD 190	0.100	2.00	Mar	5.98	7.55	1.54	2.30	0.20	2.15				19.52
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Mar	6.57	8.30	0.97	1.27	0.21	2.36				19.47
SC Land Plane	15 ft	MFWD 150	0.300	2.00	Apr	14.03	16.21	1.32	3.07	0.60	6.44				41.07
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Apr	6.57	8.30	0.97	1.27	0.21	2.36				19.47
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	2.99	3.78	0.77	1.15	0.10	1.07				9.76
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	2.99	3.78	0.77	1.15	0.10	1.07				9.76
SC 5Row (Marker)	30 ft	MFWD 150	0.075	1.00	May	1.75	2.02	0.37	0.47	0.07	0.80				5.41
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	2.00	May	3.51	4.05	0.86	1.12	0.15	1.61				11.15
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.87	0.67	0.13	0.14	0.08	0.86				2.67
Subsoiler	3 shank	MFWD 190	0.204	0.50	May	3.06	3.86	0.20	0.56	0.10	1.10				8.78
SC Chisel Plow	23 ft	MFWD 190	0.120	0.50	May	1.80	2.27	0.25	0.69	0.06	0.64				5.65
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	2.00	May	3.51	4.05	0.86	1.12	0.15	1.61				11.15
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Jun	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Roundup Power Max	pt											2.5000	2.94	7.35	7.35
SC 5Row (Plow)	30 ft	MFWD 150	0.075	1.00	Jul	1.75	2.02	0.69	0.90	0.07	0.80				6.16
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Jul	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Aug	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Roundup Power Max	pt											2.5000	2.94	7.35	7.35
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Aug	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Aug	0.87	0.67	0.13	0.14	0.08	0.86				2.67
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						66.23	78.04	11.17	16.95	2.76	29.69			21.70	223.78
INTEREST ON OPERATING CAPITAL															3.80
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															227.58

Table 5.A Estimated costs per acre,
Cultured seed cane,
Sugarcane, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
SEED/PLANTS					
SC Cultured seedcane	acre	484.00	1.0000	484.00	_____
LA Hired Labor					
Self-Propelled	hour	10.73	0.3303	3.54	_____
DIESEL FUEL					
Self-Propelled	gal	2.50	2.1021	5.26	_____
REPAIR & MAINTENANCE					
Self-Propelled	acre	8.51	1.0000	8.51	_____
INTEREST ON OP. CAP.	acre	30.08	1.0000	30.08	_____

TOTAL DIRECT EXPENSES				531.39	_____
FIXED EXPENSES					
Self-Propelled	acre	15.35	1.0000	15.35	_____

TOTAL FIXED EXPENSES				15.35	_____

TOTAL SPECIFIED EXPENSES				546.74	_____

Table 5.B Estimated resource use and costs for field operations, per acre
Cultured seed cane,
Sugarcane, Louisiana, 2019.

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	13.77	15.35			0.33	3.54				32.66
TOTALS						13.77	15.35	0.00	0.00	0.33	3.54			484.00	516.66
INTEREST ON OPERATING CAPITAL															30.08
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															546.74

Table 6.A Estimated costs per acre,
 Wholestalk seedcane harvest,
 Sugarcane, Louisiana, 2019.

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	10.73	0.6300	6.76	_____
Self-Propelled	hour	10.73	0.3303	3.54	_____
DIESEL FUEL					
Tractors	gal	2.50	4.5553	11.39	_____
Self-Propelled	gal	2.50	5.2061	13.02	_____
REPAIR & MAINTENANCE					
Implements	acre	0.76	1.0000	0.76	_____
Tractors	acre	2.33	1.0000	2.33	_____
Self-Propelled	acre	27.18	1.0000	27.18	_____
INTEREST ON OP. CAP.	acre	4.29	1.0000	4.29	_____
TOTAL DIRECT EXPENSES				75.80	_____
FIXED EXPENSES					
Implements	acre	1.10	1.0000	1.10	_____
Tractors	acre	15.51	1.0000	15.51	_____
Self-Propelled	acre	41.52	1.0000	41.52	_____
TOTAL FIXED EXPENSES				58.13	_____
TOTAL SPECIFIED EXPENSES				133.93	_____

Table 6.B Estimated resource use and costs for field operations, per acre
 Wholestalk seedcane harvest,
 Sugarcane, Louisiana, 2019.

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	
						-----dollars-----				dollars		-----dollars-----		
SC Harvester 2Rw	12 ft		0.388	1.00	Sep	26.43	26.17			0.42	6.53			59.13
SC Loader 2Rw	12 ft		0.300	1.00	Sep	13.77	15.35			0.33	3.54			32.66
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Sep	12.85	14.84	0.63	0.96	0.55	5.90			35.18
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.87	0.67	0.13	0.14	0.08	0.86			2.67
TOTALS						53.92	57.03	0.76	1.10	1.38	16.83			
INTEREST ON OPERATING CAPITAL													0.00	129.64
UNALLOCATED LABOR														4.29
TOTAL SPECIFIED COST														0.00
														133.93

Table 7.A Estimated costs per acre,
Billet seedcane harvest,
Sugarcane, Louisiana, 2019.

