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PROJECTED COSTS AND RETURNS - SUGARCANE LOUISIANA, 1997

by

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Projected sugarcane costs and returns included in this report, along with all projected 1997 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://rich.agadm.lsu.edu.

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Lonnie P. Champagne and Michael E. Salassi[1]

INTRODUCTION

This report presents estimates of costs and returns associated with sugarcane production practices in Louisiana for 1997. 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 1 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 has 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 1997 projected costs and returns associated with the various phases of sugarcane production using three row machinery and the production practices used by most growers in the main sugarcane producing area of the state (see figure on page G-7). Fertilizer and

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chemical rates were based on recommendations of the Louisiana Cooperative Extension 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 1-row and 2-row wholestalk (soldier) harvesters and a combine (billet) harvester. One set of harvest budgets (Tables 14, 15 and 18) 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 16, 17 and 19) 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 800 acre farm is shown in Table 1. A standard land rotation is assumed with 200 acres each in plantcane, first stubble, second stubble, and fallow/plant. Gross value of production is shown, along with estimated mill and land charges, as well as producer income and expenses. Net returns to management and risk are estimated. Several return and cost items are also shown on a dollar per acre and a dollar per pound of sugar basis for comparison.

Projected output per rotational acre and its distribution between the grower and suppliers of land and milling services is presented in Table 2. Table 2 reflects the output distribution associated with a standard four year sugarcane rotation and approximates the projected average yield levels in 1997

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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.

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.

Table 3 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 1 and 2 as well as Appendix A. Distribution shares of sugar production to mill, landlord, and grower, in pounds of sugar per rotational acre, are shown for a 1/5 and a 1/6 share rent arrangement. Breakeven prices per pound of raw sugar are calculated by dividing grower's share of production into direct costs, total specified costs, and total specified costs plus overhead expenses.

PROCEDURE

Survey data collected from sugarcane producers provided basic production practice and input information. 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 1996 from farm suppliers throughout the sugarcane producing area to provide a basis for estimating projected 1997 budgets. Machinery price data were obtained from machinery dealers in late 1995. 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 eight 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 were obtained from a limited sample of machinery dealers in November 1995. 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. 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 1997. 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 $.85 per gallon and regular gasoline at $1.20 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 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.

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

Product price projections were made in December 1996, based primarily upon existing supply and use and government program information. Price forecasting at this season 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 1997 loan level for raw sugar is $.18 per pound with a projected market price of raw sugar in the $0.21 per pound range. Return estimates in this report are computed using a $0.21 per pound raw sugar market price and a selling price for molasses of $65 per ton of molasses or $0.38 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 20. 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.

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 1 and

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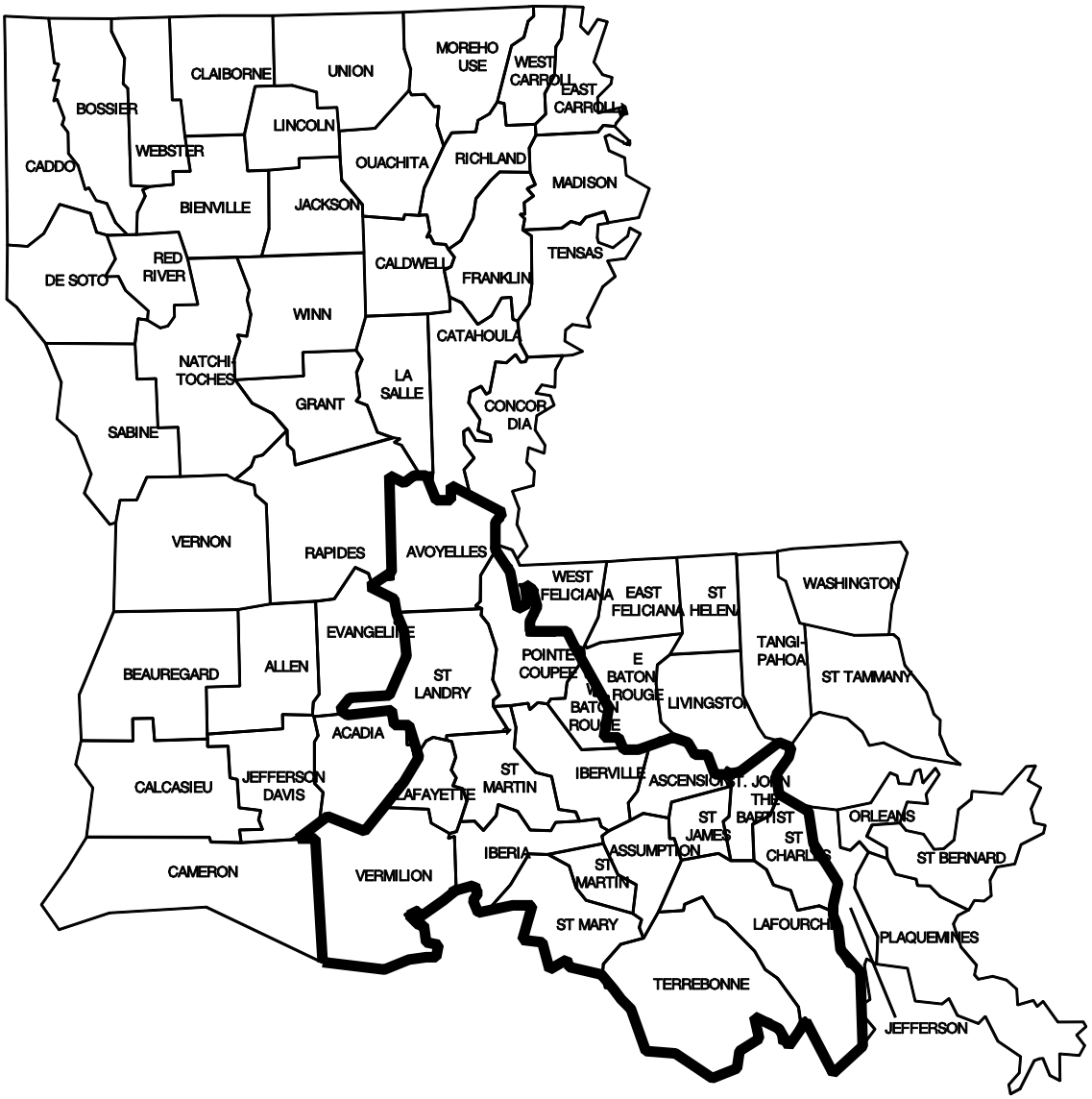
6 Donald C. Huffman and Brian E. McManus. Overhead Costs and Labor on Louisiana Farms, 1982. D.A.E. Research Report No. 599, Department of Agricultural Economics and Agribusiness, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, Baton Rouge, Louisiana.

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.

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 Sugarcame Production Area

Table 1. Projected Costs and Returns on 800 Acres of Sugarcane, Tenant-Operator, Louisiana, 1997

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: Plantcane (5,400 lbs/acre)	1,134.00	161.3	182,892		
1st stubble (5,200 lbs/acre)	1,092.00	200.0	218,400		
2nd stubble (4,800 lbs/acre)	1,008.00	200.0	201,600		
Total sugar			602,892	753.61	0.210
Molasses	--	--	31,637		
TOTAL GROSS VALUE			634,529	793.16	0.221
MILL CHARGE (Payment in kind):					
Sugar (39%)	--	--	235,128		
Molasses	--	--	18,316		
Total mill charge			253,444	316.81	0.088
NET RETURNS TO LAND AND PRODUCER			381,085	476.36	0.133
LAND RENT (Payment in kind):					
Sugar (20% after mill charge)	--	--	73,553		
Molasses(20% after mill charge)	--	--	2,664		
Total land charge			76,217	95.27	0.027
PRODUCER INCOME					
Sugar and Molasses	--	--	304,868	381.08	0.106
Hauling Rebate 2/ ($1.50/ton)	--	--	21,532		
Marketing Assessment ($0.2475/cwt)	--	--	(3,467)		
ASCL Check Off ($0.10 /ton)	--	--	(1,435)		
Total Income			321,497	401.87	0.112
PRODUCTION EXPENSES: 3/					
Fallow Field Operations	69.31	200.0	13,862		
Seedbed Preparation	75.49	200.0	15,098		
Planting Cultured Seedcane	691.38	6.5	4,480		
Planting Propagated Seedcane	153.69	193.6	29,754		
Plant Cane Field Operations	190.00	200.0	38,000		
1st Stubble Field Operations	171.12	200.0	34,224		
2nd Stubble Field Operations	191.23	200.0	38,246		
Harvest for Sugar 4/	123.56	561.3	69,352		
Total specified expenses			243,016	303.77	0.085
RETURNS ABOVE TOTAL SPECIFIED EXPENSES			78,481	98.10	0.027
OVERHEAD EXPENSES	53.80	800.0	43,040	53.80	0.015
NET RETURNS TO MANAGEMENT AND RISK			35,441	44.30	0.012

1/ Gross value of production is determined using estimated production from 800 acres of sugarcane land in a standard rotation (fallow/plant, plantcane, 1st stubble, and 2nd stubble). Raw sugar is valued at 21.0 cents per pound and molasses at 38.0 cents per gallon.
2/ Harvested sugarcane is assumed to be direct hauled using tractors and wagons from the field to the mill by the producer. Hauling costs and hauling rebate are included.
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 sugarcane is harvested using a two-row wholestalk harvester.
5/ Per acre dollar value is calculated by dividing total dollar value by total farm acreage (800 acres).
6/ Per pound of sugar value is calculated by dividing total dollar value by total sugar production over 800 farm acres (2,870,912 pounds).

