

# Cost of Production Estimates 2017



## **PLEASE NOTE:**

**All COP estimates are given per kilogram or where otherwise stated (NOT IN POUNDS).**

**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	Extension	Terrain	Irrigation Type
BEETROOT	21	9	St. Elizabeth	Pedro Plains	Flat Land	Semi-Irrigated
BITTER CASSAVA	16	7	St. Elizabeth	Braes River	Flat Land	Rainfed
BROCCOLI	53	24	St. Andrew	Mavis Bank	Hillside	Rainfed
BROCCOLI	61	28	St. Elizabeth	Malvern	Flat Land	Rainfed
BROCCOLI	59	27	St. Elizabeth	Junction	Flat Land	Rainfed
CABBAGE	20	9	Clarendon	Thompson Town	Hillside	Rainfed
CABBAGE	25	11	Clarendon	Kellits	Hillside	Rainfed
CABBAGE	21	10	Hanover	Green Island	Flat Land	Rainfed
CABBAGE	20	9	Manchester	Christiana	Flat Land	Rainfed
CABBAGE	18	8	St. Andrew	Mavis Bank	Hillside	Rainfed
CABBAGE	17	8	St. Ann	Alexandria	Hillside	Rainfed
CABBAGE	14	6	St. Ann	Claremont	Hillside	Rainfed
CABBAGE	20	9	St. Elizabeth	Southfield	Flat Land	Irrigated
CABBAGE	29	13	St. James	Maroon Town	Hillside	Rainfed
CABBAGE	22	10	St. Mary	Carron Hall	Hillside	Rainfed
CABBAGE	20	9	St. Mary	Oracabessa	Flat Land	Rainfed
CABBAGE	17	8	Westmoreland	Darliston	Hillside	Rainfed
CABBAGE	21	10	Westmoreland	New Works	Hillside	Rainfed
CALLALOO	14	6	St. Catherine	Kitson Town	Flat Land	Irrigated
CALLALOO	15	7	St. Catherine	Spanish Town	Flat Land	Irrigated
CALLALOO	12	5	St. Elizabeth	Mountainside	Flat Land	Semi-Irrigated
CALLALOO	20	9	St. James	Anchovy	Flat Land	Semi-Irrigated
CANTALOUPE	21	10	St. Elizabeth	Pedro Plains	Flat Land	Irrigated
CARROT	40	18	Clarendon	Thompson Town	Hillside	Rainfed
CARROT	27	12	Manchester	Mandeville	Flat Land	Rainfed
CARROT	28	13	Manchester	Cross Keys	Flat Land	Rainfed
CARROT	34	16	Manchester	Mile Gully	Flat Land	Rainfed
CARROT	38	17	St. Andrew	Gordon Town	Flat Land	Rainfed
CARROT	32	15	St. Ann	Cave Valley	Flat Land	Rainfed
CARROT	35	16	St. Catherine	Lluidasvale	Flat Land	Rainfed
CARROT	45	20	St. Elizabeth	Southfield	Flat Land	Rainfed
CARROT	40	18	St. Thomas	Trinityville	Hillside	Rainfed
CARROT	35	16	Westmoreland	New Works	Hillside	Rainfed
CAULIFLOWER	58	26	St. Elizabeth	Junction	Flat Land	Rainfed
COCO	28	13	Portland	Fruitful Vale	Hillside	Rainfed
COCO	31	14	Portland	Kildare	Hillside	Rainfed
CUCUMBER	42	19	St. Andrew	Gordon Town	Flat Land	Rainfed
CUCUMBER	36	16	St. Catherine	Old Harbour	Flat Land	Irrigated
CUCUMBER	32	15	St. Thomas	Yallahs	Flat Land	Irrigated
DASHEEN	36	16	Hanover	Green Island	Hillside	Rainfed
DASHEEN	32	14	Portland	Manchioneal	Hillside	Rainfed
DASHEEN	35	16	Portland	Windsor	Flat Land	Rainfed
DASHEEN	28	13	Westmoreland	Little London	Flat Land	Rainfed
GINGER	55	25	Clarendon	Kellits	Hillside	Rainfed
GINGER	49	22	Portland	Windsor	Hillside	Rainfed
GINGER	52	24	St. Ann	Cave Valley	Hillside	Rainfed
GINGER	50	23	St. James	Maroon Town	Hillside	Rainfed
HORSE PLANTAIN	44	20	Hanover	Lucea	Hillside	Rainfed
HORSE PLANTAIN	29	13	Portland	Manchioneal	Hillside	Rainfed
HORSE PLANTAIN	39	18	St. Andrew	Temple Hall	Hillside	Rainfed
HORSE PLANTAIN	42	19	St. James	Spring Mount	Hillside	Rainfed
HORSE PLANTAIN	40	18	St. James	Latium	Hillside	Rainfed
HORSE PLANTAIN	31	14	St. Thomas	Morant Bay	Hillside	Rainfed
HOT PEPPER (WI RED)	72	33	Clarendon	May Pen	Flat Land	Irrigated
HOT PEPPER (WI RED)	74	34	Hanover	Miles Town	Flat Land	Rainfed
HOT PEPPER (WI RED)	78	36	St. Ann	Moneague	Flat Land	Rainfed
HOT PEPPER (WI RED)	79	36	St. Catherine	Spanish Town	Flat Land	Irrigated
HOT PEPPER (WI RED)	75	34	St. Elizabeth	Balaclava	Flat Land	Irrigated
HOT PEPPER (WI RED)	78	36	St. James	Montego Bay	Flat Land	Irrigated
HOT PEPPER (WI RED)	76	34	St. Mary	Annotto Bay	Flat Land	Irrigated
HOT PEPPER (WI RED)	72	33	St. Thomas	Yallahs	Flat Land	Irrigated
HOT PEPPER (WI RED)	75	34	Trelawny	Wakefield	Flat Land	Irrigated
IRISH POTATO	51	23	Clarendon	Thompson Town	Hillside	Rainfed
IRISH POTATO	53	24	Manchester	Christiana	Flat Land	Rainfed
IRISH POTATO	44	20	St. Ann	Moneague	Flat Land	Rainfed
IRISH POTATO	58	27	St. Catherine	Peartree Grove	Hillside	Rainfed
IRISH POTATO	54	25	St. Mary	Carron Hall	Hillside	Rainfed
IRISH POTATO	47	21	St. Mary	Gayle	Flat Land	Rainfed
IRISH POTATO	61	28	Trelawny	Albert Town	Hillside	Rainfed
IRISH POTATO	63	28	Trelawny	Low River	Hillside	Rainfed
IRISH POTATO	57	26	Westmoreland	Darliston	Hillside	Rainfed

LETTUCE	55	25	Clarendon	Kellits	Hillside	Rainfed
LETTUCE	48	22	St. Ann	Claremont	Flat Land	Rainfed
LUCEA YAM	64	29	Hanover	Lucea	Hillside	Rainfed
LUCEA YAM	57	26	Hanover	Cascade	Hillside	Rainfed
LUCEA YAM	57	26	Trelawny	Albert Town	Hillside	Rainfed
NEGRO YAM	70	32	Manchester	Christiana	Flat Land	Rainfed
OKRA	50	23	St. Catherine	Kitson Town	Flat Land	Irrigated
OKRA	45	20	St. Catherine	Old Harbour	Flat Land	Irrigated
OKRA	46	21	St. Catherine	Spanish Town	Flat Land	Irrigated
OKRA	38	17	St. Thomas	Yallahs	Flat Land	Irrigated
ONION	55	25	Trelawny	Falmouth (Braco)	Flat Land	Irrigated
PAK CHOI	31	14	Clarendon	Kellits	Hillside	Rainfed
PAK CHOI	20	9	St. Ann	Claremont	Hillside	Rainfed
PEANUT (\$/bushel)	2863		St. Elizabeth	Lacovia	Flat Land	Rainfed
PEANUT (\$/bushel)	2990		St. Elizabeth	Black River	Flat Land	Rainfed
PEANUT (\$/bushel)	2954		St. Elizabeth	Mountainside	Flat Land	Semi-Irrigated
PINEAPPLE (BULL HEAD)	34	15	St. James	Maroon Town	Hillside	Rainfed
PINEAPPLE (MD 2)	47	21	Trelawny	Wakefield	Flat Land	Rainfed
PINEAPPLE (SUGAR LOAF)	45	21	Westmoreland	Leamington	Hillside	Rainfed
PUMPKIN (BODLES GLOBE)	22	10	Portland	Fruitful Vale	Flat Land	Rainfed
PUMPKIN (BODLES GLOBE)	16	7	St. Mary	Gayle	Flat Land	Rainfed
PUMPKIN (BODLES GLOBE)	23	10	St. Thomas	Bath	Flat Land	Rainfed
PUMPKIN (NATIVE)	22	10	Clarendon	May Pen	Flat Land	Irrigated
PUMPKIN (NATIVE)	20	9	Hanover	Miles Town	Flat Land	Rainfed
PUMPKIN (NATIVE)	26	12	Manchester	Mandeville	Flat Land	Rainfed
PUMPKIN (NATIVE)	24	11	Portland	Manchioneal	Hillside	Rainfed
PUMPKIN (NATIVE)	28	13	St. Andrew	Salisbury Plain	Hillside	Rainfed
PUMPKIN (NATIVE)	17	8	St. Ann	Moneague	Flat Land	Rainfed
PUMPKIN (NATIVE)	18	8	St. Ann	Cave Valley	Hillside	Rainfed
PUMPKIN (NATIVE)	23	10	St. Catherine	Kitson Town	Flat Land	Irrigated
PUMPKIN (NATIVE)	23	10	St. Catherine	Old Harbour	Flat Land	Irrigated
PUMPKIN (NATIVE)	16	7	St. Elizabeth	Black River	Flat Land	Rainfed
PUMPKIN (NATIVE)	15	7	St. Elizabeth	Mountainside	Flat Land	Semi-Irrigated
PUMPKIN (NATIVE)	27	12	Westmoreland	Leamington	Flat Land	Rainfed
RENTA YAM	55	25	Portland	Kildare	Flat Land	Rainfed
SCOTCH BONNET PEPPER	82	37	St. Mary	Annotto Bay	Flat Land	Irrigated
SCOTCH BONNET PEPPER	83	38	St. Mary	Oracabessa	Flat Land	Rainfed
SCOTCH BONNET PEPPER	78	36	St. Thomas	Bath	Flat Land	Irrigated
SCOTCH BONNET PEPPER	71	32	St. Thomas	Seaforth	Flat Land	Irrigated
SCOTCH BONNET PEPPER	81	37	Trelawny	Falmouth (Braco)	Flat Land	Irrigated
SWEET CASSAVA	16	7	Clarendon	May Pen	Flat Land	Irrigated
SWEET CASSAVA	14	7	St. Catherine	Linstead	Flat Land	Rainfed
SWEET CASSAVA	16	7	St. Catherine	Kitson Town	Flat Land	Rainfed
SWEET CASSAVA	12	6	St. Elizabeth	Braes River	Flat Land	Rainfed
SWEET CASSAVA	18	8	St. James	Montego Bay	Hillside	Rainfed
SWEET CASSAVA	12	6	St. Mary	Annotto Bay	Flat Land	Rainfed
SWEET CASSAVA	21	9	St. Thomas	Morant Bay	Hillside	Rainfed
SWEET PEPPER	36	16	Manchester	Mandeville	Flat Land	Rainfed
SWEET PEPPER	34	16	Manchester	Cross Keys	Flat Land	Rainfed
SWEET POTATO	40	18	Manchester	Cross Keys	Flat Land	Rainfed
SWEET POTATO	45	20	St. Andrew	Salisbury Plain	Hillside	Rainfed
SWEET POTATO	20	9	St. Ann	Alexandria	Flat Land	Rainfed
SWEET POTATO	42	19	St. Catherine	Old Harbour	Flat Land	Irrigated
SWEET POTATO	33	15	St. Elizabeth	Malvern	Flat Land	Rainfed
SWEET POTATO	33	15	St. Elizabeth	Black River	Flat Land	Rainfed
SWEET POTATO	32	15	St. Elizabeth	Mountainside	Flat Land	Semi-Irrigated
SWEET POTATO	28	13	St. Mary	Gayle	Flat Land	Rainfed
SWEET POTATO	43	19	St. Thomas	Seaforth	Flat Land	Irrigated
SWEET POTATO	39	18	Trelawny	Jackson Town	Flat Land	Rainfed
SWEET POTATO	43	20	Westmoreland	Leamington	Hillside	Rainfed
TOMATO (PLUMMY)	55	25	Clarendon	May Pen	Flat Land	Irrigated
TOMATO (PLUMMY)	50	23	Manchester	Mandeville	Flat Land	Rainfed
TOMATO (PLUMMY)	48	22	St. Elizabeth	Malvern	Flat Land	Semi-Irrigated
TOMATO (PLUMMY)	51	23	St. Elizabeth	Southfield	Flat Land	Irrigated
TOMATO (PLUMMY)	54	24	St. Mary	Oracabessa	Flat Land	Rainfed
TOMATO (PLUMMY)	51	23	Westmoreland	New Works	Flat Land	Rainfed
TOMATO (SLICING)	40	18	Hanover	Green Island	Flat Land	Rainfed

WATERMELON	21	10	Manchester	Cross Keys	Flat Land	Rainfed
WATERMELON	19	8	St. Elizabeth	Pedro Plains	Flat Land	Semi-Irrigated
YELLOW YAM	52	24	Clarendon	Kellits	Hillside	Rainfed
YELLOW YAM	66	30	Hanover	Lucea	Hillside	Rainfed
YELLOW YAM	57	26	Hanover	Cascade	Hillside	Rainfed
YELLOW YAM	61	28	Manchester	Christiana	Flat Land	Rainfed
YELLOW YAM	68	31	St. Catherine	Peartree Grove	Flat Land	Rainfed
YELLOW YAM	42	19	St. Elizabeth	Balaclava	Flat Land	Rainfed
YELLOW YAM	61	28	St. James	Anchovy	Flat Land	Rainfed
YELLOW YAM	61	28	Trelawny	Jackson Town	Flat Land	Rainfed
YELLOW YAM	65	30	Trelawny	Albert Town	Hillside	Rainfed
YELLOW YAM	54	24	Trelawny	Lowe River	Hillside	Rainfed
YELLOW YAM	65	30	Westmoreland	Williamsfield	Hillside	Rainfed

Parish	Clarendon	
Extension Area	Thompson Town	
Crop	CABBAGE	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	60 x 30
	inches	24 x 12
Plant Population	21780	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	15,909	
<b>Cost of Production \$/Kg</b>	<b>\$20</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Dig Holes	MD	5	2000	10000
Nursery Operations	MD	4	2000	8000
Transplanting	MD	6	2000	12000
Pesticide Application	MD	16	1900	30400
Weed Control	MD	8	2000	16000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	20	2000	40000
<b>Lunch</b>		66	500	33000
<b>SUBTOTAL</b>				<b>\$163,400</b>

**Material Inputs**

Planting Material	packs (10000 seeds)	2.2	9000	19800
<b>Fertiliser:</b>				
NPK	bags (50 kg)	5	6000	30000
<b>Insecticide</b>				32000
<b>Herbicide:</b>				
Broad Spectrum	litre	1	1600	1600
<b>SUBTOTAL</b>				<b>\$83,400</b>

**Other Costs**

Contingencies (10 percent of labour and material)				24680
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				37020
<b>SUBTOTAL</b>				<b>\$73,433</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$320,233</b>

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

Parish	Clarendon	
Extension Area	Thompson Town	
Crop	IRISH POTATO	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 30
	inches	24 x 12
Planting Population	21780	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	10,000	
<b>Cost of Production \$/Kg</b>	<b>\$51</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	MD	10	2000	20000
Furrowing	MD	6	2000	12000
Moulding	MD	12	2000	24000
Planting	MD	5	2000	10000
Pesticide Application	MD	10	2000	20000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	20	2000	40000
<b>Lunch</b>		80	500	40000
<b>SUBTOTAL</b>				<b>\$200,000</b>

#### Material Inputs

Planting Material	<b>(elite seeds)</b> bags	18	6000	108000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	8	6000	48000
<b>Insecticide</b>				12000
<b>Fungicide</b>				24000
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$196,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				39680
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				59520
<b>SUBTOTAL</b>				<b>\$112,600</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$509,400</b>

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

Parish	Clarendon
Extension Area	Thompson Town
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance in (l x w)	Broadcast
Planting Population	≈116000
Terrain	Hillside Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	5,455
<b>Cost of Production \$/Kg</b>	<b>\$40</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Dig Holes	MD	6	2000	12000
Furrowing	MD	6	2000	12000
Planting	MD	1	2000	2000
Pesticide Application	MD	4	2000	8000
Weed Control	MD	4	2000	8000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	12	2000	24000
<b>Lunch</b>		40	500	20000
<b>SUBTOTAL</b>				<b>\$100,000</b>

**Material Inputs**

Planting Material	lbs	3	8000	24000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
<b>Insecticide</b>				6000
<b>Fungicide</b>				3200
<b>Herbicide:</b>				
Selective	lbs	6	1100	6600
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$64,200</b>

**Other Costs**

Contingencies (10 percent of labour and material)				16420
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (10 percent of labour and material)				24630
<b>SUBTOTAL</b>				<b>\$52,783</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$216,983</b>

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

Parish	Clarendon	
Extension Area	Kellits	
Crop	PAK CHOI	
Crop Maturity	2 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 30
	inches	24 x 12
Planting Population	21780	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	10,000	
<b>Cost of Production \$/Kg</b>	<b>\$31</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	7	2000	14000
Ploughing	MD	8	2000	16000
Harrowing	MD	5	2000	10000
Maintain Trench	MD	3	2000	6000
Nursery Operations	MD	4	2000	8000
Transplanting	MD	10	2000	20000
Pesticide Application	MD	12	2000	24000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	20	2000	40000
<b>Lunch</b>		71	500	35500
<b>SUBTOTAL</b>				<b>\$177,500</b>

#### Material Inputs

Planting Material	lbs	0.5	6000	3000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
Urea	bags (50 kg)	2	6000	12000
<b>Insecticide</b>				3500
<b>Fungicide</b>				11600
<b>Herbicide:</b>				
Broad Spectrum	litre	5	1600	8000
<b>SUBTOTAL</b>				<b>\$62,100</b>

#### Other Costs

Contingencies (10 percent of labour and material)				23960
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				35940
<b>SUBTOTAL</b>				<b>\$71,633</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$311,233</b>

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

Parish	Clarendon	
Extension Area	Kellits	
Crop	CABBAGE	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	45 x 45
	inches	18 x 18
Plant Population	19360	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	14,545	
<b>Cost of Production \$/Kg</b>	<b>\$25</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	7	2000	14000
Ploughing	CW	12	2500	30000
Dig Holes	MD	5	2000	10000
Maintain Trench	MD	3	2000	6000
Nursery Operations	MD	4	2000	8000
Transplanting	MD	6	2000	12000
Pesticide Application	MD	14	2000	28000
Weed Control	MD	8	2000	16000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	15	2000	30000
<b>Lunch</b>		64	500	32000
<b>SUBTOTAL</b>				<b>\$190,000</b>

#### Material Inputs

Planting Material	packs (10000 seeds)	2	9000	18000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	5500	22000
<b>Insecticide</b>				35000
<b>Fungicide</b>				4500
<b>Herbicide:</b>				
Broad Spectrum	litre	5	1600	8000
<b>SUBTOTAL</b>				<b>\$87,500</b>

#### Other Costs

Contingencies (10 percent of labour and material)				27750
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				41625
<b>SUBTOTAL</b>				<b>\$81,108</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$358,608</b>

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

Parish	Clarendon	
Extension Area	Kellits	
Crop	GINGER	
Crop Maturity	10 Months	
Reaping Period	4 Months	
Planting Distance (l x w)		
	cm	30 x 30
	inches	12 x 12
Plant Population	43560	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$55</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	7	14000	5	10000
Ploughing	MD	2000	15	30000	15	30000
Harrowing	MD	2000	8	16000	8	16000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	15	30000	15	30000
Weed Control	MD	2000	30	60000	24	48000
Fertilizer Application	MD	2000	3	6000	3	6000
Harvesting	MD	2000	20	40000	20	40000
<b>Lunch</b>		500	101	50500	93	46500
<b>SUBTOTAL</b>				<b>\$252,500</b>		<b>\$232,500</b>

#### Material Inputs

Planting Material		lbs	150	2000	300000		
<b>Fertiliser:</b>							
NPK		bags (50 kg)	6000	4	24000	3	18000
<b>Fungicide</b>					9200		4600
<b>Herbicide:</b>							
Broad Spectrum		litre	1600	3	4800	2	3200
<b>SUBTOTAL</b>					<b>\$338,000</b>		<b>\$25,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)		59050		25830
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		88575		38745
<b>SUBTOTAL</b>		<b>\$166,025</b>		<b>\$82,975</b>
<b>TOTAL COST</b>		<b>\$756,525</b>		<b>\$341,275</b>

Projected Marketable Yield

10000

10000

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	Clarendon	
Extension Area	Kellits	
Crop	LETTUCE	
Crop Maturity	3 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)		
	cm	30 x 45
	inches	12 x 18
Plant Population	29040	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	5,455	
<b>Cost of Production \$/Kg</b>	<b>\$55</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	7	2000	14000
Ploughing	MD	12	2000	24000
Nursery Operations	MD	3	2000	6000
Transplanting	MD	6	2000	12000
Pesticide Application	MD	12	2000	24000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	10	2000	20000
<b>Lunch</b>		62	500	31000
<b>SUBTOTAL</b>				<b>\$155,000</b>