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	10.73	0.7400	7.94	_____
DIESEL FUEL					
Tractors	gal	2.50	5.4046	13.51	_____
Self-Propelled	gal	2.50	8.4000	21.00	_____
REPAIR & MAINTENANCE					
Implements	acre	5.46	1.0000	5.46	_____
Tractors	acre	2.78	1.0000	2.78	_____
Self-Propelled	acre	29.77	1.0000	29.77	_____
INTEREST ON OP. CAP.	acre	5.53	1.0000	5.53	_____
TOTAL DIRECT EXPENSES				97.77	_____
FIXED EXPENSES					
Implements	acre	4.54	1.0000	4.54	_____
Tractors	acre	18.48	1.0000	18.48	_____
Self-Propelled	acre	38.77	1.0000	38.77	_____
TOTAL FIXED EXPENSES				61.79	_____
TOTAL SPECIFIED EXPENSES				159.56	_____

Table 7.B Estimated resource use and costs for field operations, per acre
Billet seedcane harvest,
Sugarcane, Louisiana, 2019.

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	
						-----dollars-----				dollars		-----dollars-----		
SC Billet Harvester	6 ft		0.700	1.00	Sep	50.77	38.77	5.33	4.40	0.77	11.78			101.32
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Sep	15.42	17.81	0.13	0.14	0.66	7.08			50.04
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.87	0.67	0.13	0.14	0.08	0.86			2.67
TOTALS						67.06	57.25	5.46	4.54	1.51	19.72		0.00	154.03
INTEREST ON OPERATING CAPITAL														5.53
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														159.56

Table 8.A Estimated costs per acre,
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lb	12.75	1.5000	19.13	_____
Prowl 3.3 EC	pt	5.44	7.2000	39.17	_____
LA SC Planting Labor					
Special Labor	acre	25.00	3.0000	75.00	_____
LA Hired Labor					
Tractors	hour	10.73	2.0700	22.20	_____
DIESEL FUEL					
Tractors	gal	2.50	15.5083	38.77	_____
REPAIR & MAINTENANCE					
Implements	acre	15.13	1.0000	15.13	_____
Tractors	acre	8.02	1.0000	8.02	_____
INTEREST ON OP. CAP.	acre	1.35	1.0000	1.35	_____
TOTAL DIRECT EXPENSES				218.77	_____
FIXED EXPENSES					
Implements	acre	26.77	1.0000	26.77	_____
Tractors	acre	53.74	1.0000	53.74	_____
TOTAL FIXED EXPENSES				80.51	_____
TOTAL SPECIFIED EXPENSES				299.28	_____

Table 8.B Estimated resource use and costs for field operations, per acre
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2019.

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	6.57	8.30	3.52	3.86	0.21	2.36				24.61
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Sep	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC 5Row (Opener)	30 ft	MFWD 150	0.075	1.00	Sep	1.75	2.02	0.29	0.39	0.07	0.80				5.25
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Cane Planters Aid	6 ft	MFWD 150	1.000	1.00	Sep	23.36	26.98	8.44	19.84	1.00	10.73				89.35
LA SC Planting Labor	acre									3.00	75.00				75.00
SC 5Row (Cover)	30 ft	MFWD 150	0.075	1.00	Sep	1.75	2.02	0.90	0.33	0.07	0.80				5.80
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	4.44	5.13	0.47	0.50	0.19	2.04				12.58
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Sep	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Sencor DF	lb											1.5000	12.75	19.13	19.13
Prowl 3.3 EC	pt											7.2000	5.44	39.17	39.17
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Oct	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Oct	0.87	0.67	0.13	0.14	0.08	0.86				2.67
TOTALS						46.79	53.74	15.13	26.77	5.07	97.20			58.30	297.93
INTEREST ON OPERATING CAPITAL															1.35
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															299.28

Table 9.A Estimated costs per acre,
Mechanical planting, 1-Row
Wholestalk, Sugarcane, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lb	12.75	1.5000	19.13	_____
Prowl 3.3 EC	pt	5.44	7.2000	39.17	_____
LA SC Planting Labor					
Special Labor	acre	25.00	2.0000	50.00	_____
LA Hired Labor					
Tractors	hour	10.73	1.7400	18.66	_____
DIESEL FUEL					
Tractors	gal	2.50	12.9604	32.40	_____
REPAIR & MAINTENANCE					
Implements	acre	10.38	1.0000	10.38	_____
Tractors	acre	6.68	1.0000	6.68	_____
INTEREST ON OP. CAP.	acre	10.22	1.0000	10.22	_____
TOTAL DIRECT EXPENSES				186.64	_____
FIXED EXPENSES					
Implements	acre	15.60	1.0000	15.60	_____
Tractors	acre	44.84	1.0000	44.84	_____
TOTAL FIXED EXPENSES				60.44	_____
TOTAL SPECIFIED EXPENSES				247.08	_____

Table 9.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2019.

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	6.57	8.30	3.52	3.86	0.21	2.36				24.61
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Sep	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC 5Row (Opener)	30 ft	MFWD 150	0.075	1.00	Sep	1.75	2.02	0.29	0.39	0.07	0.80				5.25
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Cane Plt-Whlstalk	6 ft	MFWD 150	0.670	1.00	Sep	15.65	18.08	3.69	8.67	0.67	7.19				53.28
LA SC Planting Labor	acre									2.00	50.00				50.00
SC 5Row (Cover)	30 ft	MFWD 150	0.075	1.00	Sep	1.75	2.02	0.90	0.33	0.07	0.80				5.80
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	4.44	5.13	0.47	0.50	0.19	2.04				12.58
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Sencor DF	lb											1.5000	12.75	19.13	19.13
Prowl 3.3 EC	pt											7.2000	5.44	39.17	39.17
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Nov	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.87	0.67	0.13	0.14	0.08	0.86				2.67
TOTALS						39.08	44.84	10.38	15.60	3.74	68.66			58.30	236.86
INTEREST ON OPERATING CAPITAL															10.22
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															247.08