Table 2. Expected Sugar Yield per Rotational Acre of Sugarcane, Tenant-Operator, Louisiana, 1997

	Land Use (%)	Sugar yield			Sugar Yield per Rotational Acre
		Plantcane	1st stubble	2nd stubble	
		pounds of sugar			
Sugar Yield per Acre					
Harvested for Sugar		5400	5200	4800	
Sugar Yield per Rotational Acre 1/:					
Plantcane	25%	1350	--	--	
Plantcane used for seed 2/	4.84%	261	--	--	
1st Stubble	25%	--	1300	--	
2nd Stubble	25%	--	--	1200	
Fallow/plant	25%	--	--	--	
Total Raw Sugar per Rotational Acre		1089	1300	1200	3589
Mill/Landlord Share:					
Mill share	39%	425	507	468	1400
Landlord share 3/	12.2%	133	159	146	438
Grower's Share:					
Tenant 4/	48.8%	531	634	586	1751

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 3. Breakeven Selling Prices for Raw Sugar for Selected Yields and Rental Arrangements, Tenant-Operators, Louisiana, 1997

	Selected Yield Levels				
	-20%	-10%	Base	+10%	+20%
Cane yield per harvested acre (tons) 1/	20.5	23.0	25.6	28.2	33.8
Sugar yield per harvested acre (lbs) 2/	4096	4608	5120	5632	6758
Sugar yield per rotational acre (lbs) 3/	2874	3233	3589	3951	4742
ONE-FIFTH LAND SHARE RENT:					
	----------pounds of sugar per rotational acre---------				
Share of production per rotational acre:					
Mill share (39%)	1121	1261	1400	1541	1849
Landlord share (12.2%)	351	394	438	482	578
Grower share (48.8%)	1402	1578	1751	1928	2314
	--------------dollars per pound of sugar------------				
Breakeven price to recover: 4/					
Direct costs	0.167	0.148	0.134	0.121	0.101
Total specified costs	0.217	0.193	0.173	0.158	0.131
Total costs plus overhead	0.255	0.227	0.204	0.185	0.155
ONE-SIXTH LAND SHARE RENT:					
	----------pounds of sugar per rotational acre---------				
Share of production per rotational acre:					
Mill share (39%)	1121	1261	1400	1541	1849
Landlord share (10.2%)	293	330	366	403	484
Grower share (50.8%)	1460	1642	1823	2007	2409
	--------------dollars per pound of sugar------------				
Breakeven price to recover: 4/					
Direct costs	0.160	0.143	0.128	0.117	0.097
Total specified costs	0.208	0.185	0.167	0.151	0.126
Total costs plus overhead	0.245	0.218	0.196	0.178	0.148

1/ Average farm yield across harvested acreage of plantcane, 1st stubble and 2nd stubble.
2/ Average yield in tons per acre multiplied by a 200 CRS.
3/ Assumes a standard land rotation of 25% each of plantcane, 1st stubble, 2nd stubble, and fallow/plant.
4/ Breakeven prices are calculated by dividing grower's share of production into direct costs, total specified costs, and total specified costs plu overhead. No adjustment is made for molasses payments, hauling rebate, or other adjustments.

Table 4.A Estimated costs per acre -- Sugarcane, breaking stubble and fallow activities, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.2342	9.26	_____
OWNER LABOR					
Tractors	hour	12.00	0.5808	6.97	_____
DIESEL FUEL					
Tractors	gal	0.85	12.1638	10.34	_____
REPAIR & MAINTENANCE					
Implements	acre	5.19	1.0000	5.19	_____
Tractors	acre	10.98	1.0000	10.98	_____
INTEREST ON OP. CAP.	acre	4.13	1.0000	4.13	_____

TOTAL DIRECT EXPENSES				46.86	_____
FIXED EXPENSES					
Implements	acre	7.10	1.0000	7.10	_____
Tractors	acre	15.35	1.0000	15.35	_____

TOTAL FIXED EXPENSES				22.45	_____

TOTAL SPECIFIED EXPENSES				69.31	_____

Table 4.B Estimated resource use and costs per acre for field operations -- Sugarcane, breaking stubble and fallow activities, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
3 Row Plow	18	143 hp	0.200	1.00	Mar	3.04	2.25	1.09	1.35	0.242	1.82				9.55
Disk	20 ft	143 hp	0.100	2.00	Mar	3.04	2.25	1.36	1.94	0.242	1.82				10.41
Drain Cleaner	6 ft	68hp MDR	0.080	2.00	Mar	1.55	0.98	0.27	0.27	0.194	2.32				5.39
Chisel Plow	13 ft	168 hp	0.220	1.00	Mar	3.84	2.87	0.76	0.96	0.266	2.00				10.42
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Mar	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Land Plane	15 ft	168 hp	0.300	1.00	Apr	5.23	3.91	0.49	1.07	0.363	2.72				13.43
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Apr	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Disk	20 ft	143 hp	0.100	1.00	Apr	1.52	1.13	0.68	0.97	0.121	0.91				5.21
Drain Cleaner	6 ft	68hp MDR	0.080	2.00	Apr	1.55	0.98	0.27	0.27	0.194	2.32				5.39
TOTALS						21.32	15.35	5.19	7.10	1.815	16.23			0.00	65.19
INTEREST ON OPERATING CAPITAL															4.13
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															69.31

Table 5.A Estimated costs per acre -- Sugarcane, seedbed preparation, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Roundup d pack	gal.	61.00	0.5000	30.50	_____
Surfactant	gal.	10.75	0.1250	1.34	_____
OPERATOR LABOR					
Tractors	hour	7.50	0.7986	5.99	_____
OWNER LABOR					
Tractors	hour	12.00	0.3872	4.65	_____
DIESEL FUEL					
Tractors	gal	0.85	7.1808	6.10	_____
REPAIR & MAINTENANCE					
Implements	acre	3.60	1.0000	3.60	_____
Tractors	acre	6.76	1.0000	6.76	_____
INTEREST ON OP. CAP.	acre	2.87	1.0000	2.87	_____

TOTAL DIRECT EXPENSES				61.82	_____
FIXED EXPENSES					
Implements	acre	4.49	1.0000	4.49	_____
Tractors	acre	9.18	1.0000	9.18	_____

TOTAL FIXED EXPENSES				13.67	_____

TOTAL SPECIFIED EXPENSES				75.49	_____

Table 5.B Estimated resource use and costs per acre for field operations -- Sugarcane, seedbed preparation, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
3 Row (Marker)	18 ft	143 hp	0.150	1.00	May	2.28	1.69	0.53	0.81	0.182	1.36				6.68
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	May	0.78	0.49	0.13	0.14	0.097	1.16				2.70
3 Row (Hipper)	18	143 hp	0.150	2.00	Jun	4.56	3.38	1.63	2.03	0.363	2.72				14.32
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Jun	0.78	0.49	0.13	0.14	0.097	1.16				2.70
3 Row (Hipper)	18	143 hp	0.150	1.00	Jul	2.28	1.69	0.82	1.01	0.182	1.36				7.16
Drain Cleaner	6 ft	68hp MDR	0.080	2.00	Jul	1.55	0.98	0.27	0.27	0.194	2.32				5.39
Boom Sprayer	30 ft	93 hp	0.060	1.00	Aug	0.65	0.46	0.09	0.10	0.073	0.54				1.84
Roundup d pack	gal.											0.5000	61.00	30.50	30.50
Surfactant	gal.											0.1250	10.75	1.34	1.34
TOTALS						12.87	9.18	3.60	4.49	1.186	10.64			31.84	72.62
INTEREST ON OPERATING CAPITAL															2.87
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															75.49

Table 6.A Estimated costs per acre -- Sugarcane, heat treatment of seed cane, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OTHER					
Heat Treat Labor	hr.	7.50	4.0000	30.00	_____
OPERATOR LABOR					
Tractors	hour	7.50	0.3993	2.99	_____
DIESEL FUEL					
Tractors	gal	0.85	1.9602	1.67	_____
REPAIR & MAINTENANCE					
Implements	acre	0.22	1.0000	0.22	_____
Tractors	acre	1.88	1.0000	1.88	_____
INTEREST ON OP. CAP.	acre	0.61	1.0000	0.61	_____

TOTAL DIRECT EXPENSES				37.38	_____
FIXED EXPENSES					
Implements	acre	0.32	1.0000	0.32	_____
Tractors	acre	2.55	1.0000	2.55	_____

TOTAL FIXED EXPENSES				2.87	_____

TOTAL SPECIFIED EXPENSES				40.25	_____

Table 6.B Estimated resource use and costs per acre for field operations -- Sugarcane, heat treatment of seed cane, new equipment, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Heat Treat Labor	hr.			1.00	Aug							4.0000	7.50	30.00	30.00
Treating Charge	acre			1.00	Aug							1.0000			
Cane Wagon 5T Tran	5ton	93 hp	0.330	1.00	Aug	3.55	2.55	0.22	0.32	0.399	2.99				9.63
TOTALS						3.55	2.55	0.22	0.32	0.399	2.99			30.00	39.63
INTEREST ON OPERATING CAPITAL															0.61
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															40.25

Table 7.A Estimated costs per acre -- Sugarcane, cutting and planting heat treated seedcane, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sinbar	lbs.	22.90	0.5000	11.45	_____
Atrazine (4L)	gal.	10.80	0.3750	4.05	_____
OTHER					
Planting Labor	hr.	7.50	9.0000	67.50	_____
SEED					
Heat Treatment-Seed	acre	34.15	1.0000	34.15	_____
OPERATOR LABOR					
Tractors	hour	7.50	4.6827	35.12	_____
OWNER LABOR					
Tractors	hour	12.00	0.1936	2.32	_____
Self-Propelled Eq.	hour	12.00	0.2794	3.35	_____
DIESEL FUEL					
Tractors	gal	0.85	21.2938	18.10	_____
Self-Propelled Eq.	gal	0.85	1.4032	1.19	_____
REPAIR & MAINTENANCE					
Implements	acre	4.77	1.0000	4.77	_____
Tractors	acre	20.01	1.0000	20.01	_____
Self-Propelled Eq.	acre	4.46	1.0000	4.46	_____
INTEREST ON OP. CAP.	acre	20.65	1.0000	20.65	_____