#### Material Inputs

Planting Material	lbs	2	5500	11000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
Urea	bags (50 kg)	2	6000	12000
<b>Insecticide</b>				6000
<b>Fungicide</b>				11600
<b>Herbicide:</b>				
Broad Spectrum	litre	5	1600	8000
<b>SUBTOTAL</b>				<b>\$72,600</b>

#### Other Costs

Contingencies (10 percent of labour and material)				22760
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				34140
<b>SUBTOTAL</b>				<b>\$70,300</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$297,900</b>

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

Parish	Clarendon	
Extension Area	Kellits	
Crop	YELLOW YAM	
Crop Maturity	10 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	150 x 180
	inches	60 x 72
Planting Population	1452	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$52</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	7	14000	4	8000
Make Mounds	CW	2000	18	36000	14	28000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	6	12000	6	12000
Stake and Tie	MD	2000	12	24000	12	24000
Weed Control	MD	2000	15	30000	10	20000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	20	40000	20	40000
<b>Lunch</b>		500	64	32000	56	28000
<b>SUBTOTAL</b>				<b>\$196,000</b>		<b>\$168,000</b>

#### Material Inputs

Planting Material		lbs	50	4400	220000		
Stakes		each	40	1452	58080	1452	58080
<b>Fertiliser:</b>							
NPK		bags (50 kg)	6000	2	12000	2	12000
Sulphate of Ammonia		bags (50 kg)	3200	2	6400	2	6400
<b>Herbicide:</b>							
Broad Spectrum		litre	1600	4	6400	3	4800
<b>SUBTOTAL</b>					<b>\$290,080</b>		<b>\$70,080</b>

#### Other Costs

Contingencies (10 percent of labour and material)		48608		23808
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		72912		35712
<b>SUBTOTAL</b>		<b>\$139,920</b>		<b>\$77,920</b>
<b>TOTAL COST</b>		<b>\$626,000</b>		<b>\$316,000</b>

Projected Marketable Yield

9091

9091

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	Clarendon	
Extension Area	May Pen	
Crop	HOT PEPPER (WI RED)	
Crop Maturity	3 Months	
Reaping Period	9 Months	
Planting Distance (l x w)		
	cm	30 x 150
	inches	12 x 60
Planting Population	8712	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	12,273	
<b>Cost of Production \$/Kg</b>	<b>\$72</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	3	2500	7500
Harrowing	tractor	2	2500	5000
Furrowing	tractor	1	2500	2500
Lining Irrigation Hose	MD	3	2000	6000
Planting	MD	3	2000	6000
Pesticide Application	MD	18	2000	36000
Weed Control	MD	30	2000	60000
Fertilizer Application	MD	5	2000	10000
Harvesting	MD	85	2000	170000
<b>Lunch</b>		149	500	74500
<b>SUBTOTAL</b>				<b>\$387,500</b>

#### Material Inputs

Planting Material	each	8712	15	130680
Water	month	12	2000	24000
<b>Fertiliser:</b>				
Soluble	bags	9	8500	76500
NPK	bags (50 kg)	3	5300	15900
<b>Insecticide</b>				33750
<b>Fungicide</b>				19000
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$303,030</b>

#### Other Costs

Contingencies (10 percent of labour and material)				69053
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				103580
<b>SUBTOTAL</b>				<b>\$191,033</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$881,563</b>

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

Parish	Clarendon	
Extension Area	May Pen	
Crop	TOMATO (PLUMMY)	
Crop Maturity	3 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)		
	cm	30 x 150
	inches	12x 60
Plant Population	8712	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	8,182	
<b>Cost of Production \$/Kg</b>	<b>\$55</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	3	2500	7500
Harrowing	tractor	2	2500	5000
Furrowing	tractor	1	2500	2500
Nursery Operations	MD	4	2000	8000
Transplanting	MD	6	2000	12000
Pesticide Application	MD	12	2000	24000
Weed Control	MD	15	2000	30000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	15	2000	30000
<b>Lunch</b>		59	500	29500
<b>SUBTOTAL</b>				<b>\$162,500</b>

#### Material Inputs

Planting Material	each	8712	10	87120
Water	month	4.5	2000	9000
<b>Fertiliser:</b>				
Soluble	bags	6	8000	48000
<b>Insecticide</b>				14000
<b>Fungicide</b>				21000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$185,520</b>

#### Other Costs

Contingencies (10 percent of labour and material)				34802
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				52203
<b>SUBTOTAL</b>				<b>\$98,738</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$446,758</b>

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

Parish	Clarendon	
Extension Area	May Pen	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	300 x 90
	inches	120 x 36
Plant Population	1452	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	10,000	
<b>Cost of Production \$/Kg</b>	<b>\$22</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	4	2500	10000
Harrowing	tractor	2	2500	5000
Furrowing	tractor	1	2500	2500
Planting	MD	2	2000	4000
Pesticide Application	MD	5	2000	10000
Weed Control	MD	6	2000	12000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	14	2000	28000
<b>Lunch</b>		33	500	16500
<b>SUBTOTAL</b>				<b>\$100,000</b>

Material Inputs				
Planting Material	lb	1	1200	1200
Water	month	4	2000	8000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	2	5300	10600
Sulphate of Ammonia	bags (50 kg)	2	4200	8400
<b>Insecticide</b>				21000
<b>Fungicide</b>				9600
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$63,600</b>

Other Costs				
Contingencies (10 percent of labour and material)				16360
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				24540
<b>SUBTOTAL</b>				<b>\$54,300</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$217,900</b>

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

Parish	Clarendon	
Extension Area	May Pen	
Crop	SWEET CASSAVA	
Crop Maturity	9 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	60 x 150
	inches	24x 60
Plant Population	4356	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$16</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	5	10000	4	8000
Ploughing	tractor	2500	3	7500	3	7500
Harrowing	tractor	2500	2	5000	2	5000
Furrowing	tractor	2500	1	2500	1	2500
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	4	8000	4	8000
Weed Control	MD	2000	3	6000	3	6000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	12	24000	12	24000
<b>Lunch</b>		500	28	14000	27	13500
<b>SUBTOTAL</b>				<b>\$85,000</b>		<b>\$82,500</b>

#### Material Inputs

Planting Material		each	7	4356	30492		
Water		month	2000	9	18000	9	18000
<b>Fertiliser:</b>							
NPK		bags (50 kg)	6000	3	18000	2	12000
<b>Herbicide:</b>							
Broad Spectrum		litre	1600	3	4800	2	3200
<b>SUBTOTAL</b>					<b>\$71,292</b>		<b>\$15,200</b>

#### Other Costs

Contingencies (10 percent of labour and material)		15629.2		9770
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		23443.8		14655
<b>SUBTOTAL</b>		<b>\$57,473</b>		<b>\$42,825</b>
<b>TOTAL COST</b>		<b>\$213,765</b>		<b>\$140,525</b>

Projected Marketable Yield

11364

11364

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

HANOVER

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Parish	Hanover	
Extension Area	Miles Town	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	3 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	240 x 240
	inches	96 x 96
Plant Population	681	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	9,091	
<b>Cost of Production \$/Kg</b>	<b>\$20</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Dig Holes/Plant	MD	4	2000	8000
Pesticide Application	MD	6	2000	12000
Weed Control	MD	8	2000	16000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	10	2000	20000
<b>Lunch</b>		34	500	17000
<b>SUBTOTAL</b>				<b>\$85,000</b>

Material Inputs				
Planting Material	lb	1	1200	1200
<b>Fertiliser:</b>				
NPK	bags (50 kg)	2	6000	12000
<b>Insecticide</b>				19500
<b>Fungicide</b>				12900
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$48,800</b>

Other Costs	
Contingencies (10 percent of labour and material)	13380
**Tools discounted for 5 years	8400
Land Charges per crop cycle	5500
Supervision (15 percent of labour and material)	20070
<b>SUBTOTAL</b>	<b>\$47,350</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>	<b>\$181,150</b>

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

HANOVER

Parish	Hanover	
Extension Area	Miles Town	
Crop	HOT PEPPER (WI RED)	
Crop Maturity	3 Months	
Reaping Period	9 Months	
Planting Distance (l x w)	cm	90 x 90
	inches	36 x 36
Plant Population	4840	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	9,091	
<b>Cost of Production \$/Kg</b>	<b>\$74</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	3	2500	7500
Harrowing	tractor	2	2500	5000
Furrowing	tractor	2	2500	5000
Planting	MD	7	2000	14000
Pesticide Application	MD	24	2000	48000
Weed Control	MD	15	2000	30000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	85	2000	170000
<b>Lunch</b>		137	500	68500
<b>SUBTOTAL</b>				<b>\$360,000</b>

Material Inputs				
Planting Material	each	4840	12	58080
<b>Fertiliser:</b>				
NPK	bags (50 kg)	8	6000	48000
<b>Insecticide</b>				30000
<b>Fungicide</b>				24500
<b>SUBTOTAL</b>				<b>\$160,580</b>

Other Costs				
Contingencies (10 percent of labour and material)				52058
**Tools discounted for 5 years				8400
Land Charges per crop cycle				11000
Supervision (15 percent of labour and material)				78087
<b>SUBTOTAL</b>				<b>\$149,545</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$670,125</b>

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

HANOVER

Parish	Hanover	
Extension Area	Green Island	
Crop	TOMATO (SLICING)	
Crop Maturity	3 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	13,636	
<b>Cost of Production \$/Kg</b>	<b>\$40</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2000	20000
Dig Holes	MD	8	2000	16000
Planting	MD	12	2000	24000
Pesticide Application	MD	5	2000	10000
Weed Control	MD	20	2000	40000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	24	2000	48000
<b>Lunch</b>		81	500	40500
<b>SUBTOTAL</b>				<b>\$202,500</b>

**Material Inputs**

Planting Material	each	10890	15	163350
<b>Fertiliser:</b>				
NPK	bags (50 kg)	5	6000	30000
<b>Insecticide</b>				18500
<b>Fungicide</b>				10900
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$225,950</b>

**Other Costs**

Contingencies (10 percent of labour and material)				42845
**Tools discounted for 5 years				7000
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				64268
<b>SUBTOTAL</b>				<b>\$119,113</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$547,563</b>

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

HANOVER

Parish	Hanover	
Extension Area	Green Island	
Crop	DASHEEN	
Crop Maturity	6 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,500	
<b>Cost of Production \$/Kg</b>	<b>\$36</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2500	10	25000	7	17500
Prepare Planting Material	MD	2500	4	10000	4	10000
Dig Holes/Plant	MD	2500	15	37500	12	30000
Pesticide Application	MD	2500	6	15000	4	10000
Weed Control	MD	2500	4	10000	4	10000
Fertilizer Application	MD	2500	1	2500	1	2500
Harvesting	MD	2500	20	50000	20	50000
<b>Lunch</b>		500	60	30000	52	26000
<b>SUBTOTAL</b>				<b>\$180,000</b>		<b>\$156,000</b>

Material Inputs						
Planting Material	each	10	10890	108900		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	4	24000	3	18000
<b>Insecticide</b>				13000		6500
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	4	6400	3	4800
<b>SUBTOTAL</b>				<b>\$152,300</b>		<b>\$29,300</b>

Other Costs			
Contingencies (10 percent of labour and material)		33230	18530
**Tools discounted for 5 years		8400	8400
Land Charges per crop cycle		10000	10000
Supervision (15 percent of labour and material)		49845	27795
<b>SUBTOTAL</b>		<b>\$101,475</b>	<b>\$64,725</b>
<b>TOTAL COST</b>		<b>\$433,775</b>	<b>\$250,025</b>

Projected Marketable Yield 9545 9545

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

HANOVER

Parish	Hanover	
Extension Area	Green Island	
Crop	CABBAGE	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 30
	inches	24 x 12
Plant Population	21780	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,500	
Projected Marketable Yield (Kg)	19,545	
<b>Cost of Production \$/Kg</b>	<b>\$21</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2500	25000
Ploughing	CW	12	2500	30000
Dig Holes	CW	8	2500	20000
Nursery Operations	MD	3	2500	7500
Transplanting	MD	10	2500	25000
Pesticide Application	MD	16	2500	40000
Weed Control	MD	12	2500	30000
Fertilizer Application	MD	2	2500	5000
Harvesting	MD	16	2500	40000
<b>Lunch</b>		69	500	34500
<b>SUBTOTAL</b>				<b>\$257,000</b>

Material Inputs				
Planting Material	packs (10000 seeds)	2.2	9000	19800
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				18500
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$68,700</b>

Other Costs				
Contingencies (10 percent of labour and material)				32570
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				48855
<b>SUBTOTAL</b>				<b>\$93,158</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$418,858</b>

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

HANOVER

Parish	Hanover	
Extension Area	Lucea	
Crop	LUCEA YAM	
Crop Maturity	6 Months	
Reaping Period	2.5 Months	
Planting Distance (l x w)		
	cm	180 x 180
	inches	72 x 72
Plant Population	1210	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$64</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	16	32000	10	20000
Make Mounds	CW	2000	18	36000	13	26000
Prepare Planting Material	MD	2000	1	2000	1	2000
Planting	MD	2000	10	20000	6	12000
Stake and Tie	MD	2000	8	16000	8	16000
Weed Control	MD	2000	8	16000	5	10000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	20	40000	20	40000
<b>Lunch</b>		500	64	32000	51	25500
<b>SUBTOTAL</b>				<b>\$196,000</b>		<b>\$153,500</b>

**Material Inputs**

Planting Material	lbs	40	4000	160000		
Stakes	each	40	1210	48400	1210	48400
<b>Fertiliser:</b>						
NPK	bags (50 kg)	5300	5	26500	3	15900
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	4	6400	3	4800
<b>SUBTOTAL</b>				<b>\$234,900</b>		<b>\$64,300</b>

**Other Costs**

Contingencies (10 percent of labour and material)	43090		21780
**Tools discounted for 5 years	8400		8400
Land Charges per crop cycle	10000		10000
Supervision (15 percent of labour and material)	64635		32670
<b>SUBTOTAL</b>	<b>\$126,125</b>		<b>\$72,850</b>
<b>TOTAL COST</b>	<b>\$557,025</b>		<b>\$290,650</b>

Projected Marketable Yield

6600

6600

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

HANOVER

Parish	Hanover	
Extension Area	Lucea	
Crop	YELLOW YAM	
Crop Maturity	10 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	150 x 150
	inches	60 x 60
Plant Population	1742	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$66</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	16	32000	10	20000
Make Mounds	CW	2000	27	54000	20	40000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	12	24000	12	24000
Stake and Tie	MD	2000	10	20000	10	20000
Weed Control	MD	2000	10	20000	6	12000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	28	56000	28	56000
<b>Lunch</b>		500	80	40000	70	35000
<b>SUBTOTAL</b>				<b>\$254,000</b>		<b>\$215,000</b>

**Material Inputs**

Planting Material	lbs	40	5800	232000		
Stakes	each	40	1742	69680	1742	69680
<b>Fertiliser:</b>						
NPK	bags (50 kg)	5300	5	26500	3	15900
<b>SUBTOTAL</b>				<b>\$328,180</b>		<b>\$85,580</b>

**Other Costs**

Contingencies (10 percent of labour and material)	58218		30058
**Tools discounted for 5 years	8400		8400
Land Charges per crop cycle	10000		10000
Supervision (15 percent of labour and material)	87327		45087
<b>SUBTOTAL</b>	<b>\$163,945</b>		<b>\$93,545</b>
<b>TOTAL COST</b>	<b>\$746,125</b>		<b>\$394,125</b>

Projected Marketable Yield 8636 8636

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

HANOVER

Parish	Hanover	
Extension Area	Lucea	
Crop	HORSE PLANTAIN	
Crop Maturity	9 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)		
	cm	240 x 240
	inches	96 x 96
Plant Population	681	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,734	
<b>Cost of Production \$/Kg</b>	<b>\$44</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	16	2000	32000
Dig Holes	MD	7	2000	14000
Planting	MD	8	2000	16000
Pesticide Application	MD	6	2000	12000
Weed Control	MD	12	2000	24000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	18	2000	36000
<b>Lunch</b>		69	500	34500
<b>SUBTOTAL</b>				<b>\$172,500</b>

**Material Inputs**

Planting Material	each	681	80	54480
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	5300	21200
<b>Insecticide</b>				4000
<b>Fungicide</b>				7500
<b>SUBTOTAL</b>				<b>\$87,180</b>

**Other Costs**

Contingencies (10 percent of labour and material)				25968
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				38952
<b>SUBTOTAL</b>				<b>\$83,320</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$343,000</b>

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

HANOVER

Parish	Hanover	
Extension Area	Cascade	
Crop	YELLOW YAM	
Crop Maturity	10 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	150 x 150
	inches	60 x 60
Plant Population	1742	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$57</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	15	30000	10	20000
Make Mounds	CW	2000	25	50000	20	40000
Maintain Trench	MD	2000	2	4000	2	4000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	8	16000	8	16000
Stake and Tie	MD	2000	12	24000	12	24000
Weed Control	MD	2000	6	12000	4	8000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	12	24000	12	24000
<b>Lunch</b>		500	60	30000	53	26500
<b>SUBTOTAL</b>				<b>\$200,000</b>		<b>\$172,500</b>

**Material Inputs**

Planting Material	lbs	40	5800	232000		
Stakes	each	40	1742	69680	1742	69680
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	6	36000	4	24000
Urea	bags (50 kg)	4600	3	13800	2	9200
<b>SUBTOTAL</b>				<b>\$337,680</b>		<b>\$93,680</b>

**Other Costs**

Contingencies (10 percent of labour and material)	53768		26618
**Tools discounted for 5 years	8400		8400
Land Charges per crop cycle	10000		10000
Supervision (15 percent of labour and material)	80652		39927
<b>SUBTOTAL</b>	<b>\$152,820</b>		<b>\$84,945</b>
<b>TOTAL COST</b>	<b>\$690,500</b>		<b>\$351,125</b>

Projected Marketable Yield

9091

9091

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

HANOVER

Parish	Hanover	
Extension Area	Cascade	
Crop	LUCEA YAM	
Crop Maturity	6 Months	
Reaping Period	2.5 Months	
Planting Distance (l x w)		
	cm	180 x 180
	inches	72 x 72
Plant Population	1210	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
<b>Cost of Production \$/Kg</b>	<b>\$57</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	1500	15	22500	10	15000
Make Mounds	CW	2500	18	45000	12	30000
Maintain Trench	MD	1500	4	6000	4	6000
Prepare Planting Material	MD	1500	2	3000	2	3000
Planting	MD	1500	8	12000	8	12000
Stake and Tie	MD	1500	6	9000	6	9000
Weed Control	MD	1500	7	10500	4	6000
Fertilizer Application	MD	1500	1	1500	1	1500
Harvesting	MD	1500	10	15000	10	15000
<b>Lunch</b>		500	53	26500	45	22500
<b>SUBTOTAL</b>				<b>\$151,000</b>		<b>\$120,000</b>

**Material Inputs**

Planting Material	lbs	40	4000	160000		
Stakes	each	40	1210	48400	1210	48400
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	4	24000	3	18000
<b>SUBTOTAL</b>				<b>\$232,400</b>		<b>\$66,400</b>

**Other Costs**

Contingencies (10 percent of labour and material)	38340		18640
**Tools discounted for 5 years	8400		8400
Land Charges per crop cycle	10000		10000
Supervision (15 percent of labour and material)	57510		27960
<b>SUBTOTAL</b>	<b>\$114,250</b>		<b>\$65,000</b>
<b>TOTAL COST</b>	<b>\$497,650</b>		<b>\$251,400</b>

Projected Marketable Yield

6600

6600

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	Manchester
Extension Area	Mandeville
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈ 116000
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	9,091
<b>Cost of Production \$/Kg</b>	<b>\$27</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	6	2500	15000
Maintain Trench	MD	4	2000	8000
Planting	MD	3	2000	6000
Pesticide Application	MD	5	2000	10000
Weed Control	MD	4	2000	8000
Fertilizer Application	MD	3	2000	6000
Harvesting	MD	14	2000	28000
<b>Lunch</b>		<b>38</b>	<b>500</b>	<b>19000</b>
<b>SUBTOTAL</b>				<b>\$110,000</b>

**Material Inputs**

Planting Material	lbs	3	8500	25500
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				12000
<b>Fungicide</b>				4200
<b>Herbicide:</b>				
Selective	lbs	4	1100	4400
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$76,500</b>

**Other Costs**

Contingencies (10 percent of labour and material)				18650
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				27975
<b>SUBTOTAL</b>				<b>\$58,358</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$244,858</b>

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

Parish	Manchester	
Extension Area	Mandeville	
Crop	SWEET PEPPER	
Crop Maturity	3 Months	
Reaping Period	6 Months	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	24,545	
<b>Cost of Production \$/Kg</b>	<b>\$36</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Dig Holes	MD	25	2000	50000
Nursery Operations	MD	5	2000	10000
Transplanting	MD	15	2000	30000
Pesticide Application	MD	35	2000	70000
Weed Control	MD	15	2000	30000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	108	2000	216000
<b>Lunch</b>		210	500	105000
<b>SUBTOTAL</b>				<b>\$525,000</b>

#### Material Inputs

Planting Material	packs (1000 seeds)	11	6000	66000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
<b>Insecticide</b>				36000
<b>Fungicide</b>				48000
<b>SUBTOTAL</b>				<b>\$168,000</b>

