
**2006
Projected
Commodity
Costs
And
Returns**

**Sugarcane Production in
Louisiana**

Michael E. Salassi and Janis Breaux



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PROJECTED COSTS AND RETURNS - SUGARCANE LOUISIANA, 2006

by

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INTERNET ACCESS

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www.lsuagcenter.com

PROJECTED COSTS AND RETURNS -- SUGARCANE, LOUISIANA, 2006

by

Michael E. Salassi and Janis Breaux¹

INTRODUCTION

This report presents estimates of costs and returns associated with sugarcane production practices in Louisiana for 2006. It is part of a continuing effort to provide farmers, researchers, extension personnel, lending agencies and others working in agriculture and/or agribusiness timely planning information. Sugarcane production is unique in that it is a perennial crop grown in a rotation; processing, storage and marketing services are provided by a single entity and payments for said services are "in kind." Further, the large majority of growers are tenants, paying approximately 20 percent of the "after milling crop proceeds" (12.2% of gross production) for land. Returns shown in Table 1A-3C and in the whole farm analysis in Appendix A reflect returns to management and risk. No charges for family living expenses or management are included as a cost in this analysis.

SUGARCANE BUDGETS

The enterprise budgets for tenant-operators producing sugarcane are presented in two formats. One format is a summary of costs and returns for a particular phase of sugarcane production. This format presents costs by broad categories such as fertilizer, herbicides, insecticides, labor, fuel and repairs, etc. The other format presents a detailed listing of the operations, the equipment size and the associated power unit along with the date performed and the associated costs for tractor, machinery and materials. Together these budget formats provide the detailed information necessary to adjust the sugarcane budgets to individual situations. In addition, the appendix to this report contains detailed cost estimates for an extensive list of equipment and operating inputs. These may be used to modify budgets contained in this report or construct new enterprise budgets.

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This report presents 2006 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 (see figure on page G-6). Fertilizer and chemical rates were based on recommendations of the LSU Agricultural Center.^{2,3} Only tenant-operator budgets are presented in this report, reflecting the predominant share rent land tenure situation. Most growers pay 1/5 of the crop harvested for sugar after the "in kind" mill payment has been made. 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. Yield information used in estimating income in these budgets is based on typical yield levels per harvested acre. These typical yield levels reflect the approximate state-level sugarcane yield per acre harvested for sugar. Grower income reflects the usual disposition of raw sugar and molasses between the grower, landlord and mill.⁴

Projections of harvest costs are included for 2-row wholestalk (soldier) harvesters and a combine (billet) harvester. The harvest budgets (Tables 16 and 17) includes the costs of hauling cane directly from the field to the mill (direct haul) with tractors using two 10-ton cane wagons. Under this scenario, the hauling rebate from the mill would be paid to the producer.

Projected total costs and returns for sugarcane production on a representative 1000 acre farm are shown in Table 1A, 2A, and 3A. Table 1A uses a 4-year land rotation with 250 acres each of plantcane, first stubble, second stubble, and fallow/plant. Table 2A uses a 5-year rotation with 200 acres of plantcane, first stubble, second stubble, third stubble and fallow/plant. Table 3A uses a 6-year rotation with 167 acres of plantcane, first stubble, second stubble, third stubble, fourth stubble, and fallow/plant. Gross value of production is shown, along with estimated mill and land charges, as well as producer income and expenses for each scenario. Net returns to management and risk are estimated. No charges for management, risk or family living expenses are included.

Projected output per rotational acre and its distribution between the grower and suppliers of land and milling services is presented in Table 1B, 2B and 3B. Table 1B reflects the output distribution associated with a 4-year sugarcane rotation and approximates the projected average yield levels in 2006 for established producers. Sugarcane land under a standard rotation is

² "Sugarcane Fertilization," *Sugarcane Production Handbook – 2001*, Louisiana State University Agricultural Center, Baton Rouge, LA, Pub. No. 2859.

³ "Controlling Weeds in Sugarcane," *Sugarcane Production Handbook – 2001*, Louisiana State University Agricultural Center, Baton Rouge, LA, Pub. No. 2859.

⁴ Sugar mills normally retain approximately 39 percent of the raw sugar and slightly more than 50 percent of the molasses to cover hauling and processing of sugarcane and storage and marketing of raw sugar. Landlords normally retain 20 percent of the remaining raw sugar and molasses for land rent.

assumed to have 25 percent each of land in plant cane, first stubble, second stubble, and fallow/plant. Sugar output per rotational for land under an extended 5-year and 6-year rotation, with harvest through third stubble and fourth stubble, respectively, are shown in Tables 2B and 3B. Sugar yields for plantcane and stubble crops presented in this report are based on research results from outfield variety trials for LCP 85-384, the dominant variety of sugarcane currently grown in Louisiana, adjusted to reflect average producer yields.⁵

Tables 1C, 2C and 3C presents breakeven raw sugar selling prices required to cover production costs for selected yield levels and rental arrangements. Base yield level reflects budgeted yields included in Tables 1A, 2A and 3A. Distribution shares of sugar production to mill, landlord, and grower, in pounds of sugar per rotational acre, are shown for a 1/5 and a 1/6 share rent arrangement. Breakeven prices per pound of raw sugar are calculated by dividing grower's share of production into direct costs, total specified costs, and total specified costs plus overhead expenses.

PROCEDURE

Survey data collected from sugarcane producers provided basic production practice, equipment and input information. The survey indicated that farm size was increasing. Producer's complement of tractors were larger, and the use of high clearance tractors with mechanical front wheel drive was common. Producers are cultivating both fallow and cane crops more. Nearly all producers use cultured seed cane in their clean seed program. They were or intended on keeping some stubble beyond the standard 4 year rotations.

Current estimates of machinery and other input costs were used in conjunction with the production practices and input data to estimate costs of production for sugarcane. Input price data were collected in late 2005 from farm suppliers throughout the sugarcane producing area to provide a basis for estimating projected 2005 budgets. Machinery price data were obtained from machinery dealers in 2005. Detailed machinery cost data are shown in the Appendix.

The general procedure used in this report was to apply current machinery and other input price data to the production practices noted above. Production practice data were based on a sample of sugarcane farms randomly drawn by size of farm and area. In an effort to simplify the budgets, individual budgets for separate production areas and soil types were eliminated. The costs associated with operations specific to certain areas or situations can be added to any budget to more accurately match a specific farm situation.

Sugarcane budgets presented in this report were developed using a microcomputer enterprise budget generator program. The budget generator is a computer program that specifies a system of sequential computational procedures for calculating costs and returns associated with the production of a specific agricultural commodity. It also includes report writing features for printing the final budget(s) in standardized terminology. The user specifies the data requirements essential for preparation of a particular budget (e.g. field operations, input quantities and prices, interest rates, fuel consumption, etc.). The user dictates the computations to be made and data sets used for the selected computations to be made. Functions, such as repair costs, depreciation and performance rates for machinery and equipment are specified by the user of the budget generator. While selected data sets may be stored in the system, the user has the prerogative of substituting

⁵ "Sugarcane Outfield Variety Trials," *Sugarcane Research, Annual Progress Report – 2002*, Louisiana State University Agricultural Center, Baton Rouge, LA.

data. The responsibility for selection of appropriate data sets used in the program rests with the user. The program includes standardized procedures for developing estimates for selected data elements for users with limited information.

Budget information is presented for ten activity sets, an overhead budget, and projected revenues. The activities include breaking stubble and fallow operations, seedbed preparation, cutting and planting seed cane (propagated and field run), cultural regimes for the plant cane and first stubble, second stubble and older and succession planting on a per acre of land basis. An individual may select those budgets that fit his "unique" situation to develop cost and return estimates reflecting his land situation and production activities.

Machinery Costs

Machinery cost data for implements were obtained from annual surveys of machinery dealers. In addition, these data were supplemented with data from a recent issue of Official Guide, Tractors and Farm Equipment.⁶ Purchase prices for machinery items used in this report may be found in the Appendix. Purchase prices for tractors and harvesting equipment were updated in 2005. Appendix Tables 1-4 provide pertinent information used to compute direct and fixed costs per acre and per hour for new powered and towed machines. Machinery performance rates are based on survey data collected from sugarcane producers. These tables are the basis for all machinery costs shown in the budgets and accompanying tables.

Price Data

Input price data reflect current quotes obtained from suppliers of agricultural chemicals and services in the area, Appendix Tables 1 and 5. These data were used as a basis for estimating input costs for 2006. Chemical weed control practices are identified as individual operations within the production sequence. Materials are designated by common name and reflect recommended rates. Chemical names are for identification purposes only and do not constitute endorsement of these products.

Regular hired farm labor was charged at \$9.60 per hour. This wage rate includes a \$7.50 per hour basic wage rate plus additional costs (27.65%) for social security, Medicare, and workman's compensation (6.2%, 1.45%, 20%). Operator labor was charged at \$15.30 per hour, which includes a basic wage rate of \$12.00 per hour plus (27.65%) for social security, Medicare, and workman's compensation (6.2%, 1.45%, 20%). Labor charged at the lower rate includes time spent operating tractors as well as time spent in direct support of any field operation, while labor charged at the higher rate reflects only the time required for operating self-propelled (harvest) machines. It is recognized that full time labor is not generally available on an hourly basis. However, for a single enterprise, the hourly charge represents a practical approach for charging the enterprise for labor necessary to produce that enterprise.

Interest on operating capital was charged at 9 percent. Operating capital was assumed borrowed only for the length of time necessary to secure inputs in a timely fashion. Diesel fuel was priced at \$2.20 per gallon and regular gasoline at \$2.40 per gallon. Variable costs for operating tractors and self-propelled machines include fuel, lubrication and repairs. Variable costs for

⁶ *Official Guide Tractors and Farm Equipment*. St. Louis: National Farm and Power Services, Inc., Fall 1993.

machinery items include lubrication and repairs. The "sequence of operations" tables for each production activity show both variable and fixed costs per acre for performing each machine operation.

The non-land capital or intermediate term interest rate was charged at a historical real rate of 6.4 percent. The reasoning behind the difference in this rate, as compared to the interest on operating capital rate, 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.

Product price projections were made in January 2006, based primarily upon existing supply and use and government program information. Price forecasting at this time has a low degree of reliability since most factors affecting both supply and demand cannot be ascertained at this time. However, the product price estimates are made for the primary purpose of making comparative evaluations among alternative sugarcane production systems or across alternative crops. The 2006 loan level for raw sugar is \$0.18 per pound with a projected market price of raw sugar in the \$0.205 per pound range. Return estimates in this report are computed using a \$0.205 per pound raw sugar market price and a selling price for molasses of \$0.35 per gallon.

Overhead Costs

Overhead costs reflect significant expenses associated with the operation of the entire farm business, but are not necessarily attributable to a specific enterprise. Examples of farm overhead costs include tax services, record keeping, utilities, farmstead maintenance, and insurance and property taxes where applicable.