TOTAL DIRECT EXPENSES				227.14	_____
FIXED EXPENSES					
Implements	acre	7.04	1.0000	7.04	_____
Tractors	acre	23.48	1.0000	23.48	_____
Self-Propelled Eq.	acre	5.29	1.0000	5.29	_____

TOTAL FIXED EXPENSES				35.81	_____

TOTAL SPECIFIED EXPENSES				262.95	_____

Table 7.B Estimated resource use and costs per acre for field operations -- Sugarcane, cutting and planting heat treated seedcane, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Row Opener	18 ft	118 hp	0.220	1.00	Sep	3.03	2.30	0.10	0.10	0.266	2.00				7.53
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.78	0.49	0.13	0.14	0.097	1.16				2.70
1 Row Cane Harvester	6 ft		0.670	0.20	Sep			4.10	3.35	0.147	1.77				9.22
SP Cane Loader 6Ft	6 Ft		0.600	0.20	Sep			1.55	1.94	0.132	1.58				5.08
Planters Aid	6 ft	68 hp	3.000	1.00	Sep	24.76	13.76	2.15	3.48	3.630	27.23				71.38
Planting Labor	hr.											9.0000	7.50	67.50	67.50
Heat Treatment-Seed	acre											1.0000	34.15	34.15	34.15
3 Row (Cover)	18 ft	143 hp	0.200	2.00	Sep	6.08	4.51	1.76	2.68	0.484	3.63				18.65
Flat Roller	18 ft	93 hp	0.190	1.00	Sep	2.04	1.47	0.41	0.41	0.230	1.72				6.05
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Boom Sprayer	30 ft	93 hp	0.060	1.00	Sep	0.65	0.46	0.09	0.10	0.073	0.54				1.84
Sinbar	lbs.											0.5000	22.90	11.45	11.45
Atrazine (4L)	gal.											0.3750	10.80	4.05	4.05
TOTALS						38.11	23.48	10.43	12.33	5.156	40.80			117.15	242.30
INTEREST ON OPERATING CAPITAL															20.65
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															262.95

Table 8.A Estimated costs per acre -- Sugarcane, planting cultured seed cane, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sinbar	lbs.	22.90	0.5000	11.45	_____
Atrazine (4L)	gal.	10.80	0.3750	4.05	_____
OTHER					
Planting Labor	hr.	7.50	9.0000	67.50	_____
SEED					
Cultured Seed Cane	acre	435.00	1.0000	435.00	_____
OPERATOR LABOR					
Tractors	hour	7.50	4.6827	35.12	_____
OWNER LABOR					
Tractors	hour	12.00	0.1936	2.32	_____
Self-Propelled Eq.	hour	12.00	0.0660	0.79	_____
DIESEL FUEL					
Tractors	gal	0.85	21.2938	18.10	_____
Self-Propelled Eq.	gal	0.85	0.2460	0.21	_____
REPAIR & MAINTENANCE					
Implements	acre	4.77	1.0000	4.77	_____
Tractors	acre	20.01	1.0000	20.01	_____
Self-Propelled Eq.	acre	0.57	1.0000	0.57	_____
INTEREST ON OP. CAP.	acre	59.99	1.0000	59.99	_____

TOTAL DIRECT EXPENSES				659.89	_____
FIXED EXPENSES					
Implements	acre	7.04	1.0000	7.04	_____
Tractors	acre	23.48	1.0000	23.48	_____
Self-Propelled Eq.	acre	0.97	1.0000	0.97	_____

TOTAL FIXED EXPENSES				31.49	_____

TOTAL SPECIFIED EXPENSES				691.38	_____

Table 8.B Estimated resource use and costs per acre for field operations -- Sugarcane, planting cultured seed cane, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Row Opener	18 ft	118 hp	0.220	1.00	Sep	3.03	2.30	0.10	0.10	0.266	2.00				7.53
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.78	0.49	0.13	0.14	0.097	1.16				2.70
SP Cane Loader 6Ft	6 Ft		0.600	0.10	Sep			0.78	0.97	0.066	0.79				2.54
Planters Aid	6 ft	68 hp	3.000	1.00	Sep	24.76	13.76	2.15	3.48	3.630	27.23				71.38
Cultured Seed Cane	acre											1.0000	435.00	435.00	435.00
Planting Labor	hr.											9.0000	7.50	67.50	67.50
3 Row (Cover)	18 ft	143 hp	0.200	2.00	Sep	6.08	4.51	1.76	2.68	0.484	3.63				18.65
Flat Roller	18 ft	93 hp	0.190	1.00	Sep	2.04	1.47	0.41	0.41	0.230	1.72				6.05
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Boom Sprayer	30 ft	93 hp	0.060	1.00	Sep	0.65	0.46	0.09	0.10	0.073	0.54				1.84
Sinbar	lbs.											0.5000	22.90	11.45	11.45
Atrazine (4L)	gal.											0.3750	10.80	4.05	4.05
TOTALS						38.11	23.48	5.55	8.01	4.942	38.24			518.00	631.39
INTEREST ON OPERATING CAPITAL															59.99
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															691.38

Table 9.A Estimated costs per acre -- Sugarcane, cutting and planting seed propagated from cultured seed, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HERBICIDES					
Sinbar	lbs.	22.90	0.5000	11.45	_____
Atrazine (4L)	gal.	10.80	0.3750	4.05	_____
OTHER					
Planting Labor	hr.	7.50	2.2400	16.80	_____
OPERATOR LABOR					
Implements	hour	7.50	1.1200	8.40	_____
Tractors	hour	7.50	2.1780	16.34	_____
OWNER LABOR					
Tractors	hour	12.00	0.4235	5.08	_____
Self-Propelled Eq.	hour	12.00	0.2794	3.35	_____
DIESEL FUEL					
Tractors	gal	0.85	13.8358	11.76	_____
Self-Propelled Eq.	gal	0.85	1.4032	1.19	_____
REPAIR & MAINTENANCE					
Implements	acre	9.46	1.0000	9.46	_____
Tractors	acre	13.43	1.0000	13.43	_____
Self-Propelled Eq.	acre	4.46	1.0000	4.46	_____
INTEREST ON OP. CAP.	acre	10.58	1.0000	10.58	_____

TOTAL DIRECT EXPENSES				116.36	_____
FIXED EXPENSES					
Implements	acre	13.97	1.0000	13.97	_____
Tractors	acre	18.07	1.0000	18.07	_____
Self-Propelled Eq.	acre	5.29	1.0000	5.29	_____

TOTAL FIXED EXPENSES				37.32	_____

TOTAL SPECIFIED EXPENSES				153.69	_____

Table 9.B Estimated resource use and costs per acre for field operations -- Sugarcane, cutting and planting seed propagated from cultured seed all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Row Opener	18 ft	118 hp	0.220	1.00	Sep	3.03	2.30	0.10	0.10	0.266	2.00				7.53
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.78	0.49	0.13	0.14	0.097	1.16				2.70
1 Row Cane Harvester	6 ft		0.670	0.20	Sep			4.10	3.35	0.147	1.77				9.22
SP Cane Loader 6Ft	6 Ft		0.600	0.20	Sep			1.55	1.94	0.132	1.58				5.08
Mech. Planter	6 ft	93 hp	1.120	1.00	Sep	12.04	8.65	6.84	10.41	2.475	18.56				56.51
Propagt'd cltrd seed	acre											1.0000			
Planting Labor	hr.											2.2400	7.50	16.80	16.80
3 Row (Cover)	18 ft	143 hp	0.200	2.00	Sep	6.08	4.51	1.76	2.68	0.484	3.63				18.65
Flat Roller	18 ft	68hp MDR	0.190	1.00	Sep	1.84	1.16	0.41	0.41	0.230	2.76				6.58
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Sep	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Boom Sprayer	30 ft	93 hp	0.060	1.00	Sep	0.65	0.46	0.09	0.10	0.073	0.54				1.84
Sinbar	lbs.											0.5000	22.90	11.45	11.45
Atrazine (4L)	gal.											0.3750	10.80	4.05	4.05
TOTALS						25.19	18.07	15.12	19.26	4.001	33.17			32.30	143.11
INTEREST ON OPERATING CAPITAL															10.58
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															153.69

Table 10.A Estimated costs per acre -- Sugarcane, succession planting, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	lbs.	0.26	45.0000	11.70	_____
Phosphate	lbs.	0.21	45.0000	9.45	_____
Potash	lbs.	0.12	45.0000	5.40	_____
HERBICIDES					
Sinbar	lbs.	22.90	0.5000	11.45	_____
Atrazine (4L)	gal.	10.80	0.3750	4.05	_____
OTHER					
Planting Labor	hr.	7.50	2.2400	16.80	_____
OPERATOR LABOR					
Implements	hour	7.50	1.1200	8.40	_____
Tractors	hour	7.50	3.3759	25.32	_____
OWNER LABOR					
Tractors	hour	12.00	0.1936	2.32	_____
Self-Propelled Eq.	hour	12.00	0.2794	3.35	_____
DIESEL FUEL					
Tractors	gal	0.85	21.1156	17.95	_____
Self-Propelled Eq.	gal	0.85	1.4032	1.19	_____
REPAIR & MAINTENANCE					
Implements	acre	13.48	1.0000	13.48	_____
Tractors	acre	19.36	1.0000	19.36	_____
Self-Propelled Eq.	acre	4.46	1.0000	4.46	_____
INTEREST ON OP. CAP.	acre	14.18	1.0000	14.18	_____

TOTAL DIRECT EXPENSES				168.87	_____
FIXED EXPENSES					
Implements	acre	19.55	1.0000	19.55	_____
Tractors	acre	27.07	1.0000	27.07	_____
Self-Propelled Eq.	acre	5.29	1.0000	5.29	_____