#### Other Costs

Contingencies (10 percent of labour and material)				69300
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				103950
<b>SUBTOTAL</b>				<b>\$186,650</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$879,650</b>

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

Parish	Manchester	
Extension Area	Mandeville	
Crop	TOMATO (PLUMMY)	
Crop Maturity	3 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)	cm	90 x 60
	inches	36 x 24
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	8,182	
<b>Cost of Production \$/Kg</b>	<b>\$50</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Dig Holes	MD	10	2000	20000
Planting	MD	5	2000	10000
Maintain Trench	MD	3	2000	6000
Pesticide Application	MD	12	2000	24000
Weed Control	MD	16	2000	32000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	14	2000	28000
<b>Lunch</b>		67	500	33500
<b>SUBTOTAL</b>				<b>\$167,500</b>

#### Material Inputs

Planting Material	each	7260	12	87120
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
<b>Insecticide</b>				14000
<b>Fungicide</b>				22500
<b>Herbicide:</b>				
Broad Spectrum	litre	5	1600	8000
<b>SUBTOTAL</b>				<b>\$149,620</b>

#### Other Costs

Contingencies (10 percent of labour and material)				31712
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				47568
<b>SUBTOTAL</b>				<b>\$91,013</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$408,133</b>

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

Parish	Manchester	
Extension Area	Mandeville	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	300 x 300
	inches	120 x 120
Plant Population	436	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	8,182	
<b>Cost of Production \$/Kg</b>	<b>\$26</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Dig Holes	MD	5	2000	10000
Planting	MD	2	2000	4000
Pesticide Application	MD	8	2000	16000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	12	2000	24000
<b>Lunch</b>		43	500	21500
<b>SUBTOTAL</b>				<b>\$107,500</b>

#### Material Inputs

Planting Material	lb	1	1200	1200
<b>Fertiliser:</b>				
NPK	bags (50 kg)	2.5	6000	15000
<b>Insecticide</b>				14750
<b>Fungicide</b>				12000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$49,350</b>

#### Other Costs

Contingencies (10 percent of labour and material)				15685
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				23528
<b>SUBTOTAL</b>				<b>\$52,613</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$209,463</b>

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

Parish	Manchester	
Extension Area	Cross Keys	
Crop	SWEET PEPPER	
Crop Maturity	3 Months	
Reaping Period	6 Months	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	24,545	
<b>Cost of Production \$/Kg</b>	<b>\$34</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Dig Holes	MD	30	2000	60000
Nursery Operations	MD	4	2000	8000
Transplanting	MD	10	2000	20000
Pesticide Application	MD	30	2000	60000
Weed Control	MD	18	2000	36000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	90	2000	180000
<b>Lunch</b>		192	500	96000
<b>SUBTOTAL</b>				<b>\$480,000</b>

#### Material Inputs

Planting Material	packs (1000 seeds)	11	7000	77000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	6	6000	36000
<b>Insecticide</b>				28000
<b>Fungicide</b>				34000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$181,400</b>

#### Other Costs

Contingencies (10 percent of labour and material)				66140
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				99210
<b>SUBTOTAL</b>				<b>\$178,750</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$840,150</b>

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

Parish	Manchester	
Extension Area	Cross Keys	
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	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,364	
<b>Cost of Production \$/Kg</b>	<b>\$40</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	tractor	6	2500	15000
Furrowing	tractor	3	2500	7500
Prepare Planting Material	MD	6	2000	12000
Planting	MD	10	2000	20000
Pesticide Application	MD	4	2000	8000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	10	2000	20000
<b>Lunch</b>		49	500	24500
<b>SUBTOTAL</b>				<b>\$145,000</b>

#### Material Inputs

Planting Material	slip	10890	1	10890
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				4875
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$46,165</b>

#### Other Costs

Contingencies (10 percent of labour and material)				19116.5
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				28675
<b>SUBTOTAL</b>				<b>\$61,191</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$252,356</b>

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

Parish	Manchester	
Extension Area	Cross Keys	
Crop	WATERMELON	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	120 x 120
	inches	48 x 48
Plant Population	2723	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	12,727	
<b>Cost of Production \$/Kg</b>	<b>\$21</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Dig Holes	MD	6	2000	12000
Planting	MD	2	2000	4000
Pesticide Application	MD	8	2000	16000
Weed Control	MD	7	2000	14000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	14	2000	28000
<b>Lunch</b>		46	500	23000
<b>SUBTOTAL</b>				<b>\$115,000</b>

#### Material Inputs

Planting Material	tins	2	5000	10000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				18500
<b>Fungicide</b>				26000
<b>Herbicide:</b>				
Broad Spectrum	litre	6	1600	9600
<b>SUBTOTAL</b>				<b>\$88,100</b>

#### Other Costs

Contingencies (10 percent of labour and material)				20310
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				30465
<b>SUBTOTAL</b>				<b>\$64,175</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$267,275</b>

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

Parish	Manchester
Extension Area	Cross Keys
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈ 116000
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	7,273
<b>Cost of Production \$/Kg</b>	<b>\$28</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	tractor	6	2500	15000
Maintain Trench	MD	4	2000	8000
Planting	MD	2	2000	4000
Pesticide Application	MD	2	2000	4000
Weed Control	MD	4	2000	8000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	12	2000	24000
<b>Lunch</b>		33	500	16500
<b>SUBTOTAL</b>				<b>\$97,500</b>

#### Material Inputs

Planting Material	lbs	3	8000	24000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
<b>Herbicide:</b>				
Selective	litre	1	9200	9200
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$57,600</b>

#### Other Costs

Contingencies (10 percent of labour and material)				15510
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				23265
<b>SUBTOTAL</b>				<b>\$50,508</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$205,608</b>

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

Parish	Manchester	
Extension Area	Christiana	
Crop	YELLOW YAM	
Crop Maturity	9 Months	
Reaping Period	3 Months	
Planting Distance (l x w)		
	cm	180 x 150
	inches	72 x 60
Plant Population	1452	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$61</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	6	12000	4	8000
Make Mounds	CW	2000	25	50000	18	36000
Maintain Trench	MD	2000	2	4000	2	4000
Prepare Planting Material	MD	2000	2	4000	2	4000
Planting	MD	2000	4	8000	4	8000
Stake and Tie	MD	2000	12	24000	12	24000
Weed Control	MD	2000	12	24000	8	16000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	15	30000	15	30000
<b>Lunch</b>		500	54	27000	48	24000
<b>SUBTOTAL</b>				<b>\$185,000</b>		<b>\$156,000</b>

#### Material Inputs

Planting Material	lbs	30	4400	132000		
Stakes	each	40	1452	58080	1452	58080
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	4	24000	3	18000
Urea	bags (50 kg)	5000	5	25000	3	15000
<b>SUBTOTAL</b>				<b>\$214,080</b>		<b>\$76,080</b>

#### Other Costs

Contingencies (10 percent of labour and material)	39908		23208
**Tools discounted for 5 years	8400		8400
Land Charges per crop cycle	10000		10000
Supervision (15 percent of labour and material)	59862		34812
<b>SUBTOTAL</b>	<b>\$118,170</b>		<b>\$76,420</b>
<b>TOTAL COST</b>	<b>\$517,250</b>		<b>\$308,500</b>

Projected Marketable Yield

6818

6818

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	Manchester	
Extension Area	Christiana	
Crop	NEGRO YAM	
Crop Maturity	9 Months	
Reaping Period	3 Months	
Planting Distance (l x w)		
	cm	180 x 180
	inches	72 x 72
Plant Population	1210	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$70</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	6	12000	4	8000
Make Mounds	CW	2000	18	36000	13	26000
Maintain Trench	MD	2000	3	6000	3	6000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	5	10000	5	10000
Stake and Tie	MD	2000	10	20000	10	20000
Weed Control	MD	2000	8	16000	5	10000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	12	24000	12	24000
<b>Lunch</b>		500	49	24500	44	22000
<b>SUBTOTAL</b>				<b>\$158,500</b>		<b>\$136,000</b>

#### Material Inputs

Planting Material	lbs	30	4000	120000		
Stakes	each	40	1210	48400	1210	48400
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	7	42000	5	30000
<b>SUBTOTAL</b>				<b>\$210,400</b>		<b>\$78,400</b>

#### Other Costs

Contingencies (10 percent of labour and material)		36890		21440
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		55335		32160
<b>SUBTOTAL</b>		<b>\$110,625</b>		<b>\$72,000</b>
<b>TOTAL COST</b>		<b>\$479,525</b>		<b>\$286,400</b>

Projected Marketable Yield

5500

5500

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	Manchester	
Extension Area	Christiana	
Crop	CABBAGE	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 30
	inches	24 x 12
Plant Population	21780	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	19,545	
<b>Cost of Production \$/Kg</b>	<b>\$20</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Ploughing	MD	12	2000	24000
Dig Holes	MD	8	2000	16000
Maintain Trench	MD	4	2000	8000
Nursery Operations	MD	4	2000	8000
Transplanting	MD	8	2000	16000
Pesticide Application	MD	20	2000	40000
Weed Control	MD	7	2000	14000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	9	2000	18000
<b>Lunch</b>		80	500	40000
<b>SUBTOTAL</b>				<b>\$200,000</b>

Material Inputs				
Planting Material	packs (10000 seeds)	2.2	9000	19800
<b>Fertiliser:</b>				
NPK	bags (50 kg)	6	6000	36000
<b>Insecticide</b>				28000
<b>Fungicide</b>				6900
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$97,100</b>

Other Costs				
Contingencies (10 percent of labour and material)				29710
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				44565
<b>SUBTOTAL</b>				<b>\$86,008</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$383,108</b>

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

Parish	Manchester	
Extension Area	Christiana	
Crop	IRISH POTATO	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	90 x 30
	inches	36 x 12
Plant Population	14520	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	9,091	
<b>Cost of Production \$/Kg</b>	<b>\$53</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Ploughing	MD	12	2000	24000
Furrowing	MD	6	2000	12000
Moulding	MD	8	2000	16000
Planting	MD	5	2000	10000
Pesticide Application	MD	12	2000	24000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	30	2000	60000
<b>Lunch</b>		<b>81</b>	<b>500</b>	<b>40500</b>
<b>SUBTOTAL</b>				<b>\$202,500</b>

#### Material Inputs

Planting Material (elite seeds)	bags (25 kg)	16	6000	96000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	8	6000	48000
<b>Insecticide</b>				6400
<b>Fungicide</b>				18000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$174,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				37730
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				56595
<b>SUBTOTAL</b>				<b>\$107,725</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$485,025</b>

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

Parish	Manchester
Extension Area	Mile Gully
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈116000
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	6,818
<b>Cost of Production \$/Kg</b>	<b>\$34</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	7	2000	14000
Ploughing	tractor	10	2000	20000
Harrowing	tractor	5	2000	10000
Planting	MD	1	2000	2000
Pesticide Application	MD	5	2000	10000
Weed Control	MD	4	2000	8000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	8	2000	16000
<b>Lunch</b>		26	500	13000
<b>SUBTOTAL</b>				<b>\$95,000</b>

#### Material Inputs

Planting Material	lbs	3	8500	25500
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
Urea	bags (50 kg)	2	6000	12000
<b>Insecticide</b>				4600
<b>Fungicide</b>				4900
<b>Herbicide:</b>				
Selective	lbs	6	1000	6000
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$81,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				17680
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				26520
<b>SUBTOTAL</b>				<b>\$55,933</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$232,733</b>

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

PORTLAND

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Parish	Portland	
Extension Area	Fruitful Vale	
Crop	PUMPKIN (BODLES GLOBE)	
Crop Maturity	3 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)		
	cm	240 x 240
	inches	96 x 96
Plant Population	681	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	10,000	
<b>Cost of Production \$/Kg</b>	<b>\$22</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	tractor	12	2500	30000
Dig Holes	MD	2	2000	4000
Maintain Trench	MD	5	2000	10000
Planting	MD	1	2000	2000
Pesticide Application	MD	6	2000	12000
Weed Control	MD	4	2000	8000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	15	2000	30000
<b>Lunch</b>		42	500	21000
<b>SUBTOTAL</b>				<b>\$135,000</b>

**Material Inputs**

Planting Material	lb	1	2000	2000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	1	5400	5400
Urea	bags (50 kg)	2.5	6000	15000
<b>Insecticide</b>				6000
<b>Fungicide</b>				2550
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$34,150</b>

**Other Costs**

Contingencies (10 percent of labour and material)				16915
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				25373
<b>SUBTOTAL</b>				<b>\$55,688</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$224,838</b>

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

PORTLAND

Parish	Portland	
Extension Area	Fruitful Vale	
Crop	COCO	
Crop Maturity	9 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	90 x 75
	inches	36 x 30
Plant Population	5808	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
<b>Cost of Production (\$/Kg)</b>	<b>\$28</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	1500	15	22500	12	18000
Dig Holes/Plant	MD	1500	40	60000	36	54000
Maintain Trench	MD	1500	5	7500	5	7500
Prepare Planting Material	MD	1500	2	3000	2	3000
Weed Control	MD	1500	6	9000	6	9000
Fertilizer Application	MD	1500	2	3000	2	3000
Harvesting	MD	1500	20	30000	20	30000
<b>Lunch</b>		500	90	45000	83	41500
<b>SUBTOTAL</b>				<b>\$180,000</b>		<b>\$166,000</b>

**Material Inputs**

Planting Material	lbs	30	2904	87120		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	2.5	15000	2.5	15000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	4	6400	3	4800
<b>SUBTOTAL</b>				<b>\$108,520</b>		<b>\$19,800</b>

**Other Costs**

Contingencies (10 percent of labour and material)		28852		18580
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		43278		27870
<b>SUBTOTAL</b>		<b>\$90,530</b>		<b>\$64,850</b>
<b>TOTAL COST</b>		<b>\$379,050</b>		<b>\$250,650</b>

Projected Marketable Yield

11364

11364

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

PORTLAND

Parish	Portland	
Extension Area	Manchioneal	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	240 x 240
	inches	96 x 96
Plant Population	681	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	8,182	
<b>Cost of Production \$/Kg</b>	<b>\$24</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	MD	10	2000	20000
Dig Holes	MD	2	2000	4000
Maintain Trench	MD	4	2000	8000
Planting	MD	1	2000	2000
Pesticide Application	MD	6	2000	12000
Weed Control	MD	4	2000	8000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	10	2000	20000
<b>Lunch</b>		44	500	22000
<b>SUBTOTAL</b>				<b>\$110,000</b>

**Material Inputs**

Planting Material	lb	1	1200	1200
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				6000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$37,600</b>

**Other Costs**

Contingencies (10 percent of labour and material)				14760
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				22140
<b>SUBTOTAL</b>				<b>\$50,300</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$197,900</b>

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

PORTLAND

Parish	Portland	
Extension Area	Manchioneal	
Crop	HORSE PLANTAIN	
Crop Maturity	10 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	240 x 240
	inches	96 x 96
Plant Population	681	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,734	
<b>Cost of Production \$/Kg</b>	<b>\$29</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Dig Holes	MD	10	2000	20000
Prepare Planting Material	MD	3	2000	6000
Planting	MD	4	2000	8000
Pesticide Application	MD	12	2000	24000
Weed Control	MD	8	2000	16000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	4	2000	8000
<b>Lunch</b>		47	300	14100
<b>SUBTOTAL</b>				<b>\$108,100</b>

**Material Inputs**

Planting Material	each	681	30	20430
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				2400
<b>Fungicide</b>				7500
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$60,730</b>

**Other Costs**

Contingencies (10 percent of labour and material)				16883
**Tools discounted for 5 years				8400
Land Charges per crop cycle				6000
Supervision (15 percent of labour and material)				25325
<b>SUBTOTAL</b>				<b>\$56,608</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$225,438</b>

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

PORTLAND

Parish	Portland	
Extension Area	Manchioneal	
Crop	DASHEEN	
Crop Maturity	9 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$32</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	5	10000	3	6000
Dig Holes	MD	2000	19	38000	16	32000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	5	10000	5	10000
Pesticide Application	MD	2000	9	18000	7	14000
Weed Control	MD	2000	6	12000	5	10000
Fertilizer Application	MD	2000	3	6000	3	6000
Harvesting	MD	2000	12	24000	12	24000
<b>Lunch</b>		500	62	31000	54	27000
<b>SUBTOTAL</b>				<b>\$155,000</b>		<b>\$135,000</b>

**Material Inputs**

Planting Material	each	7	10890	76230		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	5200	6	31200	4	20800
<b>Insecticide</b>				6500		6500
<b>Fungicide</b>				7500		5250
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	4	6400	3	4800
<b>SUBTOTAL</b>				<b>\$127,830</b>		<b>\$37,350</b>

**Other Costs**

Contingencies (10 percent of labour and material)		28283		17235
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		42424.5		25852.5
<b>SUBTOTAL</b>		<b>\$89,108</b>		<b>\$61,488</b>
<b>TOTAL COST</b>		<b>\$371,938</b>		<b>\$233,838</b>

Projected Marketable Yield

9545

9545

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

PORTLAND

Parish	Portland	
Extension Area	Windsor	
Crop	GINGER	
Crop Maturity	10 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	30 x 30
	inches	12 x 12
Plant Population	43560	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$49</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	12	24000	9	18000
Ploughing	MD	2000	15	30000	15	30000
Furrowing	MD	2000	7	14000	7	14000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	20	40000	20	40000
Weed Control	MD	2000	24	48000	18	36000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	25	50000	25	50000
<b>Lunch</b>		500	107	53500	98	49000
<b>SUBTOTAL</b>				<b>\$267,500</b>		<b>\$245,000</b>

**Material Inputs**

Planting Material	lbs	200	1500	300000		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	5400	4	21600	3	16200
<b>Fungicide</b>				4600		4600
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	3	4800	2	3200
<b>SUBTOTAL</b>				<b>\$331,000</b>		<b>\$24,000</b>

**Other Costs**

Contingencies (10 percent of labour and material)		59850		26900
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		89775		40350
<b>SUBTOTAL</b>		<b>\$168,025</b>		<b>\$85,650</b>
<b>TOTAL COST</b>		<b>\$766,525</b>		<b>\$354,650</b>

Projected Marketable Yield

11364

11364

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

PORTLAND

Parish	Portland	
Extension Area	Windsor	
Crop	DASHEEN	
Crop Maturity	8 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$35</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	12	24000	8	16000
Dig Holes	MD	2000	18	36000	15	30000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	7	14000	7	14000
Pesticide Application	MD	2000	3	6000	2	4000
Weed Control	MD	2000	8	16000	5	10000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	15	30000	15	30000
<b>Lunch</b>		500	68	34000	57	28500
<b>SUBTOTAL</b>				<b>\$170,000</b>		<b>\$142,500</b>

**Material Inputs**

Planting Material	each	7	7260	50820		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	5	30000	3	18000
<b>Insecticide</b>				6500		6500
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	3	4800	2	3200
<b>SUBTOTAL</b>				<b>\$92,120</b>		<b>\$27,700</b>

**Other Costs**

Contingencies (10 percent of labour and material)		26212		17020
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		39318		25530
<b>SUBTOTAL</b>		<b>\$83,930</b>		<b>\$60,950</b>
<b>TOTAL COST</b>		<b>\$346,050</b>		<b>\$231,150</b>

Projected Marketable Yield

8182

8182

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

PORTLAND

Parish	Portland	
Extension Area	Kildare	
Crop	COCO	
Crop Maturity	9 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	90 x 90
	inches	36 x 36
Plant Population	4840	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
<b>Cost of Production \$/Kg</b>	<b>\$31</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	1500	8	12000	5	7500
Dig Holes/Plant	MD	1500	40	60000	36	54000
Maintain Trench	MD	1500	2	3000	2	3000
Prepare Planting Material	MD	1500	2	3000	2	3000
Weed Control	MD	1500	8	12000	5	7500
Fertilizer Application	MD	1500	1	1500	1	1500
Harvesting	MD	1500	30	45000	30	45000
Lunch		500	91	45500	81	40500
<b>SUBTOTAL</b>				<b>\$182,000</b>		<b>\$162,000</b>

**Material Inputs**

Planting Material	lbs	30	2420	72600		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	2	12000	2	12000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	3	4800	2	3200
<b>SUBTOTAL</b>				<b>\$89,400</b>		<b>\$15,200</b>

**Other Costs**

Contingencies (10 percent of labour and material)				27140		17720
**Tools discounted for 5 years				8400		8400
Land Charges per crop cycle				8000		8000
Supervision (15 percent of labour and material)				40710		26580
<b>SUBTOTAL</b>				<b>\$84,250</b>		<b>\$60,700</b>
<b>TOTAL COST</b>				<b>\$355,650</b>		<b>\$237,900</b>

Projected Marketable Yield

9545

9545

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

PORTLAND

Parish	Portland	
Extension Area	Kildare	
Crop	RENTA YAM	
Crop Maturity	9 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	180 x 180
	inches	72 x 72
Plant Population	1210	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$55</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	8	16000	4	8000
Make Mounds	CW	2000	20	40000	14	28000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	3	6000	3	6000
Stake and Tie	MD	2000	12	24000	12	24000
Weed Control	MD	2000	10	20000	7	14000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	25	50000	25	50000
<b>Lunch</b>		500	62	31000	55	27500
<b>SUBTOTAL</b>				<b>\$195,000</b>		<b>\$165,500</b>

**Material Inputs**

Planting Material	lbs	50	4100	205000		
Stakes	each	40	1210	48400	1210	48400
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	3	18000	2	12000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	3	4800	3	4800
<b>SUBTOTAL</b>				<b>\$271,400</b>		<b>\$60,400</b>

