

January 2001

A.E.A. Information Series No. 192

PROJECTED COSTS AND RETURNS - SUGARCANE LOUISIANA, 2001

by

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ACKNOWLEDGMENTS

Many persons played a major role in making this report possible. The authors wish to acknowledge the assistance and advice of cooperating producers, who provided the basic information on production practices, as well as farm suppliers and agribusiness firms for supplying price information. Annual projections of commodity costs and returns are a joint effort of the Department of Agricultural Economics and Agribusiness Farm Management Committee. The authors would like to especially thank the Farm Management Committee for their assistance in preparing these estimates and Dr. Gail Cramer, Department Head, for his review and support in the preparation of this report.

Projected sugarcane costs and returns included in this report, along with all projected 2001 crop and livestock costs and returns budgets published by the Department of Agricultural Economics and Agribusiness, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, are available electronically on the Internet from the Department of Agricultural Economics and Agribusiness home page. The address is: <http://www.agecon.lsu.edu>.

PROJECTED COSTS AND RETURNS -- SUGARCANE, LOUISIANA, 2001

by

Janis Breaux and Michael E. Salassi¹

INTRODUCTION

This report presents estimates of costs and returns associated with sugarcane production practices in Louisiana for 2001. 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.

This report presents 2001 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-7). Fertilizer and chemical rates were based on recommendations of the Louisiana Cooperative Extension

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Service.^{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. One set of harvest budgets (Tables 14 and 16) 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. Another set of harvest budgets are included (Tables 15 and 17) in which cane is assumed to be transloaded from field wagons to custom trucks and trailers for transport to the mill. Under this scenario, the hauling rebate from the mill would be paid to the trucker.

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

² Funderburg, Eddie R. and Faw, Wade F. Sugarcane Fertilization, Louisiana Cooperative Extension Service Publication 2473, March 1994, Louisiana State University Agricultural Center, Baton Rouge, LA.

³ Louisiana Cooperative Extension Service, Suggested Chemical Weed Control Guide for 1996, pp 60-68. Louisiana State University Agricultural Center, Baton Rouge, LA.

⁴ Sugar mills normally retain 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.

distribution associated with a 4-year sugarcane rotation and approximates the projected average yield levels in 2001 for established producers. Sugarcane land under a standard rotation is 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.

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 in 1998 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 2000 from farm suppliers throughout the sugarcane producing area to provide a basis for estimating projected 2001 budgets. Machinery price data were obtained from machinery dealers in 1998. 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 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 a limited sample of machinery dealers in November 1998. In addition, these data were supplemented with data from a recent issue of Official Guide, Tractors and Farm Equipment.⁵ 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 1998. 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 2001. 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 farm labor was charged at \$7.50 per hour and harvest machinery operator labor was charged at \$12.00 per hour. 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. The wage rate includes Social Security contributions and worker's compensation paid by the employer. Part-time labor hired at planting time was charged at \$7.50 per hour. 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 10 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 \$1.17 per gallon and regular gasoline at \$1.43 per gallon. Variable costs for operating tractors and self-propelled machines include fuel, lubrication and repairs. Variable costs for machinery items include lubrication and repairs. The "sequence of operations" tables for each

⁵ Official Guide Tractors and Farm Equipment. St. Louis: National Farm and Power Services, Inc., Fall 1993.

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 December 2000, 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 2001 loan level for raw sugar is \$0.18 per pound with a projected market price of raw sugar in the \$0.19 per pound range. Return estimates in this report are computed using a \$0.19 per pound raw sugar market price and a selling price for molasses of \$0.32 per gallon.

Overhead Costs

Overhead costs reflect expenses that are significant costs associated with the operation of the entire farm business but are not necessarily specific to any particular enterprise. Examples of farm overhead costs include tax services, record keeping, utilities, maintenance of farmstead and insurance. Overhead cost projections presented in this report are based on a study of overhead costs conducted by the Department of Agricultural Economics and Agribusiness and modified by Zapata and Shuker to reflect the unique situations found on sugarcane farms.^{6, 7} Input prices used in estimating overhead costs are updated annually.

Projected per acre overhead cost budgets for tenant farms of 500 or more acres are presented in Table 18. Several specific overhead expenditure items have been grouped into general overhead cost categories. For example, accounting supplies and services also include charges for tax services and bank service charges. Insurance estimates include charges for machinery, crop storage and farmstead insurance. Other overhead includes charges for legal fees, farm organization membership dues, magazine subscriptions, marketing services and computer services.

⁶ Donald C. Huffman and Brian E. McManus. Overhead Costs and Labor on Louisiana Farms, 1982. D.A.E. Research Report No. 599, Department of Agricultural Economics and Agribusiness, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, Baton Rouge, Louisiana.

⁷ Hector O. Zapata, unpublished M.S. Thesis, Department of Agricultural Economics and Agribusiness, Louisiana State University, 1983, and Iain G. W. Shuker, unpublished M.S. Thesis, Department of Agricultural Economics and Agribusiness, Louisiana State University, 1985.

Farm overhead operating costs include tractor and machinery fuel, lubrication and repair costs associated with farmstead maintenance, mowing turn rows, drainage, and road maintenance. In addition, machinery fuel, lubrication, and repair estimates include respective costs for the operation of a farm shop and general use of a pickup truck. Overhead labor items were grouped into two categories, tractor and machinery labor and other labor. Other labor consists of time spent managing the farm (including time spent for record keeping) and non-machinery time spent for farmstead and drainage system maintenance.

Projected enterprise budgets for sugarcane production included in this report incorporate the variable and fixed cost overhead components as a single lump sum, as shown in Table 18 and Appendix A. 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, 2001

Item	Dollars Per Acre	Number of Acres	Total Dollar Value	Per Acre Dollar Value 5/	Per Pound of Sugar Value 6/
	(\$/acre)	(acres)	(\$)	(\$/acre)	(\$/lb)
GROSS VALUE OF PRODUCTION: 1/					
Sugar: (\$0.19/lb)					
Plantcane (8,000 lbs/acre)	1,520.00	201.6	306,432		
1st stubble (8,400 lbs/acre)	1,596.00	250.0	399,000		
2nd stubble (7,600 lbs/acre)	1,444.00	250.0	361,000		
Total sugar			1,066,432	1,066.43	0.190
Mlasses: (\$0.32/gal, 162,771 gallons)	--	--	52,087		
TOTAL GROSS VALUE			1,118,519	1,118.52	0.199
MILL CHARGE (Payment in kind):					
Sugar (3%)	--	--	415,908		
Mlasses	--	--	30,927		
Total mill charge			446,835	446.84	0.080
NET RETURNS TO LAND AND PRODUCER			671,684	671.68	0.120
LAND RENT (Payment in kind):					
Sugar (20% after mill charge)	--	--	130,105		
Mlasses(20% after mill charge)	--	--	4,232		
Total land charge			134,337	134.34	0.024
PRODUCER INCOME					
Sugar and Mlasses	--	--	537,347	537.35	0.096
ASCL Check Off (\$0.10 /ton)	--	--	(2,806)		
Total Income			534,541	534.54	0.095
PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	231.61	250.0	57,903		
Cultured Seed Cane	499.75	8.1	4,028		
Hand Planting	250.78	8.1	2,021		
Propagated Seedcane	73.91	48.4	3,577		
Mechanical Planting	162.01	242.0	39,206		
Plant Cane Field Operations	241.17	250.0	60,293		
1st Stubble Field Operations	284.33	250.0	71,083		
2nd Stubble Field Operations	297.46	250.0	74,365		
Harvest for Sugar 4/	149.41	701.6	104,826		
Total specified expenses			417,301	417.30	0.074
RETURNS ABOVE TOTAL SPECIFIED EXPENSES			117,239	117.24	0.021
OVERHEAD EXPENSES	65.81	1000.0	65,810	65.81	0.012
NET RETURNS TO MANAGEMENT AND RISK			51,429	51.43	0.009

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 19.0 cents per pound and molasses at 32.0 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 cost associated with the specified operations including cost of inputs, labor, fuel, repairs, fixed expenses, and interest on operating capital.

4/ Harvest costs are estimated assuming 100% of sugarcane is harvested with a combine harvester.

5/ Per acre dollar value is calculated by dividing total dollar value by total farm acreage.

6/ Per pound of sugar value is calculated by dividing total dollar value by total sugar production over 1000 farm acres (5,612,800 pounds of sugar from 28,064 tons of cane).

Table 1B. Expected Sugar Yield per Rotational Acre of Sugarcane, 4-Year Rotation, Harvest through 2nd stubble, Tenant-Operator, Louisiana, 2001.

Land Use (%)	Plantcane	Sugar yield		Rotational Acre
		1st stubble	2nd stubble	
Sugar Yield per Acre Harvested for Sugar				
	8000	8400	7600	
Sugar Yield per Rotational Acre 1/:				
Plantcane	25.00%	2000	--	--
Plantcane used for seed 2/	4.84%	387	--	--
1st Stubble	25.00%	--	2100	--
2nd Stubble	25.00%	--	--	1900
Fallow/plant	25.00%	--	--	--
Total Raw Sugar per Rotational Acre		1613	2100	1900
Mill/Landlord Share:				
Mill share	39%	629	819	741
Landlord share 3/	12.2%	197	256	232
Grower's Share:				
Tenant 4/	48.8%	787	1025	927

- 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, 2001

	Selected Yield Levels				
	-20%	-10%	Base	+10%	+20%
Cane yield per harvested acre (tons) 1/	32.0	35.6	40.0	44.0	48.0
Sugar yield per harvested acre (lbs) 2/	6400	7120	8000	8800	9600
Sugar yield per rotational acre (lbs) 3/	4490	4995	5613	6174	6735
ONE-FIFTH LAND SHARE RENT					
Share of production per rotational acre:	pounds of sugar per rotational acre				
Mill share (39%)	1751	1948	2189	2408	2627
Landlord share (12.2%)	548	609	685	753	822
Grower share (48.8%)	2191	2438	2739	3013	3287
Breakeven price to recover: 4/					
	dollars per pound of sugar				
Direct costs	0.140	0.127	0.117	0.108	0.101
Total specified costs	0.183	0.165	0.151	0.140	0.130
Total costs plus overhead	0.213	0.192	0.175	0.161	0.150
ONE-SIXTH LAND SHARE RENT:					
Share of production per rotational acre:	pounds of sugar per rotational acre				
Mill share (39%)	1751	1948	2189	2408	2627
Landlord share (10.2%)	458	510	573	630	687
Grower share (50.8%)	2281	2538	2851	3136	3422
Breakeven price to recover: 4/					
	dollars per pound of sugar				
Direct costs	0.134	0.122	0.112	0.104	0.097
Total specified costs	0.176	0.159	0.145	0.134	0.125
Total costs plus overhead	0.204	0.184	0.168	0.155	0.144

- 1/ Average farmyield 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 into direct costs, total specified costs, and total specified costs plus overhead. No adjustment is made for molasses payments, hauling rebate, or other adjustments.

Table 2A. Projected Costs and Returns on 1000 Acres of Sugarcane, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operator, Louisiana, 2001.

