

IICA
PM-A2/JM-
91-02

IICA



COST OF PRODUCTION
OF
FOOD CROPS

ST. JAMES

FARM MANAGEMENT SECTION

MINAG-IICA

July 1991

IICA OFFICE IN JAMAICA

WHAT IS IICA?

The Inter-American Institute for Cooperation on Agriculture (IICA) is the specialized agency for agriculture of the inter-American system. The Institute was founded on October 7, 1942 when the Council of Directors of the Pan American Union approved the creation of the Inter-American Institute of Agricultural Sciences.

IICA was founded as an institution for agricultural research and graduate training in tropical agriculture. In response to changing needs in the hemisphere, the Institute gradually evolved into an agency for technical cooperation and institutional strengthening in the field of agriculture. These changes were officially recognized through the ratification of a new Convention on December 8, 1980. The Institute's purposes under the new Convention are to encourage, facilitate and support cooperation among the 32 Member States, so as to better promote agricultural development and rural well-being.

With its broader and more flexible mandate and a new structure to facilitate direct participation by the Member States in activities of the Inter-American Board of Agriculture and the Executive Committee, the Institute now has a geographic reach that allows it to respond to needs for technical cooperation in all of its Member States.

The contributions provided by the Member States and the ties IICA maintains with its twelve Permanent Observer Countries and numerous international organizations provide the Institute with channels to direct its human and financial resources in support of agricultural development throughout the Americas.

The 1987-1991 Medium Term Plan, the policy document that sets IICA's priorities, stresses the reactivation of the agricultural sector as the key to economic growth. In support of this policy, the Institute is placing special emphasis on the support and promotion of actions to modernize agricultural technology and strengthen the processes of regional and subregional integration.

In order to attain these goals, the Institute is concentrating its actions on the following five programs: Agricultural Policy Analysis and Planning; Technology Generation and Transfer; Organization and Management for Rural Development; Marketing and Agroindustry; and Animal Health and Plant Protection.

These fields of action reflect the needs and priorities established by the Member States and delimit the areas in which IICA concentrates its efforts and technical capacity. They are the focus of IICA's human and financial resource allocations and shape its relationship with other international organizations.

The Member States of IICA are: Antigua and Barbuda, Argentina, Barbados, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Dominica, the Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, the United States of America, Uruguay and Venezuela.

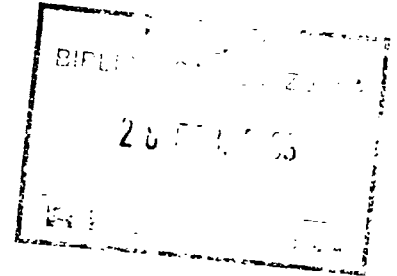
The Permanent Observer Countries of IICA are: Arab Republic of Egypt, Austria, Belgium, Federal Republic of Germany, France, Israel, Italy, Japan, Netherlands, Portugal, Republic of Korea and Spain.

ISSN-0534-5391
A2/JM-91-002

IICA



**COST OF PRODUCTION
OF
FOOD CROPS**



ST. JAMES

FARM MANAGEMENT SECTION

MINAG-IICA

July 1991

00008354

~~00000920~~

**MISCELLANEOUS PUBLICATIONS
SERIES**

**ISSN-0534-5391
A2/JM-91-002**

Kingston, Jamaica
July, 1991

The views expressed in signed articles are those of the authors
and do not necessarily reflect those of the Inter-American
Institute for Cooperation on Agriculture

INDEX

	Page
Introduction	1
Definition of terms used	2
Graphs	
Return for food crops	3
Cost components for food crops	4
Rate of return for food crops	5
Yield for food crops	6
Cost of production tables	
Callaloo	7
Negro Yam	9
Ordinary Corn	11
Renta Yam	13
Sorrel	15
Sweet Yam	17
Tomato	19
Yellow Yam	21

INTRODUCTION

PURPOSE OF SURVEY

The Cost of Production survey for cash crops was the outcome of joint efforts between the Ministry of Agriculture Farm Management Section (MINAG-FMS), Ministry of Agriculture Data Bank and Evaluation Division and the Inter-American Institute for Cooperation on Agriculture (IICA). The purpose of the survey was to generate cost of production of the main crops by parish and to refine the cost of production data collection methodology.

SURVEY METHODOLOGY

Data was collected for the ten main annual crops in each Parish. The farm sample consisted mainly of small farmers with highly labour intensive technology. The sample average farm size was less than nine acres for most of the crops and the average area planted with the crop varied between two squares for some vegetables to about one acre in some root crops and pumpkin.

PROCESSING THE SURVEY DATA

After completing the enumeration exercise in January, 1989, the information was processed by MINAG-Data Bank. The survey technical coefficients for the different labour operations and inputs derived from the survey data were analyzed in collaboration with extension personnel from the Rural Agricultural Development Authority (RADA).

The labour operations and inputs which have been used reflect the operations and inputs used by the majority of the farmers included in the sample. Operations reported by 2 or 3 farmers only were not included. The prices used in the estimation of cost and returns have been updated using 1990 values.

Prices of labour and inputs change more rapidly than technology. Relative returns between crops are more stable. Major changes in relative prices would have to take place to affect the ranking of crops in terms of returns. The same can be said with respect to the relative requirements of labour and inputs between crops. A comparative graphical analysis between crops is included to facilitate the interpretation and use of cost and income data.

Obtaining and processing the survey data were affected by many factors and as a result an improved methodology for data collection was developed. Survey labour and inputs

estimated coefficients not always reflected farm conditions and in these cases adjustments were necessary.

AIM OF THIS PUBLICATION

The data presented in this publication can be improved further but at the expense of delays in the release of the information to you. However, we hope that you will find the information useful bearing in mind that some coefficients may require further adjustment.

Please, write or contact us if you have a better estimate for some of the technical coefficients included in this publication. This will be an important help and stimulus to improve cost data in future publications.