**Other Costs**

Contingencies (10 percent of labour and material)		46640		22590
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		8000		8000
Supervision (15 percent of labour and material)		69960		33885
<b>SUBTOTAL</b>		<b>\$133,000</b>		<b>\$72,875</b>
<b>TOTAL COST</b>		<b>\$599,400</b>		<b>\$298,775</b>

Projected Marketable Yield

8182

8182

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

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Parish	St. Andrew	
Extension Area	Temple hall	
Crop	HORSE PLANTAIN	
Crop Maturity	9 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)	cm	240 x 240
	inches	96 x 96
Plant Population	681	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,734	
<b>Cost of Production \$/Kg</b>	<b>\$39</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Dig Holes/Plant	MD	10	2000	20000
Pesticide Application	MD	6	2000	12000
Weed Control	MD	12	2000	24000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	20	2000	40000
<b>Lunch</b>		<b>56</b>	<b>500</b>	<b>28000</b>
<b>SUBTOTAL</b>				<b>\$140,000</b>

**Material Inputs**

Planting Material	each	681	50	34050
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	5400	16200
Sulphate of Ammonia	bags (50 kg)	5	4000	20000
<b>Insecticide</b>				4000
<b>Fungicide</b>				7500
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$88,150</b>

**Other Costs**

Contingencies (10 percent of labour and material)				22815
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				34223
<b>SUBTOTAL</b>				<b>\$75,438</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$303,588</b>

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

ST. ANDREW

Parish	St. Andrew
Extension Area	Gordon Town
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈ 116000
Terrain	Relatively Flat Land Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	5,455
<b>Cost of Production \$/Kg</b>	<b>\$38</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	MD	12	2000	24000
Furrowing	MD	7	2000	14000
Planting	MD	2	2000	4000
Pesticide Application	MD	3	2000	6000
Weed Control	MD	3	2000	6000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	8	2000	16000
<b>Lunch</b>		44	500	22000
<b>SUBTOTAL</b>				<b>\$110,000</b>

**Material Inputs**

Planting Material	tins	5	3200	16000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
<b>Insecticide</b>				2300
<b>Herbicide:</b>				
Selective	lbs	5	1000	5000
Non-systemic	lbs	4	1600	6400
<b>SUBTOTAL</b>				<b>\$47,700</b>

**Other Costs**

Contingencies (10 percent of labour and material)				15770
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				23655
<b>SUBTOTAL</b>				<b>\$51,158</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$208,858</b>

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

ST. ANDREW

Parish	St. Andrew	
Extension Area	Gordon Town	
Crop	CUCUMBER	
Crop Maturity	1.5 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	75 x 150
	inches	30 x 60
Plant Population	3485	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	5,455	
<b>Cost of Production \$/Kg</b>	<b>\$42</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	MD	7	2000	14000
Dig Holes/Plant	MD	8	2000	16000
Pesticide Application	MD	8	2000	16000
Weed Control	MD	8	2000	16000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	7	2000	14000
<b>Lunch</b>		48	500	24000
<b>SUBTOTAL</b>				<b>\$120,000</b>

**Material Inputs**

Planting Material	lbs	3	5200	15600
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				2300
<b>Fungicide</b>				5000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$53,300</b>

**Other Costs**

Contingencies (10 percent of labour and material)				17330
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				25995
<b>SUBTOTAL</b>				<b>\$55,058</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$228,358</b>

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

ST. ANDREW

Parish	St. Andrew	
Extension Area	Mavis Bank	
Crop	BROCCOLI	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 75
	inches	24 x 30
Plant Population	8712	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	5,455	
<b>Cost of Production \$/Kg</b>	<b>\$53</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2000	20000
Dig Holes	MD	15	2000	30000
Nursery Operations	MD	2	2000	4000
Transplanting	MD	4	2000	8000
Pesticide Application	MD	6	2000	12000
Weed Control	MD	16	2000	32000
Fertilizer Application	MD	3	2000	6000
Harvesting	MD	10	2000	20000
<b>Lunch</b>		66	500	33000
<b>SUBTOTAL</b>				<b>\$165,000</b>

Material Inputs				
Planting Material	packs	4	5200	20800
<b>Fertiliser:</b>				
NPK	bags (50 kg)	2	5400	10800
Urea	bags (50 kg)	2	5400	10800
<b>Insecticide</b>				5000
<b>Fungicide</b>				4000
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$56,200</b>

Other Costs				
Contingencies (10 percent of labour and material)				22120
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				33180
<b>SUBTOTAL</b>				<b>\$68,700</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$289,900</b>

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



ST. ANDREW

Parish	St. Andrew	
Extension Area	Salisbury Plain	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	4 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	300 x 240
	inches	120 x 96
Plant Population	545	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,273	
<b>Cost of Production \$/Kg</b>	<b>\$28</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Dig Holes/Plant	MD	6	2000	12000
Pesticide Application	MD	10	2000	20000
Weed Control	MD	8	2000	16000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	10	2000	20000
<b>Lunch</b>		43	500	21500
<b>SUBTOTAL</b>				<b>\$107,500</b>

Material Inputs					
Planting Material	lb	1	1200	1200	
<b>Fertiliser:</b>					
NPK	bags (50 kg)	3	6000	18000	
<b>Insecticide</b>				8000	
<b>Fungicide</b>				10000	
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600	6400	
<b>SUBTOTAL</b>				<b>\$43,600</b>	

Other Costs				
Contingencies (10 percent of labour and material)				15110
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				22665
<b>SUBTOTAL</b>				<b>\$51,175</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$202,275</b>

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













St. Ann

Parish	St. Ann
Extension Area	Cave Valley
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈116000
Terrain	Relatively Flat Land Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	8,182
<b>Cost of Production \$/Kg</b>	<b>\$32</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2000	20000
Ploughing	MD	10	2000	20000
Planting	MD	1	2000	2000
Pesticide Application	MD	2	2000	4000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	10	2000	20000
<b>Lunch</b>		44	500	22000
<b>SUBTOTAL</b>				<b>\$110,000</b>

Material Inputs				
Planting Material	lbs	3	20000	60000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
<b>Insecticide</b>				4800
<b>Herbicide:</b>				
Broad Spectrum	litre	6	1600	9600
<b>SUBTOTAL</b>				<b>\$92,400</b>

Other Costs				
Contingencies (10 percent of labour and material)				20240
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				30360
<b>SUBTOTAL</b>				<b>\$62,333</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$264,733</b>

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











Parish	St. Catherine	
Extension Area	Linstead	
Crop	SWEET CASSAVA	
Crop Maturity	9 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	90 x 120
	inches	36 x 48
Plant Population	3630	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$14</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	8	16000	6	12000
Ploughing	tractor	3000	3	9000	3	9000
Harrowing	tractor	3000	3	9000	3	9000
Furrowing	tractor	3000	2	6000	2	6000
Prepare Planting Material	MD	2000	2	4000	2	4000
Planting	MD	2000	3	6000	3	6000
Weed Control	MD	2000	15	30000	12	24000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	15	30000	15	30000
<b>Lunch</b>		500	45	22500	40	20000
<b>SUBTOTAL</b>				<b>\$136,500</b>		<b>\$124,000</b>

### Material Inputs

Planting Material	each	7	3630	25410		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	5	30000	4	24000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	4	6400	3	4800
<b>SUBTOTAL</b>				<b>\$61,810</b>		<b>\$28,800</b>

### Other Costs

Contingencies (10 percent of labour and material)		19831		15280
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		7000		7000
Supervision (15 percent of labour and material)		29746.5		22920
<b>SUBTOTAL</b>		<b>\$64,978</b>		<b>\$53,600</b>
<b>TOTAL COST</b>		<b>\$263,288</b>		<b>\$206,400</b>

Projected Marketable Yield

16364

16364

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	St. Catherine
Extension Area	Lluidas Vale
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈116000
Terrain	Relatively Flat Land Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	6,364
<b>Cost of Production (\$/Kg)</b>	<b>\$35</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Ploughing	MD	15	2000	30000
Planting	MD	1	2000	2000
Weed Control	MD	2	2000	4000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	10	2000	20000
<b>Lunch</b>		36	500	18000
<b>SUBTOTAL</b>				<b>\$90,000</b>

#### Material Inputs

Planting Material	lbs	4	9000	36000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Herbicide:</b>				
Selective	lbs	4	2600	10400
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$76,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				16680
**Tools discounted for 5 years				8400
Land Charges per crop cycle				2667
Supervision (15 percent of labour and material)				\$25,020
<b>SUBTOTAL</b>				<b>\$52,767</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$219,567</b>

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

Parish	St. Catherine	
Extension Area	Peartree Grove	
Crop	YELLOW YAM	
Crop Maturity	9 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	150 x 180
	inches	60 x 72
Plant Population	1452	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$68</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	6	12000	4	8000
Make Mounds	CW	2000	36	72000	18	36000
Maintain Trench	MD	2000	4	8000	4	8000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	4	8000	4	8000
Stake and Tie	MD	2000	14	28000	14	28000
Weed Control	MD	2000	10	20000	6	12000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	20	40000	20	40000
<b>Lunch</b>		500	63	31500	57	28500
<b>SUBTOTAL</b>				<b>\$229,500</b>		<b>\$178,500</b>

#### Material Inputs

Planting Material	lbs	50	4356	217800		
Stakes	each	40	726	29040	726	29040
<b>Fertiliser:</b>						
NPK	bags (50 kg)	5400	5	27000	3	16200
Sulphate of Ammonia	bags (50 kg)	3500	3	10500	2	7000
<b>SUBTOTAL</b>				<b>\$273,840</b>		<b>\$45,240</b>

#### Other Costs

Contingencies (10 percent of labour and material)		50334		22374
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		4000		4000
Supervision (15 percent of labour and material)		75501		33561
<b>SUBTOTAL</b>		<b>\$138,235</b>		<b>\$68,335</b>
<b>TOTAL COST</b>		<b>\$641,575</b>		<b>\$292,075</b>

Projected Marketable Yield

6818

6818

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	St. Catherine	
Extension Area	Peartree Grove	
Crop	IRISH POTATO	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	30 x 90
	inches	12 x 36
Plant Population	14520	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	9,091	
<b>Cost of Production \$/Kg</b>	<b>\$58</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Ploughing	MD	15	2000	30000
Furrowing	MD	10	2000	20000
Moulding	MD	15	2000	30000
Maintain Trench	MD	4	2000	8000
Planting	MD	10	2000	20000
Pesticide Application	MD	14	2000	28000
Fertilizer Application	MD	6	2000	12000
Harvesting	MD	20	2000	40000
<b>Lunch</b>		100	500	50000
<b>SUBTOTAL</b>				<b>\$250,000</b>

#### Material Inputs

Planting Material (elite seeds)	bags	16	5450	87200
<b>Fertiliser:</b>				
NPK	bags (25 kg)	16	2700	43200
<b>Insecticide</b>				8000
<b>Fungicide</b>				18000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$162,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				41280
**Tools discounted for 5 years				8400
Land Charges per crop cycle				2000
Supervision (15 percent of labour and material)				61920
<b>SUBTOTAL</b>				<b>\$113,600</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$526,400</b>

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

Parish	St. Catherine	
Extension Area	Kitson Town	
Crop	SWEET CASSAVA	
Crop Maturity	10 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	90 x 90
	inches	36 x 36
Plant Population	4840	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$16</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	8	16000	6	12000
Ploughing	tractor	2500	3	7500	3	7500
Harrowing	tractor	2500	2	5000	2	5000
Furrowing	tractor	2500	1	2500	1	2500
Prepare Planting Material	MD	2000	2	4000	2	4000
Planting	MD	2000	3	6000	2	4000
Weed Control	MD	2000	15	30000	12	24000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	14	28000	14	28000
<b>Lunch</b>		500	44	22000	38	19000
<b>SUBTOTAL</b>				<b>\$125,000</b>		<b>\$110,000</b>

#### Material Inputs

Planting Material	each	7	4840	33880		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	4	24000	3	18000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	4	6400	3	4800
<b>SUBTOTAL</b>				<b>\$64,280</b>		<b>\$22,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)		18928		13280
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		7000		10000
Supervision (15 percent of labour and material)		28392		19920
<b>SUBTOTAL</b>		<b>\$62,720</b>		<b>\$51,600</b>
<b>TOTAL COST</b>		<b>\$252,000</b>		<b>\$184,400</b>

Projected Marketable Yield	13636	13636
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Initial land clearing cost are not included given the wide variations present

Parish	St. Catherine	
Extension Area	Kitson Town	
Crop	CALLALOO	
Crop Maturity	1.5 Months	
Reaping Period	7 Months	
Planting Distance (l x w)		
	cm	90 x 30
	inches	36 x 12
Plant Population	29040	<b>(Double Row)</b>
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	31,818	
<b>Cost of Production \$/Kg</b>	<b>\$14</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	tractor	4	2500	10000
Harrowing	tractor	3	2500	7500
Furrowing	tractor	1	2500	2500
Lining Irrigation Hose	MD	3	2000	6000
Nursery Operations	MD	2	2000	4000
Transplanting	MD	4	2000	8000
Pesticide Application	MD	14	2000	28000
Weed Control	MD	9	2000	18000
Fertilizer Application	MD	3	2000	6000
Harvesting	MD	56	2000	112000
<b>Lunch</b>		99	500	49500
<b>SUBTOTAL</b>				<b>\$267,500</b>

#### Material Inputs

Planting Material	packs	28	150	4200
Water	month	8	2500	20000
<b>Fertiliser:</b>				
Sulphate of Ammonia	bags (50 kg)	5	4000	20000
<b>Insecticide</b>				30000
<b>Fungicide</b>				2000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$82,600</b>

#### Other Costs

Contingencies (10 percent of labour and material)				35010
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3500
Supervision (15 percent of labour and material)				52515
<b>SUBTOTAL</b>				<b>\$99,425</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$449,525</b>

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

Parish	St. Catherine	
Extension Area	Kitson Town	
Crop	OKRA	
Crop Maturity	2 Months	
Reaping Period	3 Months	
Planting Distance (l x w)		
	cm	90 x 60
	inches	36 x 24
Plant Population	14520	<b>(Double Row)</b>
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,364	
<b>Cost of Production \$/Kg</b>	<b>\$50</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	tractor	4	2500	10000
Harrowing	tractor	3	2500	7500
Furrowing	tractor	1	2500	2500
Lining Irrigation Hose	MD	3	2000	6000
Planting	MD	6	2000	12000
Pesticide Application	MD	8	2000	16000
Weed Control	MD	4	2000	8000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	32	2000	64000
<b>Lunch</b>		62	500	31000
<b>SUBTOTAL</b>				<b>\$175,000</b>

#### Material Inputs

Planting Material	packs	9	1450	13050
Water	month	5	2500	12500
<b>Fertiliser:</b>				
NPK	bags (50 kg)	2	6000	12000
Sulphate of Ammonia	bags (50 kg)	2	4000	8000
<b>Insecticide</b>				9800
<b>Fungicide</b>				8000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$69,750</b>

#### Other Costs

Contingencies (10 percent of labour and material)				24475
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3500
Supervision (15 percent of labour and material)				36713
<b>SUBTOTAL</b>				<b>\$73,088</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$317,838</b>

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

Parish	St. Catherine	
Extension Area	Kitson Town	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	180 x 180
	inches	72 x 72
Plant Population	1210	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,727	
<b>Cost of Production \$/Kg</b>	<b>\$23</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	tractor	4	2500	10000
Harrowing	tractor	3	2500	7500
Furrowing	tractor	1	2500	2500
Planting	MD	2	2000	4000
Pesticide Application	MD	4	2000	8000
Weed Control	MD	3	2000	6000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	8	2000	16000
<b>Lunch</b>		27	500	13500
<b>SUBTOTAL</b>				<b>\$87,500</b>

#### Material Inputs

Planting Material	lbs	3	1200	3600
Water	month	4	2000	8000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	2	6000	12000
<b>Insecticide</b>				9000
<b>Fungicide</b>				5800
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$44,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				13230
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3500
Supervision (15 percent of labour and material)				19845
<b>SUBTOTAL</b>				<b>\$44,975</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$177,275</b>

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

Parish	St. Catherine	
Extension Area	Old Harbour	
Crop	OKRA	
Crop Maturity	2 Months	
Reaping Period	4 Months	
Planting Distance (l x w)	cm	30 x 60
	inches	12 x 24
Plant Population	21780	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,818	
<b>Cost of Production \$/Kg</b>	<b>\$45</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	3	2500	7500
Harrowing	tractor	2	2500	5000
Furrowing	tractor	1	2500	2500
Lining Irrigation Hose	MD	3	2000	6000
Planting	MD	4	2000	8000
Pesticide Application	MD	6	2000	12000
Weed Control	MD	12	2000	24000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	30	2000	60000
<b>Lunch</b>		62	500	31000
<b>SUBTOTAL</b>				<b>\$170,000</b>

#### Material Inputs

Planting Material	lbs	8	1500	12000
Water	month	6	1000	6000
<b>Fertiliser:</b>				
Sulphate of Ammonia	bags (50 kg)	3	4000	12000
NPK	bags (50 kg)	2	6000	12000
<b>Insecticide</b>				8700
<b>Fungicide</b>				5750
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$62,850</b>

#### Other Costs

Contingencies (10 percent of labour and material)				23285
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				34928
<b>SUBTOTAL</b>				<b>\$71,613</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$304,463</b>

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

Parish	St. Catherine	
Extension Area	Old Harbour	
Crop	CUCUMBER	
Crop Maturity	1.5 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	60 x 150
	inches	24 x 60
Plant Population	4356	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,364	
<b>Cost of Production \$/Kg</b>	<b>\$36</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	3	2500	7500
Harrowing	tractor	2	2500	5000
Furrowing	tractor	1	2500	2500
Lining Irrigation Hose	MD	3	2000	6000
Nursery Operations	MD	4	2000	8000
Transplanting	MD	4	2000	8000
Pesticide Application	MD	8	2000	16000
Weed Control	MD	8	2000	16000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	8	2000	16000
<b>Lunch</b>		41	500	20500
<b>SUBTOTAL</b>				<b>\$117,500</b>

#### Material Inputs

Planting Material	lbs	2.5	5200	13000
Water	month	4	1000	4000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
<b>Insecticide</b>				6500
<b>Fungicide</b>				10000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$57,900</b>

#### Other Costs

Contingencies (10 percent of labour and material)				17540
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				26310
<b>SUBTOTAL</b>				<b>\$55,583</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$230,983</b>

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

Parish	St. Catherine	
Extension Area	Old Harbour	
Crop	SWEET POTATO	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	30 x 150
	inches	12 x 60
Plant Population	8712	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	5,455	
<b>Cost of Production \$/Kg</b>	<b>\$42</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	3	2500	7500
Harrowing	tractor	2	2500	5000
Furrowing	tractor	1	2500	2500
Lining Irrigation Hose	MD	3	2000	6000
Prepare Planting Material	MD	3	2000	6000
Planting	MD	8	2000	16000
Pesticide Application	MD	3	2000	6000
Weed Control	MD	12	2000	24000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	14	2000	28000
<b>Lunch</b>		46	500	23000
<b>SUBTOTAL</b>				<b>\$136,000</b>

#### Material Inputs

Planting Material	slip	8712	1	8712
Water	month	6	600	3600
<b>Fertiliser:</b>				
Sulphate of Ammonia	bags (50 kg)	2	4000	8000
<b>Insecticide</b>				4400
<b>Fungicide</b>				6000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$37,112</b>

#### Other Costs

Contingencies (10 percent of labour and material)				17311
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				25967
<b>SUBTOTAL</b>				<b>\$56,678</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$229,790</b>

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

Parish	St. Catherine	
Extension Area	Old Harbour	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	3 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	300 x 150
	inches	120 x 60
Plant Population	871	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	9,091	
<b>Cost of Production \$/Kg</b>	<b>\$23</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	3	2500	7500
Harrowing	tractor	2	2500	5000
Furrowing	tractor	1	2500	2500
Maintain Trench	MD	3	2000	6000
Lining Irrigation Hose	MD	3	2000	6000
Planting	MD	2	2000	4000
Pesticide Application	MD	6	2000	12000
Weed Control	MD	7	2000	14000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	12	2000	24000
<b>Lunch</b>		39	500	19500
<b>SUBTOTAL</b>				<b>\$112,500</b>

#### Material Inputs

Planting Material	lb	2	1200	2400
Water	month	4	1000	4000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	2	6000	12000
<b>Insecticide</b>				11000
<b>Fungicide</b>				6000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$41,800</b>

#### Other Costs

Contingencies (10 percent of labour and material)				15430
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				23145
<b>SUBTOTAL</b>				<b>\$51,975</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$206,275</b>

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

Parish	St. Catherine	
Extension Area	Spanish Town	
Crop	CALLALOO	
Crop Maturity	2 Months	
Reaping Period	4 Months	
Planting Distance (l x w)	cm	90 x 30
	inches	36 x 12
Plant Population	29040	<b>(Double Row)</b>
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	30,000	
<b>Cost of Production \$/Kg</b>	<b>\$15</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	5	2500	12500
Harrowing	tractor	3	2500	7500
Furrowing	tractor	2	2500	5000
Lining Irrigation Hose	MD	3	2000	6000
Nursery Operations	MD	5	2000	10000
Transplanting	MD	6	2000	12000
Pesticide Application	MD	10	2000	20000
Weed Control	MD	15	2000	30000
Fertilizer Application	MD	3	2000	6000
Harvesting	MD	50	2000	100000
<b>Lunch</b>		97	500	48500
<b>SUBTOTAL</b>				<b>\$267,500</b>