Table 10.A Estimated costs per acre,
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lb	12.75	1.5000	19.13	_____
Prowl 3.3 EC	pt	5.44	7.2000	39.17	_____
LA SC Planting Labor					
Special Labor	acre	25.00	1.0000	25.00	_____
LA Hired Labor					
Tractors	hour	10.73	1.7400	18.66	_____
DIESEL FUEL					
Tractors	gal	2.50	12.9604	32.40	_____
REPAIR & MAINTENANCE					
Implements	acre	10.38	1.0000	10.38	_____
Tractors	acre	6.68	1.0000	6.68	_____
INTEREST ON OP. CAP.	acre	8.72	1.0000	8.72	_____
TOTAL DIRECT EXPENSES				160.14	_____
FIXED EXPENSES					
Implements	acre	15.60	1.0000	15.60	_____
Tractors	acre	44.84	1.0000	44.84	_____
TOTAL FIXED EXPENSES				60.44	_____
TOTAL SPECIFIED EXPENSES				220.58	_____

Table 10.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2019.

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	6.57	8.30	3.52	3.86	0.21	2.36				24.61
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Sep	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC 5Row (Opener)	30 ft	MFWD 150	0.075	1.00	Sep	1.75	2.02	0.29	0.39	0.07	0.80				5.25
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Cane Plt-1R Bille 1 row		MFWD 150	0.670	1.00	Sep	15.65	18.08	3.69	8.67	0.67	7.19				53.28
LA SC Planting Labor acre										1.00	25.00				25.00
SC 5Row (Cover)	30 ft	MFWD 150	0.075	1.00	Sep	1.75	2.02	0.90	0.33	0.07	0.80				5.80
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	4.44	5.13	0.47	0.50	0.19	2.04				12.58
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Sencor DF	lb											1.5000	12.75	19.13	19.13
Prowl 3.3 EC	pt											7.2000	5.44	39.17	39.17
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Nov	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.87	0.67	0.13	0.14	0.08	0.86				2.67
TOTALS						39.08	44.84	10.38	15.60	2.74	43.66			58.30	211.86
INTEREST ON OPERATING CAPITAL															8.72
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															220.58

Table 11.A Estimated costs per acre,
 Plant cane field operations,
 Sugarcane, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	4.00	2.0000	8.00	_____
FERTILIZERS					
LA Nitrogen	lb	0.43	80.0000	34.40	_____
LA Potash	lb	0.32	80.0000	25.60	_____
HERBICIDES					
Sencor DF	lb	12.75	0.7500	9.56	_____
Prowl 3.3 EC	pt	5.44	3.6000	19.58	_____
LA Weedmaster	qt	5.75	0.7500	4.31	_____
LA Asulox/Asulam	gal	42.20	0.5000	21.10	_____
Treflan HFP	pt	3.52	4.0000	14.08	_____
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	1.75	3.2000	5.60	_____
LA Hired Labor					
Tractors	hour	10.73	1.6679	17.89	_____
DIESEL FUEL					
Tractors	gal	2.50	11.3340	28.35	_____
REPAIR & MAINTENANCE					
Implements	acre	5.20	1.0000	5.20	_____
Tractors	acre	5.64	1.0000	5.64	_____
INTEREST ON OP. CAP.	acre	6.92	1.0000	6.92	_____
TOTAL DIRECT EXPENSES				248.99	_____
FIXED EXPENSES					
Implements	acre	7.24	1.0000	7.24	_____
Tractors	acre	37.55	1.0000	37.55	_____
TOTAL FIXED EXPENSES				44.79	_____
TOTAL SPECIFIED EXPENSES				293.78	_____

Table 11.B Estimated resource use and costs for field operations, per acre
 Plant cane field operations,
 Sugarcane, Louisiana, 2019.

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-----			
C 5Row (Offbar)	30 ft	MFWD 150	0.075	1.00	Feb	1.75	2.02	0.43	0.57	0.07	0.80				5.57
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Sencor DF	lb											0.7500	12.75	9.56	9.56
Prowl 3.3 EC	pt											3.6000	5.44	19.58	19.58
LA Weedmaster	qt											0.7500	5.75	4.31	4.31
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	3.04	3.51	0.36	0.60	0.13	1.40				8.91
LA Nitrogen	lb											80.0000	0.43	34.40	34.40
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	2.00	Mar	3.51	4.05	0.86	1.12	0.15	1.61				11.15
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Apr	1.40	1.62	0.23	0.34	0.05	0.64				4.23
LA Potash	lb											80.0000	0.32	25.60	25.60
Disk Bed (Hipper)	4R-38	MFWD 150	0.147	1.00	Apr	3.45	3.98	0.34	0.99	0.14	1.58				10.34
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Apr	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.81	3.24	0.26	0.31	0.12	1.29				7.91
LA Asulox/Asulam	gal											0.5000	42.20	21.10	21.10
Surfactant	pt											1.6000	1.75	2.80	2.80
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	May	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Treflan HFP	pt											4.0000	3.52	14.08	14.08
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	May	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Atrazine 4L	pt											4.0000	1.50	6.00	6.00
Surfactant	pt											1.6000	1.75	2.80	2.80
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						33.99	37.55	5.20	7.24	1.66	17.89			184.99	286.86
INTEREST ON OPERATING CAPITAL															6.92
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															293.78

