

## Cost of Production Estimates 2018



**PLEASE NOTE:**

All COP estimates are stated per kilogram (kg).

The figures presented are not to be construed as establishment costs.

Plant population may also be impacted by other ecological factors and not limited to planting distance only.

Planting distance stated in both centimetres and inches.

# SUMMARY OF RESULTS

Crop	COP \$/kg	COP \$/lb	Parish
CABBAGE	47	21	Clarendon
SWEET POTATO	56	25	Clarendon
IRISH POTATO	84	38	Clarendon
CARROT	40	18	Clarendon
DASHEEN	71	32	Clarendon
RED PEAS	396	180	Clarendon
GINGER	101	46	Clarendon
TOMATO (SLICING)	96	44	Clarendon
PUMPKIN (NATIVE)	32	15	Clarendon
TOMATO (PLUMMY)	52	24	Manchester
CUCUMBER	50	23	Manchester
SWEET PEPPER	73	33	Manchester
SWEET POTATO	46	21	Manchester
SWEET YAM	72	33	Manchester
YELLOW YAM	72	33	Manchester
CABBAGE	48	22	Manchester
IRISH POTATO	92	42	Manchester
CARROT	32	15	Manchester
CARROT	37	17	St. Ann
PUMPKIN (NATIVE)	35	16	St. Ann
SWEET POTATO	43	20	St. Ann
HOT PEPPER	114	52	St. Ann
SWEET PEPPER	77	35	St. Ann
TOMATO (SLICING)	96	44	St. Ann
YELLOW YAM	88	40	St. Ann
CABBAGE	48	22	St. Ann
PEANUT	396	180	St. Elizabeth
BITTER CASSAVA	29	13	St. Elizabeth
SWEET POTATO	49	22	St. Elizabeth
CUCUMBER	54	25	St. Elizabeth
PUMPKIN (NATIVE)	59	27	St. Elizabeth
TOMATO (PLUMMY)	65	30	St. Elizabeth
PAW PAW	88	40	St. Elizabeth
ESCALLION	112	51	St. Elizabeth
THYME	175	80	St. Elizabeth
IRISH POTATO	79	36	St. Elizabeth
RED PEAS	424	193	St. Elizabeth

Parish	Clarendon	
Crop	Cabbage	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Semi-Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Lunch	\$500	
Projected Marketable Yield (Kg)	7,490	
<b>Cost of Production \$/Kg</b>	<b>\$47</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	8	2000	16,000.00
Furrowing	MD	10	2000	20,000.00
Nursery Operations	MD	2	2000	4,000.00
Dig Holes/Plant	MD	6	2000	12,000.00
Moulding	MD	6	2000	12,000.00
Pesticide Application	MD	8	2000	16,000.00
Weeding	MD	6	2000	12,000.00
Fertilising	MD	2	2000	4,000.00
Harvesting	MD	15	2000	30,000.00
<b>Lunch</b>	Each	63	500	31,500.00
<b>SUBTOTAL</b>				<b>157,500.00</b>

#### Material Inputs

Planting Material	pack	2	9800	19,600.00
Water	month	1	10000	10,000.00
<b>Fertiliser:</b>				
NPK 14-28-14	50 kg bag	5	6000	30,000.00
<b>Insecticide:</b>				
Karate	500 ml	3	3000	9,000.00
Tracer	120 ml	3	3100	9,300.00
<b>Fungicide:</b>				
Champion	litre	1	1500	1,500.00
Dithane	pack	20	900	18,000.00
<b>Herbicide:</b>				
Gramoxone	litre	3	1500	4,500.00
<b>SUBTOTAL</b>				<b>101,900.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				25,940.00
**Tools discounted for 5 years				9,400.00
Land Charges per year				15,000.00
Supervision (15 percent of labour and material)				38,910.00
<b>SUBTOTAL</b>				<b>89,250.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>348,650.00</b>

Initial land clearing cost are not included given the wide variations present

Parish	Clarendon	
Crop	Irish Potato	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	60 x 30
	inches	30x 12
Planting Population	17424	
Topography	Relatively Flat Land	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	5,972	
<b>Cost of Production \$/Kg</b>	<b>\$84</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	8	2000	16,000
Ploughing	Tractor		25000	25,000
Furrowing	MD	8	2000	16,000
Maintain Trench	MD	2	2000	4,000
Planting	MD	5	2000	10,000
Moulding	MD	10	2000	20,000
Pesticide Application	MD	9	2000	18,000
Fertilising	MD	2	2000	4,000
Harvesting	MD	15	2000	30,000
<b>Lunch</b>	Each	59	500	29,500
<b>SUBTOTAL</b>				<b>172,500</b>

#### Material Inputs

Planting Material	22.7Kg	20	6300	126,000
<b>Fertiliser:</b>				
14.28.14	50 kg bag	4	6000	24,000
<b>Insecticide:</b>				
Karate	litre	1	6500	6,500
Numectin	litre	3	3000	9,000
<b>Fungicide:</b>				
Topsin	500 g	4	3600	14,400
Acrobat	375 g	6	2500	15,000
Dithane	pack	10	900	9,000
<b>Herbicide:</b>				
Glyphosate	litre	3	1300	3,900
<b>SUBTOTAL</b>				<b>207,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				38030
**Tools discounted for 5 years				9400
Land Charges per year				15000
Supervision (15 percent of labour and material)				57045
<b>SUBTOTAL</b>				<b>\$119,475</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$499,775</b>

Initial land clearing cost are not included given the wide variations present

Parish	Clarendon
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance in (l x w)	Broadcast
Planting Population	
Topography	Relatively Flat Land
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	6,579
<b>Cost of Production \$/Kg</b>	<b>\$40</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	10	2000	20000
Ploughing	MD	15	2000	30000
Furrowing	MD	8	2000	16000
Planting	MD	1	2000	2000
Weeding	MD	2	2000	4000
Fertilising	MD	2	2000	4000
Harvesting	MD	20	2000	40000
<b>Lunch</b>	Each	58	500	29000
<b>SUBTOTAL</b>				<b>\$145,000</b>

#### Material Inputs

Planting Material	tins	2	13000	26000
<b>Fertiliser:</b>				
NPK 14-28-14	50 kg bag	3	6000	18000
<b>Herbicide:</b>				
Gramoxone	litre	2	1500	3000
<b>SUBTOTAL</b>				<b>\$47,000</b>

#### Other Costs

Contingencies (10 percent of labour and material)				19200
**Tools discounted for 5 years				9400
Land Charges per year				15000
Supervision (10 percent of labour and material)				28800
<b>SUBTOTAL</b>				<b>\$72,400</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$264,400</b>

Initial land clearing cost are not included given the wide variations present

Parish	Clarendon	
Crop	DASHEEN	
Crop Maturity	9 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	45 x 45
	inches	24 x 24
Planting Population	10890	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,883	
<b>Cost of Production \$/Kg</b>	<b>\$71</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	12	2000	24000
Dig Holes	MD	10	2000	20000
Planting	MD	6	2000	12000
Pesticide Application	MD	2	2000	4000
Weeding	MD	12	2000	24000
Fertilising	MD	2	2000	4000
Harvesting	MD	22	2000	44000
<b>Lunch</b>	Each	66	500	33000
<b>SUBTOTAL</b>				<b>\$165,000</b>