#### Material Inputs

Planting Material	packs	28	150	4200
Water	month	6	2500	15000
<b>Fertiliser:</b>				
Sulphate of Ammonia	bags (50 kg)	5	4000	20000
<b>Insecticide</b>				24000
<b>Fungicide</b>				2300
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$71,900</b>

#### Other Costs

Contingencies (10 percent of labour and material)				33940
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				50910
<b>SUBTOTAL</b>				<b>\$98,250</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$437,650</b>

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

Parish	St. Catherine	
Extension Area	Spanish Town	
Crop	OKRA	
Crop Maturity	2 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	30 x 60
	inches	12 x 24
Plant Population	21780	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,364	
<b>Cost of Production \$/Kg</b>	<b>\$46</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	5	2500	12500
Harrowing	tractor	3	2500	7500
Furrowing	tractor	2	2500	5000
Lining Irrigation Hose	MD	3	2000	6000
Planting	MD	5	2000	10000
Pesticide Application	MD	5	2000	10000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	24	2000	48000
<b>Lunch</b>		53	500	26500
<b>SUBTOTAL</b>				<b>\$157,500</b>

#### Material Inputs

Planting Material	lbs	8	1500	12000
Water	month	4	2500	10000
<b>Fertiliser:</b>				
Sulphate of Ammonia	bags (50 kg)	2	4000	8000
NPK	bags (50 kg)	2	6000	12000
<b>Insecticide</b>				10600
<b>Fungicide</b>				8000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$67,000</b>

#### Other Costs

Contingencies (10 percent of labour and material)				22450
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				33675
<b>SUBTOTAL</b>				<b>\$67,858</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$292,358</b>

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

Parish	St. Catherine	
Extension Area	Spanish Town	
Crop	HOT PEPPER (WI RED)	
Crop Maturity	3 Months	
Reaping Period	8 Months	
Planting Distance (l x w)	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	9,545	
<b>Cost of Production \$/Kg</b>	<b>\$79</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	5	2500	12500
Harrowing	tractor	3	2500	7500
Furrowing	tractor	2	2500	5000
Lining Irrigation Hose	MD	3	2000	6000
Planting	MD	12	2000	24000
Pesticide Application	MD	15	2000	30000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	3	2000	6000
Harvesting	MD	96	2000	192000
<b>Lunch</b>		144	500	72000
<b>SUBTOTAL</b>				<b>\$385,000</b>

#### Material Inputs

Planting Material	each	7260	10	72600
Water	month	11	2500	27500
<b>Fertiliser:</b>				
NPK	bags (50 kg)	5	6000	30000
Urea	bags (50 kg)	3	6000	18000
<b>Insecticide</b>				30500
<b>Fungicide</b>				16250
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$201,250</b>

#### Other Costs

Contingencies (10 percent of labour and material)				58625
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				87938
<b>SUBTOTAL</b>				<b>\$164,963</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$751,213</b>

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

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Parish	St. Elizabeth
Extension Area	Lacovia
Crop	PEANUT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈35000
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Bushel)	70
<b>Cost of Production \$/bushel</b>	<b>\$2,863</b>

Labour Operations	Unit	No. of Unit	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Ploughing	tractor	4	2500	10000
Prepare Planting Material	MD	1	2000	2000
Planting	MD	1	2000	2000
Pest Management	MD	4	2000	8000
Weed Control	MD	6	2000	12000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	15	2000	30000
<b>Lunch</b>		34	500	17000
<b>SUBTOTAL</b>				<b>\$95,000</b>

**Material Inputs**

Planting Material	bushel	8	2000	16000
<b>Fertiliser:</b>				
NPK	bags (50kg)	4	6000	24000
<b>Insecticide</b>				6600
<b>Fungicide</b>				4800
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$54,600</b>

**Other Costs**

Contingencies (10 percent of labour and material)				14960
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				22440
<b>SUBTOTAL</b>				<b>\$50,800</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$200,400</b>

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

St. ELIZABETH

Parish	St. Elizabeth		
Extension Area	Balaclava		
Crop	HOT PEPPER (WI RED)		
Crop Maturity	3 Months		
Reaping Period	9 Months		
Planting Distance (l x w)	cm	90 x 90	
	inches	36 x 36	<b>(Double Row)</b>
Plant Population	9680		
Terrain	Relatively Flat Land Farm		
Land Preparation	Mechanical		
Irrigated/Rain fed	Irrigated		
Area	0.4 hectare		
Man-day Charge (excluding lunch)	\$2,000		
Projected Marketable Yield (Kg)	11,364		
<b>Cost of Production \$/Kg</b>	<b>\$75</b>		

Labour Operations	Unit	No. of Unit	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	4	2000	8000
Furrowing	tractor	2	2000	4000
Maintain Trench	MD	3	2000	6000
Planting	MD	6	2000	12000
Pesticide Application	MD	10	2000	20000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	120	2000	240000
<b>Lunch</b>		156	300	46800
<b>SUBTOTAL</b>				<b>\$370,800</b>

Material Inputs				
Planting Material	each	9680	12	116160
Water	month	12	2500	30000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	6	6000	36000
Sulphate of Ammonia	bags (50 kg)	4	4200	16800
<b>Insecticide</b>				36500
<b>Fungicide</b>				37600
<b>Herbicide:</b>				
Broad Spectrum	litre	12	1600	19200
<b>SUBTOTAL</b>				<b>\$292,260</b>

Other Costs			
Contingencies (10 percent of labour and material)			66306
**Tools discounted for 5 years			8400
Land Charges per crop cycle			10000
Supervision (15 percent of labour and material)			99459
<b>SUBTOTAL</b>			<b>\$184,165</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>\$847,225</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Balaclava	
Crop	YELLOW YAM	
Crop Maturity	9 Months	
Reaping Period	3 Months	
Planting Distance (l x w)	cm	180 x 180
	inches	72 x 72
Plant Population	1210	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$42</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	5	10000	3	6000
Make Mounds	CW	2000	30	60000	24	48000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	4	8000	4	8000
Stake and Tie	MD	2000	4	8000	4	8000
Weed Control	MD	2000	6	12000	6	12000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	60	120000	60	120000
<b>Lunch</b>		500	83	41500	81	40500
<b>SUBTOTAL</b>				<b>\$267,500</b>		<b>\$250,500</b>

**Material Inputs**

Planting Material	lbs	50	4400	220000		
Stakes	each	100	605	60500	605	60500
<b>Fertiliser:</b>						
NPK	bags (50 kg)	5500	4	22000	3	16500
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	4	6400	3	4800
<b>SUBTOTAL</b>				<b>\$302,500</b>		<b>\$77,000</b>

**Other Costs**

Contingencies (10 percent of labour and material)		57000		32750
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		85500		49125
<b>SUBTOTAL</b>		<b>\$160,900</b>		<b>\$100,275</b>
<b>TOTAL COST</b>		<b>\$730,900</b>		<b>\$427,775</b>

Projected Marketable Yield

13636

13636

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Braes River	
Crop	BITTER CASSAVA	
Crop Maturity	9 Months	
Reaping Period	9 Months	
Planting Distance (l x w)	cm	90 x 120
	inches	36 x 48
Plant Population	3630	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$16</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	4	8000	3	6000
Ploughing	tractor	2500	5	12500	5	12500
Harrowing	tractor	2500	3	7500	3	7500
Furrowing	tractor	2500	2	5000	2	5000
Prepare Planting Material	MD	2000	2	4000	2	4000
Planting	MD	2000	2	4000	2	4000
Pesticide Application	MD	2000	4	8000	4	8000
Weed Control	MD	2000	6	12000	6	12000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	20	40000	20	40000
<b>Lunch</b>		500	39	19500	38	19000
<b>SUBTOTAL</b>				<b>\$122,500</b>		<b>\$120,000</b>

**Material Inputs**

Planting Material	each	5	3630	18150		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	4	24000	4	24000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	4	6400	3	4800
<b>SUBTOTAL</b>				<b>\$48,550</b>		<b>\$28,800</b>

**Other Costs**

Contingencies (10 percent of labour and material)		17105		14880
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		25657.5		22320
<b>SUBTOTAL</b>		<b>\$61,163</b>		<b>\$55,600</b>
<b>TOTAL COST</b>		<b>\$232,213</b>		<b>\$204,400</b>

Projected Marketable Yield

13636

13636

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Braes River	
Crop	SWEET CASSAVA	
Crop Maturity	12 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	90 x 120
	inches	36 x 48
Plant Population	3630	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
<b>Cost of Production \$/Kg</b>	<b>\$12</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	1500	4	6000	3	4500
Ploughing	tractor	2500	5	12500	5	12500
Harrowing	tractor	2500	3	7500	3	7500
Furrowing	tractor	2500	2	5000	2	5000
Prepare Planting Material	MD	1500	2	3000	2	3000
Planting	MD	1500	3	4500	3	4500
Weed Control	MD	1500	5	7500	5	7500
Fertilizer Application	MD	1500	1	1500	1	1500
Harvesting	MD	1500	15	22500	15	22500
<b>Lunch</b>		500	30	15000	29	14500
<b>SUBTOTAL</b>				<b>\$85,000</b>		<b>\$83,000</b>

**Material Inputs**

Planting Material	each	5	4840	24200		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	5500	4	22000	3	16500
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	2	3200	2	3200
<b>SUBTOTAL</b>				<b>\$49,400</b>		<b>\$19,700</b>

**Other Costs**

Contingencies (10 percent of labour and material)				13440		10270
**Tools discounted for 5 years				8400		8400
Land Charges per crop cycle				10000		10000
Supervision (15 percent of labour and material)				20160		15405
<b>SUBTOTAL</b>				<b>\$52,000</b>		<b>\$44,075</b>
<b>TOTAL COST</b>				<b>\$186,400</b>		<b>\$146,775</b>

Projected Marketable Yield

13636

13636

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Pedro Plain	
Crop	BEETROOT	
Crop Maturity	2 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)	cm	7.5 x 30
	inches	3 x 12
Plant Population	139392	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Semi-Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	15,909	
<b>Cost of Production \$/Kg</b>	<b>\$21</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	4	2000		8000
Mulching	CW	20	2000		40000
Planting	MD	12	2000		24000
Pesticide Application	MD	6	2000		12000
Weed Control	MD	10	2000		20000
Fertilizer Application	MD	1	2000		2000
Harvesting	MD	10	2000		20000
<b>Lunch</b>		43	500		21500
<b>SUBTOTAL</b>					<b>\$147,500</b>

**Material Inputs**

Planting Material	lbs	4	2100		8400
Water	month	3	5000		15000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	2	6000		12000
Urea	bags (50 kg)	2	6000		12000
<b>Insecticide</b>					10000
<b>Fungicide</b>					7200
Mulch					40000
<b>SUBTOTAL</b>					<b>\$104,600</b>

**Other Costs**

Contingencies (10 percent of labour and material)					25210
**Tools discounted for 5 years					8400
Land Charges per crop cycle					5000
Supervision (15 percent of labour and material)					37815
<b>SUBTOTAL</b>					<b>\$76,425</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$328,525</b>

**Note: 5 seeds were planted per hole and 80% of the seeds germinated leaving the plant population of 139,392**

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Pedro Plain	
Crop	CANTALOUPE	
Crop Maturity	2.5 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	60 x 180
	inches	24 x 72
Plant Population	3630	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	16,364	
<b>Cost of Production \$/Kg</b>	<b>\$21</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	4	2000		8000
Lining Irrigation Hose	MD	2	2000		4000
Mulching	CW	20	2000		40000
Dig Holes/Plant	MD	4	2000		8000
Pesticide Application	MD	8	2000		16000
Weed Control	MD	10	2000		20000
Fertilizer Application	MD	1	2000		2000
Harvesting	MD	5	2000		10000
<b>Lunch</b>		34	300		10200
<b>SUBTOTAL</b>					<b>\$118,200</b>

**Material Inputs**

Planting Material	packs	9	2500		22500
Water	month	4	5000		20000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	2	6000		12000
Sulphate of Ammonia	bags (50 kg)	1	4000		4000
<b>Insecticide</b>					16250
<b>Fungicide</b>					31000
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
Mulch					40000
<b>SUBTOTAL</b>					<b>\$152,150</b>

**Other Costs**

Contingencies (10 percent of labour and material)					27035
**Tools discounted for 5 years					8400
Land Charges per crop cycle					5000
Supervision (15 percent of labour and material)					40553
<b>SUBTOTAL</b>					<b>\$80,988</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$351,338</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Pedro Plain	
Crop	WATERMELON	
Crop Maturity	2.5 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	60 x 180
	inches	24 x 72
Plant Population	3630	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Semi-Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	24,545	
<b>Cost of Production \$/Kg</b>	<b>\$19</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	4	2000		8000
Ploughing	MD	15	2000		30000
Harrowing	MD	5	2000		10000
Mulching	CW	20	2000		40000
Planting	MD	4	2000		8000
Pesticide Application	MD	6	2000		12000
Weed Control	MD	10	2000		20000
Fertilizer Application	MD	2	2000		4000
Harvesting	MD	16	2000		32000
<b>Lunch</b>		62	300		18600
<b>SUBTOTAL</b>					<b>\$182,600</b>

**Material Inputs**

Planting Material	tins	2	6000		12000
Water	month	4	7000		28000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	3	6000		18000
Sulphate of Ammonia	bags (50 kg)	2	4000		8000
<b>Insecticide</b>					23000
<b>Fungicide</b>					37000
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
Mulch					40000
<b>SUBTOTAL</b>					<b>\$172,400</b>

**Other Costs**

Contingencies (10 percent of labour and material)					35500
**Tools discounted for 5 years					8400
Land Charges per crop cycle					5000
Supervision (15 percent of labour and material)					53250
<b>SUBTOTAL</b>					<b>\$102,150</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$457,150</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Malvern	
Crop	SWEET POTATO	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	90 x 30
	inches	36 x 12
Plant Population	14520	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,818	
<b>Cost of Production \$/Kg</b>	<b>\$33</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	8	2000		16000
Ploughing	tractor	5	2500		12500
Furrowing	tractor	3	2500		7500
Prepare Planting Material	MD	2	2000		4000
Planting	MD	5	2000		10000
Pesticide Application	MD	6	2000		12000
Weed Control	MD	7	2000		14000
Fertilizer Application	MD	1	2000		2000
Harvesting	MD	10	2000		20000
<b>Lunch</b>		39	500		19500
<b>SUBTOTAL</b>					<b>\$117,500</b>

**Material Inputs**

Planting Material	slips	10890	1		10890
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	5400		21600
<b>Insecticide</b>					10000
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$48,890</b>

**Other Costs**

Contingencies (10 percent of labour and material)					16639
**Tools discounted for 5 years					8400
Land Charges per crop cycle					6000
Supervision (15 percent of labour and material)					24959
<b>SUBTOTAL</b>					<b>\$55,998</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$222,388</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Malvern	
Crop	BROCCOLI	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	5,909	
<b>Cost of Production \$/Kg</b>	<b>\$61</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	8	2000		16000
Dig Holes	MD	6	2000		12000
Nursery Operations	MD	2	2000		4000
Mulching	MD	24	2000		48000
Transplanting	MD	6	2000		12000
Pesticide Application	MD	8	2000		16000
Weed Control	MD	10	2000		20000
Fertilizer Application	MD	3	2000		6000
Harvesting	MD	5	2000		10000
<b>Lunch</b>		<b>72</b>	<b>500</b>		<b>36000</b>
<b>SUBTOTAL</b>					<b>\$180,000</b>

**Material Inputs**

Planting Material	packs	4	4000		16000
Mulch					40000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	5400		21600
<b>Insecticide</b>					10000
<b>Fungicide</b>					6000
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$100,000</b>

**Other Costs**

Contingencies (10 percent of labour and material)					28000
**Tools discounted for 5 years					8400
Land Charges per crop cycle					4000
Supervision (15 percent of labour and material)					42000
<b>SUBTOTAL</b>					<b>\$82,400</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$362,400</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Malvern	
Crop	TOMATO (PLUMMY)	
Crop Maturity	3 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)	cm	60 x 120
	inches	24 x 48
Plant Population	5445	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Semi-Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	10,455	
<b>Cost of Production \$/Kg</b>	<b>\$48</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	8	2000		16000
Dig Holes	MD	8	2000		16000
Nursery Operations	MD	3	2000		6000
Mulching	MD	25	2000		50000
Transplanting	MD	6	2000		12000
Pesticide Application	MD	16	2000		32000
Weed Control	MD	10	2000		20000
Fertilizer Application	MD	3	2000		6000
Harvesting	MD	16	2000		32000
<b>Lunch</b>		95	500		47500
<b>SUBTOTAL</b>					<b>\$237,500</b>

**Material Inputs**

Planting Material	packs (1000 see	6	9000		54000
Water	month	4	4000		16000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	5400		21600
<b>Insecticide</b>					2600
<b>Fungicide</b>					13800
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
Mulch					40000
<b>SUBTOTAL</b>					<b>\$154,400</b>

**Other Costs**

Contingencies (10 percent of labour and material)					39190
**Tools discounted for 5 years					8400
Land Charges per crop cycle					4000
Supervision (15 percent of labour and material)					58785
<b>SUBTOTAL</b>					<b>\$110,375</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$502,275</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Black River	
Crop	SWEET POTATO	
Crop Maturity	6 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	90 x 30
	inches	36 x 12
Plant Population	14520	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,818	
<b>Cost of Production \$/Kg</b>	<b>\$33</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	4	2000		8000
Ploughing	tractor	5	2500		12500
Furrowing	tractor	2	2500		5000
Maintain Trench	MD	3	2000		6000
Prepare Planting Material	MD	2	2000		4000
Planting	MD	5	2000		10000
Pesticide Application	MD	5	2000		10000
Weed Control	MD	8	2000		16000
Fertilizer Application	MD	1	2000		2000
Harvesting	MD	12	2000		24000
<b>Lunch</b>		40	500		20000
<b>SUBTOTAL</b>					<b>\$117,500</b>

Material Inputs					
Planting Material	slips	14520	1		14520
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	5400		21600
<b>Insecticide</b>					10600
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$53,120</b>

Other Costs			
Contingencies (10 percent of labour and material)			17062
**Tools discounted for 5 years			8400
Land Charges per crop cycle			5000
Supervision (15 percent of labour and material)			25593
<b>SUBTOTAL</b>			<b>\$56,055</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>\$226,675</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Black River	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	300 x 300
	inches	120 x 120
Plant Population	436	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	10,000	
<b>Cost of Production \$/Kg</b>	<b>\$16</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	4	2000		8000
Dig Holes	MD	2	2000		4000
Maintain Trench	MD	2	2000		4000
Planting	MD	2	2000		4000
Pesticide Application	MD	3	2000		6000
Weed Control	MD	4	2000		8000
Fertilizer Application	MD	1	2000		2000
Harvesting	MD	6	2000		12000
<b>Lunch</b>		24	500		12000
<b>SUBTOTAL</b>					<b>\$60,000</b>

**Material Inputs**

Planting Material	lb	1	1200		1200
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	6000		24000
<b>Insecticide</b>					4850
<b>Fungicide</b>					20000
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$56,450</b>

**Other Costs**

Contingencies (10 percent of labour and material)					11645
**Tools discounted for 5 years					8400
Land Charges per crop cycle					5000
Supervision (15 percent of labour and material)					17468
<b>SUBTOTAL</b>					<b>\$42,513</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$158,963</b>

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

St. ELIZABETH

Parish	St. Elizabeth
Extension Area	Black River
Crop	PEANUT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈35000
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Bushel)	70
<b>Cost of Production \$/bushel</b>	<b>\$2,990</b>

Labour Operations	Unit	No. of Unit	Cost/Unit	Total Cost
Land Cleaning	MD	4	2000	8000
Ploughing	tractor	5	2500	12500
Maintain Trench	MD	3	2000	6000
Prepare Planting Material	MD	1	2000	2000
Planting	MD	1	2000	2000
Pest Management	MD	4	2000	8000
Weed Control	MD	6	2000	12000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	16	2000	32000
<b>Lunch</b>		36	500	18000
<b>SUBTOTAL</b>				<b>\$102,500</b>

**Material Inputs**

Planting Material	bushel	8	2000	16000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				6000
<b>Fungicide</b>				5000
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$54,200</b>

**Other Costs**

Contingencies (10 percent of labour and material)				15670
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				23505
<b>SUBTOTAL</b>				<b>\$52,575</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$209,275</b>

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

St. ELIZABETH

Parish	St. Elizabeth
Extension Area	Southfield
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈ 116000
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	7,273
<b>Cost of Production \$/Kg</b>	<b>\$45</b>

Labour Operations	Unit	No. of Unit	Cost/Unit	Total Cost
Land Cleaning	MD	7	2000	14000
Ploughing	tractor	4	2500	10000
Harrowing	tractor	4	2500	10000
Mulching	MD	12	2000	24000
Planting	MD	2	2000	4000
Pesticide Application	MD	5	2000	10000
Weed Control	MD	1	2000	2000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	14	2000	28000
<b>Lunch</b>		42	500	21000
<b>SUBTOTAL</b>				<b>\$125,000</b>

Material Inputs				
Planting Material	lbs	3	17500	52500
Mulch				16000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
Urea	bags (50 kg)	1	5500	5500
<b>Insecticide</b>				21000
<b>Fungicide</b>				6400
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
Selective	lbs	0.5	2300	1150
<b>SUBTOTAL</b>				<b>\$126,950</b>