Table 12.A Estimated costs per acre,
 First Stubble field operations,
 Sugarcane, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	4.00	3.0000	12.00	_____
FERTILIZERS					
LA Nitrogen	lb	0.43	100.0000	43.00	_____
LA Phosphate	lb	0.55	40.0000	22.00	_____
LA Potash	lb	0.32	100.0000	32.00	_____
Sulfur	lb	0.34	24.0000	8.16	_____
HERBICIDES					
Sencor DF	lb	12.75	0.7500	9.56	_____
Prowl 3.3 EC	pt	5.44	3.6000	19.58	_____
LA Weedmaster	qt	5.75	0.7500	4.31	_____
LA Asulox/Asulam	gal	42.20	0.5000	21.10	_____
Treflan HFP	pt	3.52	4.0000	14.08	_____
Atrazine 4L	pt	1.50	4.0000	6.00	_____
INSECTICIDES					
Confirm 2F	oz	1.86	16.0000	29.76	_____
GROWTH REGULATORS					
LA Polado	oz	0.18	8.0000	1.44	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	1.75	4.8000	8.40	_____
LA Hired Labor					
Tractors	hour	10.73	1.7904	19.21	_____
DIESEL FUEL					
Tractors	gal	2.50	12.2793	30.72	_____
REPAIR & MAINTENANCE					
Implements	acre	5.98	1.0000	5.98	_____
Tractors	acre	6.14	1.0000	6.14	_____
INTEREST ON OP. CAP.	acre	8.96	1.0000	8.96	_____
TOTAL DIRECT EXPENSES				309.40	_____
FIXED EXPENSES					
Implements	acre	7.71	1.0000	7.71	_____
Tractors	acre	40.86	1.0000	40.86	_____
TOTAL FIXED EXPENSES				48.57	_____
TOTAL SPECIFIED EXPENSES				357.97	_____

Table 12.B Estimated resource use and costs for field operations, per acre
 First Stubble field operations,
 Sugarcane, Louisiana, 2019.

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)	30 ft	MFWD 150	0.075	2.00	Feb	3.51	4.05	0.86	1.14	0.15	1.61				11.17
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Sencor DF	lb											0.7500	12.75	9.56	9.56
Prowl 3.3 EC	pt											3.6000	5.44	19.58	19.58
LA Weedmaster	qt											0.7500	5.75	4.31	4.31
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	3.04	3.51	0.36	0.60	0.13	1.40				8.91
LA Nitrogen	lb											100.0000	0.43	43.00	43.00
SC 5Row (Offbar)	30 ft	MFWD 150	0.075	2.00	Mar	3.51	4.05	0.86	1.14	0.15	1.61				11.17
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.40	1.62	0.23	0.34	0.05	0.64				4.23
LA Phosphate	lb											40.0000	0.55	22.00	22.00
LA Potash	lb											100.0000	0.32	32.00	32.00
Sulfur	lb											24.0000	0.34	8.16	8.16
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Mar	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Surfactant	pt											1.6000	1.75	2.80	2.80
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Apr	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.81	3.24	0.26	0.31	0.12	1.29				7.91
LA Asulox/Asulam	gal											0.5000	42.20	21.10	21.10
Surfactant	pt											1.6000	1.75	2.80	2.80
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	May	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Treflan HFP	pt											4.0000	3.52	14.08	14.08
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	May	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Atrazine 4L	pt											4.0000	1.50	6.00	6.00
Surfactant	pt											1.6000	1.75	2.80	2.80
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	0.18	1.44	1.44
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						36.86	40.86	5.98	7.71	1.79	19.21			238.39	349.01
INTEREST ON OPERATING CAPITAL															8.96
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															357.97

Table 13.A Estimated costs per acre,
 Second Stubble and older field operations,
 Sugarcane, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	4.00	3.0000	12.00	_____
FERTILIZERS					
LA Nitrogen	lb	0.43	110.0000	47.30	_____
LA Phosphate	lb	0.55	40.0000	22.00	_____
LA Potash	lb	0.32	100.0000	32.00	_____
Sulfur	lb	0.34	24.0000	8.16	_____
HERBICIDES					
Sencor DF	lb	12.75	0.7500	9.56	_____
Prowl 3.3 EC	pt	5.44	3.6000	19.58	_____
LA Weedmaster	qt	5.75	0.7500	4.31	_____
LA Asulox/Asulam	gal	42.20	0.5000	21.10	_____
Treflan HFP	pt	3.52	4.0000	14.08	_____
Atrazine 4L	pt	1.50	4.0000	6.00	_____
INSECTICIDES					
Confirm 2F	oz	1.86	16.0000	29.76	_____
GROWTH REGULATORS					
LA Polado	oz	0.18	8.0000	1.44	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
ADJUVANTS					
Surfactant	pt	1.75	3.2000	5.60	_____
LA Hired Labor					
Tractors	hour	10.73	1.6703	17.92	_____
DIESEL FUEL					
Tractors	gal	2.50	11.3525	28.40	_____
REPAIR & MAINTENANCE					
Implements	acre	5.72	1.0000	5.72	_____
Tractors	acre	5.65	1.0000	5.65	_____
INTEREST ON OP. CAP.	acre	8.88	1.0000	8.88	_____
TOTAL DIRECT EXPENSES				306.46	_____
FIXED EXPENSES					
Implements	acre	7.40	1.0000	7.40	_____
Tractors	acre	37.62	1.0000	37.62	_____
TOTAL FIXED EXPENSES				45.02	_____
TOTAL SPECIFIED EXPENSES				351.48	_____

Table 13.B Estimated resource use and costs for field operations, per acre
 Second Stubble and older field operations,
 Sugarcane, Louisiana, 2019.