TOTAL FIXED EXPENSES				51.92	_____

TOTAL SPECIFIED EXPENSES				220.79	_____

Table 10.B Estimated resource use and costs per acre for field operations -- Sugarcane, succession planting, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
3 Row Plow	18	168 hp	0.200	1.00	Oct	3.49	2.61	1.09	1.35	0.242	1.82				10.35
Disk	20 ft	143 hp	0.100	2.00	Oct	3.04	2.25	1.36	1.94	0.242	1.82				10.41
3 Row (Marker)	18 ft	143 hp	0.150	2.00	Oct	4.56	3.38	1.07	1.62	0.363	2.72				13.35
Row Opener	18 ft	118 hp	0.220	1.00	Oct	3.03	2.30	0.10	0.10	0.266	2.00				7.53
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Oct	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Dry Fert Appl	18 ft	68 hp	0.100	1.00	Oct	0.83	0.46	0.50	0.67	0.121	0.91				3.36
Nitrogen	lbs.											45.0000	0.26	11.70	11.70
Phosphate	lbs.											45.0000	0.21	9.45	9.45
Potash	lbs.											45.0000	0.12	5.40	5.40
1 Row Cane Harvester	6 ft		0.670	0.20	Oct			4.10	3.35	0.147	1.77				9.22
SP Cane Loader 6Ft	6 Ft		0.600	0.20	Oct			1.55	1.94	0.132	1.58				5.08
Mech. Planter	6 ft	93 hp	1.120	1.00	Oct	12.04	8.65	6.84	10.41	2.475	18.56				56.51
Propagt'd cltrd seed	acre											1.0000			
Planting Labor	hr.											2.2400	7.50	16.80	16.80
3 Row (Cover)	18 ft	143 hp	0.200	2.00	Oct	6.08	4.51	1.76	2.68	0.484	3.63				18.65
Flat Roller	18 ft	93 hp	0.190	1.00	Oct	2.04	1.47	0.41	0.41	0.230	1.72				6.05
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Oct	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Boom Sprayer	30 ft	93 hp	0.060	1.00	Oct	0.65	0.46	0.09	0.10	0.073	0.54				1.84
Sinbar	lbs.											0.5000	22.90	11.45	11.45
Atrazine (4L)	gal.											0.3750	10.80	4.05	4.05
TOTALS						37.31	27.07	19.14	24.85	4.969	39.40			58.85	206.61
INTEREST ON OPERATING CAPITAL															14.18
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															220.79

Table 11.A Estimated costs per acre -- Sugarcane, plant cane, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Airplane Lo-Vol	acre	3.15	1.5000	4.73	_____
FERTILIZER					
Potash	lbs.	0.12	80.0000	9.60	_____
Phosphate	lbs.	0.21	40.0000	8.40	_____
Nitrogen	lbs.	0.26	100.0000	26.00	_____
HERBICIDES					
Sencor (4L)	gal.	141.80	0.2500	35.45	_____
Weedmaster	gal.	26.30	0.2500	6.58	_____
Surfactant	gal.	10.75	0.1250	1.34	_____
Atrazine (4L)	gal.	10.80	0.3750	4.05	_____
INSECTICIDES					
Asana XL	oz.	0.94	8.0000	7.50	_____
OPERATOR LABOR					
Tractors	hour	7.50	1.8876	14.16	_____
OWNER LABOR					
Tractors	hour	12.00	0.3872	4.65	_____
DIESEL FUEL					
Tractors	gal	0.85	14.2065	12.08	_____
REPAIR & MAINTENANCE					
Implements	acre	4.99	1.0000	4.99	_____
Tractors	acre	12.93	1.0000	12.93	_____
INTEREST ON OP. CAP.	acre	12.68	1.0000	12.68	_____

TOTAL DIRECT EXPENSES				165.12	_____
FIXED EXPENSES					
Implements	acre	6.90	1.0000	6.90	_____
Tractors	acre	17.98	1.0000	17.98	_____

TOTAL FIXED EXPENSES				24.88	_____

TOTAL SPECIFIED EXPENSES				190.00	_____

Table 11.B Estimated resource use and costs per acre for field operations -- Sugarcane, plant cane, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Chopper/Offbar	18 ft	143 hp	0.190	2.00	Mar	5.77	4.28	0.41	0.91	0.460	3.45				14.83
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Mar	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Boom Sprayer	30 ft	93 hp	0.060	1.00	Mar	0.65	0.46	0.09	0.10	0.073	0.54				1.84
Sencor (4L)	gal.											0.2500	141.80	35.45	35.45
Weedmaster	gal.											0.2500	26.30	6.58	6.58
Surfactant	gal.											0.1250	10.75	1.34	1.34
Dry Fert Appl	18 ft	68 hp	0.100	1.00	Apr	0.83	0.46	0.50	0.67	0.121	0.91				3.36
Potash	lbs.											80.0000	0.12	9.60	9.60
Phosphate	lbs.											40.0000	0.21	8.40	8.40
Chopper/Offbar	18 ft	143 hp	0.190	2.00	Apr	5.77	4.28	0.41	0.91	0.460	3.45				14.83
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Apr	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Liquid Fert Apl	18 ft	93 hp	0.130	1.00	Apr	1.40	1.00	0.50	0.63	0.157	1.18				4.71
Nitrogen	lbs.											100.0000	0.26	26.00	26.00
3 Row (Hipper)	18	143 hp	0.150	3.00	May	6.84	5.07	2.45	3.04	0.545	4.08				21.48
Drain Cleaner	6 ft	68hp MDR	0.080	2.00	May	1.55	0.98	0.27	0.27	0.194	2.32				5.39
Boom Sprayer	30 ft	93 hp	0.060	1.00	May	0.65	0.46	0.09	0.10	0.073	0.54				1.84
Atrazine (4L)	gal.											0.3750	10.80	4.05	4.05
Airplane Lo-Vol	acre			1.00	Jul							1.5000	3.15	4.73	4.73
Asana XL	oz.											8.0000	0.94	7.50	7.50
TOTALS						25.00	17.98	4.99	6.90	2.275	18.80			103.65	177.33
INTEREST ON OPERATING CAPITAL															12.68
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															190.00

Table 12.A Estimated costs per acre -- Sugarcane, 1st stubble, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Airplane Lo-Vol	acre	3.15	1.5000	4.73	_____
FERTILIZER					
Phosphate	lbs.	0.21	40.0000	8.40	_____
Potash	lbs.	0.12	80.0000	9.60	_____
Nitrogen	lbs.	0.26	130.0000	33.80	_____
HERBICIDES					
Treflan (4L)	gal.	30.00	0.2500	7.50	_____
Atrazine (4L)	gal.	10.80	0.4000	4.32	_____
Asulox	gal.	53.30	0.1500	7.99	_____
Surfactant	gal.	10.75	0.0375	0.40	_____
INSECTICIDES					
Baythroid	oz.	3.01	2.1000	6.32	_____
OPERATOR LABOR					
Tractors	hour	7.50	2.0062	15.05	_____
OWNER LABOR					
Tractors	hour	12.00	0.3872	4.65	_____
DIESEL FUEL					
Tractors	gal	0.85	14.7886	12.57	_____
REPAIR & MAINTENANCE					
Implements	acre	5.40	1.0000	5.40	_____
Tractors	acre	13.49	1.0000	13.49	_____
INTEREST ON OP. CAP.	acre	10.71	1.0000	10.71	_____

TOTAL DIRECT EXPENSES				144.92	_____
FIXED EXPENSES					
Implements	acre	7.46	1.0000	7.46	_____
Tractors	acre	18.74	1.0000	18.74	_____

TOTAL FIXED EXPENSES				26.20	_____

TOTAL SPECIFIED EXPENSES				171.12	_____

Table 12.B Estimated resource use and costs per acre for field operations -- Sugarcane, 1st stubble, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Chopper/Offbar	18 ft	143 hp	0.190	2.00	Mar	5.77	4.28	0.41	0.91	0.460	3.45				14.83
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Mar	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Sprayer/Lilliston	20 ft	93 hp	0.140	1.00	Mar	1.51	1.08	0.48	0.63	0.169	1.27				4.96
Treflan (4L)	gal.											0.2500	30.00	7.50	7.50
Dry Fert Appl	18 ft	68 hp	0.100	1.00	Apr	0.83	0.46	0.50	0.67	0.121	0.91				3.36
Phosphate	lbs.											40.0000	0.21	8.40	8.40
Potash	lbs.											80.0000	0.12	9.60	9.60
Chopper/Offbar	18 ft	143 hp	0.190	2.00	Apr	5.77	4.28	0.41	0.91	0.460	3.45				14.83
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Apr	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Liquid Fert Apl	18 ft	93 hp	0.130	1.00	Apr	1.40	1.00	0.50	0.63	0.157	1.18				4.71
Nitrogen	lbs.											130.0000	0.26	33.80	33.80
3 Row (Hipper)	18	143 hp	0.150	3.00	May	6.84	5.07	2.45	3.04	0.545	4.08				21.48
Drain Cleaner	6 ft	68hp MDR	0.080	2.00	May	1.55	0.98	0.27	0.27	0.194	2.32				5.39
Boom Sprayer	30 ft	93 hp	0.060	1.00	Jun	0.65	0.46	0.09	0.10	0.073	0.54				1.84
Atrazine (4L)	gal.											0.4000	10.80	4.32	4.32
Boom Sprayer	30 ft	93 hp	0.060	0.30	Jun	0.19	0.14	0.03	0.03	0.022	0.16				0.55
Asulox	gal.											0.1500	53.30	7.99	7.99
Surfactant	gal.											0.0375	10.75	0.40	0.40
Airplane Lo-Vol	acre			1.00	Jul							1.5000	3.15	4.73	4.73
Baythroid	oz.											2.1000	3.01	6.32	6.32
TOTALS						26.06	18.74	5.40	7.46	2.393	19.69			83.06	160.41
INTEREST ON OPERATING CAPITAL															10.71
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															171.12