#### Material Inputs

Planting Material	sucker	10890	15	163350
<b>Fertiliser:</b>				
NPK 11-22-22	50 kg bag	3	5800	17400
NPK 14-28-14	50 kg bag	3	6000	18000
<b>Insecticide:</b>				
Confidor	13 g	3	1000	3000
Actara	13 g	3	1100	3300
<b>Herbicide:</b>				
Gramoxone	litre	2	1500	3000
<b>SUBTOTAL</b>				<b>\$205,050</b>

#### Other Costs

Contingencies (10 percent of labour and material)				37005
**Tools discounted for 5 years				9400
Land Charges per year				15000
Supervision (15 percent of labour and material)				55508
<b>SUBTOTAL</b>				<b>\$116,913</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$486,963</b>

Initial land clearing cost are not included given the wide variations present

Parish	Clarendon	
Crop	Ginger	
Crop Maturity	10 Months	
Reaping Period	12 Months	
Planting Distance (l x w)	cm	30 x 30
	inches	12 x 12
Plant Population	43560	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,075	
<b>Cost of Production \$/Kg</b>	<b>\$101</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	6	2000	12,000
Ploughing	Tractor		25000	25,000
Maintain Trench	MD	3	2000	6,000
Planting	MD	6	2000	12,000
Weeding	MD	10	2000	20,000
Fertilising	MD	2	2000	4,000
Harvesting	MD	20	2000	40,000
<b>Lunch</b>	Each	47	500	23,500
<b>SUBTOTAL</b>				<b>142,500</b>

#### Material Inputs

Planting Material	lbs	2000	150	300,000
<b>Fertiliser:</b>				
NPK 14-28-14	50 kg bag	4	6000	24,000
<b>Insecticide:</b>				
Diazinon	500 ml	1	1200	1,200
<b>Herbicide:</b>				
Glyphosate	litre	2	1300	2,600
<b>SUBTOTAL</b>				<b>327,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				47,030
**Tools discounted for 5 years				9,400
Land Charges per year				15,000
Supervision (15 percent of labour and material)				70,545
<b>SUBTOTAL</b>				<b>141,975</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>612,275</b>

Initial land clearing cost are not included given the wide variations present

Parish	Clarendon	
Crop	Red Peas	
Crop Maturity	3 Months	
Reaping Period	1 Week	
Planting Distance (l x w)	cm	30 x 30
	inches	12 x 12
Plant Population		
Topography	Hilly Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	415	
<b>Cost of Production \$/Kg</b>	<b>\$396</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	6	2000	12000
Ploughing	MD	6	2000	12000
Moulding	MD	6	2000	12000
Planting	MD	2	2000	4000
Pesticide Application	MD	2	2000	4000
Weeding	MD	6	2000	12000
Fertilising	MD	2	2000	4000
Harvesting	MD	8	2000	16000
<b>Lunch</b>	Each	38	500	19000
<b>SUBTOTAL</b>				<b>\$95,000</b>

#### Material Inputs

Planting Material	quart	20	20	400
<b>Fertiliser:</b>				
NPK 14-28-14	50 kg bag	2	6000	12000
<b>Fungicide:</b>				
Dithane	pack	2	900	1800
<b>Herbicide:</b>				
Glyphosate	litre	2	1300	2600
<b>SUBTOTAL</b>				<b>\$16,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				11180
**Tools discounted for 5 years				9400
Land Charges per year				15000
Supervision (15 percent of labour and material)				16770
<b>SUBTOTAL</b>				<b>\$52,350</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$164,150</b>

Initial land clearing cost are not included given the wide variations present



Parish	Clarendon	
Crop	Tomato (Slicing)	
Crop Maturity	3 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)	cm	120 x 60
	inches	48x 24
Plant Population	5445	
Topography	Hilly Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,500	
Projected Marketable Yield (Kg)	6,984	
<b>Cost of Production \$/Kg</b>	<b>\$96</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2500	20,000
Furrowing	MD	8	2500	20,000
Nursery Operations	MD	4	2500	10,000
Transplanting	MD	2	2500	5,000
Moulding	MD	8	2500	20,000
Stake and Tie	MD	6	2500	15,000
Pesticide Application	MD	9	2500	22,500
Weeding	MD	6	2500	15,000
Fertilising	MD	2	2500	5,000
Harvesting	MD	20	2500	50,000
<b>Lunch</b>	Each	73	500	36,500
<b>SUBTOTAL</b>				<b>219,000</b>

#### Material Inputs

Planting Material	pack (1000)	6	12000	72,000
Potting Mixture	bag	3	2800	8,400
Seed Trays	each	30	300	9,000
Cord	roll	5	750	3,750
Stakes	each	6000	20	120,000
<b>Fertiliser:</b>				
NPK 14-28-14	50 kg bag	4	6000	24,000
NPK 15-05-35	50 kg bag	3	5700	17,100
<b>Insecticide:</b>				
Caratrx	litre	1	3000	3,000
Caprid	500 ml	1	2800	2,800
Newmectin		2	3000	6,000
<b>Fungicide:</b>				
Dithane	pack	10	900	9,000
Topsin	1 kg	2	5100	10,200
Bravo	litre	2	5000	10,000
<b>Herbicide:</b>				
Glyphosate	litre	3	1300	3,900
<b>SUBTOTAL</b>				<b>299,150</b>

#### Other Costs

Contingencies (10 percent of labour and material)				51,815
**Tools discounted for 5 years				9,400
Land Charges per year				15,000
Supervision (15 percent of labour and material)				77,723
<b>SUBTOTAL</b>				<b>153,938</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>672,088</b>

Initial land clearing cost are not included given the wide variations present

Parish	Clarendon	
Crop	Pumpkin (Native)	
Crop Maturity	3 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	300 x 120
	inches	120 x 48
Plant Population	1089	
Topography	Relatively Flat Land	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,490	
<b>Cost of Production \$/Kg</b>	<b>\$32</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	6	2000	12,000
Ploughing	Tractor		25000	25,000
Planting	MD	2	2000	4,000
Pesticide Application	MD	4	2000	8,000
Weeding	MD	10	2000	20,000
Fertilising	MD	2	2000	4,000
Harvesting	MD	15	2000	30,000
<b>Lunch</b>	Each	39	500	19,500
<b>SUBTOTAL</b>				<b>122,500</b>

#### Material Inputs

Planting Material	lbs	12	100	1,200
Water	month	5	2500	12,500
<b>Fertiliser:</b>				
NPK 14-28-14	50 lb bag	3	6000	18,000
Urea	50 lb bag	1	4500	4,500
Sulphate of Ammonia	50 lb bag	1	3400	3,400
<b>Insecticide:</b>				
Caratrax	litre	1	3000	3,000
<b>Fungicide:</b>				
Ridomil	500 g	1	2600	2,600
Sulcox	500 g	1	1300	1,300
<b>Herbicide:</b>				
Glyphosate	litre	3	1300	3,900
<b>SUBTOTAL</b>				<b>50,400</b>

#### Other Costs

Contingencies (10 percent of labour and material)				17,290
**Tools discounted for 5 years				9,400
Land Charges per year				15,000
Supervision (15 percent of labour and material)				25,935
<b>SUBTOTAL</b>				<b>67,625</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>240,525</b>