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)	30 ft	MFWD 150	0.075	2.00	Feb	3.51	4.05	0.86	1.14	0.15	1.61				11.17
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	3.04	3.51	0.36	0.60	0.13	1.40				8.91
LA Nitrogen	lb											110.0000	0.43	47.30	47.30
SC 5Row (Offbar)	30 ft	MFWD 150	0.075	2.00	Mar	3.51	4.05	0.86	1.14	0.15	1.61				11.17
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.40	1.62	0.23	0.34	0.05	0.64				4.23
LA Phosphate	lb											40.0000	0.55	22.00	22.00
LA Potash	lb											100.0000	0.32	32.00	32.00
Sulfur	lb											24.0000	0.34	8.16	8.16
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Mar	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Sencor DF	lb											0.7500	12.75	9.56	9.56
Prowl 3,3 EC	pt											3.6000	5.44	19.58	19.58
LA Weedmaster	qt											0.7500	5.75	4.31	4.31
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	Apr	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.81	3.24	0.26	0.31	0.12	1.29				7.91
LA Asulox/Asulam	gal											0.5000	42.20	21.10	21.10
Surfactant	pt											1.6000	1.75	2.80	2.80
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	May	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.87	0.67	0.13	0.14	0.08	0.86				2.67
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Treflan HFP	pt											4.0000	3.52	14.08	14.08
SC 5Row (Hipper)	30 ft	MFWD 150	0.075	1.00	May	1.75	2.02	0.43	0.56	0.07	0.80				5.56
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.81	3.24	0.26	0.31	0.12	1.29				7.91
Atrazine 4L	pt											4.0000	1.50	6.00	6.00
Surfactant	pt											1.6000	1.75	2.80	2.80
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	0.18	1.44	1.44
Crop Consultant	acre			1.00	Sep							1.0000	7.00	7.00	7.00
TOTALS						34.05	37.62	5.72	7.40	1.67	17.92			239.89	342.60
INTEREST ON OPERATING CAPITAL															8.88
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															351.48

Table 14.A Estimated costs per acre,
Harvest-1R Combine Harvester, 10-Ton High Dump wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2019.

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	10.73	2.0600	22.10	_____
DIESEL FUEL					
Tractors	gal	2.50	15.5962	38.99	_____
Self-Propelled	gal	2.50	8.4000	21.00	_____
REPAIR & MAINTENANCE					
Implements	acre	16.12	1.0000	16.12	_____
Tractors	acre	8.14	1.0000	8.14	_____
Self-Propelled	acre	29.77	1.0000	29.77	_____
INTEREST ON OP. CAP.	acre	8.13	1.0000	8.13	_____
TOTAL DIRECT EXPENSES				156.03	_____
FIXED EXPENSES					
Implements	acre	13.34	1.0000	13.34	_____
Tractors	acre	54.10	1.0000	54.10	_____
Self-Propelled	acre	38.77	1.0000	38.77	_____
TOTAL FIXED EXPENSES				106.21	_____
TOTAL SPECIFIED EXPENSES				262.24	_____

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, 2019.

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	
						-----dollars-----				dollars		-----dollars-----		
SC Billet Harvester	6 ft		0.700	1.00	Nov	50.77	38.77	5.33	4.40	0.77	11.78			101.32
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Nov	15.42	17.81	5.33	4.40	0.66	7.08			50.04
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Nov	15.42	17.81	5.33	4.40	0.66	7.08			50.04
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.600	1.00	Nov	15.42	17.81	5.33	4.40	0.66	7.08			50.04
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.87	0.67	0.13	0.14	0.08	0.86			2.67
TOTALS						97.90	92.87	16.12	13.34	2.83	33.88		0.00	254.11
INTEREST ON OPERATING CAPITAL														8.13
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														262.24

Table 15.A Estimated costs per acre,
Harvest-2-row Wholestalk, 10-ton transfer wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2019.

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	10.73	1.2499	13.41	_____
Self-Propelled	hour	10.73	0.6053	6.49	_____
DIESEL FUEL					
Tractors	gal	2.50	9.0717	22.69	_____
Self-Propelled	gal	2.50	6.3811	15.96	_____
REPAIR & MAINTENANCE					
Implements	acre	1.51	1.0000	1.51	_____
Tractors	acre	4.75	1.0000	4.75	_____
Self-Propelled	acre	31.31	1.0000	31.31	_____
INTEREST ON OP. CAP.	acre	5.65	1.0000	5.65	_____
TOTAL DIRECT EXPENSES				108.30	_____
FIXED EXPENSES					
Implements	acre	2.36	1.0000	2.36	_____
Tractors	acre	31.63	1.0000	31.63	_____
Self-Propelled	acre	49.55	1.0000	49.55	_____
TOTAL FIXED EXPENSES				83.54	_____
TOTAL SPECIFIED EXPENSES				191.84	_____

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, 2019.

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	Nov	26.43	26.17			0.42	6.53			59.13
SC Burning Unit	18 ft	MFWD 75	0.149	1.00	Nov	1.74	1.95	0.25	0.44	0.14	1.61			5.99
SC Loader 2Rw	12 ft		0.300	1.00	Nov	13.77	15.35			0.33	3.54			32.66
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	12.85	14.84	0.63	0.96	0.55	5.90			35.18
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	12.85	14.84	0.63	0.96	0.55	5.90			35.18
SC Transloader			0.250	1.00	Nov	7.07	8.03			0.27	2.95			18.05
TOTALS						74.71	81.18	1.51	2.36	2.28	26.43		0.00	186.19
INTEREST ON OPERATING CAPITAL														5.65
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														191.84

Appendix Table 1. Estimated fuel prices, labor wage rates, and interest rates, Louisiana 2019.

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.50
LABOR TYPES		
Operator	hour	15.30
Hired	hour	10.73
Special	acre	25.00
INTEREST RATES		
Short-term	%	6.00
Intermediate-term	%	6.50

Appendix Table 2. Tractors: estimated useful life, annual use, purchase price, repair cost, fuel consumption rate, and direct and fixed cost per hour, Louisiana 2019.