Item	Dollars Per Acre	Number of Acres	Total Dollar Value	Per Acre Dollar Value 5/	Per Pound of Sugar Value 6/
	(\$/acre)	(acres)	(\$)	(\$/acre)	(\$/lb)
GROSS VALUE OF PRODUCTION: 1/					
Sugar: (\$0.19/lb)					
Plantcane (8,000 lbs/acre)	1,520.00	161.3	245,176		
1st stubble (8,400 lbs/acre)	1,596.00	200.0	319,200		
2nd stubble (7,600 lbs/acre)	1,444.00	200.0	288,800		
3rd stubble (7,000 lbs/acre)	1,330.00	200.0	266,000		
Total sugar			1,119,176	1,119.18	0.190
Molasses (\$0.32/gal, 170,822 gallons)	--	--	54,663		
TOTAL GROSS VALUE			1,173,839	1,173.84	0.199
MILL CHARGE (Payment in kind):					
Sugar (39%)	--	--	436,479		
Molasses	--	--	32,456		
Total mill charge			468,935	468.93	0.080
NET RETURNS TO LAND AND PRODUCER			704,904	704.90	0.120
LAND RENT (Payment in kind):					
Sugar (20% after mill charge)	--	--	136,539		
Molasses(20% after mill charge)	--	--	4,441		
Total land charge			140,981	140.98	0.024
PRODUCER INCOME					
Sugar and Molasses	--	--	563,923	563.92	0.096
ASCL Check Off (\$0.10 /ton)	--	--	(2,945)		
Total Income			560,978	560.98	0.095
PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	231.61	200.0	46,322		
Cultured Seed Cane	499.75	6.5	3,248		
Hand Planting	250.78	6.5	1,630		
Propagated Seedcane	73.91	38.7	2,860		
Mechanical Planting	162.01	193.5	31,349		
Plant Cane Field Operations	241.17	200.0	48,234		
1st Stubble Field Operations	284.33	200.0	56,866		
2nd Stubble Field Operations	297.46	200.0	59,492		
3rd Stubble Field Operations	297.46	200.0	59,492		
Harvest for Sugar 4/	149.41	761.3	113,746		
Total specified expenses			423,240	423.24	0.072
RETURNS ABOVE TOTAL SPECIFIED EXPENSES			137,739	137.74	0.023
OVERHEAD EXPENSES	65.81	1000.0	65,810	65.81	0.011
NET RETURNS TO MANAGEMENT AND RISK			71,929	71.93	0.012

- 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 19.0 cents per pound and molasses at 32.0 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 cost associated with the specified operations including cost of inputs, labor, fuel, repairs, fixed expenses, and interest on operating capital.
- 4/ Harvest costs are estimated assuming 100% of sugarcane is harvested with a combine harvester.
- 5/ Per acre dollar value is calculated by dividing total dollar value by total farm acreage.
- 6/ Per pound of sugar value is calculated by dividing total dollar value by total sugar production over 1000 farm acres (5,890,400 pounds of sugar from 29,452 tons of cane).

Table 2B. Expected Sugar Yield per Rotational Acre of Sugarcane, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operator, Louisiana, 2001.

Land Use (%)	Sugar yield					Rotational Acre
	Plantcane	1st stubble	2nd stubble	3rd stubble		
Sugar Yield per Acre Harvested for Sugar	8000	8400	7600	7000		
Sugar Yield per Rotational Acre 1/:						
Plantcane	20.00%	1600	--	--	--	
Plantcane used for seed 2/	3.87%	310	--	--	--	
1st Stubble	20.00%	--	1680	--	--	
2nd Stubble	20.00%	--	--	1520	--	
3rd Stubble	20.00%	--	--	--	1400	
Fallow/plant	20.00%	--	--	--	--	
Total Raw Sugar per Rotational Acre		1290	1680	1520	1400	5890
Mill/Landlord Share:						
Mill share	39%	503	655	593	546	2297
Landlord share 3/	12.2%	157	205	185	171	719
Grower's Share:						
Tenant 4/	48.8%	630	820	742	683	2875

- 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.
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 2C. Breakeven Selling Prices for Raw Sugar for Selected Yields and Rental Arrangements, 5-Year Rotation, Harvest through 3rd stubble, Tenant-Operators, Louisiana, 2001.

	Selected Yield Levels				
	-20%	-10%	Base	+10%	+20%
Cane yield per harvested acre (tons) 1/	31.0	34.4	38.7	42.6	46.4
Sugar yield per harvested acre (lbs) 2/	6192	6889	7740	8514	9288
Sugar yield per rotational acre (lbs) 3/	4712	5242	5890	6479	7068
ONE-FIFTH LAND SHARE RENT					
Share of production per rotational acre:	pounds of sugar per rotational acre				
Mill share (39%)	1838	2045	2297	2527	2757
Landlord share (12.2%)	575	640	719	790	862
Grower share (48.8%)	2300	2558	2875	3162	3449
Breakeven price to recover: 4/	dollars per pound of sugar				
Direct costs	0.136	0.123	0.114	0.106	0.099
Total specified costs	0.177	0.160	0.146	0.135	0.126
Total costs plus overhead	0.205	0.185	0.169	0.156	0.145
ONE-SIXTH LAND SHARE RENT:					
Share of production per rotational acre:	pounds of sugar per rotational acre				
Mill share (39%)	1838	2045	2297	2527	2757
Landlord share (10.2%)	481	535	601	661	721
Grower share (50.8%)	2394	2663	2992	3292	3591
Breakeven price to recover: 4/	dollars per pound of sugar				
Direct costs	0.130	0.118	0.109	0.101	0.095
Total specified costs	0.170	0.154	0.141	0.130	0.121
Total costs plus overhead	0.197	0.178	0.163	0.150	0.139

- 1/ Average farmyield 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 into direct costs, total specified costs, and total specified costs plus overhead. No adjustment is made for molasses payments, hauling rebate, or other adjustments.

Table 3A. Projected Costs and Returns on 1000 Acres of Sugarcane, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operator, Louisiana, 2001.

Item	Dollars Per Acre	Number of Acres	Total Dollar Value	Per Acre Dollar Value 5/	Per Pound of Sugar Value 6/
	(\$/acre)	(acres)	(\$)	(\$/acre)	(\$/lb)
GROSS VALUE OF PRODUCTION: 1/					
Sugar: (\$0.19/lb)					
Plantcane (8,000 lbs/acre)	1,520.00	134.4	204,349		
1st stubble (8,400 lbs/acre)	1,596.00	166.7	266,053		
2nd stubble (7,600 lbs/acre)	1,444.00	166.7	240,715		
3rd stubble (7,000 lbs/acre)	1,330.00	166.7	221,711		
4th stubble (6,400 lbs/acre)	1,216.00	166.7	202,707		
Total sugar			1,135,535	1,135.54	0.190
Mlasses (\$0.32/gal, 173,319 gallons)	--	--	55,462		
TOTAL GROSS VALUE			1,190,997	1,191.00	0.199
MILL CHARGE (Payment in kind):					
Sugar (39%)	--	--	442,859		
Mlasses	--	--	32,931		
Total mill charge			475,789	475.79	0.080
NET RETURNS TO LAND AND PRODUCER			715,208	715.21	0.120
LAND RENT (Payment in kind):					
Sugar (20% after mill charge)	--	--	138,535		
Mlasses(20% after mill charge)	--	--	4,506		
Total land charge			143,042	143.04	0.024
PRODUCER INCOME					
Sugar and Mlasses	--	--	572,166	572.17	0.096
ASCL Check Off (\$0.10 /ton)	--	--	(2,988)		
Total Income			569,178	569.18	0.095
PRODUCTION EXPENSES: 3/					
Fallow Field & Seedbed Preparation	231.61	166.7	38,609		
Cultured Seed Cane	499.75	5.4	2,699		
Hand Planting	250.78	5.4	1,354		
Propagated Seedcane	73.91	32.3	2,384		
Mechanical Planting	162.01	161.3	26,132		
Plant Cane Field Operations	241.17	166.7	40,203		
1st Stubble Field Operations	284.33	166.7	47,398		
2nd Stubble Field Operations	297.46	166.7	49,587		
3rd Stubble Field Operations	297.46	166.7	49,587		
4th Stubble Field Operations	297.46	166.7	49,587		
Harvest for Sugar 4/	149.41	801.2	119,713		
Total specified expenses			427,253	427.25	0.071
RETURNS ABOVE TOTAL SPECIFIED EXPENSES			141,925	141.93	0.024
OVERHEAD EXPENSES	65.81	1000.0	65,810	65.81	0.011
NET RETURNS TO MANAGEMENT AND RISK			76,115	76.12	0.013

- 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 19.0 cents per pound and mlasses at 32.0 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 cost associated with the specified operations including cost of inputs, labor, fuel, repairs, fixed expenses, and interest on operating capital.
- 4/ Harvest costs are estimated assuming 100% of sugarcane is harvested with a combine harvester.
- 5/ Per acre dollar value is calculated by dividing total dollar value by total farm acreage.
- 6/ Per pound of sugar value is calculated by dividing total dollar value by total sugar production over 1000 farm acres (5,954,920 pounds of sugar from 29,775 tons of cane).

Table 3B. Expected Sugar Yield per Rotational Acre of Sugarcane, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operator, Louisiana, 2001.

Land Use (%)	Sugar yield					Rotational Acre
	Plant cane	1st stubble	2nd stubble	3rd stubble	4th stubble	
Sugar Yield per Acre Harvested for Sugar	8000	8400	7600	7000	6400	
Sugar Yield per Rotational Acre 1/:						
Plantcane	16.67%	1336	--	--	--	--
Plantcane used for seed 2/	3.23%	258	--	--	--	--
1st Stubble	16.67%	--	1403	--	--	--
2nd Stubble	16.67%	--	--	1269	--	--
3rd Stubble	16.67%	--	--	--	1169	--
4th Stubble	16.67%	--	--	--	--	1069
Fallow/plant	16.67%	--	--	--	--	--
Total Raw Sugar per Rotational Acre		1078	1403	1269	1169	1069
Mill/Landlord Share:						
Mill share	39%	420	547	495	456	417
Landlord share 3/	12.2%	131	171	155	143	130
Grower's Share:						
Tenant 4/	48.8%	526	685	619	570	522

- 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.
 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 3C. Breakeven Selling Prices for Raw Sugar for Selected Yields and Rental Arrangements, 6-Year Rotation, Harvest through 4th stubble, Tenant-Operators, Louisiana, 2001.

	Selected Yield Levels				
	-20%	-10%	Base	+10%	+20%
Cane yield per harvested acre (tons) 1/	29.8	33.2	37.3	41.0	44.8
Sugar yield per harvested acre (lbs) 2/	5968	6639	7460	8206	8952
Sugar yield per rotational acre (lbs) 3/	4790	5329	5987	6586	7185
ONE-FIFTH LAND SHARE RENT					
Share of production per rotational acre:	-----pounds of sugar per rotational acre-----				
Mill share (39%)	1868	2078	2335	2569	2802
Landlord share (12.2%)	584	650	730	804	877
Grower share (48.8%)	2337	2600	2922	3214	3506
Breakeven price to recover: 4/	-----dollars per pound of sugar-----				
Direct costs	0.135	0.123	0.114	0.106	0.099
Total specified costs	0.176	0.159	0.146	0.135	0.126
Total costs plus overhead	0.204	0.184	0.168	0.155	0.145
ONE-SIXTH LAND SHARE RENT:					
Share of production per rotational acre:	-----pounds of sugar per rotational acre-----				
Mill share (39%)	1868	2078	2335	2569	2802
Landlord share (10.2%)	489	544	611	672	733
Grower share (50.8%)	2433	2707	3042	3346	3650
Breakeven price to recover: 4/	-----dollars per pound of sugar-----				
Direct costs	0.130	0.118	0.109	0.101	0.095
Total specified costs	0.169	0.153	0.140	0.130	0.121
Total costs plus overhead	0.196	0.177	0.162	0.149	0.139

- 1/ Average farmyield across harvested acreage of plantcane, 1st stubble, 2nd stubble, 3rd stubble, and 4th stubble.
 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 into direct costs, total specified costs, and total specified costs plus overhead. No adjustment is made for molasses payments, hauling rebate, or other adjustments.