Initial land clearing cost are not included given the wide variations present

Parish	Clarendon	
Crop	SWEET POTATO	
Crop Maturity	4 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	60 x60
	inches	24 x 24
Plant Population	21780	
Topography	Relatively Flat Land	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,500	
Projected Marketable Yield (Kg)	5,972	
<b>Cost of Production \$/Kg</b>	<b>\$56</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2500	15,000
Ploughing	Tractor		25000	25,000
Furrowing	MD	10	2500	25,000
Plant Preparation	MD	1	2500	2,500
Planting	MD	10	2500	25,000
Pesticide Application	MD	5	2500	12,500
Weeding	MD	10	2500	25,000
Fertilising	MD	2	2500	5,000
Harvesting	MD	15	2500	37,500
<b>Lunch</b>	Each	59	500	29,500
<b>SUBTOTAL</b>				<b>202,000</b>

Material Inputs				
Planting Material	van load	1	8000	8000
<b>Fertiliser:</b>				
NPK 14-28-14	50 kg bag	2	6000	12000
Sulphate of Ammonium	50 kg bag	2	4000	8000
<b>Insecticide:</b>				
Karate	litre	1	6500	6500
<b>Fungicide:</b>				
Ridomil	500 g	1	2600	2600
Sulcox	500 g	1	1300	1300
Trivia	500 g	1	4200	4200
<b>Herbicide:</b>				
Glyphosate	litre	3	1300	3900
<b>SUBTOTAL</b>				<b>\$46,500</b>

Other Costs				
Contingencies (10 percent of labour and material)				24850
**Tools discounted for 5 years				9400
Land Charges per year				15000
Supervision (15 percent of labour and material)				37275
<b>SUBTOTAL</b>				<b>\$86,525</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$335,025</b>

Initial land clearing cost are not included given the wide variations present

**St. Ann**

Parish	St. Ann
Crop	SWEET POTATO
Crop Maturity	4 Months
Reaping Period	2 Month
Planting Distance (l x w)	
cm	60 x 45
inches	24 x 18
Plant Population	7260
Topography	Relatively Flat Land
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	6,984
<b>Cost of Production \$/Kg</b>	<b>\$43</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12,000
Ploughing	Tractor		25000	25,000
Furrowing	MD	10	2000	20,000
Prepare Planting Material	MD	1	2000	2,000
Planting	MD	10	2000	20,000
Pesticide Application	MD	6	2000	12,000
Weeding	MD	10	2000	20,000
Fertilising	MD	2	2000	4,000
Harvesting	MD	15	2000	30,000
<b>Lunch</b>	Each	60	500	30,000
<b>SUBTOTAL</b>				<b>175,000</b>

**Material Inputs**

Planting Material	load	1	6000	6,000
<b>Fertiliser:</b>				
NPK 11-22-22	50 kg bag	5	5800	29,000
<b>Insecticide:</b>				
Karate	250 ml	4	1600	6,400
<b>Fungicide:</b>				
Ridomil	100 g	4	900	3,600
<b>Herbicide:</b>				
Gramoxone	gallon	1	6700	6,700
<b>SUBTOTAL</b>				<b>51,700</b>

**Other Costs**

Contingencies (10 percent of labour and material)				22,670
**Tools discounted for 5 years				9,400
Land Charges per year				5,000
Supervision (15 percent of labour and material)				34,005
<b>SUBTOTAL</b>				<b>71,075</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>297,775</b>

Initial land clearing cost are not included given the wide variations present

**St. Ann**

Parish	St. Ann
Crop	CABBAGE
Crop Maturity	3 Months
Reaping Period	2 Weeks
Planting Distance (l x w)	
cm	30 x 30
inches	12 x 12
Plant Population	43560
Terrain	Relatively Flat Land
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	8,401
<b>Cost of Production \$/Kg</b>	<b>\$48</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12,000
Ploughing	Tractor		25000	25,000
Furrowing	MD	10	2000	20,000
Maintain Trench	MD	2	2000	4,000
Nursery Operation	MD	2	2000	4,000
Planting	MD	6	2000	12,000
Moulding	MD	10	2000	20,000
Pesticide Application	MD	8	2000	16,000
Weeding	MD	10	2000	20,000
Fertilising	MD	2	2000	4,000
Harvesting	MD	16	2000	32,000
<b>Lunch</b>	Each	72	500	36,000
<b>SUBTOTAL</b>				<b>205,000</b>

**Material Inputs**

Planting Material	seed	4	10000	40,000
<b>Fertiliser:</b>				
NPK 11-22-22	50 kg bag	6	5800	34,800
<b>Insecticide:</b>				
Karate	250 ml	2	1600	3,200
Tracer	250 ml	2	6000	12,000
<b>Fungicide:</b>				
Dithane	pack	4	900	3,600
Ridomil	100 g	4	900	3,600
<b>Herbicide:</b>				
Glyphosate	litre	3	1300	3,900
<b>SUBTOTAL</b>				<b>101,100</b>

**Other Costs**

Contingencies (10 percent of labour and material)				30,610
**Tools discounted for 5 years				9,400
Land Charges per year				10,000
Supervision (15 percent of labour and material)				45,915
<b>SUBTOTAL</b>				<b>95,925</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>402,025</b>

Initial land clearing cost are not included given the wide variations present

**St. Ann**

Parish	St. Ann	
Crop	HOT PEPPER (W.I)	
Crop Maturity	3 Months	
Reaping Period	8 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Topography	Relatively Flat Land	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	5,263	
<b>Cost of Production \$/Kg</b>	<b>\$114</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	10	2000	20000
Ploughing	Tractor		25000	25000
Furrowing	MD	10	2000	20000
Maintain Trench	MD	4	2000	8000
Dig Holes/Plant	MD	8	2000	16000
Pesticide Application	MD	14	2000	28000
Weeding	MD	12	2000	24000
Fertilising	MD	10	2000	20000
Harvesting	MD	50	2000	100000
<b>Lunch</b>	Each	118	500	59000
<b>SUBTOTAL</b>				<b>\$320,000</b>

**Material Inputs**

Planting Material	seedling	7500	10	75000
<b>Fertiliser:</b>				
Pepperlizer	50 kg bag	7	2900	20300
<b>Insecticide:</b>				
Caratrax	litre	6	3000	18000
Newmectin	500 ml	4	3000	12000
<b>Fungicide:</b>				
Ridomil	500 g	8	2600	20800
<b>Herbicide:</b>				
Glyphosate	litre	3	1300	3900
<b>SUBTOTAL</b>				<b>\$150,000</b>

**Other Costs**

Contingencies (10 percent of labour and material)				47000
**Tools discounted for 5 years				9400
Land Charges per year				5000
Supervision (15 percent of labour and material)				70500
<b>SUBTOTAL</b>				<b>\$131,900</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$601,900</b>

Initial land clearing cost are not included given the wide variations present

**St. Ann**

Parish	St. Ann
Crop	PUMPKIN (NATIVE)
Crop Maturity	4 Months
Reaping Period	2 Months
Planting Distance (l x w)	
cm	
inches	72 x 72
Plant Population	1210
Topography	Relatively Flat Land
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	7,895
<b>Cost of Production \$/Kg</b>	<b>\$35</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	10	2000	20,000
Ploughing	Tractor		25000	25,000
Furrowing	MD	10	2000	20,000
Planting	MD	4	2000	8,000
Pesticide Application	MD	4	2000	8,000
Weeding	MD	10	2000	20,000
Fertilising	MD	2	2000	4,000
Harvesting	MD	20	2000	40,000
<b>Lunch</b>	Each	60	500	30,000
<b>SUBTOTAL</b>				<b>175,000</b>