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	29,400	600	8	2.57	10.73	6.43	0.91	18.08	6.10	24.18
Tractor(40-59hp)Cab	MFWD 50	39,500	600	8	2.57	10.73	6.43	1.23	18.39	8.19	26.59
Tractor(40-59hp)RB	2WD 50	22,900	600	8	2.57	10.73	6.43	0.71	17.87	4.75	22.63
Tractor(40-59hp)RB	MFWD 50	27,800	600	8	2.57	10.73	6.43	0.86	18.03	5.77	23.80
Tractor(60-89hp)CAB	2WD 75	52,800	600	8	3.86	10.73	9.65	1.65	22.03	10.95	32.99
Tractor(60-89hp)CAB	MFWD 75	62,500	600	8	3.86	10.73	9.65	1.95	22.33	12.97	35.30
Tractor(60-89hp)RB	2WD 75	38,600	600	8	3.86	10.73	9.65	1.20	21.58	8.01	29.59
Tractor(60-89hp)RB	MFWD 75	40,100	600	8	3.86	10.73	9.65	1.25	21.63	8.32	29.95
Tractor(90-119hp)CB	2WD 105	69,200	600	8	5.40	10.73	13.51	2.16	26.40	14.36	40.76
Tractor(90-119hp)CB	MFWD 105	83,000	600	8	5.40	10.73	13.51	2.59	26.83	17.22	44.06
Tractor(90-119hp)RB	2WD 105	61,200	600	8	5.40	10.73	13.51	1.91	26.15	12.70	38.85
Tractor(90-119hp)RB	MFWD 105	67,500	600	8	5.40	10.73	13.51	2.10	26.35	14.01	40.36
Tractor(120-139hp)CB	2WD 130	103,000	600	8	6.69	10.73	16.72	3.21	30.67	21.37	52.05
Tractor(120-139hp)CB	MFWD 130	114,000	600	8	6.69	10.73	16.72	3.56	31.02	23.66	54.68
Tractor(140-159hp)CB	2WD 150	109,000	600	8	7.72	10.73	19.30	3.40	33.43	22.62	56.06
Tractor(140-159hp)CB	MFWD 150	130,000	600	8	7.72	10.73	19.30	4.06	34.09	26.98	61.07
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	10.73	21.87	4.87	37.48	33.67	71.15
Tractor(160-179hp)CB	MFWD 170	148,000	600	8	8.75	10.73	21.87	4.62	37.23	31.94	69.17
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.73	23.16	4.45	38.35	30.80	69.15
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	10.73	24.44	4.46	39.64	30.86	70.51
Tractor(180-199hp)CB	MFWD 190	175,000	600	8	9.77	10.73	24.44	5.46	40.64	37.77	78.42
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.73	28.95	4.59	44.27	31.74	76.02
Tractor(200-249hp)CB	MFWD 225	191,000	600	8	11.58	10.73	28.95	5.96	45.65	41.22	86.87
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	10.73	28.95	8.65	48.33	59.78	108.12
Tractor(250-349hp)CB	4WD 300	286,000	600	8	15.44	10.73	38.60	8.93	58.27	61.73	120.00
Tractor(250-349hp)CB	Track 300	317,000	600	8	15.44	10.73	38.60	9.90	59.24	68.42	127.66
Tractor(350-449hp)CB	4WD 400	328,000	600	8	20.58	10.73	51.47	10.25	72.45	70.79	143.24
Tractor(350-449hp)CB	Track 400	420,000	600	8	20.58	10.73	51.47	13.12	75.32	90.65	165.98

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 2019.

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	27,500	800	5	2.50	1.000	10.73	6.25	3.09	20.07	7.66	27.74
SC Billet Harvester	6 ft	319,000	750	10	12.00	0.700	11.78	21.00	29.77	62.55	38.76	101.32
SC Harvester 1Rw	6 ft	126,500	400	12	6.80	0.875	14.72	14.87	23.05	52.66	32.32	84.98
SC Harvester 2Rw	12 ft	231,000	400	12	8.00	0.388	6.53	7.76	18.67	32.96	26.17	59.13
SC Loader 1Rw	6 ft	93,500	425	10	5.10	0.598	7.06	7.63	9.61	24.31	17.34	41.66
SC Loader 2Rw	12 ft	165,000	425	10	7.00	0.300	3.54	5.25	8.51	17.31	15.35	32.66
SC Transloader		33,000	120	12	4.70	0.250	2.95	2.93	4.12	10.01	8.03	18.04
SC Truck&Trailer	30 Ton	49,500	400	10	7.00	1.000	11.80	17.50	8.66	37.96	16.29	54.26
Sprayer(300-450Gal)47'		0	350	8	5.40	0.022	0.40	0.30	0.00	0.70	0.00	0.70
Sprayer(300-450Gal)60'		103,000	350	8	5.66	0.017	0.31	0.24	0.09	0.66	0.69	1.36
Sprayer(300-450Gal)80'		103,000	350	8	5.66	0.013	0.23	0.18	0.07	0.49	0.52	1.02
Sprayer(600-750Gal)60'		208,000	350	8	10.29	0.017	0.31	0.45	0.19	0.96	1.40	2.37
Sprayer(600-825Gal)80'		210,000	350	8	10.29	0.013	0.23	0.34	0.14	0.72	1.06	1.79
Sprayer(600-825Gal)90'		288,000	350	8	10.29	0.011	0.21	0.30	0.18	0.69	1.30	1.99
Sprayer(1000-1400Gal)90'		328,000	350	8	14.15	0.014	0.25	0.49	0.24	1.00	1.77	2.77
Sprayer(1200PlusGal)120'		332,000	350	8	15.44	0.008	0.15	0.34	0.15	0.65	1.12	1.78