Table 4.A Estimated costs per acre breaking stubble, fallow activities and seedbed preparation, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Crop Consultant	acre	6.00	1.0000	6.00	_____
HERBICIDES					
Roundup Ultra	gal.	37.46	1.0000	37.46	_____
OPERATOR LABOR					
Tractors	hour	7.50	3.5332	26.49	_____
OWNER LABOR					
Tractors	hour	12.00	0.4840	5.80	_____
DIESEL FUEL					
Tractors	gal	1.17	30.0861	35.20	_____
REPAIR & MAINTENANCE					
Implements	acre	14.97	1.0000	14.97	_____
Tractors	acre	29.68	1.0000	29.68	_____
INTEREST ON OP. CAP.	acre	7.45	1.0000	7.45	_____
TOTAL DIRECT EXPENSES				163.07	_____
FIXED EXPENSES					
Implements	acre	21.85	1.0000	21.85	_____
Tractors	acre	46.68	1.0000	46.68	_____
TOTAL FIXED EXPENSES				68.54	_____
TOTAL SPECIFIED EXPENSES				231.62	_____

Table 4.B Estimated resource use and costs per acre for field operations, breaking stubble, fallow activities and seedbed preparation, sugarcane, Louisiana 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk	20 ft	203 hp	0.100	1.00	Nov	2.35	1.84	0.77	1.14	0.121	0.90				7.02
Disk	20 ft	203 hp	0.100	1.50	Mar	3.53	2.76	1.15	1.71	0.181	1.36				10.53
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Mar	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Chisel Plow	13 ft	168 hp	0.220	1.00	Mar	4.78	3.41	0.96	1.26	0.266	1.99				12.42
Land Plane	15 ft	143 hp	0.300	2.00	Apr	11.48	8.27	1.32	3.04	0.726	5.44				29.56
Chisel Plow	13 ft	168 hp	0.220	1.00	Apr	4.78	3.41	0.96	1.26	0.266	1.99				12.42
Disk	20 ft	168 hp	0.100	1.00	Apr	2.17	1.55	0.77	1.14	0.121	0.90				6.55
Disk	20 ft	168 hp	0.100	1.00	Apr	2.17	1.55	0.77	1.14	0.121	0.90				6.55
3 Row (Marker)	18 ft	143 hp	0.150	1.00	May	2.87	2.06	0.58	0.93	0.181	1.36				7.81
3 Row (Hipper)	18	143 hp	0.150	2.00	May	5.74	4.13	1.71	2.22	0.363	2.72				16.53
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	May	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Subsoiler	3 shank	203 hp	0.300	0.50	May	3.53	2.76	0.35	0.53	0.181	1.36				8.54
Chisel Plow	23 ft	168 hp	0.120	0.50	May	1.30	0.93	0.24	0.69	0.072	0.54				3.71
3 Row (Hipper)	18	143 hp	0.150	2.00	May	5.74	4.13	1.71	2.22	0.363	2.72				16.53
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	May	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Boom Sprayer	30 ft	118 hp	0.060	1.00	Jun	1.00	0.72	0.13	0.15	0.072	0.54				2.56
Roundup Ultra	gal.											0.5000	37.46	18.73	18.73
3 Row Plow	18	168 hp	0.200	1.00	Jul	4.35	3.10	1.85	2.39	0.242	1.81				13.51
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Jul	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Boom Sprayer	30 ft	118 hp	0.060	1.00	Jul	1.00	0.72	0.13	0.15	0.072	0.54				2.56
Roundup Ultra	gal.											0.5000	37.46	18.73	18.73
3 Row (Hipper)	18	168 hp	0.150	1.00	Aug	3.26	2.32	0.85	1.11	0.181	1.36				8.91
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Aug	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Crop Consultant	acre			1.00	Sep							1.0000	6.00	6.00	6.00
TOTALS						64.88	46.68	14.97	21.85	4.017	32.30			43.46	224.16
INTEREST ON OPERATING CAPITAL															7.45
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															231.62

Table 5.A Estimated costs per acre, heat treatment of seed cane, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OTHER					
Heat Treat Labor	hr.	7.50	2.0000	15.00	_____
OWNER LABOR					
Tractors	hour	12.00	0.0193	0.23	_____
Self-Propelled Eq.	hour	12.00	0.2200	2.64	_____
DIESEL FUEL					
Tractors	gal	1.17	0.0739	0.08	_____
Self-Propelled Eq.	gal	1.17	1.4800	1.73	_____
REPAIR & MAINTENANCE					
Implements	acre	0.02	1.0000	0.02	_____
Tractors	acre	0.10	1.0000	0.10	_____
Self-Propelled Eq.	acre	5.71	1.0000	5.71	_____
INTEREST ON OP. CAP.	acre	2.55	1.0000	2.55	_____

TOTAL DIRECT EXPENSES				28.09	_____
FIXED EXPENSES					
Implements	acre	0.02	1.0000	0.02	_____
Tractors	acre	0.11	1.0000	0.11	_____
Self-Propelled Eq.	acre	7.79	1.0000	7.79	_____

TOTAL FIXED EXPENSES				7.94	_____

TOTAL SPECIFIED EXPENSES				36.03	_____

Table 5.B Estimated resource use and costs per acre for field operations, heat treatment of seed cane, sugarcane, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
2 Row Cane Harvester	12 ft		0.400	0.20	Sep			4.15	3.65	0.088	1.05				8.86
2 Row Cane Loader	12ft		0.300	0.20	Sep			1.64	2.07	0.066	0.79				4.50
Treating Charge	acre			1.00	Sep							1.0000			
Heat Treat Labor	hr.											2.0000	7.50	15.00	15.00
2 Row Cane Loader	12ft		0.300	0.20	Sep			1.64	2.07	0.066	0.79				4.50
Drain Cleaner	6 ft	68hp MDR	0.080	0.20	Sep	0.19	0.11	0.02	0.02	0.019	0.23				0.59
TOTALS						0.19	0.11	7.47	7.62	0.239	2.87			15.00	33.48
INTEREST ON OPERATING CAPITAL															2.55
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															36.03

Table 6.A Estimated costs per acre, cultured seed cane, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
SEED					
Cultured Seed Cane	acre	450.00	1.0000	450.00	_____
OWNER LABOR					
Self-Propelled Eq.	hour	12.00	0.0660	0.79	_____
DIESEL FUEL					
Self-Propelled Eq.	gal	1.17	0.4200	0.49	_____
REPAIR & MAINTENANCE					
Self-Propelled Eq.	acre	1.15	1.0000	1.15	_____
INTEREST ON OP. CAP.	acre	45.24	1.0000	45.24	_____

TOTAL DIRECT EXPENSES				497.68	_____
FIXED EXPENSES					
Self-Propelled Eq.	acre	2.07	1.0000	2.07	_____

TOTAL FIXED EXPENSES				2.07	_____

TOTAL SPECIFIED EXPENSES				499.75	_____

Table 6.B Estimated resource use and costs per acre for field operations, cultured seed cane, sugarcane, Louisiana 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT		TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE		COST
						-----dollars-----				dollars		-----dollars-----			
Cultured Seed Cane	acre			1.00	Sep							1.0000	450.00	450.00	450.00
2 Row Cane Loader	12ft		0.300	0.20	Sep			1.64	2.07	0.066	0.79				4.50
TOTALS						0.00	0.00	1.64	2.07	0.066	0.79			450.00	454.50
INTEREST ON OPERATING CAPITAL															45.24
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															499.75

Table 7.A Estimated costs per acre for harvesting propagated seed cane, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OWNER LABOR					
Tractors	hour	12.00	0.0968	1.16	_____
Self-Propelled Eq.	hour	12.00	0.7700	9.24	_____
DIESEL FUEL					
Tractors	gal	1.17	0.3696	0.43	_____
Self-Propelled Eq.	gal	1.17	5.3000	6.20	_____
REPAIR & MAINTENANCE					
Implements	acre	0.13	1.0000	0.13	_____
Tractors	acre	0.52	1.0000	0.52	_____
Self-Propelled Eq.	acre	22.81	1.0000	22.81	_____
INTEREST ON OP. CAP.	acre	4.05	1.0000	4.05	_____
TOTAL DIRECT EXPENSES				44.55	_____
FIXED EXPENSES					
Implements	acre	0.14	1.0000	0.14	_____
Tractors	acre	0.59	1.0000	0.59	_____
Self-Propelled Eq.	acre	28.62	1.0000	28.62	_____
TOTAL FIXED EXPENSES				29.36	_____
TOTAL SPECIFIED EXPENSES				73.91	_____

Table 7.B Estimated resource use and costs per acre for field operations, harvesting propagated seed cane, sugarcane, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	
						-----dollars-----				dollars		-----dollars-----		
2 Row Cane Harvester	12 ft		0.400	1.00	Sep			20.78	18.27	0.440	5.28			44.33
2 Row Cane Loader	12ft		0.300	1.00	Sep			8.22	10.35	0.330	3.96			22.54
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.95	0.59	0.13	0.14	0.096	1.16			2.98
TOTALS						0.95	0.59	29.14	28.76	0.866	10.40		0.00	69.86
INTEREST ON OPERATING CAPITAL														4.05
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														73.91

Table 8.A Estimated costs per acre, hand planting, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sencor DF	lbs	18.32	0.2500	4.58	_____
Atrazine (4L)	gal.	10.29	0.5000	5.14	_____
OTHER					
Planting Labor	hr.	7.50	9.0000	67.50	_____
OPERATOR LABOR					
Tractors	hour	7.50	4.6706	35.02	_____
OWNER LABOR					
Tractors	hour	12.00	0.2904	3.48	_____
DIESEL FUEL					
Tractors	gal	1.17	26.1228	30.56	_____
REPAIR & MAINTENANCE					
Implements	acre	8.49	1.0000	8.49	_____
Tractors	acre	26.38	1.0000	26.38	_____
INTEREST ON OP. CAP.	acre	18.05	1.0000	18.05	_____
TOTAL DIRECT EXPENSES				199.23	_____
FIXED EXPENSES					
Implements	acre	12.96	1.0000	12.96	_____
Tractors	acre	38.58	1.0000	38.58	_____
TOTAL FIXED EXPENSES				51.55	_____
TOTAL SPECIFIED EXPENSES				250.79	_____