**Material Inputs**

Planting Material	lbs	10	100	1,000
<b>Fertiliser:</b>				
NPK 11-22-22	50 kg bag	1	5800	5,800
NPK 15-05-35	50 kg bag	2	5700	11,400
<b>Insecticide:</b>				
Karate	500 ml	1	3000	3,000
Malathion	250 ml	1	500	500
<b>Fungicide:</b>				
Ridomil	250 g	1	1650	1,650
Champion	1/2 litre	1	600	600
<b>Herbicide:</b>				
Glyphosate	2 litre	2	3000	6,000
<b>SUBTOTAL</b>				<b>29,950</b>

**Other Costs**

Contingencies (10 percent of labour and material)				20,495
**Tools discounted for 5 years				9,400
Land Charges per year				13,000
Supervision (15 percent of labour and material)				30,743
<b>SUBTOTAL</b>				<b>73,638</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>278,588</b>

Initial land clearing cost are not included given the wide variations present

**St. Ann**

Parish	St. Ann
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Week
Planting Distance (l x w)	Broadcasting
Plant Population	
Terrain	Relatively Flat at Land
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	7,287
<b>Cost of Production \$/Kg</b>	<b>\$37</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	10	2000	20,000
Ploughing	MD	12	2000	24,000
Maintain Trench	MD	3	2000	6,000
Planting	MD	1	2000	2,000
Pesticide Application	MD	4	2000	8,000
Weeding	MD	4	2000	8,000
Fertilising	MD	1	2000	2,000
Harvesting	MD	20	2000	40,000
<b>Lunch</b>	Each	55	500	27,500
<b>SUBTOTAL</b>				<b>137,500</b>

**Material Inputs**

Planting Material	lbs	3	9000	27,000
<b>Fertiliser:</b>				
NPK 17-0-17	50 kg bag	3	5000	15,000
Urea	50 kg bag	1	4500	4,500
<b>Insecticide:</b>				
Caratrax	litre	1	3000	3,000
Consento	100 ml	1	2000	2,000
<b>Fungicide:</b>				
Ridomil	500 g	3	2600	7,800
<b>Herbicide:</b>				
Gramoxone	litre	3	1500	4,500
<b>SUBTOTAL</b>				<b>63,800</b>

**Other Costs**

Contingencies (10 percent of labour and material)				20,130
**Tools discounted for 5 years				9,400
Land Charges per year				10,000
Supervision (15 percent of labour and material)				30,195
<b>SUBTOTAL</b>				<b>69,725</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>271,025</b>

Initial land clearing cost are not included given the wide variations present



**St. Ann**

Parish	St. Ann
Crop	SWEET PEPPER
Crop Maturity	3 Months
Reaping Period	2 Months
Planting Distance (l x w)	
cm	90 x 60
inches	36 x 24
Plant Population	7260
Terrain	Hiily Land
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	6,060
<b>Cost of Production \$/Kg</b>	<b>\$77</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	8	2000	16,000
Ploughing	MD	10	2000	20,000
Dig Holes	MD	10	2000	20,000
Nursery Operations	MD	2	2000	4,000
Moulding	MD	8	2000	16,000
Transplanting	MD	6	2000	12,000
Pesticide Application	MD	12	2000	24,000
Weeding	MD	15	2000	30,000
Fertilising	MD	4	2000	8,000
Harvesting	MD	30	2000	60,000
<b>Lunch</b>	Each	105	500	52,500
<b>SUBTOTAL</b>				<b>262,500</b>

**Material Inputs**

Planting Material	packs (1000)	8	2000	16,000
Potting Mixture	bag	4	1200	4,800
Seed Trays	each	12	300	3,600
<b>Fertiliser:</b>				
NPK 14-28-14	50 kg bag	6	6000	36,000
Calcium 20-20	22.7 kg bag	1	7000	7,000
<b>Insecticide:</b>				
Caprid	250 ml	4	1700	6,800
Vertimec	100 ml	2	2700	5,400
Newmectin	500 ml	2	3000	6,000
<b>Fungicide:</b>				
Acrobat	pack	1	2500	2,500
Ridomil	500 g	1	2600	2,600
Sancozeb	lbs	5	600	3,000
<b>Herbicide:</b>				
Paraquat	litre	3	1200	3,600
<b>SUBTOTAL</b>				<b>97,300</b>

**Other Costs**

Contingencies (10 percent of labour and material)				35,980
**Tools discounted for 5 years				9,400
Land Charges per year				5,000
Supervision (15 percent of labour and material)				53,970
<b>SUBTOTAL</b>				<b>104,350</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>464,150</b>

Initial land clearing cost are not included given the wide variations present

**St. Ann**

Parish	St. Ann	
Crop	TOMATO (SLICING)	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	90 x 90
	inches	36 x 36
Plant Population	4840	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,869	
<b>Cost of Production \$/Kg</b>	<b>\$96</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	8	2000	16000
Ploughing	MD	8	2000	16000
Nursery Operations	MD	3	2000	6000
Dig Holes/Plant	MD	8	2000	16000
Moulding	MD	10	2000	20000
Stake and Tie	MD	9	2000	18000
Pesticide Application	MD	10	2000	20000
Weeding	MD	8	2000	16000
Fertilising	MD	2	2000	4000
Harvesting	MD	15	2000	30000
<b>Lunch</b>	Each	81	500	40500
<b>SUBTOTAL</b>				<b>\$202,500</b>

Material Inputs				
Planting Material	pack (1000)	5	13500	67500
Potting Mixture	bag	2	2000	4000
Seed Trays	each	20	200	4000
Cord	roll	5	700	3500
Stakes	each	6000	20	120000
<b>Fertiliser:</b>				
NPK 15-05-35	50 kg bag	10	5700	57000
<b>Insecticide:</b>				
Karate	litre	4	6000	24000
Consento	100 ml	2	2000	4000
<b>Fungicide:</b>				
Dithane	pack	20	900	18000
Ridomil	500 g	1	2600	2600
Amistar	50 g	1	1800	1800
<b>Herbicide:</b>				
Fusilade	250 ml	1	2300	2300
Glyphosate	litre	2	1300	2600
<b>SUBTOTAL</b>				<b>\$311,300</b>

Other Costs				
Contingencies (10 percent of labour and material)				51380
**Tools discounted for 5 years				9400
Land Charges per year				5000
Supervision (15 percent of labour and material)				77070
<b>SUBTOTAL</b>				<b>\$142,850</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$656,650</b>

Initial land clearing cost are not included given the wide variations present

**St. Ann**

Parish	St. Ann
Crop	YELLOW YAM
Crop Maturity	10 Months
Reaping Period	2 Month
Planting Distance (l x w)	
cm	150x80
inches	60x72
Plant Population	1452
Topography	Hilly Land
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,500
Projected Marketable Yield (Kg)	7,287
<b>Cost of Production \$/Kg</b>	<b>\$88</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	10	2500	25000
Maintain Trench	MD	10	2500	25000
Dig Hole	MD	10	2500	25000
Prepare Planting Material	MD	3	2500	7500
Make Mound/Planting	MD	15	2500	37500
Staking	MD	10	2500	25000
Weeding	MD	20	2500	50000
Fertilising	MD	3	2500	7500
Harvesting	MD	25	2500	62500
<b>Lunch</b>	Each	106	500	53000
<b>SUBTOTAL</b>				<b>\$318,000</b>