Overhead cost projections presented in this report are based on the 2000 ERS survey of overhead costs. This survey is conducted every three to eight years. Methodology and detailed information can be found on the ERS website at <http://www.ers.usda.gov>. Forecasts for general farm overhead, and taxes and insurance for corn, soybeans, cotton and rice for regions that include Louisiana for 2004 were averaged. The percentage difference between 2004 and the projected costs for 2006 for each crop national average was calculated and these were averaged. The 2004 regional average was then increased by this average to produce the figure used in this report.

Projected enterprise budgets for sugarcane production included in this report incorporate the variable and fixed cost overhead components as a single lump sum. The total overhead costs for a farm firm are related to tenure and size of business. The overhead costs included in this report were estimated on a per acre basis, and thus are included on a per acre of land use basis.

Machinery Size

The budgets in this report are based on typical size machines for performing each of the various operations. Appendix Tables 2 and 3 present information for each of the machines used in the budgets found in this report. This machinery information (Appendix Tables 2 and 3) can be used to adjust machinery costs and labor requirements for budgets presented in this report to fit a particular farm situation.

Louisiana Sugarcane Producing Areas



Table 1A. Projected Costs and Returns on 1000 Acres of Sugarcane, 4-Year Rotation, Harvest through 2nd stubble, Tenant-Operator, Louisiana, 2006.

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: (\$0.205/lb; 5,001,520 lbs.)					
Plantcane (7,200 lbs/acre)	1,476.00	201.6	297,562		
1st stubble (7,400 lbs/acre)	1,517.00	250.0	379,250		
2nd stubble (6,800 lbs/acre)	1,394.00	250.0	348,500		
Total sugar			1,025,312	1,025.31	0.205
Molasses: (\$0.35/gal; 150,046 gallons)	--	--	52,516		
TOTAL GROSS VALUE			1,077,828	1,077.83	0.216
MILL CHARGE (Payment in kind):					
Sugar (39%)	--	--	399,872		
Molasses	--	--	30,759		
Total mill charge			430,631	430.63	0.086
NET RETURNS TO LAND AND PRODUCER			647,197	647.20	0.129
LAND RENT (Payment in kind):					
Sugar (20% after mill charge)	--	--	125,088		
Molasses (20% after mill charge)	--	--	4,351		
Total land charge			129,439	129.44	0.026
PRODUCER INCOME					
Sugar and Molasses	--	--	517,757	517.76	0.104
ASCL Check Off (\$0.10 /ton)	--	--	(2,501)		
Total Income			515,257	515.26	0.103
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	150.56	250.0	37,640		
Cultured Seed Cane	542.35	8.1	4,371		
Hand Planting	237.84	8.1	1,917		
Wholestalk Seedcane Harvest	70.50	48.4	3,412		
Mechanical Planting - Wholestalk	212.99	242.0	51,544		
Plant Cane Field Operations	218.36	250.0	54,590		
1st Stubble Field Operations	317.74	250.0	79,435		
2nd Stubble Field Operations	325.37	250.0	81,343		
Harvest for Sugar 4/	119.06	701.6	83,532		
Total variable expenses			397,784	397.78	0.080
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			117,472	117.47	0.023
FIXED PRODUCTION EXPENSES 5/		1000.0	120,518	120.52	0.024
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			-3,045	-3.05	-0.001
FARM OVERHEAD EXPENSES		1000.0	28,560	28.56	0.006
NET RETURNS TO MANAGEMENT AND RISK			-31,605	-31.61	-0.006

- 1/ Gross value of production is determined using estimated production from 1000 acres of sugarcane land in a standard 4 year rotation (fallow/plant, plantcane, 1st stubble, and 2nd stubble). Raw sugar is valued at 20.5 cents per pound and molasses at 35.0 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 1000 farm acres (5,001,520 pounds of sugar from 25,008 tons of cane).

Table 1B. Expected Sugar Yield per Rotational Acre of Sugarcane, 4-Year Rotation, Harvest through 2nd stubble, Tenant-Operator, Louisiana, 2006.

	Land Use (%)	Sugar yield			Rotational Acre
		Plantcane	1st stubble	2nd stubble	
Sugar Yield per Acre Harvested for Sugar		7200	7400	6800	
pounds of sugar					
Sugar Yield per Rotational Acre 1/:					
Plantcane	25.00%	1800	--	--	
Plantcane used for seed 2/	4.84%	348	--	--	
1st Stubble	25.00%	--	1850	--	
2nd Stubble	25.00%	--	--	1700	
Fallow/plant	25.00%	--	--	--	
Total Raw Sugar per Rotational Acre		1452	1850	1700	5002
Mill/Landlord Share:					
Mill share	39%	566	722	663	1951
Landlord share (1/5 share)	12.2%	177	226	207	610
Grower=s Share:					
Tenant	48.8%	708	903	830	2441

- 1/ Assumes a standard rotation of 25% each of plantcane, 1st stubble, 2nd stubble, and fallow/plant.
- 2/ Assumes .806 acres of disease-free cultured seed planted annually with two expansions, using a 5:1 planting ratio, for every 25 acres planted each year. Plantcane cut for seed (4.84 acres) will plant 24.2 acres, plus .806 acres planted in cultured seed, yields 25 acres planted.
- 3/ Landlord share is 20 percent of after milling crop proceeds=.
- 4/ Grower's share is total raw sugar less amount taken for mill and land share.

Table 1C. Breakeven Selling Prices for Raw Sugar for Selected Yields and Rental Arrangements, 4-Year Rotation, Harvest through 2nd stubble, Tenant-Operators, Louisiana, 2006

	Selected Yield Levels				
	-20%	-10%	Base	+10%	+20%
Cane yield per harvested acre (tons) 1/	28.5	31.7	35.6	39.2	42.7
Sugar yield per harvested acre (lbs) 2/	5696	6337	7120	7832	8544
Sugar yield per rotational acre (lbs) 3/	4001	4451	5002	5502	6002
ONE-FIFTH LAND SHARE RENT					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	19.5	17.7	16.3	15.1	14.1
Total specified costs	25.7	23.2	21.2	19.6	18.3
Total costs plus overhead	27.1	24.5	22.4	20.7	19.2
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	18.7	17.0	15.8	14.5	13.6
Total specified costs	24.6	22.3	20.4	18.8	17.5
Total costs plus overhead	26.0	23.5	21.5	19.8	18.5

- 1/ Average farm yield across harvested acreage of plantcane, 1st stubble and 2nd stubble.
- 2/ Average yield in tons per acre multiplied by a 200 CRS.
- 3/ Assumes a standard land rotation of 25% 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 share, 50.8% for 1/6 share) into direct costs, total specified costs, and total specified costs plus overhead. No adjustment is made for molasses payments, hauling rebate, or other adjustments. Mill share assumed to be 39%.

Table 1D. Breakeven Raw Sugar Yields for Selected Yields and Rental Arrangements, 4-Year Rotation, Harvest through 2nd stubble, Tenant-Operators, Louisiana, 2006

	Selected Price Levels				
	-1.0	-0.5	Base	+0.5	+1.0
Raw sugar price (cents per pound)	19.5	20.0	20.5	21.0	21.5
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,957	5,808	5,666	5,531	5,403
Total specified costs	7,762	7,568	7,383	7,207	7,040
Total costs plus overhead	8,190	7,985	7,790	7,605	7,428
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,722	5,579	5,443	5,314	5,190
Total specified costs	7,456	7,270	7,093	6,924	6,763
Total costs plus overhead	7,868	7,670	7,484	7,306	7,136

- 1/ Breakeven sugar yield per harvested acre to recover direct costs, total specified costs, and total costs plus overhead. No adjustment is made for molasses payments or other factors..

Table 2A. Projected Costs and Returns on 1000 Acres of Sugarcane, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operator, Louisiana, 2006.

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: (\$0.205/lb; 5,321,360 lbs)					
Plantcane (7,200 lbs/acre)	1,476.00	161.3	238,079		
1st stubble (7,400 lbs/acre)	1,517.00	200.0	303,400		
2nd stubble (6,800 lbs/acre)	1,394.00	200.0	278,800		
3rd stubble (6,600 lbs/acre)	1,353.00	200.0	270,600		
Total sugar			1,090,879	1,090.88	0.205
Molasses (\$0.35/gal; 159,641 gallons)	--	--	55,874		
TOTAL GROSS VALUE			1,146,753	1,146.75	0.216
MILL CHARGE (Payment in kind):					
Sugar (39%)	--	--	425,443		
Molasses	--	--	32,726		
Total mill charge			458,169	458.17	0.086
NET RETURNS TO LAND AND PRODUCER			688,584	688.58	0.129
LAND RENT (Payment in kind):					
Sugar (20% after mill charge)	--	--	133,087		
Molasses (20% after mill charge)	--	--	4,630		
Total land charge			137,717	137.72	0.026
PRODUCER INCOME					
Sugar and Molasses	--	--	550,867	550.87	0.104
ASCL Check Off (\$0.10 /ton)	--	--	(2,661)		
Total Income			548,207	548.21	0.103
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	150.56	200.0	30,112		
Cultured Seed Cane	542.35	6.5	3,525		
Hand Planting	237.84	6.5	1,546		
Harvesting Wholestalk Seedcane	70.50	38.7	2,728		
Mechanical Planting - Wholestalk	212.99	193.5	41,214		
Plant Cane Field Operations	218.36	200.0	43,672		
1st Stubble Field Operations	317.74	200.0	63,548		
2nd Stubble Field Operations	325.37	200.0	65,074		
3rd Stubble Field Operations	325.37	200.0	65,074		
Harvest for Sugar 4/	119.06	761.3	90,640		
Total variable expenses			407,134	407.13	0.077
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES			141,073	141.07	0.027
FIXED PRODUCTION EXPENSES 5/		1000.0	120,181	120.18	0.023
RETURNS ABOVE TOTAL PRODUCTION EXPENSES			20,892	20.89	0.004
FARM OVERHEAD EXPENSES		1000.0	28,560	28.56	0.005
NET RETURNS TO MANAGEMENT AND RISK			-7,668	-7.67	-0.001

- 1/ Gross value of production is determined using estimated production from 1000 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 20.5 cents per pound and molasses at 35.0 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 1000 farm acres (5,321,360 pounds of sugar from 26,607 tons of cane).

Table 2B. Expected Sugar Yield per Rotational Acre of Sugarcane, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operator, Louisiana, 2006

	Land Use (%)	Sugar yield				Rotational Acre
		Plantcane	1st stubble	2nd stubble	3rd stubble	
Sugar Yield per Acre Harvested for Sugar		7200	7400	6800	6600	
pounds of sugar						
Sugar Yield per Rotational Acre 1/:						
Plantcane	20.00%	1440	--	--	--	
Plantcane used for seed 2/	3.87%	279	--	--	--	
1st Stubble	20.00%	--	1480	--	--	
2nd Stubble	20.00%	--	--	1360	--	
3rd Stubble	20.00%	--	--	--	1320	
Fallow/plant	20.00%	--	--	--	--	
Total Raw Sugar per Rotational Acre		1161	1480	1360	1320	5321
Mill/Landlord Share:						
Mill share	39%	453	577	530	515	2075
Landlord share (1/5 share)	12.2%	142	181	166	161	649
Grower=s Share:						
Tenant	48.8%	567	722	664	644	2597

- 1/ Assumes an extended 5 year rotation with 20.00% each of plantcane, 1st stubble 2nd stubble, 3rd stubble, and fallow.
 2/ Assumes .645 acres of disease-free cultured seed planted annually with two expansions, using a 5:1 planting ratio, for every 20.00 acres planted each year. Plantcane cut for seed (3.87 acres) will plant 19.35 acres, plus .645 acres planted in cultured seed, yields 20.00 acres planted.