Table 8.B Estimated resource use and costs per acre for field operations, hand planting, sugarcane, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT		TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE		COST
						-----dollars-----				dollars		-----dollars-----			
Rototiller	18 ft	168 hp	0.220	0.50	Sep	2.39	1.70	1.76	1.92	0.133	0.99			8.77	
3 Row (Opener)	18 ft	143 hp	0.150	1.00	Sep	2.87	2.06	0.58	0.76	0.181	1.36			7.65	
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.95	0.59	0.13	0.14	0.096	1.16			2.98	
Planters Aid	6 ft	93 hp	3.000	1.00	Sep	38.66	25.85	3.33	6.57	3.630	27.22			101.64	
Planting Labor	hr.											9.0000	7.50	67.50	
Seed Cane	acre			1.00	Sep							1.0000		67.50	
3 Row (Cover)	18 ft	143 hp	0.200	1.00	Sep	3.82	2.75	0.95	1.51	0.242	1.81			10.87	
Flat Roller	18 ft	93 hp	0.190	1.00	Sep	2.44	1.63	0.47	0.50	0.229	1.72			6.78	
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.95	0.59	0.13	0.14	0.096	1.16			2.98	
Boom Sprayer	30 ft	118 hp	0.060	1.00	Sep	1.00	0.72	0.13	0.15	0.072	0.54			2.56	
Sencor DF	lbs											0.2500	18.32	4.58	
Atrazine (4L)	gal.											0.5000	10.29	5.14	
3 Row (Hipper)	18	143 hp	0.150	1.00	Oct	2.87	2.06	0.85	1.11	0.181	1.36			8.26	
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Oct	0.95	0.59	0.13	0.14	0.096	1.16			2.98	
TOTALS						56.94	38.58	8.49	12.96	4.961	38.51			77.22	232.73
INTEREST ON OPERATING CAPITAL															18.05
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															250.79

Table 9.A Estimated costs per acre, mechanical planting, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Treflan	gal.	25.53	0.2500	6.38	_____
Atrazine (4L)	gal.	10.29	0.5000	5.14	_____
OTHER					
Planting Labor	hr.	7.50	2.0000	15.00	_____
OPERATOR LABOR					
Tractors	hour	7.50	2.5107	18.83	_____
OWNER LABOR					
Tractors	hour	12.00	0.2904	3.48	_____
DIESEL FUEL					
Tractors	gal	1.17	18.7126	21.89	_____
REPAIR & MAINTENANCE					
Implements	acre	13.34	1.0000	13.34	_____
Tractors	acre	18.76	1.0000	18.76	_____
INTEREST ON OP. CAP.	acre	10.10	1.0000	10.10	_____
TOTAL DIRECT EXPENSES				112.94	_____
FIXED EXPENSES					
Implements	acre	20.31	1.0000	20.31	_____
Tractors	acre	28.76	1.0000	28.76	_____
TOTAL FIXED EXPENSES				49.07	_____
TOTAL SPECIFIED EXPENSES				162.02	_____

Table 9.B Estimated resource use and costs per acre for field operations, mechanical planting, sugarcane, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT		TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE		COST
						-----dollars-----				dollars		-----dollars-----			
Rototiller	18 ft	168 hp	0.220	0.50	Sep	2.39	1.70	1.76	1.92	0.133	0.99			8.77	
3 Row (Hipper)	18	143 hp	0.150	0.50	Sep	1.43	1.03	0.42	0.55	0.090	0.68			4.13	
3 Row (Opener)	18 ft	143 hp	0.150	1.00	Sep	2.87	2.06	0.58	0.76	0.181	1.36			7.65	
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.95	0.59	0.13	0.14	0.096	1.16			2.98	
Mech. Planter	6 ft	143 hp	1.000	1.00	Sep	19.13	13.78	7.26	12.69	1.210	9.07			61.95	
Seed Cane	acre			1.00	Sep										
Planting Labor	hr.			1.00	Sep							2.0000	7.50	15.00	
3 Row (Cover)	18 ft	143 hp	0.200	1.00	Sep	3.82	2.75	0.95	1.51	0.242	1.81			10.87	
Flat Roller	18 ft	93 hp	0.190	1.00	Sep	2.44	1.63	0.47	0.50	0.229	1.72			6.78	
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.95	0.59	0.13	0.14	0.096	1.16			2.98	
Sprayer/Lilliston	20 ft	93 hp	0.140	1.00	Sep	1.80	1.20	0.48	0.66	0.169	1.27			5.43	
Treflan	gal.											0.2500	25.53	6.38	
Boom Sprayer	30 ft	118 hp	0.060	1.00	Oct	1.00	0.72	0.13	0.15	0.072	0.54			2.56	
Atrazine (4L)	gal.											0.5000	10.29	5.14	
3 Row (Hipper)	18	143 hp	0.150	1.00	Nov	2.87	2.06	0.85	1.11	0.181	1.36			8.26	
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Nov	0.95	0.59	0.13	0.14	0.096	1.16			2.98	
TOTALS						40.65	28.76	13.34	20.31	2.801	22.31			26.52	151.92
INTEREST ON OPERATING CAPITAL															10.10
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															162.02

Table 10.A Estimated costs per acre, succession planting, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Sulphur	lbs.	0.17	15.0000	2.61	_____
Phosphate	lbs.	0.19	45.0000	8.55	_____
Potash	lbs.	0.15	45.0000	6.75	_____
HERBICIDES					
Treflan	gal.	25.53	0.2500	6.38	_____
Atrazine (4L)	gal.	10.29	0.2500	2.57	_____
OTHER					
Planting Labor	hr.	7.50	2.0000	15.00	_____
OPERATOR LABOR					
Tractors	hour	7.50	3.3154	24.86	_____
OWNER LABOR					
Tractors	hour	12.00	0.2904	3.48	_____
DIESEL FUEL					
Tractors	gal	1.17	24.9645	29.20	_____
REPAIR & MAINTENANCE					
Implements	acre	17.22	1.0000	17.22	_____
Tractors	acre	24.59	1.0000	24.59	_____
INTEREST ON OP. CAP.	acre	2.10	1.0000	2.10	_____

TOTAL DIRECT EXPENSES				143.34	_____
FIXED EXPENSES					
Implements	acre	26.49	1.0000	26.49	_____
Tractors	acre	38.12	1.0000	38.12	_____

TOTAL FIXED EXPENSES				64.61	_____

TOTAL SPECIFIED EXPENSES				207.95	_____

Table 10.B Estimated resource use and costs per acre for field operations, succession planting, sugarcane, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT		TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE		COST
						-----dollars-----				dollars		-----dollars-----			
3 Row Plow	18	168 hp	0.200	2.00	Sep	8.70	6.20	3.70	4.79	0.484	3.63			27.03	
Chisel Plow	23 ft	168 hp	0.120	1.00	Sep	2.61	1.86	0.49	1.38	0.145	1.08			7.43	
3 Row (Hipper)	18	143 hp	0.150	2.00	Sep	5.74	4.13	1.71	2.22	0.363	2.72			16.53	
3 Row (Opener)	18 ft	118 hp	0.150	1.00	Sep	2.51	1.80	0.58	0.76	0.181	1.36			7.03	
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.95	0.59	0.13	0.14	0.096	1.16			2.98	
Fert Dry Sling App	42 ft	93 hp	0.060	1.00	Sep	0.77	0.51	0.22	0.34	0.072	0.54			2.40	
Sulphur	lbs.											15.0000	0.17	2.61	
Phosphate	lbs.											45.0000	0.19	8.55	
Potash	lbs.											45.0000	0.15	6.75	
Seed Cane	acre			1.00	Sep							1.0000			
Mech. Planter	6 ft	143 hp	1.000	1.00	Sep	19.13	13.78	7.26	12.69	1.210	9.07			61.95	
Planting Labor	hr.											2.0000	7.50	15.00	
3 Row (Cover)	18 ft	143 hp	0.200	1.00	Sep	3.82	2.75	0.95	1.51	0.242	1.81			10.87	
Flat Roller	18 ft	93 hp	0.190	1.00	Sep	2.44	1.63	0.47	0.50	0.229	1.72			6.78	
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.95	0.59	0.13	0.14	0.096	1.16			2.98	
Sprayer/Lilliston	20 ft	93 hp	0.140	1.00	Sep	1.80	1.20	0.48	0.66	0.169	1.27			5.43	
Treflan	gal.											0.2500	25.53	6.38	
Boom Sprayer	30 ft	118 hp	0.060	0.50	Oct	0.50	0.36	0.06	0.07	0.036	0.27			1.28	
Atrazine (4L)	gal.											0.2500	10.29	2.57	
3 Row (Hipper)	18	143 hp	0.150	1.00	Nov	2.87	2.06	0.85	1.11	0.181	1.36			8.26	
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Nov	0.95	0.59	0.13	0.14	0.096	1.16			2.98	
TOTALS						53.79	38.12	17.22	26.49	3.605	28.35			41.86	205.85
INTEREST ON OPERATING CAPITAL														2.10	
UNALLOCATED LABOR														0.00	
TOTAL SPECIFIED COST														207.95	

Table 11.A Estimated costs per acre, plant cane, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Airplane Lo-Vol	acre	3.50	1.5000	5.25	_____
Crop Consultant	acre	6.00	1.0000	6.00	_____
FERTILIZER					
Phosphate	lbs.	0.19	50.0000	9.50	_____
Potash	lbs.	0.15	130.0000	19.50	_____
Sulphur	lbs.	0.17	24.0000	4.17	_____
Nitrogen	lbs.	0.25	120.0000	30.00	_____
HERBICIDES					
Sencor DF	lbs	18.32	1.2500	22.90	_____
Weedmaster	gal.	25.75	0.3750	9.65	_____
Surfactant	gal.	10.06	0.4950	4.97	_____
Asulox 3.3	gal.	50.71	0.1250	6.33	_____
Prowl	gal.	20.82	0.5000	10.41	_____
INSECTICIDES					
Confirm	oz.	1.25	10.5000	13.12	_____
OPERATOR LABOR					
Tractors	hour	7.50	1.5609	11.70	_____
OWNER LABOR					
Tractors	hour	12.00	0.4840	5.80	_____
DIESEL FUEL					
Tractors	gal	1.17	13.1274	15.35	_____
REPAIR & MAINTENANCE					
Implements	acre	6.54	1.0000	6.54	_____
Tractors	acre	14.89	1.0000	14.89	_____
INTEREST ON OP. CAP.	acre	14.34	1.0000	14.34	_____
TOTAL DIRECT EXPENSES				210.49	_____
FIXED EXPENSES					
Implements	acre	9.14	1.0000	9.14	_____
Tractors	acre	21.54	1.0000	21.54	_____
TOTAL FIXED EXPENSES				30.68	_____
TOTAL SPECIFIED EXPENSES				241.17	_____