**Material Inputs**

Planting Material	heads	1000	60	60000
Stakes	each	1000	50	50000
<b>Fertiliser:</b>				
NPK 15-05-35	50 kg bag	5	5700	28500
NPK 17-0-17	50 kg bag	5	5000	25000
<b>Herbicide:</b>				
Glyphosate	gallon	4	5000	20000
<b>SUBTOTAL</b>				<b>\$183,500</b>

**Other Costs**

Contingencies (10 percent of labour and material)				50150
**Tools discounted for 5 years				9400
Land Charges per crop cycle				7000
Supervision (15 percent of labour and material)				75225
<b>SUBTOTAL</b>				<b>\$141,775</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$643,275</b>

Initial land clearing cost are not included given the wide variations present

St. ELIZABETH

Parish	St. Elizabeth
Crop	PEANUT
Crop Maturity	3 Months
Reaping Period	1 Week
Planting Distance (l x w)	Broadcasting
Plant Population	
Topography	Relatively Flat Land
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	415
<b>Cost of Production \$/kg</b>	<b>\$396</b>

Labour Operations	Unit	No. of Units	Cost/Unit		Total Cost
Land Clearing	MD	5	2000		10000
Ploughing	Tractor				15000
Maintain Trench	MD	2	2000		4000
Planting	MD	1	2000		2000
Pest Management	MD	4	2000		8000
Weeding	MD	4	2000		8000
Fertilising	MD	2	2000		4000
Harvesting	MD	8	2000		16000
Drying	MD	2	2000		4000
<b>Lunch</b>	Each	26	500		13000
<b>SUBTOTAL</b>					<b>\$84,000</b>

**Material Inputs**

Planting Material	bushel	7	2000		14000
<b>Fertiliser:</b>					
NPK 14-28-14	50 kg bag	2	6000		12000
<b>Insecticide:</b>					
Caratraz	lbs	0.5	3000		1500
<b>Fungicide:</b>					
Dithane	lbs	1	900		900
Champion	500 ml	1	600		600
<b>Herbicide:</b>					
Glyphosate	litre	1	1300		1300
<b>SUBTOTAL</b>					<b>\$30,300</b>

**Other Costs**

Contingencies (10 percent of labour and material)					11430
**Tools discounted for 5 years					9400
Land Charges per crop cycle					12000
Supervision (15 percent of labour and material)					17145
<b>SUBTOTAL</b>					<b>\$49,975</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$164,275</b>

Initial land clearing cost are not included given the wide variations present

St. ELIZABETH

Parish	St. Elizabeth	
Crop	TOMATO (PLUMMY)	
Crop Maturity	3 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	10,343	
<b>Cost of Production \$/Kg</b>	<b>\$65</b>	

Labour Operations	Unit	No. of Units	Cost/Unit		Total Cost
Land Clearing	MD	10	2000		20000
Ploughing	MD	10	2000		20000
Nursery Operations	MD	1	2000		2000
Mulching	MD	2	2000		4000
Transplanting	MD	10	2000		20000
Pesticide Application	MD	12	2000		24000
Weeding	MD	10	2000		20000
Fertilising	MD	3	2000		6000
Harvesting	MD	20	2000		40000
<b>Lunch</b>	Each	78	500		39000
<b>SUBTOTAL</b>					<b>\$195,000</b>

**Material Inputs**

Mulch	truck load	1	50000		50000
Planting Material	pack	4	8200		32800
Potting Mixture	bag	2	6200		12400
Seed Trays	each	30	300		9000
Water	month	5	10000		50000
<b>Fertiliser:</b>					
NPK 15-05-35	50 kg bag	6	5700		34200
NPK 11-22-22	50 kg bag	6	5800		34800
<b>Insecticide:</b>					
Karate	litre	2	6500		13000
Cure	120 ml	10	2800		28000
Tracer	120 ml	10	3000		30000
<b>Fungicide:</b>					
Dithane	pack	20	900		18000
<b>Herbicide:</b>					
Gramoxone	litre	2	1500		3000
<b>SUBTOTAL</b>					<b>\$315,200</b>

**Other Costs**

Contingencies (10 percent of labour and material)					51020
**Tools discounted for 5 years					9400
Land Charges per year					30000
Supervision (15 percent of labour and material)					76530
<b>SUBTOTAL</b>					<b>\$166,950</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$677,150</b>

Initial land clearing cost are not included given the wide variations present

St. ELIZABETH

Parish	St. Elizabeth	
Crop	SWEET POTATO	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Topography	Relatively Flat Land	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,085	
<b>Cost of Production \$/Kg</b>	<b>\$49</b>	

Labour Operations	Unit	No. of Units	Cost/Unit		Total Cost
Land Cleaning	MD	10	2000		20000
Ploughing	Tractor		15000		15,000
Prepare Planting Material	MD	4	2000		8000
Planting	MD	10	2000		20000
Pesticide Application	MD	4	2000		8000
Weeding	MD	12	2000		24000
Fertilising	MD	2	2000		4000
Harvesting	MD	30	2000		60000
<b>Lunch</b>	Each	72	500		36000
<b>SUBTOTAL</b>					<b>\$195,000</b>

**Material Inputs**

Planting Material	slips	10000	2		20000
<b>Fertiliser:</b>					
NPK 14-28-14	50 kg bag	4	6000		24000
<b>Insecticide:</b>					
Caratrax	litre	2	3000		6000
Malathion	litre	1	1200		1200
<b>Fungicide:</b>					
Mancozeb	lbs	3	1000		3000
Amistar	50 g	2	1800		3600
<b>Herbicide:</b>					
Glyphosate	litre	3	1300		3900
<b>SUBTOTAL</b>					<b>\$61,700</b>

**Other Costs**

Contingencies (10 percent of labour and material)					25670
**Tools discounted for 5 years					8400
Land Charges per year					20000
Supervision (15 percent of labour and material)					38505
<b>SUBTOTAL</b>					<b>\$92,575</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$349,275</b>

Initial land clearing cost are not included given the wide variations present

St. ELIZABETH

Parish	St. Elizabeth	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	180 x 180
	inches	72 x 72
Plant Population	1210	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,490	
<b>Cost of Production \$/Kg</b>	<b>\$59</b>	

Labour Operations	Unit	No. of Units	Cost/Unit		Total Cost
Land Cleaning	MD	10	2000		20000
Ploughing	MD	10	2000		20000
Furrowing	MD	10	2000		20000
Mulching	MD	2	2000		4000
Planting	MD	10	2000		20000
Pesticide Application	MD	8	2000		16000
Weeding	MD	12	2000		24000
Fertilising	MD	2	2000		4000
Harvesting	MD	30	2000		60000
<b>Lunch</b>	Each	84	500		42000
<b>SUBTOTAL</b>					<b>\$230,000</b>

Material Inputs					
Mulch	truck load	1	45000		45000
Planting Material	lbs	10	600		6000
Water	month	6	3000		18000
<b>Fertiliser:</b>					
NPK 14-28-14	50 kg bag	4	6000		24000
<b>Insecticide:</b>					
Cure	250 ml	1	4500		4500
<b>Fungicide:</b>					
Bellis	50 g	4	1300		5200
<b>Herbicide:</b>					
Gramoxone	litre	2	1500		3000
<b>SUBTOTAL</b>					<b>\$105,700</b>

Other Costs			
Contingencies (10 percent of labour and material)			33570
**Tools discounted for 5 years			9400
Land Charges per year			15000
Supervision (15 percent of labour and material)			50355
<b>SUBTOTAL</b>			<b>\$108,325</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>\$444,025</b>