DEFINITION OF TERMS USED

Gross Income: is the crop yield per acre times the farmgate price.

Cost of Production: is the sum of fixed plus variable costs incurred in the production of the crop.

Represents the value of all the resources that participate in the production process, including a return on the investment in land and capital and a return to farmer's labour.

Management Returns: income in excess of all costs.

Cash Costs: costs that involve a direct cash expenditure. In this publication we deal only with variable cash costs.

Cash Variable Costs: cost of labour and inputs used in the production and harvesting of the crop. The cash costs do not include the interest on the cash used in the production process (return on investment in operating capital).

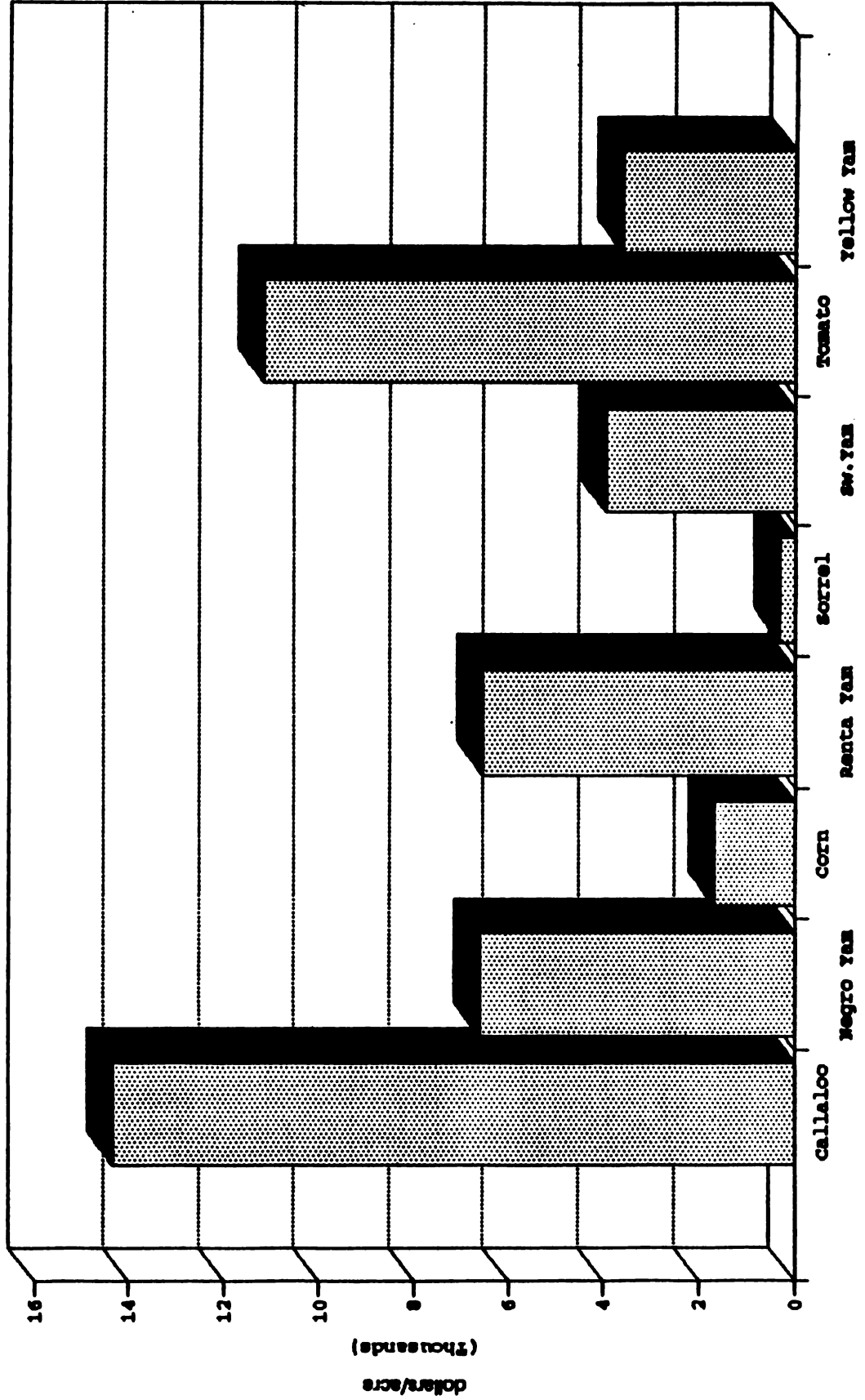
Fixed Costs: costs that will occur regardless of the level of production. They generally include depreciation and interest on investment in machinery, equipment, buildings, breeding livestock, and return on investment in land plus cash expenditures in insurance, administration expenses and taxes. The total amount of fixed cost depends on each farm total assets and is dependent on farm size.

Return to Farmer's Capital and Management: is gross income minus cash variable costs.

RETURN for FOOD CROPS

(Gross Inc. minus Cash Var. Cost)