Table 2C. Breakeven Selling Prices for Raw Sugar for Selected Yields and Rental Arrangements, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operators, Louisiana, 2006

	Selected Yield Levels				
	-20%	-10%	Base	+10%	+20%
Cane yield per harvested acre (tons) 1/	27.9	31.1	34.9	38.4	41.9
Sugar yield per harvested acre (lbs) 2/	5584	6212	6980	7678	8376
Sugar yield per rotational acre (lbs) 3/	4257	4736	5321	5853	6386
ONE-FIFTH LAND SHARE RENT					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	18.7	17.0	15.7	14.6	13.7
Total specified costs	24.5	22.2	20.3	18.8	17.5
Total costs plus overhead	25.9	23.4	21.4	19.8	18.4
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	18.0	16.4	15.1	14.0	13.1
Total specified costs	23.5	21.3	19.5	18.0	16.8
Total costs plus overhead	24.9	22.5	20.6	19.0	17.7

- 1/ Average farm yield across harvested acreage of plantcane, 1st stubble, 2nd stubble and 3rd stubble.
 2/ Average yield in tons per acre multiplied by a 200 CRS.
 3/ Assumes a standard land rotation of 20.00% 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 share, 50.8% for 1/6 share) into direct costs, total specified costs, and total specified costs plus overhead. No adjustment is made for molasses payments, hauling rebate, or other adjustments. Mill share assumed to be 39%.

Table 2D. Breakeven Raw Sugar Yields for Selected Yields and Rental Arrangements, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operators, Louisiana, 2006

	Selected Price Levels				
	-1.0	-0.5	Base	+0.5	+1.0
Raw sugar price (cents per pound)	19.5	20.0	20.5	21.0	21.5
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,622	5,482	5,348	5,221	5,099
Total specified costs	7,282	7,100	6,926	6,762	6,604
Total costs plus overhead	7,676	7,484	7,302	7,128	6,962
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,401	5,266	5,137	5,015	4,898
Total specified costs	6,995	6,820	6,654	6,495	6,344
Total costs plus overhead	7,374	7,190	7,014	6,847	6,688

- 1/ Breakeven sugar yield per harvested acre to recover direct costs, total specified costs, and total costs plus overhead. No adjustment is made for molasses payments or other factors.

Table 3A. Projected Costs and Returns on 1000 Acres of Sugarcane, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operator, Louisiana, 2006

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: (\$0.205/lb; 5,502,208 lbs.)					
Plantcane (7,200 lbs/acre)	1,476.00	134.4	198,433		
1st stubble (7,400 lbs/acre)	1,517.00	166.7	252,884		
2nd stubble (6,800 lbs/acre)	1,394.00	166.7	232,380		
3rd stubble (6,600 lbs/acre)	1,353.00	166.7	225,545		
4th stubble (6,400 lbs/acre)	1,312.00	166.7	218,710		
Total sugar			1,127,953	1,127.95	0.205
Molasses (\$0.35/gal, 165,066 gallons)	--	--	57,773		
TOTAL GROSS VALUE			1,185,726	1,185.73	0.216
MILL CHARGE (Payment in kind):					
Sugar (39%)	--	--	439,902		
Molasses	--	--	33,839		
Total mill charge			473,740	473.74	0.086
NET RETURNS TO LAND AND PRODUCER					
			711,986	711.99	0.129
LAND RENT (Payment in kind):					
Sugar (20% after mill charge)	--	--	137,610		
Molasses (20% after mill charge)	--	--	4,787		
Total land charge			142,397	142.40	0.026
PRODUCER INCOME					
Sugar and Molasses	--	--	569,589	569.59	0.104
ASCL Check Off (\$0.10 /ton)	--	--	(2,751)		
Total Income			566,837	566.84	0.103
VARIABLE PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	150.56	166.7	25,098		
Cultured Seed Cane	542.35	5.4	2,929		
Hand Planting	237.84	5.4	1,284		
Wholestalk Seedcane Harvest	70.50	32.3	2,274		
Mechanical Planting - Wholestalk	212.99	161.3	34,355		
Plant Cane Field Operations	218.36	166.7	36,401		
1st Stubble Field Operations	317.74	166.7	52,967		
2nd Stubble Field Operations	325.37	166.7	54,239		
3rd Stubble Field Operations	325.37	166.7	54,239		
4th Stubble Field Operations	325.37	166.7	54,239		
Harvest for Sugar 4/	119.06	801.2	95,396		
Total variable expenses			413,422	413.42	0.075
RETURNS ABOVE VARIABLE PRODUCTION EXPENSES					
			153,415	153.42	0.028
FIXED PRODUCTION EXPENSES 5/					
		1000.0	119,981	119.98	0.022
RETURNS ABOVE TOTAL PRODUCTION EXPENSES					
			33,434	33.43	0.006
FARM OVERHEAD EXPENSES					
		1000.0	28,560	28.56	0.005
NET RETURNS TO MANAGEMENT AND RISK					
			4,874	4.87	0.001

- 1/ Gross value of production is determined using estimated production from 1000 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 20.5 cents per pound and molasses at 35.0 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 1000 farm acres (5,502,208 pounds of sugar from 27,511 tons of cane).

Table 3B. Expected Sugar Yield per Rotational Acre of Sugarcane, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operator, Louisiana, 2006

	Land Use (%)	Sugar yield					Rotational Acre
		Plant cane	1st stubble	2nd stubble	3rd stubble	4th stubble	
Sugar Yield per Acre Harvested for Sugar		7200	7400	6800	6600	6400	
pounds of sugar							
Sugar Yield per Rotational Acre 1/:							
Plantcane	16.67%	1202	--	--	--	--	
Plantcane used for seed 2/	3.23%	233	--	--	--	--	
1st Stubble	16.67%	--	1236	--	--	--	
2nd Stubble	16.67%	--	--	1136	--	--	
3rd Stubble	16.67%	--	--	--	1102	--	
4th Stubble	16.67%	--	--	--	--	1069	
Fallow/plant	16.67%	--	--	--	--	--	
Total Raw Sugar per Rotational Acre		970	1236	1136	1102	1069	5512
Mill/Landlord Share:							
Mill share	39%	378	482	443	430	417	2150
Landlord share (1/5 share)	12.2%	118	151	139	134	130	672
Grower's Share:							
Tenant	48.8%	473	603	554	538	522	2690

- 1/ Assumes an extended 6 year rotation with 16.67% each of plantcane, 1st stubble 2nd stubble, 3rd stubble, 4th stubble and fallow.
 2/ Assumes .535 acres of disease-free cultured seed planted annually with two expansions, using a 5:1 planting ratio, for every 16.67 acres planted each year. Plantcane cut for seed (3.23 acres) will plant 16.165 acres, plus .535 acres planted in cultured seed, yields 16.67 acres planted.

Table 3C. Breakeven Selling Prices for Raw Sugar for Selected Yields and Rental Arrangements, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operators, Louisiana, 2006

	Selected Yield Levels				
	-20%	-10%	Base	+10%	+20%
Cane yield per harvested acre (tons) 1/	27.4	30.5	34.3	37.7	41.2
Sugar yield per harvested acre (lbs) 2/	5488	6105	6860	7546	8232
Sugar yield per rotational acre (lbs) 3/	4410	4906	5512	6063	6615
ONE-FIFTH LAND SHARE RENT					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	18.4	16.7	15.4	14.3	13.4
Total specified costs	23.9	21.7	19.9	18.4	17.2
Total costs plus overhead	25.3	22.9	20.9	19.4	18.0
ONE-SIXTH LAND SHARE RENT:					
Breakeven price to recover: 4/	-----cents per pound of sugar-----				
Direct costs	17.6	16.0	14.8	13.8	12.9
Total specified costs	23.0	20.8	19.1	17.7	16.5
Total costs plus overhead	24.3	22.0	20.1	18.6	17.3

- 1/ Average farm yield across harvested acreage of plantcane and stubble crops (1st, 2nd, 3rd and 4th).
 2/ Average yield in tons per acre multiplied by a 200 CRS.
 3/ Assumes a standard land rotation of 16.67% 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 share, 50.8% for 1/6 share) into direct costs, total specified costs, and total specified costs plus overhead. No adjustment is made for molasses payments, hauling rebate, or other adjustments. Mill share assumed to be 39%.

Table 3D. Breakeven Raw Sugar Yields for Selected Yields and Rental Arrangements, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operators, Louisiana, 2006

	Selected Price Levels				
	-1.0	-0.5	Base	+0.5	+1.0
Raw sugar price (cents per pound)	19.5	20.0	20.5	21.0	21.5
ONE-FIFTH LAND SHARE RENT					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,424	5,288	5,159	5,036	4,919
Total specified costs	6,998	6,823	6,657	6,498	6,347
Total costs plus overhead	7,373	7,188	7,013	6,846	6,687
ONE-SIXTH LAND SHARE RENT:					
Breakeven yield to recover: 1/	-----pounds of sugar per harvested acre-----				
Direct costs	5,210	5,080	4,956	4,838	4,726
Total specified costs	6,722	6,554	6,394	6,242	6,097
Total costs plus overhead	7,082	6,905	6,737	6,576	6,424

- 1/ Breakeven sugar yield per harvested acre to recover direct costs, total specified costs, and total costs plus overhead. No adjustment is made for molasses payments or other factors..

Table 4.A Estimated costs per acre, Breaking stubble, fallow activities & seedbed preparation, Sugarcane, Louisiana 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Atrazine 4L	pt	1.29	4.0000	5.16	
Roundup Ultra MAX	pt	5.87	4.0000	23.48	
SERVICE FEE					
Crop Consultant	acre	6.00	1.0000	6.00	
LA Hired Labor					
Tractors	hour	9.60	3.1849	30.57	
DIESEL FUEL					
Tractors	gal	2.20	25.8136	56.79	
REPAIR & MAINTENANCE					
Implements	acre	13.14	1.0000	13.14	
Tractors	acre	9.45	1.0000	9.45	
INTEREST ON OP. CAP.	acre	5.97	1.0000	5.97	
TOTAL DIRECT EXPENSES				150.56	
FIXED EXPENSES					
Implements	acre	19.49	1.0000	19.49	
Tractors	acre	63.50	1.0000	63.50	
TOTAL FIXED EXPENSES				82.99	
TOTAL SPECIFIED EXPENSES				233.55	

Table 4.B Estimated resource use and costs for field operations, per acre Breaking stubble, fallow activities & seedbed preparation, Sugarcane, Louisiana 2006.