Initial land clearing cost are not included given the wide variations present

St. ELIZABETH

Parish	St. Elizabeth	
Crop	BITTER CASSAVA	
Crop Maturity	9 Months	
Reaping Period	3 Weeks	
Planting Distance (l x w)	cm	90 x 120
	inches	36 x 48
Plant Population	3630	
Topography	Relatively Flat Land	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7389	
<b>Cost of Production \$/Kg</b>	<b>\$29</b>	

Labour Operations	Unit	No. of Units	Cost/Unit		Total Cost
Land Cleaning	MD	8	2000		16,000
Ploughing	tractor		15000		15,000
Planting	MD	10	2000		20,000
Pesticide Application	MD	4	2000		8,000
Weeding	MD	12	2000		24,000
Fertilising	MD	1	2000		2,000
Harvesting	MD	20	2000		40,000
<b>Lunch</b>	Each	55	500		27,500
<b>SUBTOTAL</b>					<b>152,500</b>

**Material Inputs**

Planting Material	stem cuttings	12	3630		43,560
<b>Fertiliser:</b>					
NPK 14-28-14	50 kg bag	1	6000		6,000
<b>Insecticide:</b>					
Caratraz	250 ml	2	1000		2,000
Cure	250 ml	1	4500		4,500
Newmectin	500 ml	2	3000		6,000
<b>Herbicide:</b>					
Glyphosate	litre	2	1300		2,600
<b>SUBTOTAL</b>					<b>64,660.00</b>

**Other Costs**

Contingencies (10 percent of labour and material)					21,716
**Tools discounted for 5 years					9,400
Land Charges per crop cycle					13,000
Supervision (15 percent of labour and material)					32,574
<b>SUBTOTAL</b>					<b>76,690</b>
<b>TOTAL COST</b>					<b>217,160</b>



St. ELIZABETH

Parish	St. Elizabeth	
Crop	CUCUMBER	
Crop Maturity	1.5 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,490	
<b>Cost of Production \$/Kg</b>	<b>\$54</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Clearing	MD	10	2000		20,000
Ploughing	MD	10	2000		20,000
Maintain Trench	MD	3	2000		6,000
Mulching	MD	2	2000		4,000
Planting	MD	4	2000		8,000
Pesticide Application	MD	9	2000		18,000
Weeding	MD	15	2000		30,000
Fertilising	MD	2	2000		4,000
Harvesting	MD	20	2000		40,000
<b>Lunch</b>	Each	75	500		37,500
<b>SUBTOTAL</b>					<b>187,500</b>

Material Inputs					
Mulch	truck load	1	50000		50,000
Planting Material	seed	8	3000		24,000
Water	month	1	8000		8,000
<b>Fertiliser:</b>					
NPK 11-22-22	50 kg bag	4	5800		23,200
<b>Insecticide:</b>					
Caprid	litre	1	6500		6,500
<b>Fungicide:</b>					
Bellis	50 g	4	1300		5,200
<b>Herbicide:</b>					
Round Up	litre	2	1500		3,000
<b>SUBTOTAL</b>					<b>119,900</b>

Other Costs			
Contingencies (10 percent of labour and material)			30,740
**Tools discounted for 5 years			9,400
Land Charges per crop cycle			13,000
Supervision (15 percent of labour and material)			46,110
<b>SUBTOTAL</b>			<b>99,250</b>
<b>TOTAL</b>			<b>406,650</b>

Initial land clearing cost are not included given the wide variations present

St. ELIZABETH

Parish	St. Elizabeth	
Crop	ESCALLION	
Crop Maturity	2 Months	
Reaping Period	3 Months	
Planting Distance (l x w)	cm	60 x 30
	inches	24 x 12
Plant Population	21780	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Semi-Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	4,453	
<b>Cost of Production \$/Kg</b>	<b>\$112</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	10	2000	20000
Mulching	MD	4	2000	8000
Planting	MD	8	2000	16000
Pesticide Application	MD	6	2000	12000
Weeding	MD	5	2000	10000
Moulding	MD	5	2000	10000
Fertilising	MD	1	2000	2000
Harvesting	MD	20	2000	40000
<b>Lunch</b>	Each	55	500	27500
<b>SUBTOTAL</b>				<b>\$145,500</b>

Material Inputs				
Mulch	truck load	1	40000	40000
Planting Material		2500	40	100000
Water	month	4	14000	56000
<b>Fertiliser:</b>				
NPK 11-22-22	50 kg bag	4	5800	23200
Sulphate of Ammonium	50 kg bag	1	4000	4000
<b>Insecticide:</b>				
Tracer	120 ml	1	3100	3100
Newmectin	500 ml	1	3000	3000
<b>Fungicide:</b>				
Topsin	250 g	1	1800	1800
Ridomil	500 g	1	2600	2600
<b>Herbicide:</b>				
Glyphosate	litre	2	1300	2600
<b>SUBTOTAL</b>				<b>\$236,300</b>

Other Costs			
Contingencies (10 percent of labour and material)			38180
**Tools discounted for 5 years			9400
Land Charges per year			10000
Supervision (15 percent of labour and material)			57270
<b>SUBTOTAL</b>			<b>\$114,850</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>\$496,650</b>

Initial land clearing cost are not included given the wide variations present

St. ELIZABETH

Parish	St. Elizabeth
Crop	Thyme
Crop Maturity	3 Months
Reaping Period	1 Year
Planting Distance (l x w)	12 x 12
Plant Population	43560
Topography	Relatively Flat Land
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Dry Yield (Kg)	1,974
<b>Cost of Production \$/Kg</b>	<b>\$175</b>

Labour Operations	Unit	No. of Units	Cost/Unit		Total Cost
Land Clearing	MD	8	2000		16,000
Mulching	MD	2	2000		4,000
Planting	MD	6	2000		12,000
Pest Management	MD	10	2000		20,000
Weeding	MD	8	2000		16,000
Fertilising	MD	4	2000		8,000
Harvesting	MD	14	2000		28,000
<b>Lunch</b>	Each	50	500		25,000
<b>SUBTOTAL</b>					<b>129,000</b>

Material Inputs					
Mulch	truck load	1	15000		15,000
Planting Material	stem cuttings	800	100		80,000
<b>Fertiliser:</b>					
NPK 11-22-22	50 kg bag	2	5800		11,600
NPK 15-05-35	50 kg bag	2	5700		11,400
<b>Insecticide:</b>					
Caprid	250 ml	3	1700		5,100
Cure	250 ml	1	4500		4,500
<b>Fungicide:</b>					
Mancozeb	lbs	3	1000		3,000
<b>Herbicide:</b>					
Gramoxone	litre	2	1500		3,000
<b>SUBTOTAL</b>					<b>133,600</b>

Other Costs			
Contingencies (10 percent of labour and material)			26,260
**Tools discounted for 5 years			9,400
Land Charges per crop cycle			8,000
Supervision (15 percent of labour and material)			39,390
<b>SUBTOTAL</b>			<b>83,050</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>345,650</b>

Initial land clearing cost are not included given the wide variations present



Parish	Manchester	
Crop	Cabbage	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	30 x 60
	inches	12 x 24
Plant Population	21780	
Topography	Hilly Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,936	
<b>Cost of Production \$/Kg</b>	<b>\$48</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	10	2000	20,000.00
Ploughing	MD	10	2000	20,000.00
Dig Holes	MD	8	2000	16,000.00
Maintainig Trenches	MD	3	2000	6,000.00
Planting	MD	5	2000	10,000.00
Pesticide Application	MD	12	2000	24,000.00
Weed Control	MD	10	2000	20,000.00
Fertilizer Application	MD	2	2000	4,000.00
Harvesting	MD	16	2000	32,000.00
<b>Lunch</b>	Each	76	500	38,000.00
<b>SUBTOTAL</b>				<b>190,000.00</b>