Table 11.B Estimated resource use and costs per acre for field operations, plant cane, sugarcane, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
3 Row (Offbar)	18 ft	143 hp	0.200	1.00	Feb	3.82	2.75	0.66	1.55	0.242	1.81				10.62
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Feb	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Boom Sprayer	30 ft	118 hp	0.060	1.00	Mar	1.00	0.72	0.13	0.15	0.072	0.54				2.56
Sencor DF	lbs											1.2500	18.32	22.90	22.90
Weedmaster	gal.											0.2500	25.75	6.43	6.43
Surfactant	gal.											0.3300	10.06	3.31	3.31
Fert Dry Sling App	42 ft	143 hp	0.060	1.00	Mar	1.14	0.82	0.22	0.34	0.072	0.54				3.08
Phosphate	lbs.											50.0000	0.19	9.50	9.50
Potash	lbs.											130.0000	0.15	19.50	19.50
Sulphur	lbs.											24.0000	0.17	4.17	4.17
3 Row (Hipper)	18	143 hp	0.150	2.00	Mar	5.74	4.13	1.71	2.22	0.363	2.72				16.53
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Mar	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Fert 3 Row Lq App	18 ft	143 hp	0.130	1.00	Apr	2.48	1.79	0.36	0.59	0.157	1.17				6.41
Nitrogen	lbs.											120.0000	0.25	30.00	30.00
3 Row (Hipper)	18	143 hp	0.150	1.00	Apr	2.87	2.06	0.85	1.11	0.181	1.36				8.26
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Apr	0.95	0.59	0.13	0.14	0.096	1.16				2.98
3 Row (Hipper)	18	130 hp	0.150	1.00	May	3.44	2.59	0.85	1.11	0.181	1.36				9.36
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	May	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Boom Sprayer	30 ft	118 hp	0.060	0.50	May	0.50	0.36	0.06	0.07	0.036	0.27				1.28
Asulox 3.3	gal.											0.1250	50.71	6.33	6.33
Surfactant	gal.											0.1650	10.06	1.65	1.65
3 Row (Hipper)	18	130 hp	0.150	1.00	Jun	3.44	2.59	0.85	1.11	0.181	1.36				9.36
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Jun	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Boom Sprayer	30 ft	118 hp	0.060	0.50	Jun	0.50	0.36	0.06	0.07	0.036	0.27				1.28
Prowl	gal.											0.2500	20.82	5.20	5.20
Weedmaster	gal.											0.1250	25.75	3.21	3.21
Boom Sprayer	30 ft	118 hp	0.060	0.50	Jun	0.50	0.36	0.06	0.07	0.036	0.27				1.28
Prowl	gal.											0.2500	20.82	5.20	5.20
Airplane Lo-Vol	acre			1.00	Jul							1.0000	3.50	3.50	3.50
Confirm	oz.											7.0000	1.25	8.75	8.75
Airplane Lo-Vol	acre			0.50	Jul							0.5000	3.50	1.75	1.75
Confirm	oz.											3.5000	1.25	4.37	4.37
Crop Consultant	acre			1.00	Aug							1.0000	6.00	6.00	6.00
TOTALS						30.25	21.54	6.54	9.14	2.044	17.51			141.83	226.83
INTEREST ON OPERATING CAPITAL															14.34
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															241.17

Table 12.A Estimated costs per acre, 1st stubble, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Airplane Lo-Vol	acre	3.50	2.0000	7.00	_____
Crop Consultant	acre	6.00	1.0000	6.00	_____
FERTILIZER					
Phosphate	lbs.	0.19	60.0000	11.40	_____
Potash	lbs.	0.15	140.0000	21.00	_____
Sulphur	lbs.	0.17	24.0000	4.17	_____
Nitrogen	lbs.	0.25	140.0000	35.00	_____
HERBICIDES					
Prowl	gal.	20.82	0.5000	10.41	_____
Weedmaster	gal.	25.75	0.7500	19.31	_____
Surfactant	gal.	10.06	0.6600	6.63	_____
Asulox 3.3	gal.	50.71	0.5000	25.35	_____
Atrazine (4L)	gal.	10.29	0.5000	5.14	_____
INSECTICIDES					
Confirm	oz.	1.25	10.5000	13.12	_____
RIPENER					
Polado	oz.	0.75	4.0000	3.01	_____
OPERATOR LABOR					
Tractors	hour	7.50	1.9602	14.70	_____
OWNER LABOR					
Tractors	hour	12.00	0.4840	5.80	_____
DIESEL FUEL					
Tractors	gal	1.17	16.0248	18.74	_____
REPAIR & MAINTENANCE					
Implements	acre	6.88	1.0000	6.88	_____
Tractors	acre	17.74	1.0000	17.74	_____
INTEREST ON OP. CAP.	acre	15.15	1.0000	15.15	_____

TOTAL DIRECT EXPENSES				246.62	_____
FIXED EXPENSES					
Implements	acre	11.67	1.0000	11.67	_____
Tractors	acre	26.04	1.0000	26.04	_____

TOTAL FIXED EXPENSES				37.71	_____

TOTAL SPECIFIED EXPENSES				284.33	_____

Table 12.B Estimated resource use and costs per acre for field operations, 1st stubble, sugarcane, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
3 Row (Offbar)	18 ft	143 hp	0.200	2.00	Feb	7.65	5.51	1.32	3.11	0.484	3.63					21.24
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Feb	0.95	0.59	0.13	0.14	0.096	1.16					2.98
Boom Sprayer	30 ft	118 hp	0.060	1.00	Feb	1.00	0.72	0.13	0.15	0.072	0.54					2.56
Prowl	gal.											0.5000	20.82	10.41		10.41
Weedmaster	gal.											0.5000	25.75	12.87		12.87
Surfactant	gal.											0.3300	10.06	3.31		3.31
Fert Dry Sling App	42 ft	143 hp	0.060	1.00	Mar	1.14	0.82	0.22	0.34	0.072	0.54					3.08
Phosphate	lbs.											60.0000	0.19	11.40		11.40
Potash	lbs.											140.0000	0.15	21.00		21.00
Sulphur	lbs.											24.0000	0.17	4.17		4.17
3 Row (Offbar)	18 ft	143 hp	0.200	2.00	Mar	7.65	5.51	1.32	3.11	0.484	3.63					21.24
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Mar	0.95	0.59	0.13	0.14	0.096	1.16					2.98
Fert 3 Row Lq App	18 ft	143 hp	0.130	1.00	Apr	2.48	1.79	0.36	0.59	0.157	1.17					6.41
Nitrogen	lbs.											140.0000	0.25	35.00		35.00
3 Row (Hipper)	18	143 hp	0.150	1.00	Apr	2.87	2.06	0.85	1.11	0.181	1.36					8.26
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Apr	0.95	0.59	0.13	0.14	0.096	1.16					2.98
Boom Sprayer	30 ft	118 hp	0.060	0.50	May	0.50	0.36	0.06	0.07	0.036	0.27					1.28
Asulox 3.3	gal.											0.2500	50.71	12.67		12.67
Surfactant	gal.											0.1650	10.06	1.65		1.65
3 Row (Hipper)	18	130 hp	0.150	1.00	May	3.44	2.59	0.85	1.11	0.181	1.36					9.36
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	May	0.95	0.59	0.13	0.14	0.096	1.16					2.98
Boom Sprayer	30 ft	118 hp	0.060	0.50	May	0.50	0.36	0.06	0.07	0.036	0.27					1.28
Asulox 3.3	gal.											0.2500	50.71	12.67		12.67
Surfactant	gal.											0.1650	10.06	1.65		1.65
3 Row (Hipper)	18	130 hp	0.150	1.00	Jun	3.44	2.59	0.85	1.11	0.181	1.36					9.36
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Jun	0.95	0.59	0.13	0.14	0.096	1.16					2.98
Boom Sprayer	30 ft	118 hp	0.060	1.00	Jun	1.00	0.72	0.13	0.15	0.072	0.54					2.56
Atrazine (4L)	gal.											0.5000	10.29	5.14		5.14
Weedmaster	gal.											0.2500	25.75	6.43		6.43
Airplane Lo-Vol	acre			1.00	Jun							1.0000	3.50	3.50		3.50
Confirm	oz.											7.0000	1.25	8.75		8.75
Airplane Lo-Vol	acre			0.50	Jul							0.5000	3.50	1.75		1.75
Confirm	oz.											3.5000	1.25	4.37		4.37
Airplane Lo-Vol	acre			0.50	Aug							0.5000	3.50	1.75		1.75
Polado	oz.											4.0000	0.75	3.01		3.01
Crop Consultant	acre			1.00	Sep							1.0000	6.00	6.00		6.00
TOTALS						36.49	26.04	6.88	11.67	2.444	20.50					167.57
INTEREST ON OPERATING CAPITAL																15.15
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																284.33

Table 13.A Estimated costs per acre, 2nd stubble and older, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Airplane Lo-Vol	acre	3.50	1.6000	5.60	_____
Crop Consultant	acre	6.00	1.0000	6.00	_____
FERTILIZER					
Phosphate	lbs.	0.19	60.0000	11.40	_____
Potash	lbs.	0.15	140.0000	21.00	_____
Sulphur	lbs.	0.17	24.0000	4.17	_____
Nitrogen	lbs.	0.25	160.0000	40.00	_____
HERBICIDES					
Prowl	gal.	20.82	0.5000	10.41	_____
Weedmaster	gal.	25.75	0.7500	19.31	_____
Surfactant	gal.	10.06	0.8250	8.29	_____
Asulox 3.3	gal.	50.71	0.7500	38.03	_____
Atrazine (4L)	gal.	10.29	0.5000	5.14	_____
INSECTICIDES					
Confirm	oz.	1.25	4.2000	5.25	_____
RIPENER					
Polado	oz.	0.75	8.0000	6.02	_____
OPERATOR LABOR					
Tractors	hour	7.50	1.9965	14.97	_____
OWNER LABOR					
Tractors	hour	12.00	0.4840	5.80	_____
DIESEL FUEL					
Tractors	gal	1.17	16.2492	19.01	_____
REPAIR & MAINTENANCE					
Implements	acre	6.95	1.0000	6.95	_____
Tractors	acre	17.98	1.0000	17.98	_____
INTEREST ON OP. CAP.	acre	13.93	1.0000	13.93	_____

TOTAL DIRECT EXPENSES				259.31	_____
FIXED EXPENSES					
Implements	acre	11.74	1.0000	11.74	_____
Tractors	acre	26.40	1.0000	26.40	_____