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	5.02	4.93	1.54	2.29	0.20	1.92				15.70
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Mar	5.52	5.41	0.97	1.26	0.21	2.11				15.27
SC Land Plane	15 ft	MFWD 150	0.300	2.00	Apr	11.94	11.47	1.32	3.05	0.60	5.77				33.55
SC Chisel Plow	13 ft	MFWD 190	0.219	1.00	Apr	5.52	5.41	0.97	1.26	0.21	2.11				15.27
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	2.51	2.46	0.77	1.15	0.10	0.96				7.85
SC Disk	20 ft	MFWD 190	0.100	1.00	Apr	2.51	2.46	0.77	1.15	0.10	0.96				7.85
SC 3Row (Marker)	18 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.59	0.74	0.12	1.15				7.16
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	2.00	May	4.77	4.58	1.37	1.78	0.24	2.30				14.80
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.77	0.58	0.13	0.14	0.08	0.77				2.39
Subsoiler	3 shank	MFWD 190	0.204	1.00	May	5.13	5.03	0.25	0.71	0.20	1.96				13.08
SC Chisel Plow	23 ft	MFWD 190	0.120	0.50	May	1.51	1.48	0.25	0.69	0.06	0.58				4.51
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	2.00	May	4.77	4.58	1.37	1.78	0.24	2.30				14.80
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Jun	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Atrazine 4L	pt											4.0000	1.29	5.16	5.16
SC 3Row Plow	18 ft	MFWD 190	0.120	1.00	Jul	3.01	2.96	1.11	1.44	0.12	1.15				9.67
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Jul	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Aug	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Roundup Ultra MAX	pt											4.0000	5.87	23.48	23.48
SC 3Row (Hipper)	18 ft	MFWD 190	0.120	1.00	Aug	3.01	2.96	0.69	0.89	0.12	1.15				8.70
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Aug	0.77	0.58	0.13	0.14	0.08	0.77				2.39
Crop Consultant	acre			1.00	Sep							1.0000	6.00	6.00	6.00
TOTALS						66.24	63.50	13.14	19.49	3.18	30.57			34.64	227.58
INTEREST ON OPERATING CAPITAL															5.97
TOTAL SPECIFIED COST															233.55

Table 5.A Estimated costs per acre,
Heat treatment of seed cane,
Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA SC Heat Treat Lab					
Special Labor	hour	7.50	2.0000	15.00	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.4268	6.53	_____
LA Hired Labor					
Tractors	hour	9.60	0.0800	0.77	_____
Self-Propelled	hour	9.60	0.6606	6.34	_____
DIESEL FUEL					
Tractors	gal	2.20	0.3088	0.68	_____
Self-Propelled	gal	2.20	7.3082	16.07	_____
REPAIR & MAINTENANCE					
Implements	acre	0.13	1.0000	0.13	_____
Tractors	acre	0.09	1.0000	0.09	_____
Self-Propelled	acre	30.80	1.0000	30.80	_____
INTEREST ON OP. CAP.	acre	6.87	1.0000	6.87	_____

TOTAL DIRECT EXPENSES				83.28	_____
FIXED EXPENSES					
Implements	acre	0.14	1.0000	0.14	_____
Tractors	acre	0.58	1.0000	0.58	_____
Self-Propelled	acre	47.55	1.0000	47.55	_____

TOTAL FIXED EXPENSES				48.27	_____

TOTAL SPECIFIED EXPENSES				131.55	_____

Table 5.B Estimated resource use and costs for field operations, per acre
Heat treatment of seed cane,
Sugarcane, Louisiana, 2006.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	
						-----dollars-----				dollars		-----dollars-----		
SC Harvester 2Rw	12 ft		0.388	1.00	Sep	26.07	26.81			0.42	6.53			59.41
SC Loader 2Rw	12 ft		0.300	1.00	Sep	10.40	10.37			0.33	3.17			23.94
LA SC Heat Treat Lab	hour			1.00	Sep					2.00	15.00			15.00
SC Treating Charge	acre											1.0000		
SC Loader 2Rw	12 ft		0.300	1.00	Sep	10.40	10.37			0.33	3.17			23.94
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77			2.39
						-----		-----		-----		-----		
TOTALS						47.64	48.13	0.13	0.14	3.16	28.64		0.00	124.68
INTEREST ON OPERATING CAPITAL														6.87
TOTAL SPECIFIED COST														131.55

Table 6.A Estimated costs per acre,
Cultured seed cane,
Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
SEED/PLANTS					
SC Cultured seedcane	acre	484.00	1.0000	484.00	_____
LA Hired Labor					
Self-Propelled	hour	9.60	0.3303	3.17	_____
DIESEL FUEL					
Self-Propelled	gal	2.20	2.1021	4.62	_____
REPAIR & MAINTENANCE					
Self-Propelled	acre	5.78	1.0000	5.78	_____
INTEREST ON OP. CAP.	acre	44.78	1.0000	44.78	_____
TOTAL DIRECT EXPENSES				542.35	_____
FIXED EXPENSES					
Self-Propelled	acre	10.37	1.0000	10.37	_____
TOTAL FIXED EXPENSES				10.37	_____
TOTAL SPECIFIED EXPENSES				552.72	_____

Table 6.B Estimated resource use and costs for field operations, per acre
Cultured seed cane,
Sugarcane, Louisiana, 2006.

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	10.40	10.37			0.33	3.17				23.94
TOTALS						10.40	10.37	0.00	0.00	0.33	3.17			484.00	507.94
INTEREST ON OPERATING CAPITAL															44.78
TOTAL SPECIFIED COST															552.72

Table 7.A Estimated costs per acre,
Wholestalk seedcane harvest,
Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.4268	6.53	_____
LA Hired Labor					
Tractors	hour	9.60	0.6300	6.05	_____
Self-Propelled	hour	9.60	0.3303	3.17	_____
DIESEL FUEL					
Tractors	gal	2.20	4.5553	10.02	_____
Self-Propelled	gal	2.20	5.2061	11.45	_____
REPAIR & MAINTENANCE					
Implements	acre	0.76	1.0000	0.76	_____
Tractors	acre	1.68	1.0000	1.68	_____
Self-Propelled	acre	25.02	1.0000	25.02	_____
INTEREST ON OP. CAP.	acre	5.82	1.0000	5.82	_____
TOTAL DIRECT EXPENSES				70.50	_____
FIXED EXPENSES					
Implements	acre	1.09	1.0000	1.09	_____
Tractors	acre	11.08	1.0000	11.08	_____
Self-Propelled	acre	37.18	1.0000	37.18	_____
TOTAL FIXED EXPENSES				49.35	_____
TOTAL SPECIFIED EXPENSES				119.85	_____

Table 7.B Estimated resource use and costs for field operations, per acre
Wholestalk seedcane harvest,
Sugarcane, Louisiana, 2006.

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	26.07	26.81			0.42	6.53				59.41
SC Loader 2Rw	12 ft		0.300	1.00	Sep	10.40	10.37			0.33	3.17				23.94
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Sep	10.93	10.50	0.63	0.95	0.55	5.28				28.29
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77				2.39
TOTALS						48.17	48.26	0.76	1.09	1.38	15.75			0.00	114.03
INTEREST ON OPERATING CAPITAL															5.82
TOTAL SPECIFIED COST															119.85

Table 8.A Estimated costs per acre,
Billet seedcane harvest,
Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.6586	10.08	_____
LA Hired Labor					
Tractors	hour	9.60	0.6300	6.05	_____
DIESEL FUEL					
Tractors	gal	2.20	4.5553	10.02	_____
Self-Propelled	gal	2.20	5.3892	11.86	_____
REPAIR & MAINTENANCE					
Implements	acre	6.38	1.0000	6.38	_____
Tractors	acre	1.68	1.0000	1.68	_____
Self-Propelled	acre	20.96	1.0000	20.96	_____
INTEREST ON OP. CAP.	acre	6.03	1.0000	6.03	_____
TOTAL DIRECT EXPENSES				73.06	_____
FIXED EXPENSES					
Implements	acre	5.27	1.0000	5.27	_____
Tractors	acre	11.08	1.0000	11.08	_____
Self-Propelled	acre	27.14	1.0000	27.14	_____
TOTAL FIXED EXPENSES				43.49	_____
TOTAL SPECIFIED EXPENSES				116.55	_____

Table 8.B Estimated resource use and costs for field operations, per acre
Billet seedcane harvest,
Sugarcane, Louisiana, 2006.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	
						-----dollars-----				dollars		-----dollars-----		
SC Billet Harvester	6 ft		0.598	1.00	Sep	32.82	27.14			0.65	10.08			70.04
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.500	1.00	Sep	10.93	10.50	6.25	5.13	0.55	5.28			38.09
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77			2.39
TOTALS						44.52	38.22	6.38	5.27	1.28	16.13		0.00	110.52
INTEREST ON OPERATING CAPITAL														6.03
TOTAL SPECIFIED COST														116.55

Table 9.A Estimated costs per acre,
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
LA Nitrogen	lb	0.40	15.0000	6.00	_____
LA Phosphate	lb	0.30	45.0000	13.50	_____
LA Potash	lb	0.21	45.0000	9.45	_____
HERBICIDES					
Sencor DF	lb	20.68	1.5000	31.02	_____
Prowl 3.3 EC	pt	2.63	7.2000	18.94	_____
LA SC Planting Labor					
Special Labor	acre	25.00	3.0000	75.00	_____
LA Hired Labor					
Tractors	hour	9.60	2.2505	21.61	_____
DIESEL FUEL					
Tractors	gal	2.20	17.0264	37.47	_____
REPAIR & MAINTENANCE					
Implements	acre	16.37	1.0000	16.37	_____
Tractors	acre	6.24	1.0000	6.24	_____
INTEREST ON OP. CAP.	acre	2.24	1.0000	2.24	_____
TOTAL DIRECT EXPENSES				237.84	_____
FIXED EXPENSES					
Implements	acre	27.65	1.0000	27.65	_____
Tractors	acre	41.35	1.0000	41.35	_____
TOTAL FIXED EXPENSES				69.00	_____
TOTAL SPECIFIED EXPENSES				306.84	_____

Table 9.B Estimated resource use and costs for field operations, per acre
Hand planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2006.