#### Material Inputs

Planting Material	seed	2	8000	16,000.00
<b>Fertiliser:</b>				
NPK 11-22-22	50 kg bag	3	5800	17,400.00
<b>Insecticide</b>				
Tracer	120 ml	4	3100	12,400.00
Caprid	250 ml	3	1800	5,400.00
Pegasus	250 ml	2	3700	7,400.00
<b>Herbicide:</b>				
Glyphosate	5 litre	1	7000	7,000.00
<b>SUBTOTAL</b>				<b>65,600.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				25,560.00
**Tools discounted for 5 years				9,400.00
Land Charges per year				5,000.00
Supervision (15 percent of labour and material)				38,340.00
<b>SUBTOTAL</b>				<b>78,300.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>333,900.00</b>

Initial land clearing cost are not included given the wide variations present

Parish	Manchester	
Crop	SWEET YAM	
Crop Maturity	8 Months	
Reaping Period	8 Months	
Planting Distance (l x w)		
	cm	90 x 90
	inches	36 x 36
Plant Population	4840	
Topography	Hilly Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,287	
<b>Cost of Production \$/Kg</b>	<b>\$72</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	8	2000	16,000.00
Dig Holes	MD	10	2000	20,000.00
Prepare Planting Material	MD	2	2000	4,000.00
Planting/Mounding	MD	10	2000	20,000.00
Mulching	MD	3	2000	6,000.00
Staking	MD	10	2000	20,000.00
Weed Control	MD	20	2000	40,000.00
Fertilizer Application	MD	2	2000	4,000.00
Harvesting	MD	20	2000	40,000.00
<b>Lunch</b>	Each	85	500	42,500.00
<b>SUBTOTAL</b>				<b>212,500.00</b>

#### Material Inputs

Mulch	van load	3	3000	9,000.00
Planting Material	heads/lbs	2420	50	121,000.00
Stakes	each	4840	10	48,400.00
<b>Fertiliser:</b>				
NPK 14.28.14	50 kg bag	3	6000	18,000.00
<b>Herbicide:</b>				
Glyphosate	litre	1	1200	1,200.00
<b>SUBTOTAL</b>				<b>197,600.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				41,010.00
**Tools discounted for 5 years				9,400.00
Land Charges per crop cycle				4,500.00
Supervision (15 percent of labour and material)				61,515.00
<b>SUBTOTAL</b>				<b>116,425.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>526,525.00</b>

Initial land clearing cost are not included given the wide variations present

Parish	Manchester	
Crop	SWEET PEPPER	
Crop Maturity	4 Months	
Reaping Period	6 Months	
Planting Distance (l x w)		
	cm	30 x 30
	inches	12 x 12
Plant Population	43560	
Topography	Hilly Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,141	
<b>Cost of Production \$/Kg</b>	<b>\$73</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2000	20,000.00
Dig Holes	MD	15	2000	30,000.00
Planting	MD	10	2000	20,000.00
Pesticide Application	MD	10	2000	20,000.00
Weed Control	MD	12	2000	24,000.00
Fertilizer Application	MD	2	2000	4,000.00
Harvesting	MD	40	2000	80,000.00
<b>Lunch</b>	Each	99	500	49,500.00
<b>SUBTOTAL</b>				<b>247,500.00</b>

#### Material Inputs

Planting Material	tin (per 1000)	9	1800	16,200.00
<b>Fertiliser:</b>				
NPK 14-28-14	50 kg bag	4	6000	24,000.00
<b>Insecticide</b>				
Caratrax	250 ml	10	850	8,500.00
<b>Fungicide</b>				
Cure	250 ml	2	4500	9,000.00
Dithane	pack	12	900	10,800.00
<b>Herbicide:</b>				
Glyphosate	litre	3	1300	3,900.00
<b>SUBTOTAL</b>				<b>72,400.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				31,990.00
**Tools discounted for 5 years				8,400.00
Land Charges per crop cycle				40,000.00
Supervision (15 percent of labour and material)				47,985.00
<b>SUBTOTAL</b>				<b>128,375.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>448,275.00</b>

Initial land clearing cost are not included given the wide variations present

Parish	Manchester	
Crop	IRISH POTATO	
Crop Maturity	3 Months	
Reaping Period	3 Months	
Planting Distance (l x w)		
	cm	60 x 30
	inches	30 x 12
Plant Population	17424	
Topography	Hilly Land	
Land Preparation		
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,175	
<b>Cost of Production \$/Kg</b>	<b>\$92</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	10	2000	20,000.00
Ploughing	MD	10	2000	20,000.00
Furrowing	MD	6	2000	12,000.00
Moulding	MD	6	2000	12,000.00
Planting	MD	6	2000	12,000.00
Pesticide Application	MD	9	2000	18,000.00
Fertilizer Application	MD	2	2000	4,000.00
Harvesting	MD	18	2000	36,000.00
<b>Lunch</b>	Each	67	500	33,500.00
<b>SUBTOTAL</b>				<b>167,500.00</b>

#### Material Inputs

Planting Material	22.7Kg	20	6300	126,000.00
<b>Fertiliser:</b>				
NPK 11-22-22	bags (50 kg)	2	5800	11,600.00
NPK 14-28-14	bags (50 kg)	5	6000	30,000.00
<b>Insecticide</b>				
Newmectin		1	3000	3,000.00
Caratrax	250 ml	2	800	1,600.00
<b>Fungicide</b>				
Dithane	pack	10	8000	80,000.00
Mancozeb	500 g	5	1000	5,000.00
Ridomil	500 g	5	2600	13,000.00
<b>Herbicide:</b>				
Glyphosate	5 litre	1	7000	7,000.00
<b>SUBTOTAL</b>				<b>277,200.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				44,470.00
**Tools discounted for 5 years				9,400.00
Land Charges per year				5,000.00
Supervision (15 percent of labour and material)				66,705.00
<b>SUBTOTAL</b>				<b>125,575.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>570,275.00</b>

Initial land clearing cost are not included given the wide variations present



Parish	Manchester	
Crop	Sweet Potato	
Crop Maturity	5 Months	
Reaping Period	4 Months	
Planting Distance (l x w)		
	cm	30 x 30
	inches	12 x 12
Plant Population	4840	
Topography	Relatively Flat Land	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,500	
Projected Marketable Yield (Kg)	8,198	
<b>Cost of Production \$/Kg</b>	<b>\$46</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	2	2500	5,000.00
Ploughing	MD	12	2500	30,000.00
Maintain Trenches	MD	3	2500	7,500.00
Moulding	MD	4	2500	10,000.00
Mulching	MD	4	2500	10,000.00
Planting	MD	6	2500	15,000.00
Pesticide Application	MD	2	2500	5,000.00
Weeding	MD	10	2500	25,000.00
Fertilizer Application	MD	4	2500	10,000.00
Harvesting	MD	20	2500	50,000.00
<b>Lunch</b>	Each	67	500	33,500.00
<b>SUBTOTAL</b>				<b>201,000.00</b>