Table 13.A Estimated costs per acre -- Sugarcane, 2nd stubble and older, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Airplane Lo-Vol	acre	3.15	1.5000	4.73	_____
Airplane Hi-Vol	acre	4.15	1.0000	4.15	_____
FERTILIZER					
Phosphate	lbs.	0.21	40.0000	8.40	_____
Potash	lbs.	0.12	80.0000	9.60	_____
Nitrogen	lbs.	0.26	130.0000	33.80	_____
HERBICIDES					
Treflan (4L)	gal.	30.00	0.2500	7.50	_____
Atrazine (4L)	gal.	10.80	0.4000	4.32	_____
Asulox	gal.	53.30	0.3000	15.99	_____
Surfactant	gal.	10.75	0.0750	0.81	_____
INSECTICIDES					
Baythroid	oz.	3.01	2.1000	6.32	_____
RIPENER					
Polado	oz.	0.74	8.0000	5.92	_____
OPERATOR LABOR					
Tractors	hour	7.50	2.0280	15.21	_____
OWNER LABOR					
Tractors	hour	12.00	0.3872	4.65	_____
DIESEL FUEL					
Tractors	gal	0.85	14.8955	12.66	_____
REPAIR & MAINTENANCE					
Implements	acre	5.43	1.0000	5.43	_____
Tractors	acre	13.59	1.0000	13.59	_____
INTEREST ON OP. CAP.	acre	11.80	1.0000	11.80	_____

TOTAL DIRECT EXPENSES				164.86	_____
FIXED EXPENSES					
Implements	acre	7.49	1.0000	7.49	_____
Tractors	acre	18.88	1.0000	18.88	_____

TOTAL FIXED EXPENSES				26.37	_____

TOTAL SPECIFIED EXPENSES				191.23	_____

Table 13.B Estimated resource use and costs per acre for field operations -- Sugarcane, 2nd stubble and older, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Chopper/Offbar	18 ft	143 hp	0.190	2.00	Mar	5.77	4.28	0.41	0.91	0.460	3.45				14.83
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Mar	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Sprayer/Lilliston	20 ft	93 hp	0.140	1.00	Mar	1.51	1.08	0.48	0.63	0.169	1.27				4.96
Treflan (4L)	gal.											0.2500	30.00	7.50	7.50
Dry Fert Appl	18 ft	68 hp	0.100	1.00	Apr	0.83	0.46	0.50	0.67	0.121	0.91				3.36
Phosphate	lbs.											40.0000	0.21	8.40	8.40
Potash	lbs.											80.0000	0.12	9.60	9.60
Chopper/Offbar	18 ft	143 hp	0.190	2.00	Apr	5.77	4.28	0.41	0.91	0.460	3.45				14.83
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Apr	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Liquid Fert Apl	18 ft	93 hp	0.130	1.00	Apr	1.40	1.00	0.50	0.63	0.157	1.18				4.71
Nitrogen	lbs.											130.0000	0.26	33.80	33.80
3 Row (Hipper)	18	143 hp	0.150	3.00	May	6.84	5.07	2.45	3.04	0.545	4.08				21.48
Drain Cleaner	6 ft	68hp MDR	0.080	2.00	May	1.55	0.98	0.27	0.27	0.194	2.32				5.39
Boom Sprayer	30 ft	93 hp	0.060	1.00	Jun	0.65	0.46	0.09	0.10	0.073	0.54				1.84
Atrazine (4L)	gal.											0.4000	10.80	4.32	4.32
Boom Sprayer	30 ft	93 hp	0.060	0.60	Jun	0.39	0.28	0.05	0.06	0.044	0.33				1.10
Asulox	gal.											0.3000	53.30	15.99	15.99
Surfactant	gal.											0.0750	10.75	0.81	0.81
Airplane Lo-Vol	acre			1.00	Jul							1.5000	3.15	4.73	4.73
Baythroid	oz.											2.1000	3.01	6.32	6.32
Airplane Hi-Vol	acre			1.00	Aug							1.0000	4.15	4.15	4.15
Polado	oz.											8.0000	0.74	5.92	5.92
TOTALS						26.25	18.88	5.43	7.49	2.415	19.86			101.53	179.43
INTEREST ON OPERATING CAPITAL															11.80
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															191.23

Table 14.A Estimated costs per acre -- Sugarcane, harvesting millable sugarcane, 1-row harvester, direct haul to mill, 10-ton cane wagons, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.6940	12.71	
OWNER LABOR					
Tractors	hour	12.00	0.0968	1.16	
Self-Propelled Eq.	hour	12.00	1.3970	16.76	
DIESEL FUEL					
Tractors	gal	0.85	11.9526	10.16	
Self-Propelled Eq.	gal	0.85	7.0160	5.96	
REPAIR & MAINTENANCE					
Implements	acre	5.59	1.0000	5.59	
Tractors	acre	10.45	1.0000	10.45	
Self-Propelled Eq.	acre	22.32	1.0000	22.32	
INTEREST ON OP. CAP.	acre	7.09	1.0000	7.09	
TOTAL DIRECT EXPENSES				92.20	
FIXED EXPENSES					
Implements	acre	6.90	1.0000	6.90	
Tractors	acre	15.00	1.0000	15.00	
Self-Propelled Eq.	acre	26.46	1.0000	26.46	
TOTAL FIXED EXPENSES				48.36	
TOTAL SPECIFIED EXPENSES				140.56	

Table 14.B Estimated resource use and costs per acre for field operations -- Sugarcane, harvesting millable sugarcane, 1-row harvester, direct haul to mill, 10-ton cane wagons, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars		dollars		
1 Row Cane Harvester	6 ft		0.670	1.00	Dec			20.52	16.74	0.737	8.84				46.11
Burning Unit	18 ft	43 hp	0.150	1.00	Dec	0.84	0.42	0.25	0.42	0.182	1.36				3.29
SP Cane Loader 6Ft	6 Ft		0.600	1.00	Dec			7.76	9.72	0.660	7.92				25.40
Cane Wagon 10 Tons	10 ton	143 hp	1.000	1.25	Dec	19.00	14.08	2.60	3.17	1.513	11.34				50.20
Cane Wagon 10 Tons	10 ton	0	1.000	1.25	Dec			2.60	3.17						5.77
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Dec	0.78	0.49	0.13	0.14	0.097	1.16				2.70
TOTALS						20.61	15.00	33.87	33.36	3.188	30.63			0.00	133.47
INTEREST ON OPERATING CAPITAL															7.09
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															140.56

Table 15.A Estimated costs per acre -- Sugarcane, harvesting millable sugarcane, 2-row harvester, direct haul to mill, 10-ton cane wagons, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.6940	12.71	_____
OWNER LABOR					
Tractors	hour	12.00	0.0968	1.16	_____
Self-Propelled Eq.	hour	12.00	0.7150	8.58	_____
DIESEL FUEL					
Tractors	gal	0.85	11.9526	10.16	_____
Self-Propelled Eq.	gal	0.85	4.2400	3.60	_____
REPAIR & MAINTENANCE					
Implements	acre	5.59	1.0000	5.59	_____
Tractors	acre	10.45	1.0000	10.45	_____
Self-Propelled Eq.	acre	19.78	1.0000	19.78	_____
INTEREST ON OP. CAP.	acre	6.00	1.0000	6.00	_____

TOTAL DIRECT EXPENSES				78.03	_____
FIXED EXPENSES					
Implements	acre	6.90	1.0000	6.90	_____
Tractors	acre	15.00	1.0000	15.00	_____
Self-Propelled Eq.	acre	23.64	1.0000	23.64	_____

TOTAL FIXED EXPENSES				45.53	_____

TOTAL SPECIFIED EXPENSES				123.56	_____

Table 15.B Estimated resource use and costs per acre for field operations -- Sugarcane, harvesting millable sugarcane, 2-row harvester, direct haul to mill, 10-ton cane wagons, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
2 Row Cane Harvester	12 ft		0.350	1.00	Dec			16.70	14.58	0.385	4.62				35.89
Burning Unit	18 ft	43 hp	0.150	1.00	Dec	0.84	0.42	0.25	0.42	0.182	1.36				3.29
SP Cane Loader 12Ft	12ft		0.300	1.00	Dec			6.68	9.06	0.330	3.96				19.70
Cane Wagon 10 Tons	10 ton	143 hp	1.000	1.25	Dec	19.00	14.08	2.60	3.17	1.513	11.34				50.20
Cane Wagon 10 Tons	10 ton	0	1.000	1.25	Dec			2.60	3.17						5.77
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Dec	0.78	0.49	0.13	0.14	0.097	1.16				2.70
TOTALS						20.61	15.00	28.97	30.53	2.506	22.45			0.00	117.56
INTEREST ON OPERATING CAPITAL															6.00
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															123.56

Table 16.A Estimated costs per acre --Sugarcane, harvesting millable sugarcane, 1-row cane harvester, transloading from 5 ton cane wagons to custom trailers, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.0799	8.10	_____
Self-Propelled Eq.	hour	7.50	1.2815	9.61	_____
OWNER LABOR					
Tractors	hour	12.00	0.0968	1.16	_____
Self-Propelled Eq.	hour	12.00	1.3970	16.76	_____
DIESEL FUEL					
Tractors	gal	0.85	5.2256	4.44	_____
Self-Propelled Eq.	gal	0.85	14.8080	12.59	_____
REPAIR & MAINTENANCE					
Implements	acre	1.38	1.0000	1.38	_____
Tractors	acre	5.15	1.0000	5.15	_____
Self-Propelled Eq.	acre	32.50	1.0000	32.50	_____
INTEREST ON OP. CAP.	acre	7.64	1.0000	7.64	_____
TOTAL DIRECT EXPENSES				99.35	_____
FIXED EXPENSES					
Implements	acre	1.99	1.0000	1.99	_____
Tractors	acre	6.65	1.0000	6.65	_____
Self-Propelled Eq.	acre	44.79	1.0000	44.79	_____
TOTAL FIXED EXPENSES				53.43	_____
TOTAL SPECIFIED EXPENSES				152.78	_____