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	5.52	5.41	3.52	3.84	0.21	2.11				20.40
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Sep	2.39	2.29	0.69	0.89	0.12	1.15				7.41
LA Nitrogen	lb											15.0000	0.40	6.00	6.00
LA Phosphate	lb											45.0000	0.30	13.50	13.50
LA Potash	lb											45.0000	0.21	9.45	9.45
SC 3Row (Opener)	18 ft	MFWD 150	0.120	1.00	Sep	2.39	2.29	0.47	0.61	0.12	1.15				6.91
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Cane Planters Aid	6 ft	MFWD 150	1.000	1.00	Sep	19.88	19.09	8.44	19.67	1.00	9.60				76.68
LA SC Planting Labor	acre									3.00	75.00				75.00
SC 3Row (Cover)	18 ft	2WD 170	0.120	1.00	Sep	2.66	2.32	1.44	0.53	0.12	1.16				8.11
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.78	3.63	0.47	0.50	0.19	1.83				10.21
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Sep	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Sencor DF	lb											1.5000	20.68	31.02	31.02
Prowl 3.3 EC	pt											7.2000	2.63	18.94	18.94
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Oct	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Oct	0.77	0.58	0.13	0.14	0.08	0.77				2.39
TOTALS						43.71	41.35	16.37	27.65	5.25	96.61			78.91	304.60
INTEREST ON OPERATING CAPITAL															2.24
TOTAL SPECIFIED COST															306.84

Table 10.A Estimated costs per acre,
Mechanical planting, 1-Row
Wholestalk, Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
LA Nitrogen	lb	0.40	15.0000	6.00	_____
LA Phosphate	lb	0.30	45.0000	13.50	_____
LA Potash	lb	0.21	45.0000	9.45	_____
HERBICIDES					
Sencor DF	lb	20.68	1.5000	31.02	_____
Prowl 3.3 EC	pt	2.63	7.2000	18.94	_____
LA SC Planting Labor					
Special Labor	acre	25.00	2.0000	50.00	_____
LA Hired Labor					
Tractors	hour	9.60	1.9205	18.44	_____
DIESEL FUEL					
Tractors	gal	2.20	14.3544	31.59	_____
REPAIR & MAINTENANCE					
Implements	acre	11.62	1.0000	11.62	_____
Tractors	acre	5.30	1.0000	5.30	_____
INTEREST ON OP. CAP.	acre	17.13	1.0000	17.13	_____
TOTAL DIRECT EXPENSES				212.99	_____
FIXED EXPENSES					
Implements	acre	16.57	1.0000	16.57	_____
Tractors	acre	35.03	1.0000	35.03	_____
TOTAL FIXED EXPENSES				51.60	_____
TOTAL SPECIFIED EXPENSES				264.59	_____

Table 10.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Wholestalk,
Sugarcane, Louisiana, 2006.

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	5.52	5.41	3.52	3.84	0.21	2.11				20.40
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Sep	2.39	2.29	0.69	0.89	0.12	1.15				7.41
LA Nitrogen	lb											15.0000	0.40	6.00	6.00
LA Phosphate	lb											45.0000	0.30	13.50	13.50
LA Potash	lb											45.0000	0.21	9.45	9.45
SC 3Row (Opener)	18 ft	MFWD 150	0.120	1.00	Sep	2.39	2.29	0.47	0.61	0.12	1.15				6.91
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Cane Plt-Whlstalk	6 ft	MFWD 150	0.670	1.00	Sep	13.32	12.79	3.69	8.59	0.67	6.43				44.82
LA SC Planting Labor	acre									2.00	50.00				50.00
SC 3Row (Cover)	18 ft	MFWD 150	0.120	1.00	Sep	2.40	2.30	1.44	0.53	0.12	1.16				7.83
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.78	3.63	0.47	0.50	0.19	1.83				10.21
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Sencor DF	lb											1.5000	20.68	31.02	31.02
Prowl 3.3 EC	pt											7.2000	2.63	18.94	18.94
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Nov	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.77	0.58	0.13	0.14	0.08	0.77				2.39
TOTALS						36.89	35.03	11.62	16.57	3.92	68.44			78.91	247.46
INTEREST ON OPERATING CAPITAL															17.13
TOTAL SPECIFIED COST															264.59

Table 11.A Estimated costs per acre,
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
LA Nitrogen	lb	0.40	15.0000	6.00	_____
LA Phosphate	lb	0.30	45.0000	13.50	_____
LA Potash	lb	0.21	45.0000	9.45	_____
HERBICIDES					
Sencor DF	lb	20.68	1.5000	31.02	_____
Prowl 3.3 EC	pt	2.63	7.2000	18.94	_____
LA SC Planting Labor					
Special Labor	acre	25.00	1.0000	25.00	_____
LA Hired Labor					
Tractors	hour	9.60	1.9205	18.44	_____
DIESEL FUEL					
Tractors	gal	2.20	14.3544	31.59	_____
REPAIR & MAINTENANCE					
Implements	acre	11.62	1.0000	11.62	_____
Tractors	acre	5.30	1.0000	5.30	_____
INTEREST ON OP. CAP.	acre	14.88	1.0000	14.88	_____

TOTAL DIRECT EXPENSES				185.74	_____
FIXED EXPENSES					
Implements	acre	16.57	1.0000	16.57	_____
Tractors	acre	35.03	1.0000	35.03	_____

TOTAL FIXED EXPENSES				51.60	_____

TOTAL SPECIFIED EXPENSES				237.34	_____

Table 11.B Estimated resource use and costs for field operations, per acre
Mechanical planting, 1-Row Billet,
Sugarcane, Louisiana, 2006.

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	5.52	5.41	3.52	3.84	0.21	2.11				20.40
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Sep	2.39	2.29	0.69	0.89	0.12	1.15				7.41
LA Nitrogen	lb											15.0000	0.40	6.00	6.00
LA Phosphate	lb											45.0000	0.30	13.50	13.50
LA Potash	lb											45.0000	0.21	9.45	9.45
SC 3Row (Opener)	18 ft	MFWD 150	0.120	1.00	Sep	2.39	2.29	0.47	0.61	0.12	1.15				6.91
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Cane Plt-1R Bille	1 row	MFWD 150	0.670	1.00	Sep	13.32	12.79	3.69	8.59	0.67	6.43				44.82
LA SC Planting Labor	acre									1.00	25.00				25.00
SC 3Row (Cover)	18 ft	MFWD 150	0.120	1.00	Sep	2.40	2.30	1.44	0.53	0.12	1.16				7.83
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.78	3.63	0.47	0.50	0.19	1.83				10.21
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Sencor DF	lb											1.5000	20.68	31.02	31.02
Prowl 3.3 EC	pt											7.2000	2.63	18.94	18.94
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Nov	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.77	0.58	0.13	0.14	0.08	0.77				2.39
TOTALS						36.89	35.03	11.62	16.57	2.92	43.44			78.91	222.46
INTEREST ON OPERATING CAPITAL															14.88
TOTAL SPECIFIED COST															237.34

Table 12.A Estimated costs per acre,
Succession planting,
Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
LA Nitrogen	lb	0.40	60.0000	24.00	
LA Potash	lb	0.21	45.0000	9.45	
HERBICIDES					
Sencor DF	lb	20.68	1.5000	31.02	
Prowl 3.3 EC	pt	2.63	7.2000	18.94	
LA SC Planting Labor					
Special Labor	acre	25.00	2.0000	50.00	
LA Hired Labor					
Tractors	hour	9.60	2.5709	24.68	
DIESEL FUEL					
Tractors	gal	2.20	19.6651	43.28	
REPAIR & MAINTENANCE					
Implements	acre	15.30	1.0000	15.30	
Tractors	acre	7.26	1.0000	7.26	
INTEREST ON OP. CAP.	acre	6.23	1.0000	6.23	
TOTAL DIRECT EXPENSES				230.16	
FIXED EXPENSES					
Implements	acre	22.32	1.0000	22.32	
Tractors	acre	48.23	1.0000	48.23	
TOTAL FIXED EXPENSES				70.55	
TOTAL SPECIFIED EXPENSES				300.71	

Table 12.B Estimated resource use and costs for field operations, per acre
Succession planting,
Sugarcane, Louisiana, 2006.

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 3Row Plow	18 ft	MFWD 190	0.120	2.00	Sep	6.03	5.91	2.22	2.88	0.24	2.30				19.34
SC Chisel Plow	23 ft	MFWD 190	0.120	1.00	Sep	3.01	2.96	0.49	1.38	0.12	1.15				8.99
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	2.00	Sep	4.77	4.58	1.37	1.78	0.24	2.30				14.80
SC 3Row (Opener)	18 ft	MFWD 150	0.120	1.00	Sep	2.39	2.29	0.47	0.61	0.12	1.15				6.91
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Sep	1.19	1.15	0.23	0.34	0.05	0.58				3.49
LA Nitrogen	lb											15.0000	0.40	6.00	6.00
LA Nitrogen	lb											45.0000	0.40	18.00	18.00
LA Potash	lb											45.0000	0.21	9.45	9.45
SCMechanical Planter	6 ft	MFWD 150	1.000	1.00	Sep	19.88	19.09	7.27	12.69	1.00	9.60				68.53
LA SC Planting Labor	acre									2.00	50.00				50.00
SC 3Row (Cover)	18 ft	MFWD 150	0.120	1.00	Sep	2.40	2.30	1.44	0.53	0.12	1.16				7.83
SC Flat Roller	18 ft	MFWD 150	0.190	1.00	Sep	3.78	3.63	0.47	0.50	0.19	1.83				10.21
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Sep	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Oct	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Sencor DF	lb											1.5000	20.68	31.02	31.02
Prowl 3.3 EC	pt											7.2000	2.63	18.94	18.94
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Nov	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.77	0.58	0.13	0.14	0.08	0.77				2.39
TOTALS						50.54	48.23	15.30	22.32	4.57	74.68			83.41	294.48
INTEREST ON OPERATING CAPITAL															6.23
TOTAL SPECIFIED COST															300.71

Table 13.A Estimated costs per acre,
 Plant cane field operations,
 Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	2.80	2.0000	5.60	_____
FERTILIZERS					
LA Potash	lb	0.21	80.0000	16.80	_____
LA Nitrogen	lb	0.40	100.0000	40.00	_____
HERBICIDES					
Sencor DF	lb	20.68	1.0000	20.68	_____
LA Asulox	gal	47.75	0.5000	23.88	_____
Treflan HFP	pt	2.87	4.0000	11.48	_____
Atrazine 4L	pt	1.29	4.0000	5.16	_____
INSECTICIDES					
Confirm 2F	oz	1.50	16.0000	24.00	_____
SERVICE FEE					
Crop Consultant	acre	6.00	1.0000	6.00	_____
ADJUVANTS					
Surfactant	pt	1.57	3.2000	5.02	_____
LA Hired Labor					
Tractors	hour	9.60	1.9381	18.60	_____
DIESEL FUEL					
Tractors	gal	2.20	13.4200	29.54	_____
REPAIR & MAINTENANCE					
Implements	acre	6.64	1.0000	6.64	_____
Tractors	acre	4.92	1.0000	4.92	_____
INTEREST ON OP. CAP.	acre	0.04	1.0000	0.04	_____
TOTAL DIRECT EXPENSES				218.36	_____
FIXED EXPENSES					
Implements	acre	8.85	1.0000	8.85	_____
Tractors	acre	32.25	1.0000	32.25	_____
TOTAL FIXED EXPENSES				41.10	_____
TOTAL SPECIFIED EXPENSES				259.46	_____

Table 13.B Estimated resource use and costs for field operations, per acre
 Plant cane field operations,
 Sugarcane, Louisiana, 2006.