TOTAL FIXED EXPENSES				38.15	_____

TOTAL SPECIFIED EXPENSES				297.47	_____

Table 13.B Estimated resource use and costs per acre for field operations, 2nd stubble and older, sugarcane, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
3 Row (Offbar)	18 ft	143 hp	0.200	2.00	Feb	7.65	5.51	1.32	3.11	0.484	3.63				21.24
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Feb	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Boom Sprayer	30 ft	118 hp	0.060	1.00	Feb	1.00	0.72	0.13	0.15	0.072	0.54				2.56
Prowl	gal.											0.5000	20.82	10.41	10.41
Weedmaster	gal.											0.5000	25.75	12.87	12.87
Surfactant	gal.											0.3300	10.06	3.31	3.31
Fert Dry Sling App	42 ft	143 hp	0.060	1.00	Mar	1.14	0.82	0.22	0.34	0.072	0.54				3.08
Phosphate	lbs.											60.0000	0.19	11.40	11.40
Potash	lbs.											140.0000	0.15	21.00	21.00
Sulphur	lbs.											24.0000	0.17	4.17	4.17
3 Row (Offbar)	18 ft	143 hp	0.200	2.00	Mar	7.65	5.51	1.32	3.11	0.484	3.63				21.24
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Mar	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Fert 3 Row Lq App	18 ft	143 hp	0.130	1.00	Apr	2.48	1.79	0.36	0.59	0.157	1.17				6.41
Nitrogen	lbs.											160.0000	0.25	40.00	40.00
3 Row (Hipper)	18	143 hp	0.150	1.00	Apr	2.87	2.06	0.85	1.11	0.181	1.36				8.26
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Apr	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Boom Sprayer	30 ft	118 hp	0.060	1.00	May	1.00	0.72	0.13	0.15	0.072	0.54				2.56
Asulox 3.3	gal.											0.5000	50.71	25.35	25.35
Surfactant	gal.											0.3300	10.06	3.31	3.31
3 Row (Hipper)	18	130 hp	0.150	1.00	May	3.44	2.59	0.85	1.11	0.181	1.36				9.36
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	May	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Boom Sprayer	30 ft	118 hp	0.060	0.50	May	0.50	0.36	0.06	0.07	0.036	0.27				1.28
Asulox 3.3	gal.											0.2500	50.71	12.67	12.67
Surfactant	gal.											0.1650	10.06	1.65	1.65
3 Row (Hipper)	18	130 hp	0.150	1.00	Jun	3.44	2.59	0.85	1.11	0.181	1.36				9.36
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Jun	0.95	0.59	0.13	0.14	0.096	1.16				2.98
Boom Sprayer	30 ft	118 hp	0.060	1.00	Jun	1.00	0.72	0.13	0.15	0.072	0.54				2.56
Atrazine (4L)	gal.											0.5000	10.29	5.14	5.14
Weedmaster	gal.											0.2500	25.75	6.43	6.43
Airplane Lo-Vol	acre			0.10	Jun							0.1000	3.50	0.35	0.35
Confirm	oz.											0.7000	1.25	0.87	0.87
Airplane Lo-Vol	acre			0.50	Jul							0.5000	3.50	1.75	1.75
Confirm	oz.											3.5000	1.25	4.37	4.37
Airplane Lo-Vol	acre			1.00	Aug							1.0000	3.50	3.50	3.50
Polado	oz.											8.0000	0.75	6.02	6.02
Crop Consultant	acre			1.00	Sep							1.0000	6.00	6.00	6.00
TOTALS						36.99	26.40	6.95	11.74	2.480	20.78			180.64	283.53
INTEREST ON OPERATING CAPITAL															13.93
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															297.47

Table 14.A Estimated costs per acre, harvesting millable sugarcane, 2-row wholestalk harvester, 10-ton cane wagons, direct haul, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.2815	9.61	_____
OWNER LABOR					
Self-Propelled Eq.	hour	12.00	0.7700	9.24	_____
DIESEL FUEL					
Tractors	gal	1.17	9.1680	10.72	_____
Self-Propelled Eq.	gal	1.17	5.3000	6.20	_____
REPAIR & MAINTENANCE					
Implements	acre	6.21	1.0000	6.21	_____
Tractors	acre	8.64	1.0000	8.64	_____
Self-Propelled Eq.	acre	22.81	1.0000	22.81	_____
INTEREST ON OP. CAP.	acre	6.73	1.0000	6.73	_____
TOTAL DIRECT EXPENSES				80.18	_____
FIXED EXPENSES					
Implements	acre	8.04	1.0000	8.04	_____
Tractors	acre	13.57	1.0000	13.57	_____
Self-Propelled Eq.	acre	28.62	1.0000	28.62	_____
TOTAL FIXED EXPENSES				50.24	_____
TOTAL SPECIFIED EXPENSES				130.43	_____

Table 14.B Estimated resource use and costs per acre for field operations, harvesting millable sugarcane, 2-row wholestalk harvester, 10-ton cane wagons, direct haul, Louisiana 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
2 Row Cane Harvester	12 ft		0.400	1.00	Nov			20.78	18.27	0.440	5.28				44.33
Burning Unit	18 ft	68 hp	0.150	1.00	Nov	1.38	0.64	0.24	0.43	0.181	1.36				4.07
2 Row Cane Loader	12ft		0.300	1.00	Nov			8.22	10.35	0.330	3.96				22.54
Hauling Hitch	6 ft	168 hp	1.000	0.25	Nov	4.94	3.52	0.03	0.05	0.275	2.06				10.61
Hauling Hitch	6 ft	143 hp	1.000	0.75	Nov	13.04	9.40	0.10	0.15	0.825	6.18				28.88
Cane Wagon 10 Tons	10 ton	0	1.000	3.00	Nov			5.83	7.40						13.23
TOTALS						19.37	13.57	35.22	36.67	2.051	18.85			0.00	123.69
INTEREST ON OPERATING CAPITAL															6.73
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															130.43

Table 15.A Estimated costs per acre, harvesting millable sugarcane, 2-row wholestalk harvester, 10-ton transfer wagons, transloader, custom trailer, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.3794	10.34	_____
Self-Propelled Eq.	hour	7.50	0.2750	2.06	_____
OWNER LABOR					
Self-Propelled Eq.	hour	12.00	0.7700	9.24	_____
DIESEL FUEL					
Tractors	gal	1.17	9.5865	11.21	_____
Self-Propelled Eq.	gal	1.17	6.5000	7.60	_____
REPAIR & MAINTENANCE					
Implements	acre	1.48	1.0000	1.48	_____
Tractors	acre	9.19	1.0000	9.19	_____
Self-Propelled Eq.	acre	26.56	1.0000	26.56	_____
INTEREST ON OP. CAP.	acre	7.12	1.0000	7.12	_____

TOTAL DIRECT EXPENSES				84.83	_____
FIXED EXPENSES					
Implements	acre	2.32	1.0000	2.32	_____
Tractors	acre	14.29	1.0000	14.29	_____
Self-Propelled Eq.	acre	35.88	1.0000	35.88	_____

TOTAL FIXED EXPENSES				52.50	_____

TOTAL SPECIFIED EXPENSES				137.33	_____

Table 15.B Estimated resource use and costs per acre for field operations, harvesting millable sugarcane, 2-row wholestalk harvester, 10-ton transfer wagons, transloader, custom trailer, Louisiana 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	
						-----dollars-----				dollars		-----dollars-----		
2 Row Cane Harvester	12 ft		0.400	1.00	Nov			20.78	18.27	0.440	5.28			44.33
Burning Unit	18 ft	68 hp	0.150	1.00	Nov	1.38	0.64	0.24	0.43	0.181	1.36			4.07
2 Row Cane Loader	12ft		0.300	1.00	Nov			8.22	10.35	0.330	3.96			22.54
Cane Wagon 10T Tran	10	118 hp	0.330	1.00	Nov	5.53	3.98	0.41	0.62	0.399	2.99			13.54
Cane Wagon 10T Tran	10	143 hp	0.330	1.00	Nov	6.31	4.54	0.41	0.62	0.399	2.99			14.90
Cane Wagon 10T Tran	10	168 hp	0.330	1.00	Nov	7.18	5.11	0.41	0.62	0.399	2.99			16.33
Transloader			0.250	1.00	Nov			5.15	7.25	0.275	2.06			14.47
TOTALS						20.40	14.29	35.65	38.20	2.424	21.64		0.00	130.21
INTEREST ON OPERATING CAPITAL														7.12
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														137.33

Table 16.A Estimated costs per acre, harvesting millable sugarcane, 1-row chopper harvester, 10-ton Wagons, direct haul, Louisiana 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.1000	8.25	_____
OWNER LABOR					
Tractors	hour	12.00	0.0968	1.16	_____
Self-Propelled Eq.	hour	12.00	0.7370	8.84	_____
DIESEL FUEL					
Tractors	gal	1.17	8.8446	10.34	_____
Self-Propelled Eq.	gal	1.17	6.0300	7.05	_____
REPAIR & MAINTENANCE					
Implements	acre	12.76	1.0000	12.76	_____
Tractors	acre	8.59	1.0000	8.59	_____
Self-Propelled Eq.	acre	30.12	1.0000	30.12	_____
INTEREST ON OP. CAP.	acre	7.98	1.0000	7.98	_____
TOTAL DIRECT EXPENSES				95.14	_____
FIXED EXPENSES					
Implements	acre	15.72	1.0000	15.72	_____
Tractors	acre	13.51	1.0000	13.51	_____
Self-Propelled Eq.	acre	32.03	1.0000	32.03	_____
TOTAL FIXED EXPENSES				61.28	_____
TOTAL SPECIFIED EXPENSES				156.42	_____

Table 16.B Estimated resource use and costs per acre for field operations, harvesting millable sugarcane, 1-row chopper harvester, 10-ton Wagons, direct haul, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Chopper Harvester	6 ft.		0.670	1.00	Nov			37.18	32.03	0.737	8.84				78.06
Hauling Hitch	6 ft	168 hp	1.000	0.25	Nov	4.94	3.52	0.03	0.05	0.275	2.06				10.61
Hauling Hitch	6 ft	143 hp	1.000	0.75	Nov	13.04	9.40	0.10	0.15	0.825	6.18				28.88
Cane Wagon Billet	10 ton	0	1.000	3.00	Nov			12.50	15.38						27.88
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Nov	0.95	0.59	0.13	0.14	0.096	1.16				2.98
TOTALS						18.94	13.51	49.94	47.76	1.933	18.25			0.00	148.43
INTEREST ON OPERATING CAPITAL															7.98
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															156.42

Table 17.A Estimated costs per acre, harvesting millable sugarcane, 1-row chopper harvester, 10-ton high dump wagon, custom trailers, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.1979	8.98	_____
OWNER LABOR					
Tractors	hour	12.00	0.0968	1.16	_____
Self-Propelled Eq.	hour	12.00	0.7370	8384	_____
DIESEL FUEL					
Tractors	gal	1.17	9.2631	10.83	_____
Self-Propelled Eq.	gal	1.17	6.0300	7.05	_____
REPAIR & MAINTENANCE					
Implements	acre	10.44	1.0000	10.44	_____
Tractors	acre	9.14	1.0000	9.14	_____
Self-Propelled Eq.	acre	30.12	1.0000	30.12	_____
INTEREST ON OP. CAP.	acre	7.93	1.0000	7.93	_____
TOTAL DIRECT EXPENSES				94.53	_____
FIXED EXPENSES					
Implements	acre	8.60	1.0000	8.60	_____
Tractors	acre	14.24	1.0000	14.24	_____
Self-Propelled Eq.	acre	32.03	1.0000	32.03	_____
TOTAL FIXED EXPENSES				54.88	_____
TOTAL SPECIFIED EXPENSES				149.42	_____

Table 17.B Estimated resource use and costs per acre for field operations, harvesting millable sugarcane, 1-row chopper harvester, 10-ton high dump wagon, custom trailers, Louisiana 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Chopper Harvester	6 ft.		0.670	1.00	Nov			37.18	32.03	0.737	8.84				78.06
Cane Wagon Billet HD	10 ton	143 hp	0.330	1.00	Nov	6.31	4.54	3.43	2.82	0.399	2.99				20.11
Cane Wagon Billet HD	10 ton	118 hp	0.330	1.00	Nov	5.53	3.98	3.43	2.82	0.399	2.99				18.76
Cane Wagon Billet HD	10 ton	168 hp	0.330	1.00	Nov	7.18	5.11	3.43	2.82	0.399	2.99				21.55
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Nov	0.95	0.59	0.13	0.14	0.096	1.16				2.98
TOTALS						19.98	14.24	47.62	40.64	2.031	18.98			0.00	141.48
INTEREST ON OPERATING CAPITAL															7.93
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															149.42