Other Costs			
Contingencies (10 percent of labour and material)			25195
**Tools discounted for 5 years			8400
Land Charges per crop cycle			3333
Supervision (15 percent of labour and material)			37793
<b>SUBTOTAL</b>			<b>\$74,721</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>\$326,671</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Southfield	
Crop	CABBAGE	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	60 x 30
	inches	24 x 12
Plant Population	21780	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	22,273	
<b>Cost of Production \$/Kg</b>	<b>\$20</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	7	2000		14000
Dig Holes	MD	10	2000		20000
Lining Irrigation Hose	MD	3	2000		6000
Mulching	MD	10	2000		20000
Nursery Operations	MD	3	2000		6000
Transplanting	MD	6	2000		12000
Pesticide Application	MD	16	2000		32000
Weed Control	MD	12	2000		24000
Fertilizer Application	MD	2	2000		4000
Harvesting	MD	16	2000		32000
<b>Lunch</b>		85	500		42500
<b>SUBTOTAL</b>					<b>\$212,500</b>

Material Inputs					
Planting Material	packs (10000 se	2.2	4800		10560
Mulch					16000
Water	month	4	8000		32000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	6000		24000
<b>Insecticide</b>					42400
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$131,360</b>

Other Costs			
Contingencies (10 percent of labour and material)			34386
**Tools discounted for 5 years			8400
Land Charges per crop cycle			3333
Supervision (15 percent of labour and material)			51579
<b>SUBTOTAL</b>			<b>\$97,698</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>\$441,558</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Southfield	
Crop	TOMATO (PLUMMY)	
Crop Maturity	3 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)	cm	60 x 120
	inches	24 x 48
Plant Population	5445	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	12,273	
<b>Cost of Production \$/Kg</b>	<b>\$51</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	7	2000		14000
Dig Holes	MD	8	2000		16000
Lining Irrigation Hose	MD	3	2000		6000
Mulching	MD	4	2000		8000
Nursery Operations	MD	3	2000		6000
Transplanting	MD	6	2000		12000
Pesticide Application	MD	16	2000		32000
Weed Control	MD	12	2000		24000
Fertilizer Application	MD	4	2000		8000
Harvesting	MD	20	2000		40000
<b>Lunch</b>		83	500		41500
<b>SUBTOTAL</b>					<b>\$207,500</b>

Material Inputs					
Planting Material	packs (1000 see	6	9000		54000
Mulch					80000
Water	month	4	10000		40000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	8	5200		41600
<b>Insecticide</b>					29900
<b>Fungicide</b>					35000
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$286,900</b>

Other Costs			
Contingencies (10 percent of labour and material)			49440
**Tools discounted for 5 years			8400
Land Charges per crop cycle			3333
Supervision (15 percent of labour and material)			74160
<b>SUBTOTAL</b>			<b>\$135,333</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>\$629,733</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Junction	
Crop	CAULIFLOWER	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,136	
<b>Cost of Production \$/Kg</b>	<b>\$58</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	4	2000		8000
Dig Holes	MD	6	2000		12000
Mulching	MD	20	2000		40000
Nursery Operations	MD	2	2000		4000
Transplanting	MD	5	2000		10000
Pesticide Application	MD	8	2000		16000
Weed Control	MD	12	2000		24000
Fertilizer Application	MD	3	2000		6000
Harvesting	MD	7	2000		14000
<b>Lunch</b>		67	500		33500
<b>SUBTOTAL</b>					<b>\$167,500</b>

**Material Inputs**

Planting Material	packs	4	5000		20000
Mulch					40000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	5200		20800
<b>Insecticide</b>					14000
<b>Fungicide</b>					8000
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$109,200</b>

**Other Costs**

Contingencies (10 percent of labour and material)					27670
**Tools discounted for 5 years					8400
Land Charges per crop cycle					3333
Supervision (15 percent of labour and material)					41505
<b>SUBTOTAL</b>					<b>\$80,908</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$357,608</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Junction	
Crop	BROCCOLI	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,364	
<b>Cost of Production \$/Kg</b>	<b>\$59</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	4	2000		8000
Dig Holes	MD	6	2000		12000
Mulching	MD	20	2000		40000
Nursery Operations	MD	3	2000		6000
Transplanting	MD	6	2000		12000
Pesticide Application	MD	10	2000		20000
Weed Control	MD	12	2000		24000
Fertilizer Application	MD	3	2000		6000
Harvesting	MD	8	2000		16000
<b>Lunch</b>		72	500		36000
<b>SUBTOTAL</b>					<b>\$180,000</b>

**Material Inputs**

Planting Material	packs	4	5200		20800
Mulch					40000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	5200		20800
<b>Insecticide</b>					15000
<b>Fungicide</b>					8400
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$111,400</b>

**Other Costs**

Contingencies (10 percent of labour and material)					29140
**Tools discounted for 5 years					8400
Land Charges per crop cycle					3333
Supervision (15 percent of labour and material)					43710
<b>SUBTOTAL</b>					<b>\$84,583</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$375,983</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Mountainside	
Crop	CALLALOO	
Crop Maturity	2 Months	
Reaping Period	4 Months	
Planting Distance (l x w)	cm	30 x 60
	inches	12 x 24
Plant Population	21780	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Semi-Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	29,545	
<b>Cost of Production \$/Kg</b>	<b>\$12</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	5	2000		10000
Ploughing	tractor	4	2000		8000
Nursery Operations	MD	2	2000		4000
Transplanting	MD	6	2000		12000
Pesticide Application	MD	24	2000		48000
Weed Control	MD	15	2000		30000
Fertilizer Application	MD	1	2000		2000
Harvesting	MD	32	2000		64000
<b>Lunch</b>		85	500		42500
<b>SUBTOTAL</b>					<b>\$220,500</b>

**Material Inputs**

Planting Material	lbs	0.25	2400		600
Water	month	6	1000		6000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	2	5500		11000
<b>Insecticide</b>					20000
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$44,000</b>

**Other Costs**

Contingencies (10 percent of labour and material)					26450
**Tools discounted for 5 years					8400
Land Charges per crop cycle					5000
Supervision (15 percent of labour and material)					39675
<b>SUBTOTAL</b>					<b>\$79,525</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$344,025</b>

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

St. ELIZABETH

Parish	St. Elizabeth
Extension Area	Mountainside
Crop	PEANUT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈35000
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Semi-Irrigated
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Bushel)	70
<b>Cost of Production \$/bushel</b>	<b>\$2,954</b>

Labour Operations	Unit	No. of Unit	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	4	2000	8000
Prepare Planting Material	CW	1	1000	1000
Planting	MD	1	2000	2000
Pest Management	MD	5	2000	10000
Weed Control	MD	4	2000	8000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	14	2000	28000
<b>Lunch</b>		30	500	15000
<b>SUBTOTAL</b>				<b>\$84,000</b>

**Material Inputs**

Planting Material	bushel	8	2000	16000
Water	month	5	1200	6000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				6500
<b>Fungicide</b>				4200
<b>Herbicide:</b>				
Selective	litre	2	7000	14000
<b>SUBTOTAL</b>				<b>\$70,700</b>

**Other Costs**

Contingencies (10 percent of labour and material)				15470
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				23205
<b>SUBTOTAL</b>				<b>\$52,075</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$206,775</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Mountainside	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	300 x 300
	inches	120 x 120
Plant Population	436	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Semi-Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	10,909	
<b>Cost of Production \$/Kg</b>	<b>\$15</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	5	2000		10000
Dig Holes	MD	3	2000		6000
Planting	MD	2	2000		4000
Pesticide Application	MD	3	2000		6000
Weed Control	MD	4	2000		8000
Fertilizer Application	MD	1	2000		2000
Harvesting	MD	8	2000		16000
<b>Lunch</b>		26	500		13000
<b>SUBTOTAL</b>					<b>\$65,000</b>

**Material Inputs**

Planting Material	lb	1	1200		1200
Water	month	4	2000		8000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	6000		24000
<b>Insecticide</b>					5200
<b>Fungicide</b>					16000
<b>Herbicide:</b>					
Broad Spectrum	litre	3	1600		4800
<b>SUBTOTAL</b>					<b>\$59,200</b>

**Other Costs**

Contingencies (10 percent of labour and material)					12420
**Tools discounted for 5 years					8400
Land Charges per crop cycle					5000
Supervision (15 percent of labour and material)					18630
<b>SUBTOTAL</b>					<b>\$44,450</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$168,650</b>

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

St. ELIZABETH

Parish	St. Elizabeth	
Extension Area	Mountainside	
Crop	SWEET POTATO	
Crop Maturity	4 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	90 x 30
	inches	36 x 12
Plant Population	14520	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Semi-Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,273	
<b>Cost of Production \$/Kg</b>	<b>\$32</b>	

Labour Operations	Unit	No. of Unit	Cost/Unit		Total Cost
Land Cleaning	MD	5	2000		10000
Ploughing	tractor	4	2000		8000
Furrowing	tractor	4	2000		8000
Prepare Planting Material	MD	2	2000		4000
Planting	MD	6	2000		12000
Pesticide Application	MD	8	2000		16000
Weed Control	MD	5	2000		10000
Fertilizer Application	MD	1	2000		2000
Harvesting	MD	12	2000		24000
<b>Lunch</b>		39	500		19500
<b>SUBTOTAL</b>					<b>\$113,500</b>

**Material Inputs**

Planting Material	slips	14520	1		14520
Water	month	4	2000		8000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4	6000		24000
<b>Insecticide</b>					8700
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$61,620</b>

**Other Costs**

Contingencies (10 percent of labour and material)					17512
**Tools discounted for 5 years					8400
Land Charges per crop cycle					5000
Supervision (15 percent of labour and material)					26268
<b>SUBTOTAL</b>					<b>\$57,180</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$232,300</b>

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



Parish	St. James
Extension Area	Montego Bay
Crop	SWEET CASSAVA
Crop Maturity	12 Months
Reaping Period	1 Month
Planting Distance (l x w)	
	cm 90 x 90
	inches 36 x 36
Plant Population	4840
Terrain	Hillside Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
<b>Cost of Production \$/Kg</b>	<b>\$18</b>

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	8	16000	6	12000
Ploughing	MD	2000	6	12000	6	12000
Dig Holes	MD	2000	4	8000	4	8000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	6	12000	6	12000
Weed Control	MD	2000	8	16000	5	10000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	20	40000	20	40000
<b>Lunch</b>		500	56	28000	51	25500
<b>SUBTOTAL</b>				<b>\$140,000</b>		<b>\$127,500</b>

#### Material Inputs

Planting Material	each	7	4840	33880		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	2	12000	2	12000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	2	3200	2	3200
<b>SUBTOTAL</b>				<b>\$49,080</b>		<b>\$15,200</b>

#### Other Costs

Contingencies (10 percent of labour and material)		18908		14270
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		5000		5000
Supervision (15 percent of labour and material)		28362		21405
<b>SUBTOTAL</b>		<b>\$60,670</b>		<b>\$49,075</b>
<b>TOTAL COST</b>		<b>\$249,750</b>		<b>\$191,775</b>

Projected Marketable Yield

12273

12273

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	St. James	
Extension Area	Montego Bay	
Crop	HOT PEPPER (WI RED)	
Crop Maturity	3 Months	
Reaping Period	9 Months	
Planting Distance (l x w)	cm	120 x 90
	inches	48 x 36
Plant Population	3630	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	12,727	
<b>Cost of Production \$/Kg</b>	<b>\$78</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	tractor	2	2000	4000
Harrowing	tractor	1	2000	2000
Furrowing	tractor	1	2000	2000
Lining Irrigation Hose	MD	3	2000	6000
Planting	MD	7	2000	14000
Pesticide Application	MD	24	2000	48000
Weed Control	MD	8	2000	16000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	140	2000	280000
<b>Lunch</b>		192	500	96000
<b>SUBTOTAL</b>				<b>\$488,000</b>

#### Material Inputs

Planting Material	each	3630	15	54450
Mulch	rolls	2	40000	80000
Water	month	12	2000	24000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	5	6000	30000
<b>Insecticide</b>				75000
<b>Fungicide</b>				28000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$297,850</b>

#### Other Costs

Contingencies (10 percent of labour and material)				78585
**Tools discounted for 5 years				8400
Land Charges per crop cycle				5000
Supervision (15 percent of labour and material)				117878
<b>SUBTOTAL</b>				<b>\$209,863</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$995,713</b>

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

Parish	St. James
Extension Area	Latium
Crop	HORSE PLANTAIN
Crop Maturity	9 Months
Reaping Period	1.5 Months
Planting Distance (l x w)	
	cm 240 x 240
	inches 96 x 96
Plant Population	681
Terrain	Hillside Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	7,734
<b>Cost of Production \$/Kg</b>	<b>\$40</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	4	2000	8000
Maintain Trench	MD	7	2000	14000
Prepare Planting Material	MD	6	2000	12000
Dig Holes/Plant	MD	14	2000	28000
Pesticide Application	MD	4	2000	8000
Weed Control	MD	3	2000	6000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	15	2000	30000
<b>Lunch</b>		55	500	27500
<b>SUBTOTAL</b>				<b>\$137,500</b>

#### Material Inputs

Planting Material	each	681	70	47670
<b>Fertiliser:</b>				
Sulphate of Ammonia	bags (50 kg)	5	4500	22500
NPK	bags (50 kg)	3	5500	16500
<b>Insecticide</b>				1500
<b>Fungicide</b>				8500
Oil	gallon	2	1200	2400
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$102,270</b>

#### Other Costs

Contingencies (10 percent of labour and material)			23977
**Tools discounted for 5 years			8400
Land Charges per crop cycle			5000
Supervision (15 percent of labour and material)			35966
<b>SUBTOTAL</b>			<b>\$73,343</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>\$313,113</b>

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

Parish	St. James
Extension Area	Maroon Town
Crop	CABBAGE
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	
cm	45 x 45
inches	18 x 18
Planting Population	19360
Terrain	Hillside Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	15,455
<b>Cost of Production \$/Kg</b>	<b>\$29</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Dig Holes	MD	15	2000	30000
Furrowing	MD	10	2000	20000
Nursery Operations	MD	4	2000	8000
Transplanting	MD	10	2000	20000
Pesticide Application	MD	10	2000	20000
Weed Control	MD	20	2000	40000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	20	2000	40000
<b>Lunch</b>		97	500	48500
<b>SUBTOTAL</b>				<b>\$242,500</b>

#### Material Inputs

Planting Material	packs	4	7500	30000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				37000
<b>Fungicide</b>				8000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$105,400</b>

#### Other Costs

Contingencies (10 percent of labour and material)				34790
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				52185
<b>SUBTOTAL</b>				<b>\$98,708</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$446,608</b>

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

Parish	St. James	
Extension Area	Maroon Town	
Crop	GINGER	
Crop Maturity	10 Months	
Reaping Period	4 Months	
Planting Distance (l x w)	cm	30 x 30
	inches	12 x 12
Planting Population	43560	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$50</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	6	12000	4	8000
Ploughing	MD	2000	14	28000	14	28000
Furrowing	MD	2000	8	16000	8	16000
Prepare Planting Material	MD	2000	4	8000	4	8000
Planting	MD	2000	15	30000	15	30000
Weed Control	MD	2000	30	60000	24	48000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	30	60000	30	60000
<b>Lunch</b>		500	109	54500	101	50500
<b>SUBTOTAL</b>				<b>\$272,500</b>		<b>\$252,500</b>

#### Material Inputs

Planting Material	lbs	150	2000	300000		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	5400	4	21600	3	16200
<b>Fungicide</b>				5500		5500
<b>SUBTOTAL</b>				<b>\$327,100</b>		<b>\$21,700</b>

#### Other Costs

Contingencies (10 percent of labour and material)		59960		27420
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		89940		41130
<b>SUBTOTAL</b>		<b>\$168,300</b>		<b>\$86,950</b>
<b>TOTAL COST</b>				<b>\$767,900</b>

Projected Marketable Yield	11364	11364
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**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	St. James	
Extension Area	Maroon Town	
Crop	PINEAPPLE (Bull Head)	
Crop Maturity	12 Months	
Reaping Period	Indefinite	
Planting Distance (l x w)	cm	30 x 180
	inches	12 x 72
Plant Population	7260	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	19,091	
<b>Cost of Production \$/Kg</b>	<b>\$34</b>	

Labour Operations	Unit	Cost/Unit	Year 1	Year 2	Year 3
Land Cleaning	MD	2000	20000		
Dig Holes	MD	2000	14000		
Prepare Planting Material	MD	2000	6000		
Planting	MD	2000	16000		
Weed Control	MD	2000	30000	10000	10000
Fertilizer Application	MD	2000	6000	6000	6000
Harvesting	MD	2000	0	24000	40000
<b>Lunch</b>		300	13800	6000	8400
<b>SUBTOTAL</b>			<b>\$ 105,800.00</b>	<b>\$ 46,000.00</b>	<b>\$ 64,400.00</b>

#### Material Inputs

Planting Material	each	25	181500		
<b>Fertiliser:</b>					
NPK	bags (50 kg)	4800	19200	14400	9600
<b>Herbicide:</b>					
Selective	litre	1850	7400	7400	7400
<b>SUBTOTAL</b>			<b>\$ 208,100.00</b>	<b>\$ 21,800.00</b>	<b>\$ 17,000.00</b>

#### Other Costs

Contingencies (10 percent of labour and material)	31390	6780	8140
**Tools discounted for 5 years	7000	7000	7000
Land Charges per crop cycle	15000	15000	15000
Supervision (15 percent of labour and material)	47085	10170	12210
<b>SUBTOTAL</b>	<b>\$ 100,475.00</b>	<b>\$ 38,950.00</b>	<b>\$ 42,350.00</b>
<b>TOTAL</b>	<b>\$ 414,375.00</b>	<b>\$ 106,750.00</b>	<b>\$ 123,750.00</b>

**Note:** This Model shows a three year cycle since the crop's reaping is indefinite. After purchasing the planting material in Year 1, no planting material has to be purchased in subsequent years due to each plant producing multiple suckers to start new crop cycle.

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

Parish	St. James
Extension Area	Anchovy
Crop	CALLALOO
Crop Maturity	2 Months
Reaping Period	6 Months
Planting Distance (l x w)	
	cm 30 x 60
	inches 12 x 24
Plant Population	21780
Terrain	Relatively Flat Land Farm
Land Preparation	Manual
Irrigated/Rain fed	Semi-Irrigated
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	25,455
<b>Cost of Production \$/Kg</b>	<b>\$20</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	MD	8	2000	16000
Furrowing	MD	6	2000	12000
Maintain Trench	MD	4	2000	8000
Nursery Operations	MD	3	2000	6000
Transplanting	MD	5	2000	10000
Pesticide Application	MD	12	2000	24000
Weed Control	MD	12	2000	24000
Fertilizer Application	MD	4	2000	8000
Harvesting	MD	40	2000	80000
<b>Lunch</b>		99	500	49500
<b>SUBTOTAL</b>				<b>\$247,500</b>

#### Material Inputs

Planting Material	packs	14	150	2100
Water	month	6	6000	36000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	8	6000	48000
<b>Insecticide</b>				36000
<b>Fungicide</b>				16000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$144,500</b>

#### Other Costs

Contingencies (10 percent of labour and material)				39200
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				58800
<b>SUBTOTAL</b>				<b>\$116,400</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$508,400</b>

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

Parish	St. James
Extension Area	Anchovy
Crop	YELLOW YAM
Crop Maturity	7 Months
Reaping Period	4 Months
Planting Distance (l x w)	
	cm 150 x 180
	inches 60 x 72
Plant Population	1452
Terrain	Relatively Flat Land Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
<b>Cost of Production \$/Kg</b>	<b>\$61</b>

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	10	20000	7	14000
Make Mounds	CW	2000	30	60000	24	48000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	2	4000	2	4000
Stake and Tie	MD	2000	12	24000	12	24000
Weed Control	MD	2000	12	24000	8	16000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	12	24000	12	24000
<b>Lunch</b>		500	52	26000	45	22500
<b>SUBTOTAL</b>				<b>\$190,000</b>		<b>\$160,500</b>

#### Material Inputs

Planting Material	lbs	50	5100	255000		
Stakes	each	40	1452	58080	1452	58080
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	5	30000	3	18000
<b>SUBTOTAL</b>				<b>\$343,080</b>		<b>\$76,080</b>

#### Other Costs

Contingencies (10 percent of labour and material)		53308		23658
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		79962		35487
<b>SUBTOTAL</b>		<b>\$151,670</b>		<b>\$77,545</b>
<b>TOTAL COST</b>		<b>\$684,750</b>		<b>\$314,125</b>

Projected Marketable Yield

8182

8182

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

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Parish	St. Mary	
Extension Area	Annotto Bay	
Crop	SCOTCH BONNET PEPPER	
Crop Maturity	3 Months	
Reaping Period	9 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	10,909	
<b>Cost of Production \$/Kg</b>	<b>\$82</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	7	1500	10500
Ploughing	tractor	6	2500	15000
Harrowing	tractor	3	2500	7500
Furrowing	tractor	3	2500	7500
Maintain Trench	MD	5	1500	7500
Planting	MD	6	1500	9000
Pesticide Application	MD	28	1500	42000
Weed Control	MD	8	1500	12000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	120	1500	180000
<b>Lunch</b>		176	500	88000
<b>SUBTOTAL</b>				<b>\$382,000</b>