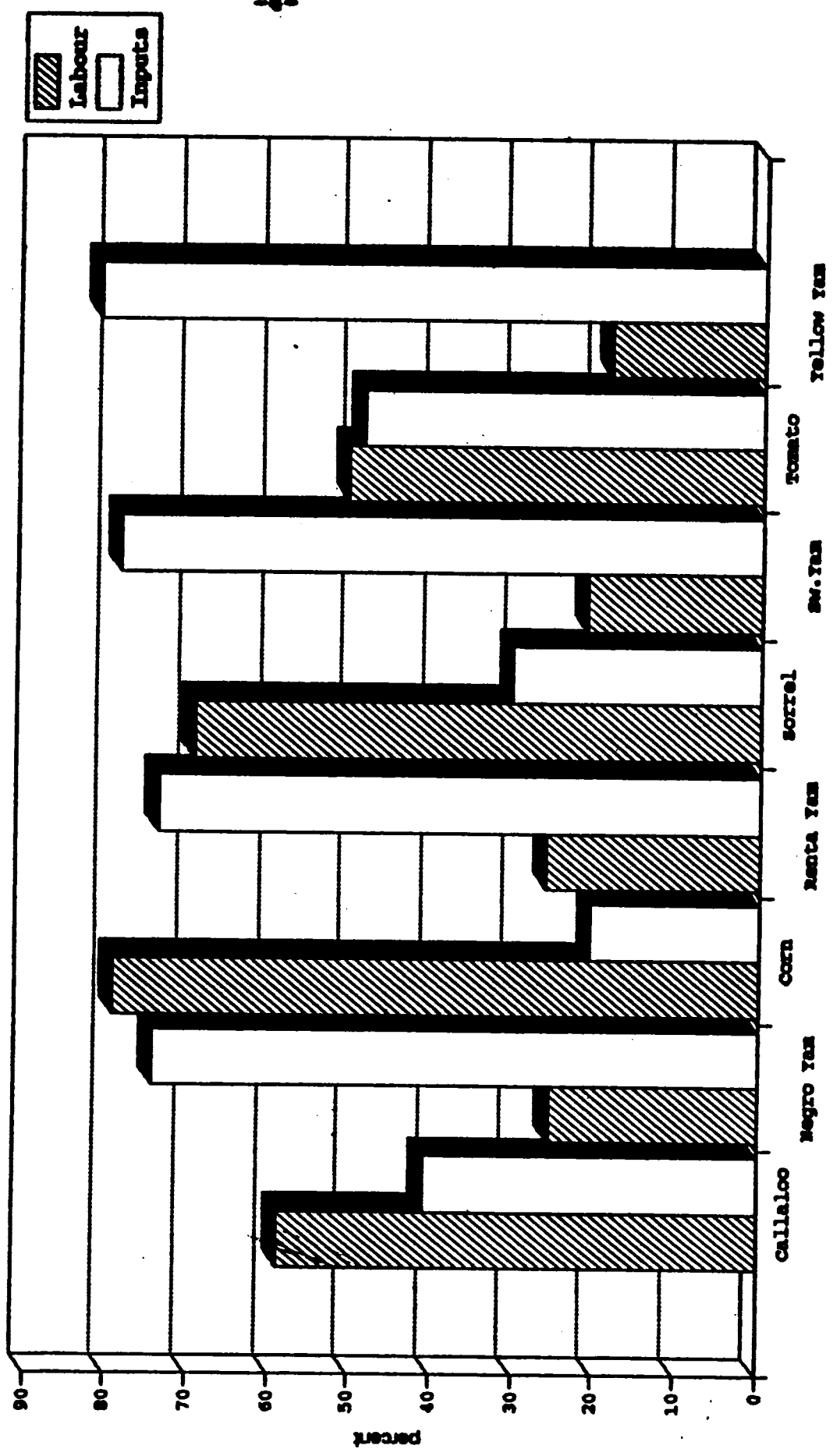
ST. JAMES



COST COMPONENTS for FOOD CROPS

(in percentage)