Table 16.B Estimated resource use and costs per acre for field operations --Sugarcane, harvesting millable sugarcane, 1-row cane harvester, transloading from 5 ton cane wagons to custom trailers, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
1 Row Cane Harvester	6 ft		0.670	1.00	Dec			20.52	16.74	0.737	8.84				46.11
Burning Unit	18 ft	43 hp	0.150	1.00	Dec	0.84	0.42	0.25	0.42	0.182	1.36				3.29
SP Cane Loader 6Ft	6 Ft		0.600	1.00	Dec			7.76	9.72	0.660	7.92				25.40
Cane Wagon 5T Tran	5ton	93 hp	0.330	2.25	Dec	7.98	5.74	0.50	0.72	0.898	6.74				21.67
Cane Wagon 5T Tran	5ton	0	0.330	2.25	Dec			0.50	0.72						1.22
Transloader			0.250	0.66	Dec			2.98	4.24	0.182	1.36				8.59
Cane Truck & Trailer	30 tons		1.000	1.00	Dec			13.83	14.09	1.100	8.25				36.16
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Dec	0.78	0.49	0.13	0.14	0.097	1.16				2.70
TOTALS						9.60	6.65	46.47	46.78	3.855	35.64			0.00	145.14
INTEREST ON OPERATING CAPITAL															7.64
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															152.78

Table 17.A Estimated costs per acre -- Sugarcane, harvesting millable sugarcane, 2-row cane harvester, transloading from 5 ton cane wagons to custom trailers, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.0799	8.10	_____
Self-Propelled Eq.	hour	7.50	1.1908	8.93	_____
OWNER LABOR					
Tractors	hour	12.00	0.0968	1.16	_____
Self-Propelled Eq.	hour	12.00	0.7150	8.58	_____
DIESEL FUEL					
Tractors	gal	0.85	5.2256	4.44	_____
Self-Propelled Eq.	gal	0.85	11.6360	9.89	_____
REPAIR & MAINTENANCE					
Implements	acre	1.38	1.0000	1.38	_____
Tractors	acre	5.15	1.0000	5.15	_____
Self-Propelled Eq.	acre	28.81	1.0000	28.81	_____
INTEREST ON OP. CAP.	acre	6.37	1.0000	6.37	_____

TOTAL DIRECT EXPENSES				82.82	_____
FIXED EXPENSES					
Implements	acre	1.99	1.0000	1.99	_____
Tractors	acre	6.65	1.0000	6.65	_____
Self-Propelled Eq.	acre	39.84	1.0000	39.84	_____

TOTAL FIXED EXPENSES				48.48	_____

TOTAL SPECIFIED EXPENSES				131.30	_____

Table 17.B Estimated resource use and costs per acre for field operations -- Sugarcane, harvesting millable sugarcane, 2-row cane harvester, transloading from 5 ton cane wagons to custom trailers, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
2 Row Cane Harvester	12 ft		0.350	1.00	Dec			16.70	14.58	0.385	4.62				35.89
Burning Unit	18 ft	43 hp	0.150	1.00	Dec	0.84	0.42	0.25	0.42	0.182	1.36				3.29
SP Cane Loader 12Ft	12ft		0.300	1.00	Dec			6.68	9.06	0.330	3.96				19.70
Cane Wagon 5T Tran	5ton	93 hp	0.330	2.25	Dec	7.98	5.74	0.50	0.72	0.898	6.74				21.67
Cane Wagon 5T Tran	5ton	0	0.330	2.25	Dec			0.50	0.72						1.22
Transloader			0.250	0.33	Dec			1.49	2.12	0.091	0.68				4.29
Cane Truck & Trailer	30 tons		1.000	1.00	Dec			13.83	14.09	1.100	8.25				36.16
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Dec	0.78	0.49	0.13	0.14	0.097	1.16				2.70
TOTALS						9.60	6.65	40.08	41.83	3.082	26.77			0.00	124.93
INTEREST ON OPERATING CAPITAL															6.37
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															131.30

Table 18.A Estimated costs per acre -- Sugarcane, harvesting millable sugarcane green, chopper harvester, direct haul to mill, 10-ton billet wagons, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	2.7225	20.42	_____
OWNER LABOR					
Tractors	hour	12.00	0.0968	1.16	_____
Self-Propelled Eq.	hour	12.00	0.5500	6.60	_____
DIESEL FUEL					
Tractors	gal	0.85	20.4171	17.35	_____
Self-Propelled Eq.	gal	0.85	4.5000	3.83	_____
REPAIR & MAINTENANCE					
Implements	acre	18.88	1.0000	18.88	_____
Tractors	acre	17.61	1.0000	17.61	_____
Self-Propelled Eq.	acre	22.13	1.0000	22.13	_____
INTEREST ON OP. CAP.	acre	0.90	1.0000	0.90	_____

TOTAL DIRECT EXPENSES				108.88	_____
FIXED EXPENSES					
Implements	acre	22.28	1.0000	22.28	_____
Tractors	acre	25.84	1.0000	25.84	_____
Self-Propelled Eq.	acre	22.09	1.0000	22.09	_____

TOTAL FIXED EXPENSES				70.21	_____

TOTAL SPECIFIED EXPENSES				179.10	_____

Table 18.B Estimated resource use and costs per acre for field operations -- Sugarcane, harvesting millable sugarcane green, chopper harvester, direct haul to mill, 10-ton billet wagons, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Chopper Harvester	6 ft.		0.500	1.00	Dec			25.95	22.09	0.550	6.60				54.64
Cane Wagon Billet	10 ton	143 hp	1.000	2.25	Dec	34.19	25.35	9.38	11.07	2.723	20.42				100.41
Cane Wagon Billet	10 ton	0	1.000	2.25	Dec			9.38	11.07						20.45
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Dec	0.78	0.49	0.13	0.14	0.097	1.16				2.70
TOTALS						34.97	25.84	44.84	44.37	3.369	28.18			0.00	178.20
INTEREST ON OPERATING CAPITAL															0.90
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															179.10

Table 19.A Estimated costs per acre -- Sugarcane, harvesting millable sugarcane green, chopper harvester, transferred from 10-ton high dump billet wagons to truck, all soils, Louisiana 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
OPERATOR LABOR					
Tractors	hour	7.50	1.1979	8.98	_____
Self-Propelled Eq.	hour	7.50	1.1000	8.25	_____
OWNER LABOR					
Tractors	hour	12.00	0.0968	1.16	_____
Self-Propelled Eq.	hour	12.00	0.5500	6.60	_____
DIESEL FUEL					
Tractors	gal	0.85	7.7748	6.61	_____
Self-Propelled Eq.	gal	0.85	11.5000	9.78	_____
REPAIR & MAINTENANCE					
Implements	acre	9.62	1.0000	9.62	_____
Tractors	acre	7.82	1.0000	7.82	_____
Self-Propelled Eq.	acre	30.00	1.0000	30.00	_____
INTEREST ON OP. CAP.	acre	0.74	1.0000	0.74	_____

TOTAL DIRECT EXPENSES				89.57	_____
FIXED EXPENSES					
Implements	acre	7.61	1.0000	7.61	_____
Tractors	acre	10.85	1.0000	10.85	_____
Self-Propelled Eq.	acre	36.18	1.0000	36.18	_____

TOTAL FIXED EXPENSES				54.63	_____

TOTAL SPECIFIED EXPENSES				144.20	_____

Table 19.B Estimated resource use and costs per acre for field operations -- Sugarcane, harvesting millable sugarcane green, chopper harvester, transferred from 10-ton high dump billet wagons to truck, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Chopper Harvester	6 ft.		0.500	1.00	Dec			25.95	22.09	0.550	6.60				54.64
Cane Wagon Billet HD	10 ton	118 hp	0.330	2.00	Dec	9.10	6.90	6.33	4.98	0.799	5.99				33.30
Cane Wagon Billet HD	10 ton	118 hp	0.330	1.00	Dec	4.55	3.45	3.16	2.49	0.399	2.99				16.65
Drain Cleaner	6 ft	68hp MDR	0.080	1.00	Dec	0.78	0.49	0.13	0.14	0.097	1.16				2.70
Cane Truck & Trailer	30 tons		1.000	1.00	Dec			13.83	14.09	1.100	8.25				36.16
TOTALS						14.43	10.85	49.40	43.78	2.945	25.00			0.00	143.46
INTEREST ON OPERATING CAPITAL															0.74
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															144.20

Table 20.A Estimated costs per acre -- Sugarcane, overhead and administrative costs, all soils, Louisiana 1997.

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.	6.00	0.6700	4.02	_____
Utilities	dol.	1.00	2.8080	2.81	_____
HERBICIDES					
MSMA 6#	gal.	17.00	0.0125	0.21	_____
2,4-D Amine	qt.	2.94	0.0025	0.01	_____
OPERATOR LABOR					
Tractors	hour	7.50	0.2042	1.53	_____
Self-Propelled Eq.	hour	7.50	1.6800	12.60	_____
Shop bldg. & equip.	hour	7.50	0.5777	4.33	_____
DIESEL FUEL					
Tractors	gal	0.85	0.9481	0.81	_____
GASOLINE					
Self-Propelled Eq.	gal	1.20	4.2000	5.04	_____
REPAIR & MAINTENANCE					
Implements	acre	0.50	1.0000	0.50	_____
Tractors	acre	0.91	1.0000	0.91	_____
Self-Propelled Eq.	acre	2.84	1.0000	2.84	_____
Shop bldg. & equip.	acre	2.98	0.9960	2.97	_____
INTEREST ON OP. CAP.	acre	2.54	1.0000	2.54	_____

TOTAL DIRECT EXPENSES				42.68	_____
FIXED EXPENSES					
Implements	acre	0.68	1.0000	0.68	_____
Tractors	acre	1.15	1.0000	1.15	_____
Self-Propelled Eq.	acre	6.78	1.0000	6.78	_____
Shop bldg. & equip.	acre	2.51	1.0000	2.51	_____