**Material Inputs**

Planting Material	each	7260	15	108900
Water	month	12	3500	42000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
Urea	bags (50 kg)	2	5400	10800
<b>Insecticide</b>				112000
<b>Fungicide</b>				17000
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$319,500</b>

**Other Costs**

Contingencies (10 percent of labour and material)				70150
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				105225
<b>SUBTOTAL</b>				<b>\$193,775</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$895,275</b>

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

St. MARY

Parish	St. Mary	
Extension Area	Annotto Bay	
Crop	SWEET CASSAVA	
Crop Maturity	9 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)		
	cm	60 x 150
	inches	24 x 60
Plant Population	4356	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
<b>Cost of Production (\$/Kg)</b>	<b>\$12</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	1500	7	10500	5	7500
Ploughing	tractor	2500	6	15000	6	15000
Harrowing	tractor	2500	3	7500	3	7500
Furrowing	tractor	2500	3	7500	3	7500
Maintain Trench	MD	1500	3	4500	3	4500
Prepare Planting Material	MD	1500	2	3000	2	3000
Planting	MD	1500	3	4500	3	4500
Weed Control	MD	1500	5	7500	4	6000
Fertilizer Application	MD	1500	2	3000	2	3000
Harvesting	MD	1500	12	18000	12	18000
<b>Lunch</b>		500	34	17000	31	15500
<b>SUBTOTAL</b>				<b>\$98,000</b>		<b>\$92,000</b>

**Material Inputs**

Planting Material	each	7	4356	30492		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	2	12000	2	12000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	3	4800	2	3200
<b>SUBTOTAL</b>				<b>\$47,292</b>		<b>\$15,200</b>

**Other Costs**

Contingencies (10 percent of labour and material)		14529.2		10720
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		21793.8		16080
<b>SUBTOTAL</b>		<b>\$54,723</b>		<b>\$45,200</b>
<b>TOTAL COST</b>		<b>\$200,015</b>		<b>\$152,400</b>

Projected Marketable Yield	14545	14545
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**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

St. MARY

Parish	St. Mary		
Extension Area	Annotto Bay		
Crop	HOT PEPPER (WI RED)		
Crop Maturity	3 Months		
Reaping Period	9 Months		
Planting Distance (l x w)		60 x 90	
	cm		
	inches	24 x 36	(Double Row)
Plant Population	14520		
Terrain	Relatively Flat Land Farm		
Land Preparation	Mechanical		
Irrigated/Rain fed	Irrigated		
Area	0.4 hectare		
Man-day Charge (excluding lunch)	\$1,500		
Projected Marketable Yield (Kg)	18,182		
<b>Cost of Production \$/Kg</b>	<b>\$76</b>		

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	7	1500	10500
Ploughing	tractor	6	2500	15000
Harrowing	tractor	3	2500	7500
Furrowing	tractor	3	2500	7500
Maintain Trench	MD	5	1500	7500
Planting	MD	15	1500	22500
Pesticide Application	MD	18	1500	27000
Weed Control	MD	12	1500	18000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	220	1500	330000
<b>Lunch</b>		279	500	139500
<b>SUBTOTAL</b>				<b>\$588,000</b>

Material Inputs				
Planting Material	each	14520	15	217800
Mulch	rolls	3.5	38000	133000
Water	month	12	3500	42000
<b>Fertiliser:</b>				
Soluble	bags	15	3300	49500
<b>Insecticide</b>				36000
<b>Fungicide</b>				13700
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$498,400</b>

Other Costs				
Contingencies (10 percent of labour and material)				108640
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				162960
<b>SUBTOTAL</b>				<b>\$290,000</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$1,376,400</b>

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

St. MARY

Parish	St. Mary	
Extension Area	Carron hall	
Crop	IRISH POTATO	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	30 x 90
	inches	12 x 36
Plant Population	14520	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	7,727	
<b>Cost of Production \$/Kg</b>	<b>\$54</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	MD	10	1500	15000
Furrowing	MD	10	1500	15000
Moulding	MD	15	1500	22500
Maintain Trench	MD	4	1500	6000
Planting	MD	10	1500	15000
Pesticide Application	MD	12	1500	18000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	20	1500	30000
<b>Lunch</b>		88	500	44000
<b>SUBTOTAL</b>				<b>\$176,000</b>

Material Inputs					
Planting Material	(elite seeds)	bags (25 kg)	18	3500	63000
<b>Fertiliser:</b>					
NPK		bags (50 kg)	6	5500	33000
Sulphate of Ammonia		bags (50 kg)	3	4000	12000
<b>Insecticide</b>					15000
<b>Fungicide</b>					19500
<b>Herbicide:</b>					
Broad Spectrum		litre	4	1600	6400
<b>SUBTOTAL</b>					<b>\$148,900</b>

Other Costs					
Contingencies (10 percent of labour and material)					32490
**Tools discounted for 5 years					8400
Land Charges per crop cycle					6000
Supervision (15 percent of labour and material)					48735
<b>SUBTOTAL</b>					<b>\$95,625</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$420,525</b>

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

St. MARY

Parish	St. Mary
Extension Area	Carron hall
Crop	CABBAGE
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	
cm	90 x 30
inches	36 x 12
Plant Population	14520
Terrain	Hillside Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$1,500
Projected Marketable Yield (Kg)	16,364
<b>Cost of Production \$/Kg</b>	<b>\$22</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	MD	10	1500	15000
Furrowing	MD	10	1500	15000
Maintain Trench	MD	5	1500	7500
Nursery Operations	MD	4	1500	6000
Transplanting	MD	12	1500	18000
Pesticide Application	MD	15	1500	22500
Weed Control	MD	10	1500	15000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	12	1500	18000
<b>Lunch</b>		85	500	42500
<b>SUBTOTAL</b>				<b>\$170,000</b>

Material Inputs				
Planting Material	packs (10000 seeds)	2	8550	17100
<b>Fertiliser:</b>				
NPK	bags (50 kg)	8	5500	44000
<b>Insecticide</b>				25000
<b>Fungicide</b>				7500
<b>Herbicide:</b>				
Broad Spectrum	litre	6	1600	9600
<b>SUBTOTAL</b>				<b>\$103,200</b>

Other Costs				
Contingencies (10 percent of labour and material)				27320
**Tools discounted for 5 years				8400
Land Charges per crop cycle				4000
Supervision (15 percent of labour and material)				40980
<b>SUBTOTAL</b>				<b>\$80,700</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$353,900</b>

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

St. MARY

Parish	St. Mary
Extension Area	Gayle
Crop	PUMPKIN (BODLES GLOBE)
Crop Maturity	4 Months
Reaping Period	2 Months
Planting Distance (l x w)	
cm	240 x 300
inches	96 x 120
Plant Population	545
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$1,500
Projected Marketable Yield (Kg)	9,909
<b>Cost of Production \$/Kg</b>	<b>\$16</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	tractor	6	2500	15000
Dig Holes	MD	2	1500	3000
Maintain Trench	MD	2	1500	3000
Planting	MD	2	1500	3000
Pesticide Application	MD	5	1500	7500
Weed Control	MD	2	1500	3000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	10	1500	15000
<b>Lunch</b>		30	500	15000
<b>SUBTOTAL</b>				<b>\$75,000</b>

Material Inputs				
Planting Material	lb	1	2000	2000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	5400	16200
<b>Insecticide</b>				6000
<b>Fungicide</b>				10600
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$38,000</b>

Other Costs				
Contingencies (10 percent of labour and material)				11300
**Tools discounted for 5 years				8400
Land Charges per crop cycle				6000
Supervision (15 percent of labour and material)				16950
<b>SUBTOTAL</b>				<b>\$42,650</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$155,650</b>

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

St. MARY

Parish	St. Mary
Extension Area	Gayle
Crop	SWEET POTATO
Crop Maturity	4 Months
Reaping Period	2 Months
Planting Distance (l x w)	
cm	90 x 30
inches	36 x 12
Plant Population	14520
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$1,500
Projected Marketable Yield (Kg)	8,636
<b>Cost of Production \$/Kg</b>	<b>\$28</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	tractor	6	2500	15000
Furrowing	tractor	4	2500	10000
Prepare Planting Material	MD	4	1500	6000
Planting	MD	8	1500	12000
Pesticide Application	MD	4	1500	6000
Weed Control	MD	2	1500	3000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	20	1500	30000
<b>Lunch</b>		45	500	22500
<b>SUBTOTAL</b>				<b>\$115,000</b>

Material Inputs				
Planting Material	slips	14520	1	14520
<b>Fertiliser:</b>				
NPK	bags (50 kg)	5	5500	27500
<b>Insecticide</b>				13000
<b>Fungicide</b>				5250
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$65,070</b>

Other Costs				
Contingencies (10 percent of labour and material)				18007
**Tools discounted for 5 years				8400
Land Charges per crop cycle				6000
Supervision (15 percent of labour and material)				27011
<b>SUBTOTAL</b>				<b>\$59,418</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$239,488</b>

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

St. MARY

Parish	St. Mary
Extension Area	Gayle
Crop	IRISH POTATO
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	
cm	30 x 90
inches	12 x 36
Plant Population	14520
Terrain	Relatively Flat Land Farm
Land Preparation	Mechanical
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$1,500
Projected Marketable Yield (Kg)	6,818
<b>Cost of Production \$/Kg</b>	<b>\$47</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	tractor	6	2500	15000
Furrowing	tractor	4	2500	10000
Moulding	MD	14	1500	21000
Planting	MD	8	1500	12000
Pesticide Application	MD	10	1500	15000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	16	1500	24000
<b>Lunch</b>		55	300	16500
<b>SUBTOTAL</b>				<b>\$124,000</b>

Material Inputs				
Planting Material (elite seeds)	bags (25 kg)	18	3500	63000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				12000
<b>Fungicide</b>				18000
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$121,800</b>

Other Costs				
Contingencies (10 percent of labour and material)				24580
**Tools discounted for 5 years				8400
Land Charges per crop cycle				6000
Supervision (15 percent of labour and material)				36870
<b>SUBTOTAL</b>				<b>\$75,850</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$321,650</b>

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

St. MARY

Parish	St. Mary	
Extension Area	Oracabessa	
Crop	TOMATO (PLUMMY)	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	90 x60
	inches	36 x 24
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	6,600	
<b>Cost of Production \$/Kg</b>	<b>\$54</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Dig Holes	MD	8	1500	12000
Nursery Operations	MD	3	1500	4500
Transplanting	MD	10	1500	15000
Pesticide Application	MD	10	1500	15000
Weed Control	MD	10	1500	15000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	16	1500	24000
<b>Lunch</b>		64	500	32000
<b>SUBTOTAL</b>				<b>\$128,000</b>

**Material Inputs**

Planting Material	packs (1000 seeds)	8	9400	75200
<b>Fertiliser:</b>				
NPK	bags (50 kg)	5	5400	27000
Sulphate of Ammonia	bags (50 kg)	2	4200	8400
<b>Insecticide</b>				11500
<b>Fungicide</b>				20250
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$147,150</b>

**Other Costs**

Contingencies (10 percent of labour and material)				27515
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				41273
<b>SUBTOTAL</b>				<b>\$80,521</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$355,671</b>

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

St. MARY

Parish	St. Mary
Extension Area	Oracabessa
Crop	CABBAGE
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	
cm	90 x 30
inches	36 x 12
Plant Population	14520
Terrain	Relatively Flat Land Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$1,500
Projected Marketable Yield (Kg)	16,364
<b>Cost of Production \$/Kg</b>	<b>\$20</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	MD	15	1500	22500
Furrowing	MD	8	1500	12000
Maintain Trench	MD	5	1500	7500
Nursery Operations	MD	4	1500	6000
Transplanting	MD	10	1500	15000
Pesticide Application	MD	16	1500	24000
Weed Control	MD	10	1500	15000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	14	1500	21000
<b>Lunch</b>		89	500	44500
<b>SUBTOTAL</b>				<b>\$178,000</b>

Material Inputs				
Planting Material	pack (10000 seeds)	2	8550	17100
<b>Fertiliser:</b>				
NPK	bags (50 kg)	6	5400	32400
<b>Insecticide</b>				20000
<b>Fungicide</b>				5000
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$79,300</b>

Other Costs				
Contingencies (10 percent of labour and material)				25730
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				38595
<b>SUBTOTAL</b>				<b>\$76,058</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$333,358</b>

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

St. MARY

Parish	St. Mary	
Extension Area	Oracabessa	
Crop	SCOTCH BONNET PEPPER	
Crop Maturity	3 Months	
Reaping Period	8 Months	
Planting Distance (l x w)		
	cm	30 x 60
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	9,091	
<b>Cost of Production \$/Kg</b>	<b>\$83</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	tractor	6	2500	15000
Harrowing	tractor	3	2500	7500
Furrowing	tractor	3	2500	7500
Planting	MD	8	1500	12000
Pesticide Application	MD	24	1500	36000
Weed Control	MD	14	1500	21000
Fertilizer Application	MD	3	1500	4500
Harvesting	MD	100	1500	150000
<b>Lunch</b>		154	500	77000
<b>SUBTOTAL</b>				<b>\$338,000</b>

Material Inputs				
Planting Material	each	7260	15	108900
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	5400	21600
Sulphate of Ammonia	bags (50 kg)	2	4200	8400
<b>Insecticide</b>				93000
<b>Fungicide</b>				12000
<b>Herbicide:</b>				
Broad Spectrum	litre	6	1600	9600
<b>SUBTOTAL</b>				<b>\$253,500</b>

Other Costs				
Contingencies (10 percent of labour and material)				59150
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				88725
<b>SUBTOTAL</b>				<b>\$166,275</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$757,775</b>

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

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Parish	St. Thomas
Extension Area	Trinityville
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈ 116000
Terrain	Hillside Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	6,364
<b>Cost of Production \$/Kg</b>	<b>\$40</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2000	20000
Ploughing	MD	20	2000	40000
Planting	MD	1	2000	2000
Pesticide Application	MD	3	2000	6000
Weed Control	MD	6	2000	12000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	20	2000	40000
<b>Lunch</b>		62	500	31000
<b>SUBTOTAL</b>				<b>\$155,000</b>

**Material Inputs**

Planting Material	lbs	3	4100	12300
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	5300	15900
<b>Insecticide</b>				2300
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$36,900</b>

**Other Costs**

Contingencies (10 percent of labour and material)				19190
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				28785
<b>SUBTOTAL</b>				<b>\$59,708</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$251,608</b>

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

ST. THOMAS

Parish	St. Thomas	
Extension Area	Bath	
Crop	SCOTCH BONNET PEPPER	
Crop Maturity	3 Months	
Reaping Period	9 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	9,091	
<b>Cost of Production (\$/Kg)</b>	<b>\$78</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	1500	12000
Ploughing	tractor	3	2000	6000
Harrowing	tractor	3	2000	6000
Furrowing	tractor	3	2000	6000
Planting	MD	5	1500	7500
Pesticide Application	MD	22	1500	33000
Weed Control	MD	14	1500	21000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	90	1500	135000
<b>Lunch</b>		141	500	70500
<b>SUBTOTAL</b>				<b>\$300,000</b>

Material Inputs				
Planting Material	each	7260	15	108900
Water	month	12	3000	36000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
Urea	bags (50 kg)	2	5400	10800
<b>Insecticide</b>				56500
<b>Fungicide</b>				19200
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$255,800</b>

Other Costs	
Contingencies (10 percent of labour and material)	55580
**Tools discounted for 5 years	8400
Land Charges per crop cycle	8000
Supervision (15 percent of labour and material)	\$83,370
<b>SUBTOTAL</b>	<b>\$155,350</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>	<b>\$711,150</b>

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

ST. THOMAS

Parish	St. Thomas	
Extension Area	Bath	
Crop	PUMPKIN (BODLES GLOBE)	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)	cm	240 x 240
	inches	96 x 96
Plant Population	681	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	7,273	
<b>Cost of Production \$/Kg</b>	<b>\$23</b>	

Labour Operations	Unit	No. of Units	Cost/Unit		Total Cost
Land Cleaning	MD	8	1500		12000
Ploughing	tractor	3	2000		6000
Harrowing	tractor	3	2000		6000
Furrowing	tractor	3	2000		6000
Planting	MD	2	1500		3000
Pesticide Application	MD	12	1500		18000
Weed Control	MD	4	1500		6000
Fertilizer Application	MD	2	1500		3000
Harvesting	MD	6	1500		9000
<b>Lunch</b>		34	500		17000
<b>SUBTOTAL</b>					<b>\$86,000</b>

Material Inputs					
Planting Material	lb	1	3000		3000
<b>Fertiliser:</b>					
NPK	bags (50 kg)	2	5400		10800
Urea	bags (50 kg)	1	5400		5400
<b>Insecticide</b>					5500
<b>Fungicide</b>					6600
<b>Herbicide:</b>					
Broad Spectrum	litre	4	1600		6400
<b>SUBTOTAL</b>					<b>\$37,700</b>

Other Costs					
Contingencies (10 percent of labour and material)					12370
**Tools discounted for 5 years					8400
Land Charges per crop cycle					4000
Supervision (15 percent of labour and material)					18555
<b>SUBTOTAL</b>					<b>\$43,325</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>					<b>\$167,025</b>

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

ST. THOMAS

Parish	St. Thomas	
Extension Area	Morant Bay	
Crop	SWEET CASSAVA	
Crop Maturity	12 Months	
Reaping Period	3 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$21</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	10	20000	8	16000
Furrowing	MD	2000	15	30000	15	30000
Maintain Trench	MD	2000	4	8000	4	8000
Prepare Planting Material	MD	2000	2	4000	2	4000
Planting	MD	2000	5	10000	5	10000
Weed Control	MD	2000	10	20000	8	16000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	20	40000	20	40000
<b>Lunch</b>		500	68	34000	64	32000
<b>SUBTOTAL</b>				<b>\$170,000</b>		<b>\$160,000</b>

**Material Inputs**

Planting Material	each	7	7260	50820		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	5500	3	16500	2	11000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	2	3200	2	3200
<b>SUBTOTAL</b>				<b>\$70,520</b>		<b>\$14,200</b>

**Other Costs**

Contingencies (10 percent of labour and material)		24052		17420
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		12000		12000
Supervision (15 percent of labour and material)		36078		26130
<b>SUBTOTAL</b>		<b>\$80,530</b>		<b>\$63,950</b>
<b>TOTAL COST</b>		<b>\$321,050</b>		<b>\$238,150</b>

Projected Marketable Yield	13636	13636
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**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

ST. THOMAS

Parish	St. Thomas	
Extension Area	Morant Bay	
Crop	HORSE PLANTAIN	
Crop Maturity	9 Months	
Reaping Period	2 Months	
Planting Distance (l x w)	cm	240 x 240
	inches	96 x 96
Plant Population	681	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	7,734	
<b>Cost of Production \$/Kg</b>	<b>\$31</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	1500	15000
Dig Holes	MD	7	1500	10500
Prepare Planting Material	MD	10	1500	15000
Planting	MD	6	1500	9000
Pesticide Application	MD	6	1500	9000
Weed Control	MD	8	1500	12000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	5	1500	7500
<b>Lunch</b>		54	500	27000
<b>SUBTOTAL</b>				<b>\$108,000</b>

Material Inputs				
Planting Material	each	681	30	20430
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				20100
<b>Fungicide</b>				4600
<b>SUBTOTAL</b>				<b>\$69,130</b>

Other Costs				
Contingencies (10 percent of labour and material)				17713
**Tools discounted for 5 years				8400
Land Charges per crop cycle				12000
Supervision (15 percent of labour and material)				26570
<b>SUBTOTAL</b>				<b>\$64,683</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$241,813</b>

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

ST. THOMAS

Parish	St. Thomas	
Extension Area	Yallahs	
Crop	CUCUMBER	
Crop Maturity	1.5 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	90 x 90
	inches	36 x 36
Plant Population	4840	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	8,182	
<b>Cost of Production \$/Kg</b>	<b>\$32</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	1500	12000
Ploughing	tractor	3	2000	6000
Harrowing	tractor	3	2000	6000
Lining Irrigation Hose	MD	3	1500	4500
Nursery Operations	MD	5	1500	7500
Transplanting	MD	8	1500	12000
Pesticide Application	MD	9	1500	13500
Weed Control	MD	4	1500	6000
Fertilizer Application	MD	3	1500	4500
Harvesting	MD	8	1500	12000
<b>Lunch</b>		48	500	24000
<b>SUBTOTAL</b>				<b>\$108,000</b>

**Material Inputs**

Planting Material	lbs	7	5200	36400
Water	month	3	4000	12000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				11000
<b>Fungicide</b>				9000
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$95,600</b>

**Other Costs**

Contingencies (10 percent of labour and material)				20360
**Tools discounted for 5 years				8400
Land Charges per crop cycle				2667
Supervision (15 percent of labour and material)				30540
<b>SUBTOTAL</b>				<b>\$61,967</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$265,567</b>

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

ST. THOMAS

Parish	St. Thomas	
Extension Area	Yallahs	
Crop	HOT PEPPER (WI RED)	
Crop Maturity	3 Months	
Reaping Period	9 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	10,455	
<b>Cost of Production \$/Kg</b>	<b>\$72</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	1500	12000
Ploughing	tractor	3	2000	6000
Furrowing	tractor	3	2000	6000
Dig Holes/Plant	MD	10	1500	15000
Pesticide Application	MD	20	1500	30000
Weed Control	MD	12	1500	18000
Fertilizer Application	MD	3	1500	4500
Harvesting	MD	120	1500	180000
<b>Lunch</b>		173	500	86500
<b>SUBTOTAL</b>				<b>\$358,000</b>