Table 18.A Estimated costs per acre, overhead and administrative costs, sugarcane, Louisiana, 2001

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
ACCT & FARMSTD					
Farmstead & drainage	dol.	1.00	1.5700	1.57	_____
Other labor	hr.	7.50	0.6700	5.02	_____
Utilities	dol.	1.00	2.8080	2.80	_____
HERBICIDES					
MSMA 6.6#	gal.	17.74	0.0125	0.22	_____
2,4-D Amine	oz.	0.09	0.0025	0.00	_____
OPERATOR LABOR					
Tractors	hour	7.50	0.2153	1.61	_____
Self-Propelled Eq.	hour	7.50	1.6800	12.60	_____
Shop bldg. & equip.	hour	7.50	0.5776	4.33	_____
DIESEL FUEL					
Tractors	gal	1.17	0.9904	1.15	_____
GASOLINE					
Self-Propelled Eq.	gal	1.43	4.2000	6.00	_____
REPAIR & MAINTENANCE					
Implements	acre	0.63	1.0000	0.63	_____
Tractors	acre	0.93	1.0000	0.93	_____
Self-Propelled Eq.	acre	3.21	1.0000	3.21	_____
Shop bldg. & equip.	acre	6.63	1.0000	6.63	_____
INTEREST ON OP. CAP.	acre	2.96	1.0000	2.96	_____

TOTAL DIRECT EXPENSES				49.72	_____
FIXED EXPENSES					
Implements	acre	1.23	1.0000	1.23	_____
Tractors	acre	1.27	1.0000	1.27	_____
Self-Propelled Eq.	acre	7.93	1.0000	7.93	_____
Shop bldg. & equip.	acre	5.63	1.0000	5.63	_____

TOTAL FIXED EXPENSES				16.09	_____

TOTAL SPECIFIED EXPENSES				65.81	_____

Table 18.B Estimated resource use and costs per acre for field operations, overhead and administrative costs, sugarcane, Louisiana, 2001

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Farmstead & drainage	dol.			1.00	Jan							1.5700	1.00	1.57	1.57
Other labor	hr.											0.6700	7.50	5.02	5.02
Rotary Ditcher	6 ft	118 hp	0.250	0.05	Jan	0.20	0.15	0.15	0.20	0.015	0.11				0.83
Blade	8 ft	93 hp	0.880	0.08	Jan	0.90	0.60	0.13	0.28	0.085	0.63				2.57
Pickup Truck	1/2 ton		1.000	0.14	Jan			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Jan			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	1/2 ton		1.000	0.14	Feb			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Feb			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	1/2 ton		1.000	0.14	Mar			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Mar			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Rotary Mower	13.3 FT	68 hp	0.250	0.20	Mar	0.41	0.19	0.10	0.30	0.055	0.41				1.43
Pickup Truck	1/2 ton		1.000	0.14	Apr			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Apr			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	1/2 ton		1.000	0.14	May			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	May			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	1/2 ton		1.000	0.14	Jun			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Jun			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Rotary Ditcher	6 ft	118 hp	0.250	0.05	Jun	0.20	0.15	0.15	0.20	0.015	0.11				0.83
Rotary Mower	13.3 FT	68 hp	0.250	0.15	Jun	0.31	0.14	0.07	0.22	0.041	0.30				1.07
Pickup Truck	1/2 ton		1.000	0.14	Jul			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Jul			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Boom Sprayer	30 ft	93 hp	0.060	0.05	Jul	0.03	0.02	0.00	0.00	0.003	0.02				0.10
MSMA 6.6#	gal.											0.0125	17.74	0.22	0.22
2,4-D Amine	oz.											0.0025	0.09	0.00	0.00
Pickup Truck	1/2 ton		1.000	0.14	Aug			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Aug			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	1/2 ton		1.000	0.14	Sep			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Sep			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	1/2 ton		1.000	0.14	Oct			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Oct			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	1/2 ton		1.000	0.14	Nov			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Nov			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	1/2 ton		1.000	0.14	Dec			0.76	0.66	0.140	1.05				2.47
Shop bldg. & equip.	acre			1.00	Dec			0.55	0.46	0.048	0.36	0.0830			1.38
Utilities	dol.											0.2340	1.00	0.23	0.23
TOTALS						2.09	1.27	16.48	14.81	2.472	18.54			9.62	62.84
INTEREST ON OPERATING CAPITAL															2.96
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															65.81

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, 8, 9, 11, 12, 13, 15, 17 and 18.

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 19.0 cents per pound and a molasses price of 32.0 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	231.61	200.00	46,322.00
Cultured Seed Cane	499.75	6.50	3,248.38
Hand Planting Seedcane	250.78	6.50	1,630.07
Propagated Seedcane	73.91	38.70	2,860.32
Mechanical Planting Seedcane	162.01	193.50	31,348.94
Plant Cane Field Operations	241.17	200.00	48,234.00
1st Stubble Field Operations	284.33	200.00	56,866.00
2nd Stubble Field Operations	297.46	200.00	59,492.00
3rd Stubble Field Operations	297.46	200.00	59,492.00
Harvest for Sugar	149.41	761.30	113,745.83
Overhead	65.81	1000.00	65,810.00
			=====
Total Specified Expenses			489,049.53

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	40.0	200	80.00	161.3	12,904
1st Stubble	42.0	200	84.00	200.0	16,800
2nd Stubble	38.0	200	76.00	200.0	15,200
3rd Stubble	35.0	200	70.00	200.0	14,000
Total					58,904

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 2.9 gallons of molasses per cwt. of raw sugar).

Crop	Total Raw Sugar	Molasses/Sugar Ratio	Total Molasses
	(cwt)	(gallons/cwt)	(gallons)
Plantcane	12,904	2.9	37,422
1st Stubble	16,800	2.9	48,720
2nd Stubble	15,200	2.9	44,080
3rd Stubble	14,000	2.9	40,600
Total			170,822

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	58,904	(22,973)	(7,186)	28,745

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	54,663	(32,456)	(4,441)	17,765

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.	28,745	19.00	546,158
Molasses bonus	gal.	55,517	0.32	17,765
ASCL checkoff	tons	22,452	-0.10	(2,245)
Total				561,678

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)
489,050	1,000	489.05

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), and the hauling rebate, then dividing by net raw sugar output to arrive at net production cost. 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	Hauling Rebate	Adjusted Total Farm Cost	Pounds of Sugar to Cover Cost	Adjusted Total Farm Cost per Pound of Sugar
----- (dollars) -----				(lbs)	(dollars/lb)
489,050	(17,765)	(0)	471,284	2,874,515	0.164

Appendix Table 1. Estimated fuel prices, labor wage rates, and interest rates All Soils, Louisiana 2001.

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	1.17
Electricity	kWh	0.09
Gasoline	gal	1.43
LP Gas	cu ft	0.65
Natural Gas	cu ft	6.00
LABOR TYPES		
Operator	hour	7.50
Hand	hour	7.50
Irrigation	hour	7.50
Owner	hour	12.00
INTEREST RATES		
Short-term	%	10.00
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 2001.

ITEM NAME	SIZE	USEFUL LIFE	ANNUAL USE	PURCHASE PRICE	REPAIR COST	FUEL CONS RATE	DIRECT COST	FIXED COST
		years	hours	dollars	percent	/hour	\$/hr	\$/hr
Class 8 Diesel Truc	0	10	400	54,000	70	4.50	14.71	17.68
Double Hitch	0	10	1000	0	100	0.00	0.00	0.00
Tractor a	15-30 hp	22	625	12,000	170	1.60	4.32	1.88
Tractor b	31-55 hp	43	625	17,500	159	2.70	5.94	2.74
Tractor c	56-80 hp	68	625	25,000	138	4.20	8.36	3.91
Tractor d	81-105 hp	93	625	50,000	108	5.40	11.71	7.83
Tractor e	106-130 hp	118	625	70,000	104	6.80	15.23	10.96
Tractor f	131-155 hp	143	625	80,000	99	8.10	17.39	12.53
Tractor g	156-180 hp	168	625	90,000	95	9.60	19.78	14.10
Tractor h	181-225 hp	203	625	107,000	95	9.60	21.39	16.76
Tractor i	Small 4WD	225	625	97,500	96	10.80	21.99	15.27
Tractor j	Large 4WD	300	625	115,000	96	14.40	27.88	18.01
Tractor k	HC 130hp	130	625	75,000	95	8.10	20.87	15.72
Tractor l	56-80 MDR	68hp MDR	625	43,000	138	4.20	10.84	6.73
Tractor m	81-105 MDR	93hp MDR	625	50,000	138	5.40	13.21	7.83

HC = Tractor with high clearance, MDR = Tractor with mudder tires

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 2001.

ITEM NAME	SIZE	PERF RATE	USEFUL LIFE	ANNUAL USE	PURCHASE PRICE	REPAIR COST	FUEL CONS RATE	-DIRECT COST-	-FIXED COST-		
		hrs/ac	years	hours	dollars	percent	/hour	\$/hr	\$/ac	\$/hr	\$/ac
1 Row Cane Harvester	6 ft	0.670	15	400	115,000	142	6.80	35.17	23.56	29.18	19.55
1 Row Cane Loader	6 Ft	0.600	10	425	60,000	73	5.10	16.27	9.76	18.49	11.09
2 Row Cane Harvester	12 ft	0.400	15	400	180,000	142	8.00	51.96	20.78	45.67	18.27
2 Row Cane Loader	12ft	0.300	10	425	112,000	73	7.00	27.42	8.22	34.52	10.35
ATV 4-Wheeler	250cc	0.050	10	100	3,500	75	1.00	4.05	0.20	4.58	0.22
Cane Truck & Trailer	30 tons	1.000	10	400	45,000	70	7.00	16.06	16.06	14.73	14.73
Chopper Harvester	6 ft.	0.670	15	400	190,000	142	9.00	55.49	37.18	47.81	32.03
Combine Double Crop	20 ft	0.250	6	500	145,000	60	7.10	37.30	9.32	55.60	13.90
Combine Large	20 Ft	0.210	10	300	162,000	60	8.60	42.46	8.91	70.74	14.85
Combine Medium	20 ft	0.250	10	300	150,000	60	7.10	38.30	9.57	65.50	16.37
Pickup Truck	1/2 ton	1.000	5	800	17,000	45	2.50	5.48	5.48	4.72	4.72
SP High Sprayer	60 ft	0.020	7	150	60,000	90	2.90	54.82	1.09	67.96	1.35
Transloader		0.250	12	120	30,000	72	4.80	20.61	5.15	29.02	7.25
Truck 1 Ton	1 TON	1.000	6	400	25,500	50	4.00	9.99	9.99	12.22	12.22
Truck 2 Ton	2 ton	1.000	6	400	30,000	50	3.70	11.54	11.54	14.37	14.37
Truck 5 Ton	5 ton	1.000	6	400	37,000	50	5.00	14.85	14.85	17.73	17.73

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 All Soils, Louisiana 2001.