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 2019.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---	Total Imp.	---Fixed---	Total Cost		
			dollars	hours	years	hr/ac	-----\$/acre-----							
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.29	2.32	1.43	0.48	5.54	0.53	3.25	9.32
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.28	2.31	0.68	0.48	4.77	0.89	3.23	8.91
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.28	2.31	0.58	0.48	4.67	0.74	3.23	8.66
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.28	2.31	0.69	0.48	4.78	0.90	3.23	8.93
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.28	2.31	0.46	0.48	4.56	0.61	3.23	8.41
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.28	2.93	1.11	0.65	5.99	1.44	4.53	11.97
SC 5Row (Cover)	30 ft	MFWD 150	10,750	200	9	0.075	0.80	1.44	0.89	0.30	3.45	0.33	2.02	5.80
SC 5Row (Hipper)	30 ft	MFWD 150	10,500	200	9	0.075	0.80	1.44	0.42	0.30	2.98	0.55	2.02	5.56
SC 5Row (Marker)	30 ft	MFWD 150	8,800	200	9	0.075	0.80	1.44	0.36	0.30	2.92	0.46	2.02	5.41
SC 5Row (Offbar)	30 ft	MFWD 150	11,500	200	10	0.075	0.80	1.44	0.43	0.30	2.98	0.56	2.02	5.58
SC 5Row (Opener)	30 ft	MFWD 150	7,800	200	10	0.075	0.80	1.44	0.29	0.30	2.85	0.38	2.02	5.25
SC 5Row (Plow)	30 ft	MFWD 150	17,000	200	9	0.075	0.80	1.44	0.69	0.30	3.25	0.90	2.02	6.18
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	9.41	16.93	2.55	3.56	32.46	2.59	23.67	58.73
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.28	2.31	0.25	0.48	4.34	0.30	3.23	7.89
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.60	2.02	0.24	0.32	4.20	0.44	2.15	6.80
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	10.73	19.30	8.43	4.06	42.53	19.84	26.98	89.35
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	7.18	12.93	3.68	2.72	26.52	8.66	18.07	53.27
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	2.14	1.28	5.10	0.14	8.67	11.99	0.95	21.61
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	7.18	12.93	3.68	2.72	26.52	8.66	18.07	53.27
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	5.90	10.61	0.62	2.23	19.37	0.95	13.49	33.82
SC Cane Wgn Billt HD	10Ton	MFWD 150	40,000	750	9	0.600	7.08	12.73	5.33	2.68	27.83	4.39	16.19	48.42
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.35	5.37	0.96	1.20	9.90	1.26	8.30	19.47
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.28	2.93	0.49	0.65	5.37	1.38	4.53	11.29
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.18	1.48	0.29	0.23	3.20	0.51	1.58	5.29
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.18	2.40	0.39	0.53	4.52	0.59	3.70	8.81
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.50	2.70	0.32	0.47	5.01	0.49	3.16	8.67
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.60	0.96	0.56	0.10	3.24	0.83	0.71	4.79
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	1.07	2.44	0.77	0.54	4.83	1.15	3.77	9.76
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.75	1.53	0.64	0.34	3.26	0.96	2.35	6.59
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	1.07	2.18	0.40	0.48	4.15	0.60	3.36	8.13
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	0.77	0.13	0.10	1.86	0.14	0.66	2.67
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.39	2.51	0.36	0.52	4.79	0.59	3.50	8.90
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.64	1.15	0.22	0.24	2.27	0.34	1.61	4.23
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	2.03	3.66	0.47	0.77	6.95	0.50	5.13	12.58
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	10.73	28.95	0.13	4.59	44.41	0.20	31.74	76.35
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	3.22	5.79	0.66	1.21	10.89	1.53	8.10	20.53
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.68	4.82	3.12	1.01	11.64	4.11	6.74	22.51
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.85	1.33	0.41	0.25	2.86	0.55	1.71	5.13
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.68	2.41	0.51	0.31	5.92	1.53	2.08	9.53
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.35	5.37	3.51	1.20	12.45	3.85	8.30	24.61
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	10.73	13.51	0.86	2.16	27.26	3.57	14.36	45.20
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.18	1.48	0.04	0.23	2.94	0.06	1.58	4.59
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	10.73	16.72	0.23	3.21	30.91	1.02	21.37	53.31
SCMechanical Planter	6 ft	MFWD 150	15,500	160	10	1.000	10.73	19.30	7.26	4.06	41.36	12.75	26.98	81.10

Appendix Table 5. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
dollars		
ADJUVANTS		
Surfactant	pt	1.75
CUSTOM FERT/LIME		
App Fert by Air	cwt	7.00
App Fert by Air(Min)	appl	7.00
Custom Apply Fert	acre	7.50
Custom Spread(Truc	appl	4.50
Lime (Spread)	ton	38.00
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	9.00
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	13.43
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	4.60
DAP	cwt	23.76
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	22.25
Fert 10-34-0	gal	2.59
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	13.50
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.43
LA Phosphate	lb	0.55
LA Potash	lb	0.32
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	11.25
UAN + Sulfur (28% N)	cwt	12.40
Urea, Solid (46% N)	cwt	14.50
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.95
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	4.28
Crop Oil (Petroleum)	pt	2.37
Cruiser 5FS	oz	17.38
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
FUNGICIDES CONT'D		
Dithane Rainsheild	lb	4.08
Fungicide	lb	2.82
Gem 25 WG	oz	3.70
Manzate 75 DF	lb	4.86
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	32.81
Orbit	oz	2.75
Prevail	lb	28.50
Quadris	oz	1.13
Ridomil GoldPC 10G	lb	2.08
Ridomil Gold PC	lb	5.30
Ridomil Gold PC Liq	oz	6.42
Rovral 4F	pt	14.90
Rovral WG	lb	0.00
Shelter	oz	8.50
Stiletto	oz	0.58
Stratego	pt	76.88
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	0.75
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	0.18
Mepex	oz	0.08
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	7.00
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.09
Ethephon 6E	pt	3.53
Finish 6	pt	9.60
Folex 6EC	pt	10.90
Ginstar EC	pt	26.41
Gramoxone Extra	pt	4.86
Gramoxone Max	pt	4.16
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.00
Sodium Chlorate 3L	gal	3.50
Solium Chlorate 6L	gal	5.57
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	2.31
2,4-D Ester	pt	4.17
AAtrex 4L	pt	2.12
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.25
Aim DF	oz	9.65