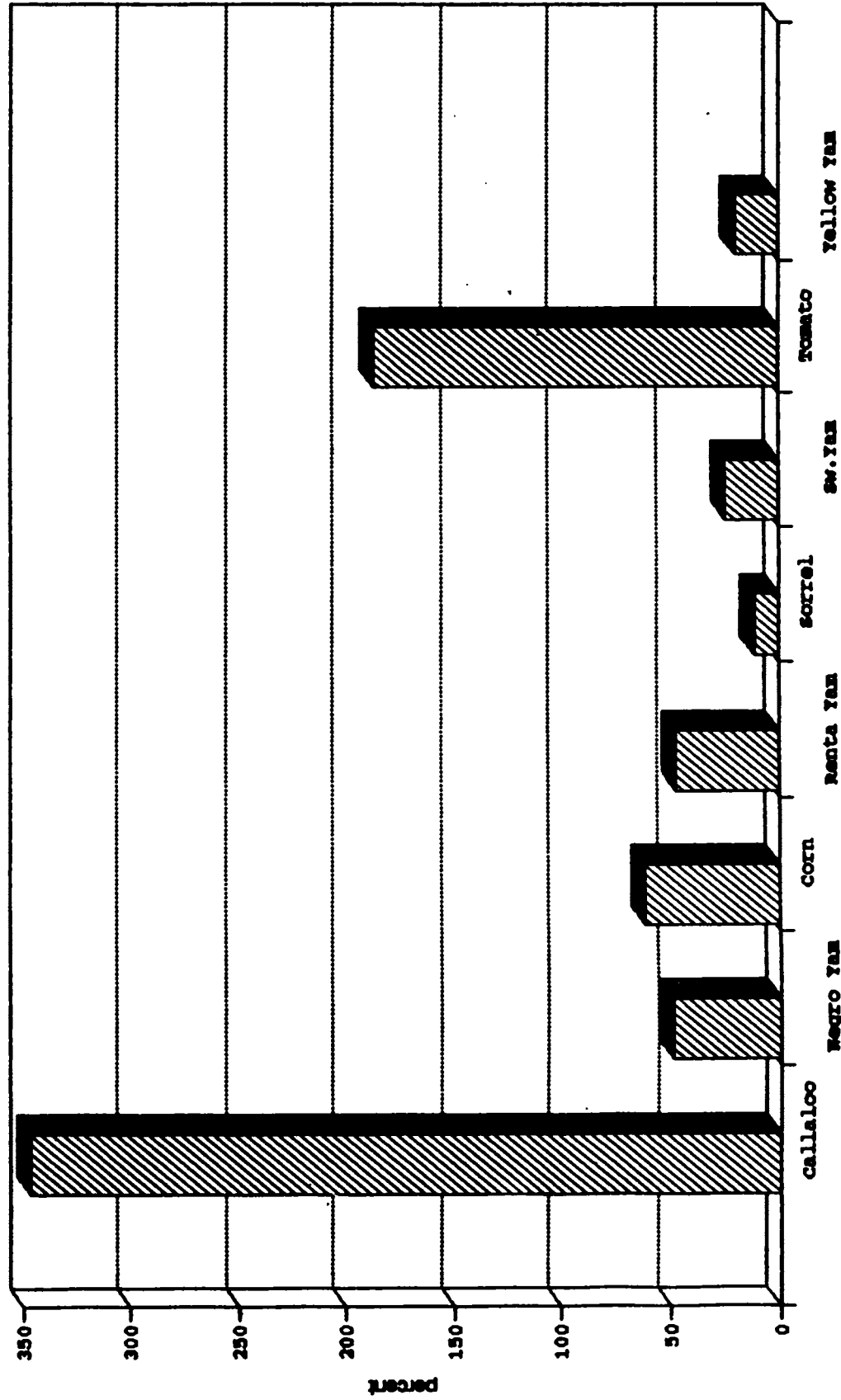
ST. JAMES



RATE of RETURN for FOOD CROPS

(% return on investment in var. cost)

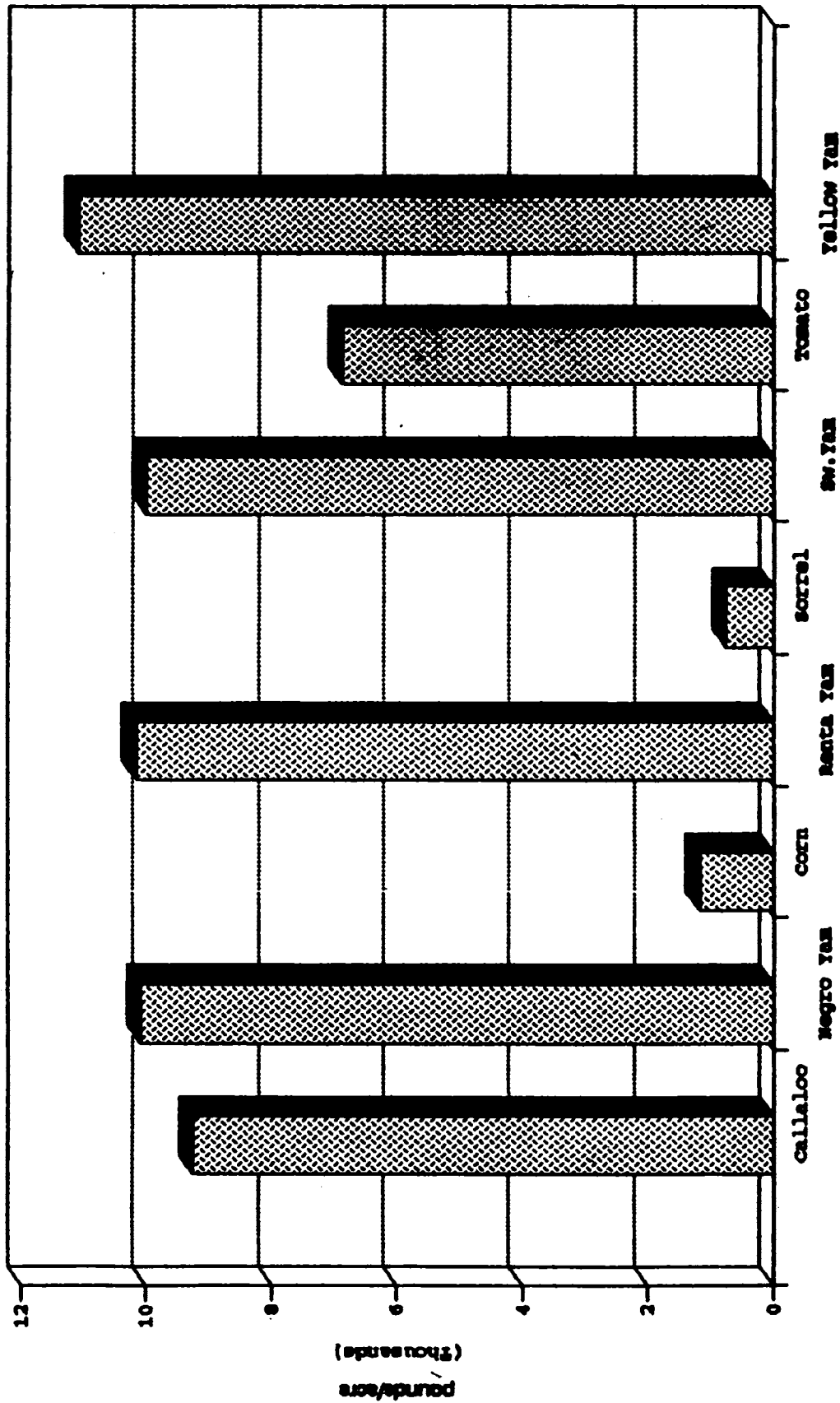
ST. JAMES



YIELD for FOOD CROPS

(pounds per acre)

ST. JAMES



COST OF PRODUCTION

AREA: 1 Acre

PARISH:

ST. JAMES

CROP:

CALLALOO

	UNIT	YIELD/ QUANTITY	PRICE	TOTAL
A. GROSS INCOME	LBS.	9240	\$2.00	\$18,480.00

VARIABLE COST

Labour Cost

Land Clearing	MAN DAYS	10	\$40.00	\$400.00
Forking	MAN DAYS	20	\$40.00	\$800.00
Refining				\$0.00
Trenching	MAN DAYS	10	\$40.00	\$400.00
Ridging				\$0.00
Lining				\$0.00
Prep.pl.material				\$0.00
Digging mounds				\$0.00
Digging holes				\$0.00
Heading plants				\$0.00
Planting(direct)				\$0.00
Nursery Charge	MAN DAYS	2	\$40.00	\$80.00
Planting(not direct)				\$0.00
Transplanting	MAN DAYS	4	\$40.00	\$160.00
Supplying				\$0.00
Herbicide Appl.				\$0.00
Weed and mould				\$0.00
Weeding	MAN DAYS	10	\$40.00	\$400.00
Fert.applic.	MAN DAYS	1	\$40.00	\$40.00
Spreading mulch				\$0.00
Staking and tying yam				\$0.00
Staking tomato				\$0.00
Pesticide Appl.	MAN DAYS	2	\$40.00	\$80.00
Irrigate field				\$0.00
Irrigate sprinkle				\$0.00
Harvesting	MAN DAYS	2	\$40.00	\$80.00