TOTAL FIXED EXPENSES				11.12	_____

TOTAL SPECIFIED EXPENSES				53.80	_____

Table 20.B Estimated resource use and costs per acre for field operations -- Sugarcane, overhead and administrative costs, all soils, Louisiana 1997.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	OPERATING INPUT COST	TOTAL COST
						dollars					dollars			dollars	
Farmstead & drainage	dol.			1.00	Jan							1.5700	1.00	1.57	1.57
Other labor	hr.											0.6700	6.00	4.02	4.02
Rotary Ditcher	6 ft	118 hp	0.250	0.05	Jan	0.17	0.13	0.12	0.15	0.015	0.11				0.69
Blade	8 ft	93 hp	0.880	0.08	Jan	0.76	0.54	0.10	0.19	0.085	0.64				2.23
Pickup Truck	½ ton		1.000	0.14	Jan			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Jan			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	½ ton		1.000	0.14	Feb			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Feb			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	½ ton		1.000	0.14	Mar			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Mar			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Rotary Mower	6.7 ft	68 hp	0.250	0.08	Mar	0.15	0.08	0.01	0.04	0.022	0.17				0.45
Mower Sickle	7 ft	68 hp	0.340	0.05	Mar	0.14	0.08	0.06	0.05	0.021	0.15				0.48
Pickup Truck	½ ton		1.000	0.14	Apr			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Apr			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	½ ton		1.000	0.14	May			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	May			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	½ ton		1.000	0.14	Jun			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Jun			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Rotary Ditcher	6 ft	118 hp	0.250	0.05	Jun	0.17	0.13	0.12	0.15	0.015	0.11				0.69
Rotary Mower	6.7 ft	68 hp	0.250	0.08	Jun	0.15	0.08	0.01	0.04	0.022	0.17				0.45
Mower Sickle	7 ft	68 hp	0.340	0.05	Jun	0.14	0.08	0.06	0.05	0.021	0.15				0.48
Pickup Truck	½ ton		1.000	0.14	Jul			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Jul			0.25	0.21	0.048	0.36	0.0830			0.82
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	0.01	0.004	0.03				0.09
MSMA 6#	gal.											0.0125	17.00	0.21	0.21
2,4-D Amine	qt.											0.0025	2.94	0.01	0.01
Pickup Truck	½ ton		1.000	0.14	Aug			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Aug			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	½ ton		1.000	0.14	Sep			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Sep			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	½ ton		1.000	0.14	Oct			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Oct			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	½ ton		1.000	0.14	Nov			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Nov			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
Pickup Truck	½ ton		1.000	0.14	Dec			0.66	0.56	0.140	1.05				2.27
Shop bldg. & equip.	acre			1.00	Dec			0.25	0.21	0.048	0.36	0.0830			0.82
Utilities	dol.											0.2340	1.00	0.23	0.23
TOTALS						1.71	1.15	11.34	9.97	2.462	18.46			8.62	51.26
INTEREST ON OPERATING CAPITAL															2.54
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															53.80

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, seedbed preparation, planting cultured seedcane, cutting and planting seed cane (field run or propagated seed), 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 800 acre sugarcane farm which employs new 3-row equipment and has implemented a cultured seedcane program. The illustration assumes the standard rotation scheme presented in Table 2. Its structure contains 25 percent plantcane, 25 percent first stubble, 25 percent second stubble and 25 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, 5, 8, 9, 11, 12, 13, 15, and 20.

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 21.0 cents per pound and a molasses price of 38.0 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 Operations	69.31	200.0	13,862.00
Seedbed Preparation	75.49	200.0	15,098.00
Planting Cultured Seedcane	691.38	6.5	4,480.14
Planting Propagated Seedcane	153.69	193.6	29,754.38
Plant Cane Field Operations	190.00	200.0	38,000.00
1st Stubble Field Operations	171.12	200.0	34,224.00
2nd Stubble Field Operations	191.23	200.0	38,246.00
Harvest for Sugar	123.56	561.3	69,351.76
Overhead	53.80	800.0	43,040.00
Total Specified Expenses			286,056.28

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	27.0	200	54.00	161.3	8,709
1st Stubble	26.0	200	52.00	200.0	10,400
2nd Stubble	24.0	200	48.00	200.0	9,600
Total					28,709

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	8,709	2.9	25,256
1st Stubble	10,400	2.9	30,160
2nd Stubble	9,600	2.9	27,840
Total			83,256

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	28,709	(11,197)	(3,502)	14,010

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	31,637	(18,316)	(2,664)	10,657

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 mill hauling rebate, the molasses bonus, and subtracting the market service fee and American Sugar Cane League checkoff.

Commodity	Unit	Quantity	Unit Price	Net Returns to Cover Costs
Sugar	cwt.	14,010	21.00	294,211
Hauling rebate	tons	14,355	1.50	21,532
Molasses bonus	gal.	28,044	0.38	10,657
Market service fee	cwt.	14,010	-0.2475	(3,467)
ASCL checkoff	tons	14,355	-0.10	(1,435)
Total				321,497

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)
286,056	800	357.57

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)	(dolars/lb)
286,056	(10,657)	(21,532)	253,868	1,401,005	0.181

Appendix Table 1. Estimated fuel prices, labor wage rates, and interest rates, Louisiana, 1997.

ITEM NAME	UNIT	PRICE
		(dollars)
FUEL TYPES		
Diesel Fuel	gal	0.85
Electricity	kWh	0.09
Gasoline	gal	1.20
LP Gas	cu ft	0.65
Natural Gas	cu ft	4.25
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, 1997.

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 Truck	0	10	400	54,000	70	4.50	13.28	16.90
Double Hitch	0	10	1000	0	100	0.00	0.00	0.00
Tractor a 15-30 hp	22 hp	16	625	11,300	170	1.60	3.84	1.65
Tractor b 31-55 hp	43 hp	16	625	17,500	159	2.70	5.08	2.56
Tractor c 56-80 hp	68 hp	16	625	28,500	138	4.20	7.50	4.17
Tractor d 81-105 hp	93 hp	16	625	42,300	108	5.40	9.77	7.02
Tractor e 106-130 hp	118 hp	16	625	65,000	104	6.80	12.54	9.51
Tractor f 131-155 hp	143 hp	16	625	70,000	99	8.10	13.82	10.24
Tractor g 156-180 hp	168 hp	16	625	81,000	95	9.60	15.86	11.85
Tractor h Small 4WD	225 hp	16	625	90,000	96	10.80	17.82	13.17
Tractor I Large 4WD	300 hp	16	625	107,000	96	14.40	22.51	15.66
Tractor j 56-80 MDR	68 hp	16	625	38,000	138	4.20	8.81	5.56
Tractor k 81-105 MDR	93 hp	16	625	50,600	138	5.40	11.57	7.40

MDR 4WD Mudder Tractor

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, 1997.

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	0.67	15	400	105,000	142	6.80	30.63	20.52	24.99	16.74
2 Row Cane Harvester	12 ft	0.35	15	400	175,000	142	7.40	47.71	16.70	41.65	14.58
2 Ton Truck	2 ton	1.00	6	400	30,000	50	3.70	10.69	10.69	13.89	13.89
5 Ton Truck	5 ton	1.00	6	400	32,000	50	5.00	12.67	12.67	14.82	14.82
Cane Truck & Trailer	30 ton	1.00	10	400	45,000	70	7.00	13.83	13.83	14.09	14.09
Chopper Harvester	6 ft	0.50	15	400	187,000	142	9.00	51.91	25.95	44.18	22.09
Combine Double Crop	20 ft	0.25	5	400	125,000	90	7.10	51.04	12.76	63.80	13.45
Combine Large	20 Ft	0.21	10	250	155,000	75	8.60	53.81	11.30	77.62	16.30
Combine Medium	20 ft	0.25	10	250	125,000	75	7.10	43.54	10.88	62.60	15.65
Combine Small	16 Ft	0.31	10	250	105,000	75	5.20	35.92	11.14	52.58	16.30
Pickup Truck	½ ton	1.00	5	800	15,000	45	2.50	4.69	4.69	4.04	4.04
SP Cane Loader 2 row	12 Ft	0.30	10	425	102,500	73	5.50	22.28	6.68	30.20	9.06
SP Cane Loader 1 row	6 Ft	0.60	10	425	55,000	73	4.10	12.93	7.76	16.20	9.72
SP High Sprayer	60 ft	0.02	7	150	55,000	90	2.90	49.61	0.99	60.05	1.20
Transloader		0.25	12	120	28,000	72	4.80	18.08	4.52	25.71	6.43
Truck	5 ton	1.00	10	400	37,000	1	3.70	3.24	3.24	11.58	11.58

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, 1996.