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	3.38
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	13.43
Basagran	pt	12.31
Basis Gold	lb	9.00
Beacon 75% WSP	oz	34.87
Beyond	oz	4.48
Bicep II Magnum	qt	11.01
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	7.73
Boundary	pt	11.21
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	3.29
Butyrac 200 (2,4-DB)	pt	4.34
Canopy 75%	oz	2.74
Canopy XL	oz	2.23
Caparol 4L	pt	4.52
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.51
Classic	oz	17.18
Clincher EC	oz	2.30
Cobra 2EC	oz	1.72
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	6.42
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.52
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	3.99
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.90
Diuron 80 DF	lb	5.09
Domain 60DF	lb	12.75
DSMA 4	pt	0.90
Dual 8E	pt	0.00
Dual II Magnum	pt	14.50
Dual Magnum	pt	13.81
Duet	pt	5.35
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.39
Facet 75DF	lb	50.00
First Rate	oz	43.40
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

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
Fultime	pt	6.29
Fusilade DX	oz	1.00
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	2.00
Glystar Plus	pt	2.17
Goal 2XL	pt	9.89
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	4.16
Gramoxone Max	pt	4.16
Grandstand R	qt	17.15
Guardzman	pt	4.66
Guardzman Max	pt	7.22
Harmony Extra	oz	14.43
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	42.20
LA Weedmaster	qt	5.75
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	9.28
Londax 60DF	oz	18.08
Lorox 50DF	lb	24.12
Matador	pt	0.00
MSMA 6.6	pt	3.68
MSMA6 + Surfactant	pt	3.63
Newpath 2SL	oz	3.83
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.47
Pendimax 3.3	pt	2.47
Permit 75DF	oz	18.50
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	5.44
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.58
Raptor	oz	4.38
Reflex 2LC	pt	6.52
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	29.40
Ricestar	pt	24.35
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	2.94
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.26
Scepter 70 DG	oz	4.48
Select 2EC	oz	0.70
Sencor 4F	pt	14.74
Sencor DF	lb	12.75
Squadron CE	pt	12.50
Stam 4E	qt	5.12
Stam 80 EDF	lb	9.64
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	11.41
Strongarm	oz	56.42
Superwham	qt	9.20
Suprend	lb	13.74

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	9.32
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	6.97
Treflan HFP	pt	3.52
Treflan TR-10	lb	1.10
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.52
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	4.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	7.92
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.92
Asana .66 XL	oz	0.58
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.30
Bidrin 8L	oz	1.33
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	5.37
Comite	pt	8.45
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
Dimethoate 4E	pt	5.35
Dimilin 2L	oz	2.13
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	6.03
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	9.71
Karate Z	oz	1.02
Lannate LV	pt	10.99
Lannate SP	oz	2.42
Larvin 3.2	oz	0.63
Leverage 2.7	oz	2.17
Lorsban 15G	lb	2.35
Lorsban 4E	pt	6.10
Malathion 57EC	pt	4.23
Malathion 8E	pt	5.50
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	6.00
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00
Penncap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	14.13
Pounce 3.2 EC	oz	0.34

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
INSECTICIDES CONT'D		
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	13.23
Spintor 2SC	oz	4.93
Steward	pt	39.51
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	3.63
Corn Seed Conv.	thous	2.89
Corn Seed RR	thous	3.13
Cotton Seed Bt	thoud	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 RR	thous	0.63
Cotton Seed RR	thous	0.63
LA Hybrid Rice Seed	acre	165.00
Rice Clearfield 161	lb	1.05
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.43
Rice Seed CF(Levees)	lb	0.90
Rice Seed Conv.	lb	0.30
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	2.10
Sorghum NonConcept	lb	1.18
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	1.30
Wheat Seed Private	lb	0.22
Wheat Seed Public	lb	0.00
SERVICE FEE		
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
TECHNOLOGY FEE		
BG Cot Tech Fee	thous	0.28
BG Cot Tech Fee	cap/ac	19.50
BG II Cot Tech Fee	thous	0.76
BG II Cot Tech Fee	cap/ac	31.91
BG II/RR Tech Fee	thous	1.49
BG II/RR Tech Fee	cap/ac	62.69
BG/RR Cot Tech Fee	thous	1.49
BG/RR Cot Tech Fee	cap/ac	62.69
Eradication Fee	acre	6.00
Eradication Zone 1	acre	6.00
Eradication Zone 1A	acre	6.00

Appendix Table 5 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
TECHNOLOGY FEE CONT'D		
Eradication Zone 1B	acre	6.00
Eradication Zone 2	acre	6.00
Eradication Zone 3	acre	6.00
Eradication Zone 4	acre	6.00
RR Cotton Tech Fee	thous	1.04
RR Cotton Tech Fee	cap/ac	43.66