B. TOTAL LABOUR MAN DAYS 61 \$2,440.00

PARISH: ST. JAMES

CROP: CALLALOO

Input Cost	UNIT	QUANTITY	PRICE	TOTAL
Seeds	OUNCES	3	\$80.00	\$240.00
Heads				\$0.00
Cutting				\$0.00
Suckers				\$0.00
Seedlings				\$0.00
Sets				\$0.00
NPK(Mixed)	CWT	6	\$70.00	\$420.00
Ammonium Sulphate				\$0.00
Organic Manure				\$0.00
Acres of Mulch				\$0.00
Trucks of Mulch				\$0.00
Herb.Emul.conc.				\$0.00
Herb.wet.powder				\$0.00
Insect.emul.conc.	QUARTS	4	\$160.00	\$640.00
Insect.wet.powder				\$0.00
Fungic.emul.conc.				\$0.00
Fungic.wet.powder	LBS.	20	\$20.00	\$400.00
Stickers				\$0.00
Stakes				\$0.00
Slug Bait				\$0.00
 C. TOTAL INPUTS				 \$1,700.00 -----
 D. TOTAL VARIABLE COST (B+C)				 \$4,140.00 =====
 RETURN TO FARMER'S CAPITAL & MANAGEMENT				 \$14,340.00
 SUMMARY =====				
Gross Income				\$18,480.00
Total Labour				\$2,440.00
Total Inputs				\$1,700.00
Return (A-D)				\$14,340.00
 Cost Components				
Labour %				58.94
Input %				41.06
 Return on Investment in Cash Variable Cost				 346.38

COST OF PRODUCTION

AREA: 1 Acre

PARISH:

ST. JAMES

CROP:

NEGRO YAM

	UNIT	YIELD/ QUANTITY	PRICE	TOTAL
A. GROSS INCOME	LBS.	10060	\$2.00	\$20,120.00
VARIABLE COST				
Labour Cost				
Land Clearing	MAN DAYS	10	\$40.00	\$400.00
Forking				\$0.00
Refining				\$0.00
Trenching				\$0.00
Ridging				\$0.00
Lining				\$0.00
Prep.pl.material	MAN DAYS	2	\$40.00	\$80.00
Digging mounds	MAN DAYS	25	\$40.00	\$1,000.00
Digging holes				\$0.00
Heading plants	MAN DAYS	2	\$40.00	\$80.00
Planting(direct)	MAN DAYS	5	\$40.00	\$200.00
Nursery Charge				\$0.00
Planting(not direct)				\$0.00
Transplanting				\$0.00
Supplying				\$0.00
Herbicide Appl.				\$0.00
Weed and mould	MAN DAYS	20	\$40.00	\$800.00
Weeding				\$0.00
Fert.applic.	MAN DAYS	2	\$40.00	\$80.00
Spreading mulch				\$0.00
Staking and tying yam	MAN DAYS	10	\$40.00	\$400.00
Staking tomato				\$0.00
Pesticide Appl.				\$0.00
Irrigate field				\$0.00
Irrigate sprinkle				\$0.00
Harvesting	MAN DAYS	10	\$40.00	\$400.00
B. TOTAL LABOUR	MAN DAYS	86		\$3,440.00

PARISH: ST. JAMES

CROP: NEGRO YAM

Input Cost	UNIT	QUANTITY	PRICE	TOTAL
Seeds				\$0.00
Heads	LBS.	3000	\$2.50	\$7,500.00
Cutting				\$0.00
Suckers				\$0.00
Seedlings				\$0.00
Sets				\$0.00
NPK(Mixed)	CWT	8	\$70.00	\$560.00
Ammonium Sulphate				\$0.00
Organic Manure				\$0.00
Acres of Mulch				\$0.00
Trucks of Mulch				\$0.00
Herb.Emul.conc.				\$0.00
Herb.wet.powder				\$0.00
Insect.emul.conc.				\$0.00
Insect.wet.powder				\$0.00
Fungic.emul.conc.				\$0.00
Fungic.wet.powder				\$0.00
Stickers				\$0.00
Stakes	EACH	1000	\$2.00	\$2,000.00
Slug Bait				\$0.00
C. TOTAL INPUTS				\$10,060.00
D. TOTAL VARIABLE COST (B+C)				\$13,500.00
RETURN TO FARMER'S CAPITAL & MANAGEMENT				\$6,620.00
SUMMARY				
=====				
Gross Income				\$20,120.00
Total Labour				\$3,440.00
Total Inputs				\$10,060.00
Return (A-D)				\$6,620.00
Cost Components				
Labour %				25.48
Input %				74.52
Return on Investment in Cash Variable Cost				49.04

COST OF PRODUCTION

AREA: 1 Acre

PARISH:

ST. JAMES

CROP:

ORDINARY CORN

	UNIT	YIELD/ QUANTITY	PRICE	TOTAL
A. GROSS INCOME	LBS.	1158	\$3.80	\$4,400.40
VARIABLE COST				
Labour Cost				
Land Clearing	MAN DAYS	10	\$40.00	\$400.00
Forking				\$0.00
Refining				\$0.00
Trenching	MAN DAYS	5	\$40.00	\$200.00
Ridging				\$0.00
Lining				\$0.00
Prep.pl.material				\$0.00
Digging mounds				\$0.00
Digging holes	MAN DAYS	15	\$40.00	\$600.00
Heading plants				\$0.00
Planting(direct)	MAN DAYS	3	\$40.00	\$120.00
Nursery Charge				\$0.00
Planting(not direct)				\$0.00
Transplanting				\$0.00
Supplying				\$0.00
Herbicide Appl.				\$0.00
Weed and mould	MAN DAYS	10	\$40.00	\$400.00
Weeding				\$0.00
Fert.applic.	MAN DAYS	1	\$40.00	\$40.00
Spreading mulch				\$0.00
Staking and tying yam				\$0.00
Staking tomato				\$0.00
Pesticide Appl.	MAN DAYS	5	\$40.00	\$200.00
Irrigate field				\$0.00
Irrigate sprinkle				\$0.00
Harvesting	MAN DAYS	5	\$40.00	\$200.00
B. TOTAL LABOUR	MAN DAYS	54		\$2,160.00