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 3Row (Offbar)	18 ft	MFWD 150	0.120	1.00	Feb	2.39	2.29	0.69	0.90	0.12	1.15				7.42
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Sencor DF	lb											1.0000	20.68	20.68	20.68
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.19	1.15	0.23	0.34	0.05	0.58				3.49
LA Potash	lb											80.0000	0.21	16.80	16.80
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	2.00	Mar	4.77	4.58	1.37	1.78	0.24	2.30				14.80
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Apr	2.59	2.48	0.36	0.60	0.13	1.25				7.28
LA Nitrogen	lb											100.0000	0.40	40.00	40.00
Disk Bed (Hipper)	4R-38	MFWD 150	0.147	1.00	Apr	2.94	2.82	0.23	0.66	0.14	1.42				8.07
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Apr	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.39	2.29	0.26	0.30	0.12	1.15				6.39
LA Asulox	gal											0.5000	47.75	23.88	23.88
Surfactant	pt											1.6000	1.57	2.51	2.51
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Treflan HFP	pt											4.0000	2.87	11.48	11.48
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Atrazine 4L	pt											4.0000	1.29	5.16	5.16
Surfactant	pt											1.6000	1.57	2.51	2.51
App by Air (2 gal)	appl			1.00	Jun							1.0000	2.80	2.80	2.80
Confirm 2F	oz											8.0000	1.50	12.00	12.00
App by Air (2 gal)	appl			1.00	Jul							1.0000	2.80	2.80	2.80
Confirm 2F	oz											8.0000	1.50	12.00	12.00
Crop Consultant	acre			1.00	Aug							1.0000	6.00	6.00	6.00
TOTALS						34.46	32.25	6.64	8.85	1.93	18.60			158.62	259.42
INTEREST ON OPERATING CAPITAL															0.04
TOTAL SPECIFIED COST															259.46

Table 14.A Estimated costs per acre,
 First Stubble field operations,
 Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	2.80	3.0000	8.40	_____
FERTILIZERS					
LA Phosphate	lb	0.30	60.0000	18.00	_____
LA Potash	lb	0.21	120.0000	25.20	_____
Sulfur	lb	0.21	24.0000	5.04	_____
LA Nitrogen	lb	0.40	120.0000	48.00	_____
HERBICIDES					
Sencor DF	lb	20.68	1.0000	20.68	_____
LA Weedmaster	gal	24.79	0.2500	6.20	_____
LA Asulox	gal	47.75	1.0000	47.75	_____
Treflan HFP	pt	2.87	4.0000	11.48	_____
Atrazine 4L	pt	1.29	4.0000	5.16	_____
INSECTICIDES					
Confirm 2F	oz	1.50	16.0000	24.00	_____
GROWTH REGULATORS					
LA Polado	oz	0.38	8.0000	3.04	_____
SERVICE FEE					
Crop Consultant	acre	6.00	1.0000	6.00	_____
ADJUVANTS					
Surfactant	pt	1.57	4.8000	7.54	_____
LA Hired Labor					
Tractors	hour	9.60	2.1506	20.63	_____
DIESEL FUEL					
Tractors	gal	2.20	15.0607	33.15	_____
REPAIR & MAINTENANCE					
Implements	acre	8.06	1.0000	8.06	_____
Tractors	acre	5.53	1.0000	5.53	_____
INTEREST ON OP. CAP.	acre	13.88	1.0000	13.88	_____
TOTAL DIRECT EXPENSES				317.74	_____
FIXED EXPENSES					
Implements	acre	10.32	1.0000	10.32	_____
Tractors	acre	36.30	1.0000	36.30	_____
TOTAL FIXED EXPENSES				46.62	_____
TOTAL SPECIFIED EXPENSES				364.36	_____

Table 14.B Estimated resource use and costs for field operations, per acre
 First Stubble field operations,
 Sugarcane, Louisiana, 2006.

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 3Row (Offbar)	18 ft	MFWD 150	0.120	2.00	Feb	4.77	4.58	1.38	1.81	0.24	2.30				14.84	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.77	0.58	0.13	0.14	0.08	0.77				2.39	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.39	2.29	0.26	0.30	0.12	1.15				6.39	
Sencor DF	lb											1.0000	20.68	20.68	20.68	
LA Weedmaster	gal											0.2500	24.79	6.20	6.20	
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.19	1.15	0.23	0.34	0.05	0.58				3.49	
LA Phosphate	lb											60.0000	0.30	18.00	18.00	
LA Potash	lb											120.0000	0.21	25.20	25.20	
Sulfur	lb											24.0000	0.21	5.04	5.04	
SC 3Row (Offbar)	18 ft	MFWD 150	0.120	2.00	Mar	4.77	4.58	1.38	1.81	0.24	2.30				14.84	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.77	0.58	0.13	0.14	0.08	0.77				2.39	
SC Fert 3Row Lq App	18 ft	MFWD 150	0.130	1.00	Mar	2.59	2.48	0.36	0.60	0.13	1.25				7.28	
LA Nitrogen	lb											120.0000	0.40	48.00	48.00	
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Mar	2.39	2.29	0.69	0.89	0.12	1.15				7.41	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.77	0.58	0.13	0.14	0.08	0.77				2.39	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.39	2.29	0.26	0.30	0.12	1.15				6.39	
LA Asulox	gal											0.5000	47.75	23.88	23.88	
Surfactant	pt											1.6000	1.57	2.51	2.51	
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Apr	2.39	2.29	0.69	0.89	0.12	1.15				7.41	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.77	0.58	0.13	0.14	0.08	0.77				2.39	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.39	2.29	0.26	0.30	0.12	1.15				6.39	
LA Asulox	gal											0.5000	47.75	23.88	23.88	
Surfactant	pt											1.6000	1.57	2.51	2.51	
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.69	0.89	0.12	1.15				7.41	
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.77	0.58	0.13	0.14	0.08	0.77				2.39	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.26	0.30	0.12	1.15				6.39	
Treflan HFP	pt											4.0000	2.87	11.48	11.48	
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.69	0.89	0.12	1.15				7.41	
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.26	0.30	0.12	1.15				6.39	
Atrazine 4L	pt											4.0000	1.29	5.16	5.16	
Surfactant	pt											1.6000	1.57	2.51	2.51	
App by Air (2 gal)	appl			1.00	Jun							1.0000	2.80	2.80	2.80	
Confirm 2F	oz											8.0000	1.50	12.00	12.00	
App by Air (2 gal)	appl			1.00	Jul							1.0000	2.80	2.80	2.80	
Confirm 2F	oz											8.0000	1.50	12.00	12.00	
App by Air (2 gal)	appl			1.00	Sep							1.0000	2.80	2.80	2.80	
LA Polado	oz											8.0000	0.38	3.04	3.04	
Crop Consultant	acre			1.00	Sep							1.0000	6.00	6.00	6.00	
TOTALS							38.68	36.30	8.06	10.32	2.15	20.63			236.49	350.48
INTEREST ON OPERATING CAPITAL																13.88
TOTAL SPECIFIED COST																364.36

Table 15.A Estimated costs per acre,
 Second Stubble and older field operations,
 Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	2.80	3.0000	8.40	_____
FERTILIZERS					
LA Phosphate	lb	0.30	30.0000	9.00	_____
LA Potash	lb	0.21	120.0000	25.20	_____
Sulfur	lb	0.21	24.0000	5.04	_____
LA Nitrogen	lb	0.40	160.0000	64.00	_____
HERBICIDES					
Sencor DF	lb	20.68	1.0000	20.68	_____
LA Weedmaster	gal	24.79	0.2500	6.20	_____
LA Asulox	gal	47.75	1.0000	47.75	_____
Treflan HFP	pt	2.87	4.0000	11.48	_____
Atrazine 4L	pt	1.29	4.0000	5.16	_____
INSECTICIDES					
Confirm 2F	oz	1.50	16.0000	24.00	_____
GROWTH REGULATORS					
LA Polado	oz	0.38	8.0000	3.04	_____
SERVICE FEE					
Crop Consultant	acre	6.00	1.0000	6.00	_____
ADJUVANTS					
Surfactant	pt	1.57	4.8000	7.54	_____
LA Hired Labor					
Tractors	hour	9.60	2.1506	20.63	_____
DIESEL FUEL					
Tractors	gal	2.20	15.0607	33.15	_____
REPAIR & MAINTENANCE					
Implements	acre	8.06	1.0000	8.06	_____
Tractors	acre	5.53	1.0000	5.53	_____
INTEREST ON OP. CAP.	acre	14.51	1.0000	14.51	_____
TOTAL DIRECT EXPENSES				325.37	_____
FIXED EXPENSES					
Implements	acre	10.32	1.0000	10.32	_____
Tractors	acre	36.30	1.0000	36.30	_____
TOTAL FIXED EXPENSES				46.62	_____
TOTAL SPECIFIED EXPENSES				371.99	_____

Table 15.B Estimated resource use and costs for field operations, per acre
 Second Stubble and older field operations,
 Sugarcane, Louisiana, 2006.

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 3Row (Offbar)	18 ft	MFWD 150	0.120	2.00	Feb	4.77	4.58	1.38	1.81	0.24	2.30				14.84
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Feb	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Feb	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Sencor DF	lb											1.0000	20.68	20.68	20.68
LA Weedmaster	gal											0.2500	24.79	6.20	6.20
SC Fert DrySlingApp	42 ft	MFWD 150	0.059	1.00	Mar	1.19	1.15	0.23	0.34	0.05	0.58				3.49
LA Phosphate	lb											30.0000	0.30	9.00	9.00
LA Potash	lb											120.0000	0.21	25.20	25.20
Sulfur	lb											24.0000	0.21	5.04	5.04
SC 3Row (Offbar)	18 ft	MFWD 150	0.120	2.00	Mar	4.77	4.58	1.38	1.81	0.24	2.30				14.84
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Fert 3Row Iq App	18 ft	MFWD 150	0.130	1.00	Mar	2.59	2.48	0.36	0.60	0.13	1.25				7.28
LA Nitrogen	lb											160.0000	0.40	64.00	64.00
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Mar	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Mar	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Mar	2.39	2.29	0.26	0.30	0.12	1.15				6.39
LA Asulox	gal											0.5000	47.75	23.88	23.88
Surfactant	pt											1.6000	1.57	2.51	2.51
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	Apr	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Apr	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	Apr	2.39	2.29	0.26	0.30	0.12	1.15				6.39
LA Asulox	gal											0.5000	47.75	23.88	23.88
Surfactant	pt											1.6000	1.57	2.51	2.51
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	May	0.77	0.58	0.13	0.14	0.08	0.77				2.39
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Treflan HFP	pt											4.0000	2.87	11.48	11.48
SC 3Row (Hipper)	18 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.69	0.89	0.12	1.15				7.41
SC Boom Sprayer	16 ft	MFWD 150	0.120	1.00	May	2.39	2.29	0.26	0.30	0.12	1.15				6.39
Atrazine 4L	pt											4.0000	1.29	5.16	5.16
Surfactant	pt											1.6000	1.57	2.51	2.51
App by Air (2 gal)	appl			1.00	Jun							1.0000	2.80	2.80	2.80
Confirm 2F	oz											8.0000	1.50	12.00	12.00
App by Air (2 gal)	appl			1.00	Jul							1.0000	2.80	2.80	2.80
Confirm 2F	oz											8.0000	1.50	12.00	12.00
App by Air (2 gal)	appl			1.00	Aug							1.0000	2.80	2.80	2.80
LA Polado	oz											8.0000	0.38	3.04	3.04
Crop Consultant	acre			1.00	Sep							1.0000	6.00	6.00	6.00
TOTALS						38.68	36.30	8.06	10.32	2.15	20.63			243.49	357.48
INTEREST ON OPERATING CAPITAL															14.51
TOTAL SPECIFIED COST															371.99