ITEM NAME	SIZE	PERF RATE	USEFUL LIFE	ANNUAL USE	PURCHASE PRICE	REPAIR COST	--DIRECT COST--		--FIXED COST--	
		hrs/ac	years	hours	dollars	percent	$/hr	$/ac	$/hr	$/ac
3 Row (Cover)	18 ft	0.20	9	200	9,900	80	4.40	0.88	6.69	1.34
3 Row (Hipper)	18 ft	0.15	9	200	10,000	98	5.44	0.82	6.76	1.01
3 Row (Marker)	18 ft	0.15	9	200	8,000	80	3.56	0.53	5.41	0.81
3 Row Plow	18 ft	0.20	9	200	10,000	98	5.44	1.09	6.76	1.35
Anhydrous Appl.	18 ft	0.17	5	150	3,000	85	3.40	0.58	4.30	0.73
Blade	8 ft	0.88	12	100	2,500	66	1.38	1.21	2.76	2.42
Boom Sprayer	30 ft	0.06	10	150	2,000	110	1.47	0.09	1.67	0.10
Burning Unit	18 ft	0.15	6	85	1,300	65	1.66	0.25	2.83	0.42
Cane Wagon 10 Tons	10 ton	1.00	9	400	7,500	100	2.08	2.08	2.54	2.54
Cane Wagon 10T Tran	10 ton	0.33	15	400	7,800	100	1.30	0.43	1.86	0.61
Cane Wagon 5 Ton	5 ton	0.33	15	400	4,050	200	1.35	0.45	0.96	0.32
Cane Wagon Billet	10 ton	1.00	9	400	15,000	100	4.17	4.17	4.92	4.92
Cane Wagon Billet HD	10 ton	0.33	9	400	23,000	150	9.58	3.16	7.55	2.49
Chisel Plow	13 ft	0.22	6	200	4,700	88	3.45	0.76	4.35	0.96
Chisel Plow	20 ft	0.14	6	200	6,600	41	2.26	0.32	6.11	0.86
Chopper/Offbar	18 ft	0.19	15	150	3,780	65	1.09	0.21	2.40	0.46
Chopper/Fert Rig	18 ft	0.18	7	150	6,000	88	5.03	0.91	6.55	1.18
Conditioner	6 row	0.09	6	200	6,500	88	4.77	0.43	6.02	0.54
Cultimulcher	12 ft	0.11	15	120	5,400	88	2.64	0.29	4.28	0.47
Cultivate + Post	6 row	0.11	10	200	8,000	88	3.52	0.39	5.01	0.55
Cultivator	6 row	0.10	10	200	6,000	88	2.64	0.26	3.76	0.38
Cultivator 30"	6 row	0.14	10	200	5,000	88	2.20	0.31	3.13	0.44
Custom Applicator		0.10	1	1	0	1	0.00	0.00	0.00	0.00
Disk	13 ft	0.15	10	200	6,800	88	2.99	0.45	4.26	0.64
Disk	20 ft	0.10	10	200	15,500	88	6.82	0.68	9.70	0.97
Disk	26 ft	0.07	10	200	19,500	88	8.58	0.60	12.21	0.85
Disk + Pre	6 row	0.10	10	200	15,000	88	6.60	0.66	9.39	0.94
Ditcher Side	6 ft	0.05	10	100	2,100	88	1.85	0.09	2.63	0.13
Drag	14 ft	0.13	8	200	700	88	0.39	0.05	0.52	0.07
Drain Cleaner	6 ft	0.08	9	300	3,752	120	1.67	0.13	1.69	0.14
Dry Fert Appl	18 ft	0.10	5	100	3,120	80	4.99	0.50	6.71	0.67
Fert Nurse Tank	18 ft	0.13	6	130	1,425	20	0.37	0.05	2.03	0.26
Fertilizer App.	20 ft	0.00	10	200	1	0	0.00	0.00	0.00	0.00
Fertilizer Buggy	30 ft	0.00	10	150	1	0	0.00	0.00	0.00	0.00
Fertilizer Buggy	30 ft	0.06	10	150	5,500	88	3.23	0.19	4.59	0.28
Field Cultivator	20 ft	0.08	10	200	7,000	88	3.08	0.25	4.38	0.35
Field Cultivator	32 ft	0.06	10	200	12,000	88	5.28	0.32	7.51	0.45
Field Cut + Pre	20 ft	0.07	10	200	9,000	88	3.96	0.28	5.63	0.39
Field Cut + Pre	32 ft	0.09	10	200	14,000	88	6.16	0.55	8.76	0.79
Flat Roller	18 ft	0.19	9	75	1,200	120	2.13	0.41	2.16	0.41
Flat Roller	6 ft	0.56	9	125	540	120	0.58	0.32	0.58	0.33
Grain Cart	350 bu.	1.00	15	175	7,500	71	2.03	2.03	4.08	4.08
Grain Drill	13 ft	0.20	8	200	7,300	77	3.51	0.70	5.39	1.08
Grain Drill	20 ft	0.06	8	200	11,000	77	5.29	0.32	8.12	0.49
Harrow	2 row	0.14	10	200	400	88	0.18	0.02	0.25	0.04
Hipper	20 ft	0.09	6	200	5,700	88	4.18	0.38	5.28	0.48
Hipper	6 row	0.09	6	200	5,700	88	4.18	0.38	5.28	0.48
Hipper + Fert	6 row	0.11	10	200	7,200	88	3.17	0.35	4.51	0.50
Land Plane	15 ft	0.30	15	200	7,500	66	1.65	0.49	3.57	1.07
Lilliston Cult	20 ft	0.14	10	250	6,300	88	2.22	0.31	3.16	0.44
Liquid Fert Apl	18 ft	0.13	10	130	5,000	100	3.85	0.50	4.82	0.63
Mech. Planter	6 ft	1.12	9	160	11,000	80	6.11	6.84	9.30	10.41
Middle Buster	18 ft	0.21	9	100	1,600	65	1.16	0.24	2.16	0.45
Moldboard 12 bot	18 ft	0.15	15	150	11,000	150	7.33	1.10	6.98	1.05
Moldboard 4 bot	6 ft	0.28	15	200	1,500	100	0.50	0.14	0.71	0.20
Mower Sickle	7 ft	0.34	10	150	3,200	176	3.75	1.28	2.67	0.91
Mtd Cane Loader	6 ft	0.50	9	330	13,500	60	2.73	1.36	5.53	2.77
Planter	6 row	0.08	8	200	13,500	77	6.50	0.52	9.97	0.80
Planter + Pre	6 row	0.11	8	200	15,500	77	7.46	0.82	11.45	1.26
Planter 30"	6 row	0.14	8	200	12,500	77	6.02	0.84	9.23	1.29
Planters Aid	6 ft	3.00	13	270	3,000	84	0.72	2.15	1.16	3.48
Ripper-Hipper	4 row	0.16	10	200	6,000	88	2.64	0.42	3.76	0.60
Rotary Ditcher	6 ft	0.25	10	100	9,700	100	9.70	2.43	12.14	3.04
Rotary Hoe	18 ft	0.08	12	75	4,500	103	5.15	0.41	6.61	0.53
Rotary Mower	6.7 ft	0.25	10	150	2,500	44	0.73	0.18	2.09	0.52
Rototiller	18 ft	0.19	10	150	18,000	120	14.40	3.17	15.02	3.31
Row Marker	12 ft	0.33	9	130	300	120	0.31	0.10	0.31	0.10
Row Marker	18 ft	0.21	9	130	465	120	0.48	0.10	0.48	0.10
Row Opener	18 ft	0.22	8	150	450	120	0.45	0.10	0.44	0.10
Row Opener	6 ft	0.65	8	150	151	120	0.15	0.10	0.15	0.10
Shaver	3 row	0.08	12	80	9,500	50	4.95	0.40	13.09	1.05
Spike Harrow	18 ft	0.10	10	200	1,500	88	0.66	0.07	0.94	0.09

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, 1996. (Continued)

ITEM NAME	SIZE	PERF RATE	USEFUL LIFE	ANNUAL USE	PURCHASE PRICE	REPAIR COST	--DIRECT COST--		--FIXED COST--	
		hrs/ac	years	hours	dollars	percent	$/hr	$/ac	$/hr	$/ac
Sprayer/Lilliston	20 ft	0.14	10	200	7,175	95	3.41	0.48	4.49	0.63
Springtooth	20 ft	0.11	13	150	2,625	132	1.78	0.20	1.83	0.20
Subsoiler	1 shank	0.75	15	100	705	100	0.47	0.35	0.67	0.50
Subsoiler	2 shank	0.61	15	100	1,350	95	0.86	0.52	1.29	0.78
Subsoiler	3 shank	0.30	15	100	1,700	100	1.13	0.34	1.62	0.49
Tractor Blade	6 ft	1.00	15	100	400	137	0.37	0.37	0.38	0.38
Tractor Spreader	20 ft.	0.11	10	150	700	88	0.41	0.05	0.58	0.06
Tractor Trailer Rig	25 tons	1.00	15	400	17,000	120	3.40	3.40	4.05	4.05
Trailer Utility	10 ft	1.00	15	200	3,000	35	0.35	0.35	1.43	1.43

Appendix Table 5. Operating inputs: estimated prices Louisiana, 1997.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
ACCT & FARMSTD		Dollars	Lexone DF	lbs.	24.90
Farmstead & drainage	dol.	1.00	MSMA 6#	gal.	17.00
Insurance	dol.	1.00	Poast 1.5L	pt.	12.56
Other labor	hr.	6.00			
Other overhead	dol.	1.00	Prowl	gal.	24.90
Overhead	acre	46.76	Roundup d pack	gal.	61.00
Utilities	dol.	1.00	Roundup Ultra	gal.	61.00
CUSTOM			Sencor (4L)	gal.	141.80
Airplane Hi-Vol	acre	5.35	Sinbar	lbs.	22.90
Airplane Lo-Vol	acre	3.15	Surfactant	gal.	10.75
Fert. Applicator	acre	0.00	Treflan (4L)	gal.	30.00
Lime Spreader	acre	5.00	Weedmaster	gal.	26.30
Storage Soybean	bu.	0.30	INSECTICIDES		
Truck/trailer	24 t	0.00	Asana XL	oz.	0.94
FERTILIZER			Baythroid	oz.	3.01
18-6-12	cwt	9.53	Furadan 4L	gal.	64.00
Lime	ton	32.00	Guthion (2L)	gal.	28.60
Nitrogen	lbs.	0.26	Thimet	Lb.	1.90
Nitrogen (32%)	cwt	7.45	OTHER		
Nitrogen (45%)	cwt	11.37	Benlate DF	lbs.	15.80
Nitrogen (82%)	cwt	15.57	Heat Treat Labor	hr.	7.50
Phosphate	lbs.	0.21	Planting Labor	hr.	7.50
Phosphate (P2O5)	cwt	21.00	Treating Charge	acre	0.00
Potash	lbs.	0.12	RIPENER		
Potash (K2O)	cwt	12.00	Polado	oz.	0.74
HERBICIDES			SEED		
2,4-D Amine	qt.	2.94	Cultured Seed Cane	acre	435.00
Asulox	gal.	53.30	Heat Treatment-Seed	acre	34.15
Atrazine (4L)	gal.	10.80	PLT Cane River	.2ac	0.00
Attrex (90DF)	lb.	2.80	PLT Cane Teche	.2ac	0.00
Basagran 4L	pt.	8.29	Propagt'd cltrd seed	acre	0.00
Dual 8E	pt.	7.75	Sorghum Seed	lbs.	1.06
Karmex 80% WP	lbs.	4.15	Soybean Seed	lbs.	0.31