PARISH: ST. JAMES
 CROP: ORDINARY CORN

Input Cost	UNIT	QUANTITY	PRICE	TOTAL
Seeds	LBS.	20	\$4.00	\$80.00
Heads				\$0.00
Cutting				\$0.00
Suckers				\$0.00
Seedlings				\$0.00
Sets				\$0.00
NPK(Mixed)	CWT	4	\$70.00	\$280.00
Ammonium Sulphate				\$0.00
Organic Manure				\$0.00
Acres of Mulch				\$0.00
Trucks of Mulch				\$0.00
Herb.Emul.conc.				\$0.00
Herb.wet.powder				\$0.00
Insect.emul.conc.				\$0.00
Insect.wet.powder	LBS	10	\$20.00	\$200.00
Fungic.emul.conc.				\$0.00
Fungic.wet.powder				\$0.00
Stickers				\$0.00
Stakes				\$0.00
Slug Bait				\$0.00
 C. TOTAL INPUTS				 \$560.00

D. TOTAL VARIABLE COST (B+C)				\$2,720.00
				=====
RETURN TO FARMER'S CAPITAL & MANAGEMENT				\$1,680.40
 SUMMARY				
=====				
Gross Income				\$4,400.40
Total Labour				\$2,160.00
Total Inputs				\$560.00
Return (A-D)				\$1,680.40
 Cost Components				
Labour %				79.41
Input %				20.59
Return on Investment in Cash Variable Cost				61.78

COST OF PRODUCTION

AREA: 1 Acre

PARISH:

ST. JAMES

CROP:

RENTA YAM

	UNIT	YIELD/ QUANTITY	PRICE	TOTAL
A. GROSS INCOME	LBS.	10145	\$2.00	\$20,290.00

VARIABLE COST

Labour Cost

Land Clearing	MAN DAYS	10	\$40.00	\$400.00
Forking				\$0.00
Refining				\$0.00
Trenching				\$0.00
Ridging				\$0.00
Lining				\$0.00
Prep.pl.material	MAN DAYS	5	\$40.00	\$200.00
Digging mounds	MAN DAYS	25	\$40.00	\$1,000.00
Digging holes				\$0.00
Heading plants	MAN DAYS	3	\$40.00	\$120.00
Planting(direct)	MAN DAYS	5	\$40.00	\$200.00
Nursery Charge				\$0.00
Planting(not direct)				\$0.00
Transplanting				\$0.00
Supplying				\$0.00
Herbicide Appl.				\$0.00
Weed and mould				\$0.00
Weeding	MAN DAYS	20	\$40.00	\$800.00
Fert.applic.	MAN DAYS	2	\$40.00	\$80.00
Spreading mulch				\$0.00
Staking and tying yam	MAN DAYS	10	\$40.00	\$400.00
Staking tomato				\$0.00
Pesticide Appl.				\$0.00
Irrigate field				\$0.00
Irrigate sprinkle				\$0.00
Harvesting	MAN DAYS	10	\$40.00	\$400.00

B. TOTAL LABOUR MAN DAYS 90 \$3,600.00

PARISH: ST. JAMES

CROP: RENTA YAM

Input Cost	UNIT	QUANTITY	PRICE	TOTAL
Seeds				\$0.00
Heads	LBS.	3000	\$2.50	\$7,500.00
Cutting				\$0.00
Suckers				\$0.00
Seedlings				\$0.00
Sets				\$0.00
NPK(Mixed)	CWT	9	\$70.00	\$630.00
Ammonium Sulphate				\$0.00
Organic Manure				\$0.00
Acres of Mulch				\$0.00
Trucks of Mulch				\$0.00
Herb.Emul.conc.				\$0.00
Herb.wet.powder				\$0.00
Insect.emul.conc.				\$0.00
Insect.wet.powder				\$0.00
Fungic.emul.conc.				\$0.00
Fungic.wet.powder				\$0.00
Stickers				\$0.00
Stakes	EACH	1000	\$2.00	\$2,000.00
Slug Bait				\$0.00
C. TOTAL INPUTS				\$10,130.00
D. TOTAL VARIABLE COST (B+C)				\$13,730.00
RETURN TO FARMER'S CAPITAL & MANAGEMENT				\$6,560.00
SUMMARY				
=====				
Gross Income				\$20,290.00
Total Labour				\$3,600.00
Total Inputs				\$10,130.00
Return (A-D)				\$6,560.00
Cost Components				
Labour %				26.22
Input %				73.78
Return on Investment in Cash Variable Cost				47.78

COST OF PRODUCTION

AREA: 1 Acre

PARISH:

ST. JAMES

CROP:

SORREL

	UNIT	YIELD/ QUANTITY	PRICE	TOTAL
A. GROSS INCOME	LBS.	763	\$4.00	\$3,052.00
VARIABLE COST				
Labour Cost				
Land Clearing	MAN DAYS	10	\$40.00	\$400.00
Forking	MAN DAYS	12	\$40.00	\$480.00
Refining				\$0.00
Trenching				\$0.00
Ridging				\$0.00
Lining				\$0.00
Prep.pl.material				\$0.00
Digging mounds				\$0.00
Digging holes				\$0.00
Heading plants				\$0.00
Planting(direct)	MAN DAYS	10	\$40.00	\$400.00
Nursery Charge				\$0.00
Planting(not direct)				\$0.00
Transplanting				\$0.00
Supplying				\$0.00
Herbicide Appl.				\$0.00
Weed and mould				\$0.00
Weeding	MAN DAYS	5	\$40.00	\$200.00
Fert.applic.	MAN DAYS	2	\$40.00	\$80.00
Spreading mulch				\$0.00
Staking and tying yam				\$0.00
Staking tomato				\$0.00
Pesticide Appl.	MAN DAYS	4	\$40.00	\$160.00
Irrigate field				\$0.00
Irrigate sprinkle				\$0.00
Harvesting	MAN DAYS	5	\$40.00	\$200.00
B. TOTAL LABOUR	MAN DAYS	48		\$1,920.00

PARISH:

ST. JAMES

CROP:

SORREL

Input Cost	UNIT	QUANTITY	PRICE	TOTAL
Seeds				\$0.00
Heads				\$0.00
Cutting				\$0.00
Suckers				\$0.00
Seedlings				\$0.00
Sets				\$0.00
NPK(Mixed)	CWT	4	\$70.00	\$280.00
Ammonium Sulphate				\$0.00
Organic Manure				\$0.00
Acres of Mulch				\$0.00
Trucks of Mulch				\$0.00
Herb.Emul.conc.				\$0.00
Herb.wet.powder				\$0.00
Insect.emul.conc.	QUARTS	2	\$160.00	\$320.00
Insect.wet.powder				\$0.00
Fungic.emul.conc.				\$0.00
Fungic.wet.powder	LBS.	12	\$20.00	\$240.00
Stickers				\$0.00
Stakes				\$0.00
Slug Bait				\$0.00
C. TOTAL INPUTS				\$840.00
D. TOTAL VARIABLE COST (B+C)				\$2,760.00
RETURN TO FARMER'S CAPITAL & MANAGEMENT				\$292.00
SUMMARY				
=====				
Gross Income				\$3,052.00
Total Labour				\$1,920.00
Total Inputs				\$840.00
Return (A-D)				\$292.00
Cost Components				
Labour %				69.57
Input %				30.43
Return on Investment in Cash Variable Cost				10.58

COST OF PRODUCTION

**AREA: 1 Acre
PARISH:**

ST. JAMES

CROP:

SWEET YAM

	UNIT	YIELD/ QUANTITY	PRICE	TOTAL
A. GROSS INCOME	LBS.	10000	\$2.00	\$20,000.00

VARIABLE COST

Labour Cost

Land Clearing	MAN DAYS	10	\$40.00	\$400.00
Forking				\$0.00
Refining				\$0.00
Trenching				\$0.00
Ridging				\$0.00
Lining				\$0.00
Prep.pl.material				\$0.00
Digging mounds	MAN DAYS	25	\$40.00	\$1,000.00
Digging holes				\$0.00
Heading plants	MAN DAYS	6	\$40.00	\$240.00
Planting(direct)	MAN DAYS	5	\$40.00	\$200.00
Nursery Charge				\$0.00
Planting(not direct)				\$0.00
Transplanting				\$0.00
Supplying				\$0.00
Herbicide Appl.				\$0.00
Weed and mould	MAN DAYS	12	\$40.00	\$480.00
Weeding				\$0.00
Fert.applic.	MAN DAYS	2	\$40.00	\$80.00
Spreading mulch				\$0.00
Staking and tying yam	MAN DAYS	15	\$40.00	\$600.00
Staking tomato				\$0.00
Pesticide Appl.				\$0.00
Irrigate field				\$0.00
Irrigate sprinkle				\$0.00
Harvesting	MAN DAYS	10	\$40.00	\$400.00

B. TOTAL LABOUR	MAN DAYS	85		\$3,400.00
------------------------	-----------------	-----------	--	-------------------

PARISH: ST. JAMES

CROP: SWEET YAM

Input Cost	UNIT	QUANTITY	PRICE	TOTAL
Seeds				\$0.00
Heads	LBS	4000	\$2.50	\$10,000.00
Cutting				\$0.00
Suckers				\$0.00
Seedlings				\$0.00
Sets				\$0.00
NPK(Mixed)	CWT	9	\$70.00	\$630.00
Ammonium Sulphate				\$0.00
Organic Manure				\$0.00
Acres of Mulch				\$0.00
Trucks of Mulch				\$0.00
Herb.Emul.conc.				\$0.00
Herb.wet.powder				\$0.00
Insect.emul.conc.				\$0.00
Insect.wet.powder				\$0.00
Fungic.emul.conc.				\$0.00
Fungic.wet.powder				\$0.00
Stickers				\$0.00
Stakes	EACH	1000	\$2.00	\$2,000.00
Slug Bait				\$0.00
C. TOTAL INPUTS				\$12,630.00

D. TOTAL VARIABLE COST (B+C)				\$16,030.00
				=====
RETURN TO FARMER'S CAPITAL & MANAGEMENT				\$3,970.00
SUMMARY				
=====				
Gross Income				\$20,000.00
Total Labour				\$3,400.00
Total Inputs				\$12,630.00
Return (A-D)				\$3,970.00
Cost Components				
Labour %				21.21
Input %				78.79
Return on Investment in Cash Variable Cost				24.77

COST OF PRODUCTION

AREA: 1 Acre

PARISH:

ST. JAMES

CROP:

TOMATO

	UNIT	YIELD/ QUANTITY	PRICE	TOTAL
A. GROSS INCOME	LBS.	6860	\$2.50	\$17,150.00
VARIABLE COST				
Labour Cost				
Land Clearing	MAN DAYS	10	\$40.00	\$400.00
Forking	MAN DAYS	20	\$40.00	\$800.00
Refining	MAN DAYS	10	\$40.00	\$400.00
Trenching	MAN DAYS	5	\$40.00	\$200.00
Ridging				\$0.00
Lining	MAN DAYS	2	\$40.00	\$80.00
Prep.pl.material				\$0.00
Digging mounds				\$0.00
Digging holes	MAN DAYS	4	\$40.00	\$160.00
Heading plants				\$0.00
Planting(direct)				\$0.00
Nursery Charge	MAN DAYS	2	\$40.00	\$80.00
Planting(not direct)				\$0.00
Transplanting	MAN DAYS	4	\$40.00	\$160.00
Supplying				\$0.00
Herbicide Appl.				\$0.00
Weed and mould	MAN DAYS	4	\$40.00	\$160.00
Weeding				\$0.00
Fert.applic.	MAN DAYS	2	\$40.00	\$80.00
Spreading mulch				\$0.00
Staking and tying yam				\$0.00
Staking tomato	MAN DAYS	5	\$40.00	\$200.00
Pesticide Appl.	MAN DAYS	6	\$40.00	\$240.00
Irrigate field				\$0.00
Irrigate sprinkle				\$0.00
Harvesting	MAN DAYS	2	\$40.00	\$80.00
B. TOTAL LABOUR	MAN DAYS	76		\$3,040.00

PARISH:

ST. JAMES

CROP:

TOMATO

Input Cost	UNIT	QUANTITY	PRICE	TOTAL
Seeds	LBS.	0.25	\$800.00	\$200.00
Heads				\$0.00
Cutting				\$0.00
Suckers				\$0.00
Seedlings				\$0.00
Sets				\$0.00
NPK(Mixed)	CWT	6	\$70.00	\$420.00
Ammonium Sulphate				\$0.00
Organic Manure				\$0.00
Acres of Mulch				\$0.00
Trucks of Mulch				\$0.00
Herb.Emul.conc.				\$0.00
Herb.wet.powder				\$0.00
Insect.emul.conc.				\$0.00
Insect.wet.powder	LBS.	30	\$60.00	\$1,800.00
Fungic.emul.conc.				\$0.00
Fungic.wet.powder	LBS.	30	\$17.00	\$510.00
Stickers				\$0.00
Stakes				\$0.00
Slug Bait				\$0.00
C. TOTAL INPUTS				\$2,930.00
D. TOTAL VARIABLE COST (B+C)				\$5,970.00
RETURN TO FARMER'S CAPITAL & MANAGEMENT				\$11,180.00
SUMMARY				
=====				
Gross Income				\$17,150.00
Total Labour				\$3,040.00
Total Inputs				\$2,930.00
Return (A-D)				\$11,180.00
Cost Components				
Labour %				50.92
Input %				49.08
Return on Investment in Cash Variable Cost				187.27

COST OF PRODUCTION

AREA: 1 Acre

PARISH:

ST. JAMES

CROP:

YELLOW YAM

	UNIT	YIELD/ QUANTITY	PRICE	TOTAL
A. GROSS INCOME	LBS.	11085	\$2.00	\$22,170.00

VARIABLE COST

Labour Cost

Land Clearing	MAN DAYS	10	\$40.00	\$400.00
Forking				\$0.00
Refining				\$0.00
Trenching	MAN DAYS	5	\$40.00	\$200.00
Ridging				\$0.00
Lining				\$0.00
Prep.pl.material	MAN DAYS	1	\$40.00	\$40.00
Digging mounds	MAN DAYS	25	\$40.00	\$1,000.00
Digging holes				\$0.00
Heading plants	MAN DAYS	1	\$40.00	\$40.00
Planting(direct)	MAN DAYS	2	\$40.00	\$80.00
Nursery Charge				\$0.00
Planting(not direct)				\$0.00
Transplanting				\$0.00
Supplying				\$0.00
Herbicide Appl.				\$0.00
Weed and mould	MAN DAYS	10	\$40.00	\$400.00
Weeding				\$0.00
Fert.applic.	MAN DAYS	2	\$40.00	\$80.00
Spreading mulch				\$0.00
Staking and tying yam	MAN DAYS	15	\$40.00	\$600.00
Staking tomato				\$0.00
Pesticide Appl.				\$0.00
Irrigate field				\$0.00
Irrigate sprinkle				\$0.00
Harvesting	MAN DAYS	15	\$40.00	\$600.00
B. TOTAL LABOUR	MAN DAYS	86		\$3,440.00

PARISH:

ST. JAMES

CROP:

YELLOW YAM

Input Cost	UNIT	QUANTITY	PRICE	TOTAL
Seeds				\$0.00
Heads	LBS.	5000	\$2.50	\$12,500.00
Cutting				\$0.00
Suckers				\$0.00
Seedlings				\$0.00
Sets				\$0.00
NPK(Mixed)	CWT	9	\$70.00	\$630.00
Ammonium Sulphate				\$0.00
Organic Manure				\$0.00
Acres of Mulch				\$0.00
Trucks of Mulch				\$0.00
Herb.Emul.conc.				\$0.00
Herb.wet.powder				\$0.00
Insect.emul.conc.				\$0.00
Insect.wet.powder				\$0.00
Fungic.emul.conc.				\$0.00
Fungic.wet.powder				\$0.00
Stickers				\$0.00
Stakes	EACH	1000	\$2.00	\$2,000.00
Slug Bait				\$0.00

C. TOTAL INPUTS \$15,130.00

D. TOTAL VARIABLE COST (B+C) \$18,570.00

RETURN TO FARMER'S CAPITAL & MANAGEMENT \$3,600.00

SUMMARY

=====

Gross Income \$22,170.00

Total Labour \$3,440.00

Total Inputs \$15,130.00

Return (A-D) \$3,600.00

Cost Components

Labour % 18.52

Input % 81.48

Return on Investment in Cash Variable Cost 19.39





INTER-AMERICAN INSTITUTE FOR COOPERATION ON AGRICULTURE

11 Fairway Avenue, Kingston 5, P.O. Box 349 Kingston 6, Tel.: (809) 927-6462, 927-4837
FAX: 809 927-6933 Telex: 2270 OAS JAM, Cable: IICAJA