Table 16.A Estimated costs per acre,
Harvest-1R Combine Harvester, 10-Ton High Dump wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.6586	10.08	_____
LA Hired Labor					
Tractors	hour	9.60	1.7300	16.61	_____
DIESEL FUEL					
Tractors	gal	2.20	13.0483	28.70	_____
Self-Propelled	gal	2.20	5.3892	11.86	_____
REPAIR & MAINTENANCE					
Implements	acre	18.88	1.0000	18.88	_____
Tractors	acre	4.86	1.0000	4.86	_____
Self-Propelled	acre	19.00	1.0000	19.00	_____
INTEREST ON OP. CAP.	acre	9.07	1.0000	9.07	_____
TOTAL DIRECT EXPENSES				119.06	_____
FIXED EXPENSES					
Implements	acre	15.53	1.0000	15.53	_____
Tractors	acre	32.08	1.0000	32.08	_____
Self-Propelled	acre	24.61	1.0000	24.61	_____
TOTAL FIXED EXPENSES				72.22	_____
TOTAL SPECIFIED EXPENSES				191.28	_____

Table 16.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, 2006.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	
						-----dollars-----				dollars		-----dollars-----		
SC Billet Harvester	6 ft		0.598	1.00	Nov	30.86	24.61			0.65	10.08			65.55
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.500	1.00	Nov	10.93	10.50	6.25	5.13	0.55	5.28			38.09
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.500	1.00	Nov	10.93	10.50	6.25	5.13	0.55	5.28			38.09
SC Cane Wgn Billt HD	10Ton	MFWD 150	0.500	1.00	Nov	10.93	10.50	6.25	5.13	0.55	5.28			38.09
SC Drain Cleaner	6 ft	MFWD 75	0.080	1.00	Nov	0.77	0.58	0.13	0.14	0.08	0.77			2.39
TOTALS						64.42	56.69	18.88	15.53	2.38	26.69		0.00	182.21
INTEREST ON OPERATING CAPITAL														9.07
TOTAL SPECIFIED COST														191.28

Table 17.A Estimated costs per acre,
Harvest-2-row Wholestalk, 10-ton transfer wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2006.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.4268	6.53	_____
LA Hired Labor					
Tractors	hour	9.60	1.2499	12.00	_____
Self-Propelled	hour	9.60	0.6053	5.81	_____
DIESEL FUEL					
Tractors	gal	2.20	9.0717	19.95	_____
Self-Propelled	gal	2.20	6.3811	14.04	_____
REPAIR & MAINTENANCE					
Implements	acre	1.51	1.0000	1.51	_____
Tractors	acre	3.38	1.0000	3.38	_____
Self-Propelled	acre	26.51	1.0000	26.51	_____
INTEREST ON OP. CAP.	acre	7.40	1.0000	7.40	_____
TOTAL DIRECT EXPENSES				97.13	_____
FIXED EXPENSES					
Implements	acre	2.34	1.0000	2.34	_____
Tractors	acre	22.32	1.0000	22.32	_____
Self-Propelled	acre	41.28	1.0000	41.28	_____
TOTAL FIXED EXPENSES				65.94	_____
TOTAL SPECIFIED EXPENSES				163.07	_____

Table 17.B Estimated resource use and costs for field operations, per acre
Harvest-2R Wholestalk, 10-ton transfer wagons,
Custom truck/trailer haul, Sugarcane, Louisiana, 2006.

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	23.81	23.65			0.42	6.53			53.99
SC Burning Unit	18 ft	MFWD 75	0.149	1.00	Nov	1.47	1.32	0.25	0.44	0.14	1.44			4.92
SC Loader 2Rw	12 ft		0.300	1.00	Nov	10.40	10.37			0.33	3.17			23.94
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	10.93	10.50	0.63	0.95	0.55	5.28			28.29
SC Cane Wagon 10T	10 Ton	MFWD 150	0.500	1.00	Nov	10.93	10.50	0.63	0.95	0.55	5.28			28.29
SC Transloader			0.250	1.00	Nov	6.34	7.26			0.27	2.64			16.24
TOTALS						63.88	63.60	1.51	2.34	2.28	24.34			155.67
INTEREST ON OPERATING CAPITAL													0.00	7.40
TOTAL SPECIFIED COST														163.07

APPENDIX A

PROCEDURE FOR USING BUDGETS TO ESTIMATE COSTS AND RETURNS

Select the appropriate budgets to reflect your farm situation. This typically includes a cost budget for fallow activities and seedbed preparation, cultured and propagated seedcane, planting seed cane (hand or mechanical), cultural practices for each sugarcane crop (i.e., plantcane, first stubble, second stubble and older, and succession plant as applicable), specified harvest activities, and overhead costs. Income budgets are required for each sugarcane crop producing income.

The situation in this illustration assumes a 1000 acre sugarcane farm which employs new 3-row equipment and has implemented a cultured seedcane program. The illustration assumes an extended 5 year rotation scheme (harvest through third stubble crop) presented in Table 2A. Its structure contains 20 percent plantcane, 20 percent first stubble, 20 percent second stubble, 20 percent 3rd stubble and 20 percent fallow/plant. Purchased cultured seedcane is expanded twice before being planted as millable cane (plantcane only used for seed), with its first and second stubble being grown for sugar. One acre of propagated seed cane is harvested and used for seed for each five acres to be planted. The cost and yield information used in the illustration comes from tables 4, 6, 7, 9, 10, 13, 14, 15, and 17.

The mill charge is assumed to be payment-in-kind, 39 percent of the total value of raw sugar output. This percentage represents approximately the average share of the sugarcane crop taken by the mill as payment for processing. The illustration assumes a tenant-operator situation, where land cost is 20 percent (one-fifth share) of the raw sugar output remaining after mill charges are removed (12.2% of total production). For illustrative purposes, a selling price of raw sugar of 20.5 cents per pound and a molasses price of 35.0 cents per gallon are used in calculating returns.

COST CALCULATION

Total specified cost per acre presented in each of the budget tables is multiplied by the appropriate number of acres to give total farm cost.

Crop	Total Specified Cost per Acre	Acres	Total Farm Cost
	(dollars/acre)	(acres)	(dollars)
Fallow Field and Seedbed Preparation	233.55	200.00	46,710
Cultured Seed Cane	552.72	6.50	3,593
Hand Planting Seedcane	306.84	6.50	1,994
Wholestalk Seedcane Harvest	119.85	38.70	4,638
Mechanical Planting Seedcane	264.59	193.50	51,198
Plant Cane Field Operations	259.46	200.00	51,892
1st Stubble Field Operations	364.36	200.00	72,872
2nd Stubble Field Operations	371.99	200.00	74,398
3rd Stubble Field Operations	371.99	200.00	74,398
Harvest for Sugar	191.28	761.30	145,621
Overhead	28.56	1000.00	28,560
			=====
Total Specified Expenses			555,875

OUTPUT CALCULATIONS

RAW SUGAR

Total raw sugar output is determined by multiplying the raw sugar yield per acre for each crop by the number of acres of each crop.

Crop	Tons of Cane per Acre	CRS	Raw Sugar per Acre	Acres	Total Raw Sugar
	(tons/acre)	(lbs/ton)	(cwt/acre)	(acres)	(cwt)
Plantcane	36.0	200	72.00	161.3	11,614
1st Stubble	37.0	200	74.00	200.0	14,800
2nd Stubble	34.0	200	68.00	200.0	13,600
3rd Stubble	33.0	200	66.00	200.0	13,200
Total					53,214

MOLASSES

The total molasses output is determined by multiplying the total raw sugar output for each crop by the molasses-to-raw sugar ratio, (assumed to be 3.0 gallons of molasses per cwt. of raw sugar).

Crop	Total Raw Sugar	Molasses/Sugar Ratio	Total Molasses
	(cwt)	(gallons/cwt)	(gallons)
Plantcane	11,614	3.0	34,841
1st Stubble	14,800	3.0	44,400
2nd Stubble	13,600	3.0	40,800
3rd Stubble	13,200	3.0	39,600
Total			159,641

ADJUSTMENT FOR MILL CHARGE AND LAND RENT

Total raw sugar output is reduced by the mill share and the landlord share (39% and 12.2% respectively) to determine the portion of output available to a tenant grower to cover production costs.

Commodity	Total Output	Mill Share	Landlord Share	Grower Share
	----- (cwt) -----			
Sugar	53,214	(20,753)	(6,492)	25,968

The returns from molasses are typically shared between the mill, the landlord and the grower. Mill share of molasses arrangements vary from mill to mill. In this example, the mill receives the first six cents of the selling price per gallon and one half of the remaining value. The portion going to the grower (and landlord) is called the molasses bonus. The landlord receives 20 percent of molasses bonus, after mill share is deducted.

Commodity	Total Output	Mill Share	Landlord Share	Grower Share
	----- (dollars) -----			
Molasses	55,874	(32,726)	(4,630)	18,518

RETURN CALCULATIONS

Net returns to cover cost are calculated by summing income generated by the net output of raw sugar to cover production cost, the molasses bonus, and subtracting the American Sugar Cane League checkoff.

Commodity	Unit	Quantity	Unit Price	Net Returns to Cover Costs
Sugar	cwt.	25,968	20.05	532,349
Molasses bonus	gal.	52,910	0.35	18,518
ASCL checkoff	tons	26,607	-0.10	(2,661)
Total				548,207

ECONOMIC ANALYSIS

The information resulting from the calculations above can be used to determine total cost per acre and other relevant cost measures per unit of raw sugar.

TOTAL COST PER ACRE

Total cost per acre is simply total farm cost divided by the total acres.

Total Farm Cost	Total Acres	Total Farm Cost per Acre
(dollars)	(acres)	(dollars/acre)
555,875	1,000	556.00

PRODUCTION COST PER UNIT OF OUTPUT AVAILABLE TO COVER PRODUCTION COST

Production cost per unit of output is calculated by reducing total farm cost by the value of the producer's share of molasses, (molasses bonus), then dividing by grower's share of total sugar output to arrive at net production cost per pound of raw sugar. The value of the molasses is removed so that the final measure will be expressed in terms of raw sugar only. This gives the selling price a producer, like the one in the illustration, would need to breakeven.