ITEM NAME	SIZE	PERF	USEFUL	ANNUAL	PURCHASE	REPAIR	-- DIRECT COST --		-- FIXED COST --	
		RATE	LIFE	USE	PRICE	COST	\$/hr	\$/ac	\$/hr	\$/ac
		hrs/ac	years	hours	dollars	percent				
3 Row (Cover)	18 ft	0.200	9	200	10,750	80	4.77	0.95	7.58	1.51
3 Row (Hipper)	18 ft	0.150	9	200	10,500	98	5.71	0.85	7.40	1.11
3 Row (Marker)	18 ft	0.150	9	200	8,800	80	3.91	0.58	6.20	0.93
3 Row (Offbar)	18 ft	0.200	15	150	11,500	65	3.32	0.66	7.78	1.55
3 Row (Opener)	18 ft	0.150	10	200	7,800	100	3.90	0.58	5.10	0.76
3 Row Plow	18 ft	0.200	9	200	17,000	98	9.25	1.85	11.98	2.39
3 Row/Offbar/Fert	18 ft	0.150	7	150	12,500	88	10.47	1.57	14.16	2.12
Anhydrous Appl.	18 ft	0.170	5	150	6,000	85	6.80	1.15	8.89	1.51
Blade	8 ft	0.880	12	100	3,500	66	1.92	1.69	4.06	3.57
Boom Sprayer	30 ft	0.060	10	150	3,000	110	2.20	0.13	2.62	0.15
Burning Unit	18 ft	0.150	6	85	1,300	65	1.65	0.24	2.93	0.43
Cane Wagon 10 Tons	10 ton	1.000	9	400	7,000	100	1.94	1.94	2.46	2.46
Cane Wagon 10T Tran	10 ton	0.330	15	400	7,500	100	1.25	0.41	1.90	0.62
Cane Wagon 5T Tran	5 ton	0.330	15	400	3,500	100	0.58	0.19	0.88	0.29
Cane Wagon Billet	10 ton	1.000	9	400	15,000	100	4.16	4.16	5.12	5.12
Cane Wagon Billet HD	10 ton	0.330	9	400	25,000	150	10.41	3.43	8.54	2.82
Chisel Plow	13 ft	0.220	6	200	6,000	88	4.40	0.96	5.75	1.26
Chisel Plow	23 ft	0.120	6	200	12,000	41	4.10	0.49	11.50	1.38
Conditioner	6 row	0.090	6	200	6,500	88	4.76	0.42	6.23	0.56
Cultimulcher	12 ft	0.110	15	120	5,500	88	2.68	0.29	4.65	0.51
Cultivate + Post	6 row	0.110	10	200	8,200	88	3.60	0.39	5.37	0.59
Cultivator	6 row	0.100	10	200	6,550	88	2.88	0.28	4.29	0.42
Cultivator 30"	6 row	0.140	10	200	5,350	88	2.35	0.32	3.50	0.49
Custom Fert Dry App.	18 ft	0.100	1	1	1	1	0.01	0.00	1.05	0.10
Custom Fert LQ App.	18 ft	0.100	1	1	1	1	0.01	0.00	1.05	0.10
Disk	13 ft	0.150	10	200	8,500	88	3.74	0.56	5.56	0.83
Disk	20 ft	0.100	10	200	17,500	88	7.70	0.77	11.46	1.14
Disk	26 ft	0.070	10	200	21,000	88	9.24	0.64	13.75	0.96
Disk + Pre	6 row	0.100	10	200	9,250	88	4.07	0.40	6.05	0.60
Drag	14 ft	0.130	8	200	800	88	0.44	0.05	0.61	0.07
Drain Cleaner	6 ft	0.080	9	300	3,750	120	1.66	0.13	1.76	0.14
Fert 3 Row Dry App	18 ft	0.150	10	200	7,500	80	3.00	0.45	4.91	0.73
Fert 3 Row Lq App	18 ft	0.130	10	200	7,000	80	2.80	0.36	4.58	0.59
Fert Dry Sling App	42 ft	0.060	10	150	6,500	88	3.81	0.22	5.67	0.34
Fert Nurse Tank	18 ft	0.050	6	130	3,500	20	0.89	0.04	5.16	0.25
Field Cultivator	20 ft	0.080	10	200	8,750	88	3.85	0.30	5.73	0.45
Field Cultivator	32 ft	0.060	10	200	15,500	88	6.82	0.40	10.15	0.60
Field Cut + Pre	20 ft	0.070	10	200	9,750	88	4.29	0.30	6.38	0.44
Field Cut + Pre	32 ft	0.090	10	200	16,500	88	7.26	0.65	10.80	0.97
Flat Roller	18 ft	0.190	9	75	1,400	120	2.48	0.47	2.63	0.50
Flat Roller	6 ft	0.560	9	125	600	120	0.64	0.35	0.67	0.37
Grain Cart	450 bu.	1.000	15	175	9,000	71	2.43	2.43	5.22	5.22
Grain Drill	13 ft	0.200	8	200	7,500	77	3.60	0.72	5.76	1.15
Grain Drill	20 ft	0.060	8	200	16,500	77	7.94	0.47	12.67	0.76
Harrow	2 row	0.140	10	200	800	88	0.35	0.04	0.52	0.07
Hauling Hitch	6 ft	1.000	15	500	1,000	100	0.13	0.13	0.20	0.20
Hipper	20 ft	0.100	6	200	7,200	88	5.28	0.52	6.90	0.69
Hipper + Fert	6 row	0.110	10	200	8,500	88	3.74	0.41	5.56	0.61
Land level	13 ft	0.700	15	200	7,500	66	1.65	1.15	3.80	2.66
Land Plane	15 ft	0.300	15	200	10,000	66	2.20	0.66	5.07	1.52
Laser Equipment		1.560	10	350	17,500	20	1.00	1.56	6.55	10.21
Laser Scraper	9 cu. yd	1.560	15	350	9,500	66	1.19	1.86	2.75	4.29
Lilliston Cult	20 ft	0.140	10	250	6,300	88	2.21	0.31	3.30	0.46
Mech. Planter	6 ft	1.000	10	160	15,500	75	7.26	7.26	12.69	12.69
Middle Buster	18 ft	0.210	9	100	2,400	65	1.73	0.36	3.38	0.71
Moldboard 12 bot	18 ft	0.150	15	150	13,500	150	9.00	1.35	9.13	1.37
Moldboard 4 bot	6 ft	0.280	15	200	2,400	100	0.80	0.22	1.21	0.34
Planter	6 row	0.080	8	200	16,500	77	7.94	0.63	12.67	1.01
Planter + Pre	6 row	0.110	8	200	18,000	77	8.66	0.95	13.82	1.52
Planters Aid	6 ft	3.000	15	200	4,500	74	1.11	3.33	2.19	6.57

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 2001.

ITEM NAME	SIZE	PERF	USEFUL	ANNUAL	PURCHASE	REPAIR	-- DIRECT COST--		-- FIXED COST--	
		RATE	LIFE	USE	PRICE	COST	\$/hr	\$/ac	\$/hr	\$/ac
		hrs/ac	years	hours	dollars	percent				
Ripper-Hipper	4 row	0.160	10	200	7,000	88	3.08	0.49	4.58	0.73
Rotary Ditcher	6 ft	0.250	10	100	12,500	100	12.50	3.12	16.37	4.09
Rotary Hoe	18 ft	0.080	12	75	4,500	103	5.15	0.41	6.96	0.55
Rotary Mower	13.3 ft	0.250	10	150	7,000	44	2.05	0.51	6.11	1.52
Rototiller	18 ft	0.220	10	150	20,000	120	16.00	3.52	17.46	3.84
Row Marker	18 ft	0.210	9	130	400	120	0.41	0.08	0.43	0.09
Shaver	3 row	0.080	12	80	9,500	50	4.94	0.39	13.78	1.10
Spike Harrow	18 ft	0.100	10	200	2,000	88	0.88	0.08	1.31	0.13
Sprayer/Lilliston	20 ft	0.140	10	200	7,300	95	3.46	0.48	4.78	0.66
Springtooth	20 ft	0.110	13	150	3,500	132	2.36	0.26	2.57	0.28
Stalk Cutter (HD)	18 ft	0.150	10	150	8,500	75	4.25	0.63	7.42	1.11
Subsoiler	3 shank	0.300	15	100	3,500	100	2.33	0.70	3.55	1.06
Tractor Blade	6 ft	1.000	15	100	3,500	137	3.19	3.19	3.55	3.55
Tractor Spreader	20 ft	0.110	10	150	700	88	0.41	0.04	0.61	0.06
Tractor Trailer Rig	25 ton	1.000	15	400	31,800	120	6.36	6.36	8.06	8.06
Trailer Utility	10 ft	1.000	15	200	2,000	35	0.23	0.23	1.01	1.01

Appendix Table 5. Operating inputs: estimated prices, Louisiana 2001.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
dollars			dollars		
ACCT & FARM/MTD			Asulox 3.3	gal.	50.71
Farmstead & drainage	dol.	1.00	Atrazine (4L)	gal.	10.29
Insurance	dol.	1.00	Atrazine (90DF)	lb.	2.53
Other labor	hr.	7.50	Basagran 4EC	gal.	69.65
Other overhead	dol.	1.00	Dual SE	oz.	0.44
Overhead	acre	65.81	Karnex 80 DF	lbs.	4.33
Utilities	dol.	1.00	Lexone DF	lbs.	17.76
CUSTOM			MVA 6.6#	gal.	17.74
Airplane (2, 4-D)	acre	6.40	Poast 1.5L	oz.	0.61
Airplane Hi-Vol	acre	6.00	Prowl	gal.	20.82
Airplane Lo-Vol	acre	3.50	Roundup DPAC	gal.	54.62
Airplane Polado	acre	5.40	Roundup Ultra	gal.	37.46
Crop Consultant	acre	6.00	Sencor DF	lbs.	18.32
Custom Dry App (DP)	acre	3.75	Sinbar	lbs.	25.72
Custom Lq App.	lbs	0.00	Surfactant	gal.	10.06
Fert. Applicator	acre	0.00	Treflan	gal.	25.53
Line Spreader	ton	7.33	Weedmaster	gal.	25.75
Truck/trailer	24 t	0.00	INSECTICIDES		
FERTILIZER			Asana XL	oz.	0.85
13-13-13	ton	201.13	Baythroid 2EC	oz.	3.17
Line	ton	30.80	Confirm	oz.	1.25
N (AM SULFATE) 21%	ton	146.14	Furadan 4F	gal.	66.69
N (Anhydrous) 82%	ton	217.50	Guthion 2L	gal.	32.51
N (UREA) 45%	ton	206.88	Thimet 20G	lb.	2.28
N Solution 32%	ton	144.50	OTHER		
Nitrogen	lbs.	0.25	Benlate 50VP	lbs.	16.51
Phosphate	lbs.	0.19	Heat Treat Labor	hr.	7.50
Phosphous (46%)	ton	203.82	Planting Labor	hr.	7.50
Potash	lbs.	0.15	Treating Charge	acre	0.00
Potash (Miriate of)	ton	157.71	RIPENER		
Sulphur	lbs.	0.17	Polado	oz.	0.75
Sulphur 90%	ton	356.88	SEED		
HERBICIDES			Cultured Seed Cane	acre	450.00
2, 4-D Amine	oz.	0.09	Heat Treatment-Seed	acre	39.72