#### Material Inputs

Mulch	van load	7	6000	42,000.00
Planting Material	slips	1	15000	15,000.00
<b>Fertiliser:</b>				
NPK 14-28-14	22.7 kg bags	5	3000	15,000.00
<b>Insecticide</b>				
Diazinon	litre	4	2000	8,000.00
<b>Fungicide</b>				
Mancozeb	500 g	6	1000	6,000.00
<b>Herbicide:</b>				
Gramoxone	litre	3	1300	3,900.00
<b>SUBTOTAL</b>				<b>89,900.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				29,090.00
**Tools discounted for 5 years				9,400.00
Land Charges per year				5,000.00
Supervision (15 percent of labour and material)				43,635.00
<b>SUBTOTAL</b>				<b>87,125.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>378,025.00</b>

Initial land clearing cost are not included given the wide variations present

Parish	Manchester	
Crop	YELLOW YAM	
Crop Maturity	8 Months	
Reaping Period	4 Months	
Planting Distance (l x w)		
	cm	
	inches	36x36
Plant Population	4840	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,500	
Projected Marketable Yield (Kg)	7,895	
<b>Cost of Production \$/Kg</b>	<b>\$72</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2500	25,000.00
Dig Holes	MD	10	2500	25,000.00
Prepare Planting Material	MA	2	2500	5,000.00
Planting/Make Mounds	MD	18	2500	45,000.00
Staking	MD	10	2500	25,000.00
Pesticide Application	MD	2	2500	5,000.00
Weed Control	MD	18	2500	45,000.00
Fertilizer Application	MD	2	2500	5,000.00
Harvesting	MD	20	2500	50,000.00
<b>Lunch</b>	Each	92	500	46,000.00
<b>SUBTOTAL</b>				<b>276,000.00</b>

#### Material Inputs

Planting Material	head (lbs)	2420	50	121,000.00
Stakes	(per 100)	3	6000	18,000.00
<b>Fertiliser:</b>				
NPK 14-28-14	bags (50 kg)	3	6000	18,000.00
<b>Insecticide</b>				
Karate	500 ml	1	3000	3,000.00
<b>Herbicide:</b>				
Glyphosate	litre	2	1300	2,600.00
<b>SUBTOTAL</b>				<b>162,600.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				43,860.00
**Tools discounted for 5 years				9,400.00
Land Charges per year				10,000.00
Supervision (15 percent of labour and material)				65,790.00
<b>SUBTOTAL</b>				<b>129,050.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>567,650.00</b>

Initial land clearing cost are not included given the wide variations present

Parish	Manchester
Crop	CARROT
Crop Maturity	4 Months
Reaping Period	1 Week
Planting Distance (l x w)	Broadcasting
Plant Population	
Topography	Relatively Flat Land
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	6,984
<b>Cost of Production \$/Kg</b>	<b>\$32</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Clearing	MD	8	2000	16,000.00
Ploughing	MD	10	2000	20,000.00
Planting	MD	1	2000	2,000.00
Pesticide Application	MD	2	2000	4,000.00
Weed Control	MD	2	2000	4,000.00
Fertilizer Application	MD	2	2000	4,000.00
Harvesting	MD	20	2000	40,000.00
<b>Lunch</b>	Each	45	500	22,500.00
<b>SUBTOTAL</b>				<b>112,500.00</b>

#### Material Inputs

Planting Material	tins	4	5000	20,000.00
<b>Fertiliser:</b>				
NPK 14.28.14	50 kg bag	3	6000	18,000.00
<b>Fungicide:</b>				
Dithane	pack	12	900	10,800.00
<b>Herbicide:</b>				
Glyphosate	litre	2	1300	2,600.00
<b>SUBTOTAL</b>				<b>51,400.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				16,390.00
**Tools discounted for 5 years				9,400.00
Land Charges per crop cycle				10,000.00
Supervision (15 percent of labour and material)				24,585.00
<b>SUBTOTAL</b>				<b>60,375.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>224,275.00</b>

Initial land clearing cost are not included given the wide variations present

Parish	Manchester
Crop	Cucumber
Crop Maturity	1.5 Months
Reaping Period	3 Months
Planting Distance (l x w)	24 x 24
Plant Population	10890
Topography	Relatively Flat Land
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,500
Projected Marketable Yield (Kg)	6,592
<b>Cost of Production \$/Kg</b>	<b>\$50</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2500	25,000.00
Ploughing	Tractor		20000	20,000.00
Planting	MD	8	2500	20,000.00
Pesticide Application	MD	8	2500	20,000.00
Weed Control	MD	15	2500	37,500.00
Fertilizer Application	MD	6	2500	15,000.00
Harvesting	MD	12	2500	30,000.00
<b>Lunch</b>	Each	59	500	29,500.00
<b>SUBTOTAL</b>				<b>197,000.00</b>

#### Material Inputs

Planting Material	seed	1	5000	5,000.00
<b>Fertiliser:</b>				
NPK 14-28-14	50 kg bag	6	6000	36,000.00
<b>Insecticide:</b>				
Caprid	100 ml	2	1000	2,000.00
<b>Fungicide:</b>				
Champion	litre	2	1500	3,000.00
Dithane	pack	2	900	1,800.00
<b>Herbicide:</b>				
Round Up	litre	1	1300	1,300.00
<b>SUBTOTAL</b>				<b>49,100.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				24,610.00
**Tools discounted for 5 years				9,400.00
Land Charges per year				13,000.00
Supervision (15 percent of labour and material)				36,915.00
<b>SUBTOTAL</b>				<b>83,925.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>330,025.00</b>

Initial land clearing cost are not included given the wide variations present

Parish	Manchester	
Crop	Tomato (Plummy)	
Crop Maturity	4 Months	
Reaping Period	3 Months	
Planting Distance (l x w)		
	cm	90 x 90
	inches	36 x 36
Plant Population	4840	
Topography	Relatively Flat Land	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,500	
Projected Marketable Yield (Kg)	7,204	
<b>Cost of Production \$/Kg</b>	<b>\$52</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2500	25,000.00
Dig Holes	MD	8	2500	20,000.00
Maintain Trenches	MD	2	2500	5,000.00
Nursery Operation	MD	2	2500	5,000.00
Planting	MD	10	2500	25,000.00
Pesticide Application	MD	10	2500	25,000.00
Weed Control	MD	8	2500	20,000.00
Fertilizer Application	MD	4	2500	10,000.00
Harvesting	MD	20	2500	50,000.00
<b>Lunch</b>	Each	74	500	37,000.00
<b>SUBTOTAL</b>				<b>222,000.00</b>

#### Material Inputs

Planting Material	seed	2	8500	17,000.00
Potting Mixture	bag	1	5600	5,600.00
Seed Trays	each	30	200	6,000.00
<b>Fertiliser:</b>				
NPK 11-22-22	50 kg bag	2	5800	11,600.00
<b>Insecticide</b>				
Caratrax	500 ml	1	1500	1,500.00
Caprid	500 ml	1	2800	2,800.00
Newmectin	500 ml	1	3000	3,000.00
<b>Fungicide</b>				
Dithane	pack	12	900	10,800.00
Topsin	250 g	1	1800	1,800.00
<b>Herbicide:</b>				
Round Up	litre	2	1300	2,600.00
<b>SUBTOTAL</b>				<b>62,700.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)				28,470.00
**Tools discounted for 5 years				9,400.00
Land Charges per year				7,000.00
Supervision (15 percent of labour and material)				42,705.00
<b>SUBTOTAL</b>				<b>87,575.00</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>372,275.00</b>

Initial land clearing cost are not included given the wide variations present