Total Farm Cost	Molasses Bonus	Adjusted Total Farm Cost	Pounds of Sugar to Cover Cost	Adjusted Total Farm Cost per Pound of Sugar
----- (dollars) -----			(lbs)	(dollars/lb)
<u>Direct Costs</u> 407,134	(18,518)	388,615	2,596,824	0.150
<u>Direct and Fixed Costs</u> 527,315	(18,518)	508,797	2,596,824	0.196
<u>Direct, Fixed and Overhead Costs</u> 555,875	(18,518)	537,357	2,596,824	0.207

Appendix Table 1 Estimated fuel prices, labor wage rates, and interest rates, Louisiana 2006

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.20
Gasoline	gal	2.40
LABOR TYPES		
Operator	hour	9.60
Hand	hour	9.60
Irrigation	hour	9.60
Owner	hour	15.30
INTEREST RATES		
Short-term	%	9.00
Intermediate-term	%	6.40

Appendix Table 2. Tractors: estimated useful life, annual use, purchase price, repair cost, fuel consumption rate, and direct and fixed cost per hour, Louisiana 2006

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)RB	2WD 50	18,718	600	8	2.57	9.60	5.66	0.58	15.84	3.86	19.70
Tractor (40-59hp)RB	MFWD 50	23,706	600	8	2.57	9.60	5.66	0.74	16.00	4.88	20.89
Tractor (60-89hp)RB	2WD 75	28,557	600	8	3.86	9.60	8.49	0.89	18.98	5.89	24.87
Tractor (60-89hp)RB	MFWD 75	34,982	600	8	3.86	9.60	8.49	1.09	19.18	7.21	26.40
Tractor (90-119hp)RB	2WD 105	45,123	600	8	5.40	9.60	11.89	1.41	22.90	9.30	32.20
Tractor (90-119hp)RB	MFWD 105	53,979	600	8	5.40	9.60	11.89	1.68	23.17	11.13	34.31
Tractor (120-139hp)CB	2WD 130	70,771	600	8	6.69	9.60	14.72	2.21	26.53	14.59	41.13
Tractor (120-139hp)CB	MFWD 130	85,232	600	8	6.69	9.60	14.72	2.66	26.98	17.58	44.56
Tractor (140-159hp)CB	2WD 150	81,519	600	8	7.72	9.60	16.98	2.54	29.13	16.81	45.94
Tractor (140-159hp)CB	MFWD 150	92,551	600	8	7.72	9.60	16.98	2.89	29.47	19.08	48.56
Tractor (160-179hp)CB	2WD 170	89,600	600	8	8.75	9.60	19.25	2.80	31.65	19.22	50.87
Tractor (160-179hp)CB	MFWD 170	104,216	600	8	8.75	9.60	19.25	3.25	32.10	22.36	54.46
Tractor (180-199hp)CB	2WD 190	102,730	600	8	9.77	9.60	21.51	3.21	34.32	22.04	56.36
Tractor (180-199hp)CB	MFWD 190	114,782	600	8	9.77	9.60	21.51	3.58	34.70	24.62	59.33
Tractor (200-249hp)CB	4WD 225	133,279	600	8	11.58	9.60	25.47	4.16	39.24	28.59	67.84
Tractor (200-249hp)CB	MFWD 225	131,516	600	8	11.58	9.60	25.47	4.10	39.18	28.21	67.40
Tractor (250-349hp)CB	4WD 300	150,010	600	8	15.44	9.60	33.97	4.68	48.25	32.18	80.44
Tractor (350-449hp)CB	4WD 400	183,875	600	8	20.58	9.60	45.29	5.74	60.64	39.45	100.09

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 2006 and direct and fixed cost per acre

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-----					
Pickup Truck	1/2 ton	25,000	800	5	2.50	1.000	9.60	6.00	2.81	18.41	6.94	25.36
1 Row Billet Harv	6 ft	238,000	750	10	9.00	0.598	10.07	11.85	19.00	40.93	24.61	65.54
Wholestalk Harv 1Rw	6 ft	115,000	400	12	6.80	0.875	14.72	13.09	20.96	48.77	29.21	77.99
Wholestalk Harv 2Rw	12 ft	210,000	400	12	8.00	0.388	6.53	6.82	16.97	30.33	23.65	53.98
Cane Loader 1Rw	6 ft	60,000	425	10	5.10	0.598	6.32	6.71	6.17	19.21	11.07	30.28
Cane Loader 2Rw	12 ft	112,000	425	10	7.00	0.300	3.17	4.62	5.77	13.57	10.36	23.94
Cane Transloader		30,000	120	12	4.70	0.250	2.64	2.58	3.75	8.97	7.25	16.23
Truck&Trailer	30 Ton	45,000	400	10	7.00	1.000	10.56	15.40	7.87	33.83	14.73	48.57
Sprayer (300-450Gal)	60'	72,164	350	8	5.66	0.017	0.23	0.21	0.06	0.51	0.48	1.00
Sprayer (300-450Gal)	80'	74,398	350	8	5.66	0.013	0.17	0.16	0.05	0.38	0.37	0.76

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 2006

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.15	2.04	1.43	0.34	4.99	0.52	2.29	7.81
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.15	2.03	0.68	0.34	4.22	0.88	2.29	7.40
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.15	2.03	0.58	0.34	4.12	0.74	2.29	7.16
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.15	2.03	0.69	0.34	4.22	0.90	2.29	7.42
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.15	2.03	0.46	0.34	4.00	0.61	2.29	6.91
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.15	2.58	1.11	0.43	5.27	1.43	2.95	9.67
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	8.42	14.89	2.55	2.53	28.41	2.56	16.74	47.73
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.15	2.03	0.25	0.34	3.79	0.30	2.29	6.38
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.43	1.78	0.24	0.24	3.71	0.43	1.63	5.79
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	9.60	16.98	8.43	2.89	37.91	19.67	19.08	76.67
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	6.43	11.38	3.68	1.93	23.43	8.59	12.79	44.81
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	1.92	1.13	5.10	0.11	8.26	11.89	0.77	20.93
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	6.43	11.38	3.68	1.93	23.43	8.59	12.79	44.81
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	5.28	9.34	0.62	1.59	16.83	0.95	9.54	27.33
SC Cane Wgn Billt HD	10Ton	MFWD 150	30,000	400	9	0.500	5.28	9.34	6.25	1.59	22.46	5.12	9.54	37.13
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.10	4.72	0.96	0.78	8.59	1.26	5.41	15.27
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.15	2.58	0.49	0.43	4.65	1.38	2.95	8.99
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.05	1.30	0.29	0.18	2.84	0.51	1.19	4.55
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.05	2.11	0.39	0.30	3.87	0.59	2.11	6.58
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.34	2.37	0.32	0.35	4.41	0.49	2.35	7.25
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.43	0.84	0.56	0.08	2.93	0.83	0.57	4.35
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	0.96	2.15	0.77	0.35	4.24	1.14	2.46	7.84
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.67	1.34	0.64	0.19	2.86	0.96	1.34	5.16
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	0.96	1.92	0.40	0.28	3.57	0.60	1.92	6.10
SC Drain Cleaner	6 ft	MFWD 75	3,750	300	9	0.080	0.76	0.67	0.13	0.08	1.66	0.14	0.57	2.38
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.24	2.20	0.36	0.37	4.19	0.59	2.48	7.27
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.57	1.01	0.22	0.17	1.99	0.34	1.14	3.48
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	1.82	3.22	0.47	0.54	6.07	0.50	3.62	10.20
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	9.60	25.47	0.13	4.16	39.37	0.20	28.59	68.17
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	2.88	5.10	0.66	0.86	9.51	1.52	5.73	16.76
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.40	4.24	3.12	0.72	10.49	4.09	4.77	19.36
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.76	1.17	0.41	0.17	2.53	0.55	1.16	4.25
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.40	2.12	0.51	0.27	5.30	1.52	1.80	8.64
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.10	4.72	3.51	0.78	11.14	3.83	5.41	20.39
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	9.60	11.89	0.86	1.65	24.00	3.55	10.90	38.46
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.05	1.30	0.04	0.18	2.59	0.06	1.19	3.85
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	9.60	14.72	0.23	2.21	26.76	1.01	14.59	42.37

Appendix Table 5. Operating inputs: estimated prices, Louisiana 2006

ITEM NAME	UNIT	PRICE	ITEM	UNIT	PRICE	
		dollars				dollars
ADJUVANTS						
Crop Oil (Seed Oil)	pt	1.68	Atrazine 90DF	lb	2.37	
Crop Oil (Petroleum)	pt	0.77	Basagran	pt	10.03	
Surfactant	pt	1.57	Command 3ME	pt	11.23	
CUSTOM FERT/LIME						
App Fert by Air	cwt	5.00	Direx 4L	pt	2.23	
App Fert by Air (Min)	appl	5.00	Direx 80 DF	lb	3.94	
Custom Spread (Truc)	appl	4.50	Gramoxone Max	pt	4.65	
Lime (Spread)	ton	26.00	Karmex DF	lb	4.20	
CUSTOM SPRAY						
App by Air (2 gal)	appl	2.80	LA Asulox	gal	47.75	
App by Air (3 gal)	appl	3.25	LA Weedmaster	gal	24.79	
App by Air (5 gal)	appl	4.50	Prowl 3.3 EC	pt	2.63	
App by Air (10 gal)	appl	6.00	Roundup Original	pt	3.16	
FERTILIZERS						
Amm Nitrate (34% N)	cwt	13.00	Roundup Original Max	pt	3.77	
Amm Sulfate (21% N)	cwt	11.00	Roundup Ultra MAX	pt	5.87	
Fert 10-34-0	cwt	15.00	Roundup WeatherMax	oz	0.41	
Fert 41-0-0-4	cwt	19.00	Sencor 4F	pt	12.95	
LA Nitrogen	lb	0.40	Sencor DF	lb	20.68	
LA Phosphate	lb	0.30	Treflan HFP	pt	2.87	
LA Potash	lb	0.21	INSECTICIDES			
Phosphorus (46% P2O5)	cwt	14.00	Asana .66 XL	oz	0.71	
Potash (60% K2O)	cwt	13.00	Baythroid 2	oz	2.70	
UAN (32% N)	cwt	11.00	Confirm 2F	oz	1.50	
Urea, Solid (46% N)	cwt	17.00	Fury 1.5 EC	oz	1.30	
HERBICIDES						
2,4-D Amine 4	pt	1.59	Karate Z	oz	3.02	
Atrazine 4L	pt	1.29	Mustang Max	oz	1.60	
			Thimet 20-G	lb	2.50	
RIPENER						
			Polado	oz	0.38	
SEED CANE						
			Cultured seedcane	acre	484.00	