**Material Inputs**

Planting Material	each	7260	15	108900
Water	month	12	2500	30000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
Sulphate of Ammonia	bags (50 kg)	2	4200	8400
<b>Insecticide</b>				35000
<b>Fungicide</b>				14200
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$226,900</b>

**Other Costs**

Contingencies (10 percent of labour and material)				58490
**Tools discounted for 5 years				8400
Land Charges per crop cycle				8000
Supervision (15 percent of labour and material)				87735
<b>SUBTOTAL</b>				<b>\$162,625</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$747,525</b>

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

ST. THOMAS

Parish	St. Thomas	
Extension Area	Yallahs	
Crop	OKRA	
Crop Maturity	1.5 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	30 x 90
	inches	12 x 36
Plant Population	14520	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	5,909	
<b>Cost of Production \$/Kg</b>	<b>\$38</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	1500	12000
Ploughing	tractor	3	2000	6000
Harrowing	tractor	3	2000	6000
Planting	MD	8	1500	12000
Pesticide Application	MD	6	1500	9000
Weed Control	MD	10	1500	15000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	24	1500	36000
<b>Lunch</b>		58	500	29000
<b>SUBTOTAL</b>				<b>\$128,000</b>

Material Inputs	Unit	No. of Units	Cost/Unit	Total Cost
Planting Material	lbs	4	1500	6000
Water	month	3	2000	6000
<b>Fertiliser:</b>				
Sulphate of Ammonia	bags (50 kg)	4	4200	16800
<b>Insecticide</b>				9750
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$43,350</b>

Other Costs				
Contingencies (10 percent of labour and material)				17135
**Tools discounted for 5 years				8400
Land Charges per crop cycle				2667
Supervision (15 percent of labour and material)				25703
<b>SUBTOTAL</b>				<b>\$53,904</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$225,254</b>

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

ST. THOMAS

Parish	St. Thomas	
Extension Area	Seaforth	
Crop	SWEET POTATO	(Beauregard)
Crop Maturity	4 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	30 x60
	inches	12 x 24
Plant Population	21780	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	11,818	
<b>Cost of Production \$/Kg</b>	<b>\$43</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	tractor	3	2000	6000
Harrowing	tractor	3	2000	6000
Furrowing	tractor	3	2000	6000
Prepare Planting Material	MD	1	1500	1500
Planting	MD	20	1500	30000
Pesticide Application	MD	6	1500	9000
Weed Control	MD	15	1500	22500
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	22	1500	33000
<b>Lunch</b>		71	500	35500
<b>SUBTOTAL</b>				<b>\$160,000</b>

**Material Inputs**

Planting Material	slips	21780	5	108900
Water	month	4	2500	10000
<b>Fertiliser:</b>				
Soluble	bags	7	7000	49000
Triple Super Phosphate	bags	2	8000	16000
<b>Insecticide</b>				23000
<b>Fungicide</b>				13400
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$226,700</b>

**Other Costs**

Contingencies (10 percent of labour and material)				38670
**Tools discounted for 5 years				8400
Land Charges per crop cycle				12000
Supervision (15 percent of labour and material)				58005
<b>SUBTOTAL</b>				<b>\$117,075</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$503,775</b>

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

ST. THOMAS

Parish	St. Thomas	
Extension Area	Seaforth	
Crop	SCOTCH BONNET PEPPER	
Crop Maturity	3 Months	
Reaping Period	9 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	10,000	
<b>Cost of Production \$/Kg</b>	<b>\$71</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	tractor	3	2000	6000
Harrowing	tractor	3	2000	6000
Furrowing	tractor	3	2000	6000
Planting	MD	8	1500	12000
Pesticide Application	MD	18	1500	27000
Weed Control	MD	30	1500	45000
Fertilizer Application	MD	2	1500	3000
Harvesting	MD	100	1500	150000
<b>Lunch</b>		163	500	81500
<b>SUBTOTAL</b>				<b>\$344,000</b>

Material Inputs				
Planting Material	each	7260	12	87120
Water	month	12	3000	36000
<b>Fertiliser:</b>				
Soluble	bags	9	3700	33300
<b>Insecticide</b>				20000
<b>Fungicide</b>				17500
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$200,320</b>

Other Costs				
Contingencies (10 percent of labour and material)				54432
**Tools discounted for 5 years				8400
Land Charges per crop cycle				24000
Supervision (15 percent of labour and material)				81648
<b>SUBTOTAL</b>				<b>\$168,480</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$712,800</b>

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

Parish	Trelawny	
Extension Area	Jackson Town	
Crop	YELLOW YAM	
Crop Maturity	9 Months	
Reaping Period	3 Months	
Planting Distance (l x w)	cm	150 x 150
	inches	60 x 60
Plant Population	1742	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$61</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	10	20000	6	12000
Make Mounds	CW	2000	18	36000	12	24000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	2	4000	2	4000
Stake and Tie	MD	2000	17	34000	17	34000
Fertilizer Application	MD	2000	1	2000	1	2000
Weed Control	MD	2000	35	70000	28	56000
Harvesting	MD	2000	14	28000	14	28000
<b>Lunch</b>		500	82	41000	71	35500
<b>SUBTOTAL</b>				<b>\$241,000</b>		<b>\$201,500</b>

**Material Inputs**

Planting Material	lbs	50	5800	290000		
Stakes	each	15	1742	26130	1742	26130
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	7	42000	4	24000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	3	4800	2	3200
<b>SUBTOTAL</b>				<b>\$362,930</b>		<b>\$53,330</b>

**Other Costs**

Contingencies (10 percent of labour and material)		60393		25483
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		6000		6000
Supervision (15 percent of labour and material)		90589.5		38224.5
<b>SUBTOTAL</b>		<b>\$165,383</b>		<b>\$78,108</b>
<b>TOTAL COST</b>			<b>\$769,313</b>	<b>\$332,938</b>

Projected Marketable Yield 9091 9091

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	Trelawny	
Extension Area	Jackson Town	
Crop	SWEET POTATO	
Crop Maturity	5 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	90 x 30
	inches	36 x 12
Plant Population	14520	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,818	
<b>Cost of Production \$/Kg</b>	<b>\$39</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Ploughing	MD	6	2500	15000
Furrowing	CW	5	2000	10000
Prepare Planting Material	MD	2	2000	4000
Planting	MD	8	2000	16000
Pesticide Application	MD	5	2000	10000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	20	2000	40000
<b>Lunch</b>		58	500	29000
<b>SUBTOTAL</b>				<b>\$158,000</b>

Material Inputs	Unit	No. of Units	Cost/Unit	Total Cost
Planting Material	slip	14520	1	14520
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
<b>Insecticide</b>				9000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$47,920</b>

Other Costs				
Contingencies (10 percent of labour and material)				20592
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3000
Supervision (15 percent of labour and material)				\$30,888.0
<b>SUBTOTAL</b>				<b>\$62,880</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$268,800</b>

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

Parish	Trelawny	
Extension Area	Albert Town	
Crop	YELLOW YAM	
Crop Maturity	10 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	150 x 150
	inches	60 x 60
Plant Population	1742	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$65</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	12	24000	8	16000
Make Mounds	CW	2000	40	80000	25	50000
Prepare Planting Material	MD	2000	2	4000	2	4000
Planting	MD	2000	2	4000	2	4000
Stake and Tie	MD	2000	12	24000	12	24000
Weed Control	MD	2000	34	68000	34	68000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	12	24000	12	24000
<b>Lunch</b>		500	75	37500	71	35500
<b>SUBTOTAL</b>				<b>\$267,500</b>		<b>\$227,500</b>

#### Material Inputs

Planting Material	lbs	50	5226	261300		
Stakes	each	15	1742	26130	1742	26130
<b>Fertiliser:</b>						
NPK	bags	6000	2	12000	2	12000
<b>SUBTOTAL</b>				<b>\$299,430</b>		<b>\$38,130</b>

#### Other Costs

Contingencies (10 percent of labour and material)		\$56,693.0		26563
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		6000		6000
Supervision (15 percent of labour and material)		85039.5		39844.5
<b>SUBTOTAL</b>		<b>\$156,133</b>		<b>\$80,808</b>
<b>TOTAL COST</b>		<b>\$723,063</b>		<b>\$346,438</b>

Projected Marketable Yield

8182

8182

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish		Trelawny
Extension Area		Albert Town
Crop		LUCEA YAM
Crop Maturity		6 Months
Reaping Period		2.5 Months
Planting Distance (l x w)		
	cm	150 x 150
	inches	60 x 60
Plant Population		1742
Terrain		Hillside Farm
Land Preparation		Manual
Irrigated/Rain fed		Rainfed
Area		0.4 hectare
Man-day Charge (excluding lunch)		\$2,000
<b>Cost of Production \$/Kg</b>		<b>\$57</b>

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	12	24000	8	16000
Make Mounds	CW	2000	20	40000	14	28000
Prepare Planting Material	MD	2000	2	4000	2	4000
Planting	MD	2000	2	4000	2	4000
Stake and Tie	MD	2000	15	30000	15	30000
Weed Control	MD	2000	25	50000	18	36000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	12	24000	12	24000
<b>Lunch</b>		500	69	34500	58	29000
<b>SUBTOTAL</b>				<b>\$212,500</b>		<b>\$173,000</b>

#### Material Inputs

Planting Material	lbs	40	6968	278720		
Stakes	each	40	1742	69680	1742	69680
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	4	24000	3	18000
<b>SUBTOTAL</b>				<b>\$372,400</b>		<b>\$87,680</b>

#### Other Costs

Contingencies (10 percent of labour and material)				58490		26068
**Tools discounted for 5 years				8400		8400
Land Charges per crop cycle				6000		6000
Supervision (15 percent of labour and material)				87735		39102
<b>SUBTOTAL</b>				<b>\$160,625</b>		<b>\$79,570</b>
<b>TOTAL COST</b>				<b>\$745,525</b>		<b>\$340,250</b>

Projected Marketable Yield

9545

9545

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish		Trelawny
Extension Area		Albert Town
Crop		IRISH POTATO
Crop Maturity		3 Months
Reaping Period		1 Month
Planting Distance (l x w)		
	cm	30 x 75
	inches	12 x 30
Plant Population		17424
Terrain		Hillside Farm
Land Preparation		Manual
Irrigated/Rain fed		Rainfed
Area		0.4 hectare
Man-day Charge (excluding lunch)		\$2,000
Projected Marketable Yield (Kg)		8,182
<b>Cost of Production \$/Kg</b>		<b>\$61</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2000	20000
Ploughing	MD	10	2000	20000
Furrowing	MD	8	2000	16000
Moulding	MD	12	2000	24000
Maintain Trench	MD	2	2000	4000
Planting	MD	6	2000	12000
Pesticide Application	MD	16	2000	32000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	24	2000	48000
<b>Lunch</b>		89	500	44500
<b>SUBTOTAL</b>				<b>\$222,500</b>

#### Material Inputs

Planting Material (elite seeds)	bags (25 kg)	16	5400	86400
<b>Fertiliser:</b>				
NPK	bags (50 kg)	8	6000	48000
<b>Insecticide</b>				4800
<b>Fungicide</b>				22000
<b>SUBTOTAL</b>				<b>\$161,200</b>

#### Other Costs

Contingencies (10 percent of labour and material)				38370
**Tools discounted for 5 years				8400
Land Charges per crop cycle				7000
Supervision (15 percent of labour and material)				\$57,555.0
<b>SUBTOTAL</b>				<b>\$111,325</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$495,025</b>

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

Parish		Trelawny
Extension Area		Low River
Crop		IRISH POTATO
Crop Maturity		3 Months
Reaping Period		1 Month
Planting Distance (l x w)		
	cm	30 x 90
	inches	12 x 36
Plant Population		14520
Terrain		Hillside Farm
Land Preparation		Manual
Irrigated/Rain fed		Rainfed
Area		0.4 hectare
Man-day Charge (excluding lunch)		\$2,000
Projected Marketable Yield (Kg)		8,182
<b>Cost of Production \$/Kg</b>		<b>\$63</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	MD	14	2000	28000
Furrowing	MD	8	2000	16000
Moulding	MD	8	2000	16000
Maintain Trench	MD	3	2000	6000
Planting	MD	10	2000	20000
Pesticide Application	MD	15	2000	30000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	28	2000	56000
<b>Lunch</b>		96	500	48000
<b>SUBTOTAL</b>				<b>\$240,000</b>

Material Inputs	Unit	No. of Units	Cost/Unit	Total Cost
Planting Material	bags (25 kg)	16	5400	86400
<b>Fertiliser:</b>				
NPK	bags (50 kg)	8	6000	48000
<b>Insecticide</b>				6000
<b>Fungicide</b>				14000
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$157,600</b>

Other Costs				
Contingencies (10 percent of labour and material)				39760
**Tools discounted for 5 years				8400
Land Charges per crop cycle				7000
Supervision (15 percent of labour and material)				\$59,640.0
<b>SUBTOTAL</b>				<b>\$114,800</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$512,400</b>

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

Parish		Trelawny
Extension Area		Lowe River
Crop		YELLOW YAM
Crop Maturity		10 Months
Reaping Period		2 Months
Planting Distance (l x w)		
	cm	150 x 180
	inches	60 x 72
Plant Population		1452
Terrain		Hillside Farm
Land Preparation		Manual
Irrigated/Rain fed		Rainfed
Area		0.4 hectare
Man-day Charge (excluding lunch)		\$2,000
<b>Cost of Production \$/Kg</b>		<b>\$54</b>

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	10	20000	6	12000
Ploughing	MD	2000	15	30000	10	20000
Make Mounds	CW	2000	30	60000	24	48000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	2	4000	2	4000
Stake and Tie	MD	2000	15	30000	15	30000
Weed Control	MD	2000	20	40000	16	32000
Fertilizer Application	MD	2000	1	2000	1	2000
Harvesting	MD	2000	25	50000	25	50000
<b>Lunch</b>		500	91	45500	78	39000
<b>SUBTOTAL</b>				<b>\$287,500</b>		<b>\$243,000</b>

#### Material Inputs

Planting Material	lbs	40	4400	176000		
Stakes	each	15	1452	21780	1452	21780
<b>Fertiliser:</b>						
Sulphate of Ammonia	bags (50 kg)	4000	3	12000		
NPK	bags (50 kg)	6000	4	24000	3	18000
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	3	4800	2	3200
<b>SUBTOTAL</b>				<b>\$233,780</b>		<b>\$39,780</b>

#### Other Costs

Contingencies (10 percent of labour and material)		\$52,128.0		28278
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		7000		7000
Supervision (15 percent of labour and material)		78192		42417
<b>SUBTOTAL</b>		<b>\$145,720</b>		<b>\$86,095</b>
<b>TOTAL COST</b>		<b>\$667,000</b>		<b>\$368,875</b>

Projected Marketable Yield

9545

9545

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

Parish	Trelawny	
Extension Area	Falmouth	
Crop	SCOTCH BONNET PEPPER	
Crop Maturity	3 Months	
Reaping Period	6 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Irrigated	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	12,727	
<b>Cost of Production \$/Kg</b>	<b>\$81</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	5	2500	12500
Harrowing	tractor	3	2500	7500
Furrowing	tractor	2	2500	5000
Lining Irrigation Hose	MD	2	2000	4000
Mulching	MD	8	2000	16000
Planting	MD	6	2000	12000
Pesticide Application	MD	32	2000	64000
Weed Control	MD	10	2000	20000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	80	2000	160000
<b>Lunch</b>		144	500	72000
<b>SUBTOTAL</b>				<b>\$385,000</b>

Material Inputs	Unit	No. of Units	Cost/Unit	Total Cost
Planting Material	each	7260	15	108900
Mulch	rolls	2	40000	80000
Water	month	9	1500	13500
<b>Fertiliser:</b>				
Potassium Nitrate	bags	8	6500	52000
Mono Potassium Phosphate	bags	6	7500	45000
Magnesium Sulphate	bags	4	2000	8000
Sulphate of Ammonia	bags	3	4000	12000
<b>Insecticide</b>				69000
<b>Fungicide</b>				29000
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$422,200</b>

Other Costs				
Contingencies (10 percent of labour and material)				80720
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				\$121,080.0
<b>SUBTOTAL</b>				<b>\$220,200</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$1,027,400</b>

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

Parish		Trelawny
Extension Area		Falmouth (BRACO)
Crop		ONION
Crop Maturity		4 Months
Reaping Period		1 Month
Planting Distance (l x w)		
	cm	5 x 15
	inches	2 x 6
Plant Population		≈ 260000
Terrain		Relatively Flat Land Farm
Land Preparation		Mechanical
Irrigated/Rain fed		Irrigated
Area		0.4 hectare
Man-day Charge (excluding lunch)		\$2,000
Projected Marketable Yield (Kg)		9,091
<b>Cost of Production \$/Kg</b>		<b>\$55</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	2000	10000
Ploughing	tractor	5	2500	12500
Harrowing	tractor	3	2500	7500
Rotavating	tractor	2	2500	5000
Bed Shaping	tractor	2	2500	5000
Lining Irrigation Hose	MD	2	2000	4000
Planting	MD	1	2000	2000
Pestticide Application	MD	14	2000	28000
Weed Control	MD	16	2000	32000
Fertilizer Application	MD	3	2000	6000
Harvesting	MD	30	2000	60000
<b>Lunch</b>		71	500	35500
<b>SUBTOTAL</b>				<b>\$207,500</b>

Material Inputs	Unit	No. of Units	Cost/Unit	Total Cost
Planting Material	lbs	4	15000	60000
Water	month	4	1500	6000
<b>Fertiliser:</b>				
Mono Ammonium Phosphate	bags	2	6500	13000
Sulphate of Ammonia	bags	3	4000	12000
Magnesium Sulphate	bags	2	2000	4000
Potassium Nitrate	bags	4	6500	26000
<b>Insecticide</b>				31500
<b>Fungicide</b>				21800
<b>Herbicide:</b>				
Broad Spectrum	litre	3	1600	4800
<b>SUBTOTAL</b>				<b>\$179,100</b>

Other Costs				
Contingencies (10 percent of labour and material)				38660
**Tools discounted for 5 years				8400
Land Charges per crop cycle				7500
Supervision (15 percent of labour and material)				\$57,990.0
<b>SUBTOTAL</b>				<b>\$112,550</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$499,150</b>

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

Parish		Trelawny
Extension Area		Wakefield
Crop		HOT PEPPER (WI RED)
Crop Maturity		3 Months
Reaping Period		9 Months
Planting Distance (l x w)		
	cm	60 x 120
	inches	24 x 48
Plant Population		5445
Terrain		Relatively Flat Land Farm
Land Preparation		Mechanical
Irrigated/Rain fed		Irrigated
Area		0.4 hectare
Man-day Charge (excluding lunch)		\$1,500
Projected Marketable Yield (Kg)		9,091
<b>Cost of Production \$/Kg</b>		<b>\$75</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	5	1500	7500
Ploughing	tractor	5	2500	12500
Harrowing	tractor	3	2500	7500
Lining Irrigation Hose	MD	3	1500	4500
Dig Holes/Plant	MD	15	1500	22500
Pesticide Application	MD	16	1500	24000
Weed Control	MD	6	1500	9000
Fertilizer Application	CW	15	2000	30000
Harvesting	MD	72	1500	108000
<b>Lunch</b>		117	500	58500
<b>SUBTOTAL</b>				<b>\$284,000</b>

Material Inputs	Unit	No. of Units	Cost/Unit	Total Cost
Planting Material	each	5445	15	81675
Water	month	12	2000	24000
<b>Fertilizer:</b>				
NPK	bags	8	6000	48000
Sulphate of Ammonia	bags	5	4000	20000
Potassium Nitrate	bags	3	6500	19500
<b>Insecticide</b>				37000
<b>Fungicide</b>				9200
<b>Herbicide:</b>				
Broad Spectrum	litres	6	1600	9600
<b>SUBTOTAL</b>				<b>\$248,975</b>

Other Costs				
Contingencies (10 percent of labour and material)				53297.5
**Tools discounted for 5 years				8400
Land Charges per crop cycle				10000
Supervision (15 percent of labour and material)				\$79,946.3
<b>SUBTOTAL</b>				<b>\$151,644</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$684,619</b>

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

Parish	Trelawny	
Extension Area	Wakefield	
Crop	PINEAPPLE MD2	
Crop Maturity	12 Months	
Reaping Period	Indefinite	
Planting Distance (l x w)	cm	45 x 45
	inches	18 x 18
Plant Population	19360	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$1,500	
Projected Marketable Yield (Kg)	27,273	
<b>Cost of Production \$/Kg</b>	<b>\$47</b>	

Labour Operations	Unit	Cost/Unit	Year 1	Year 2	Year 3
Land Cleaning	MD	1500	15000		
Ploughing	tractor	2500	10000		
Harrowing	tractor	2500	5000		
Furrowing	tractor	2500	5000		
Levelling	MD	1500	15000		
Prepare Planting Material	MD	1500	18000		
Planting	MD	1500	27000		
Pesticide Application	MD	1500	4500		
Weed Control	MD	1500	36000	27000	22500
Fertilizer Application	MD	1500	3000	3000	3000
Harvesting	MD	1500	0	24000	37500
<b>Lunch</b>		300	23700	10800	12600
<b>SUBTOTAL</b>			<b>\$162,200</b>	<b>\$64,800</b>	<b>\$75,600</b>

#### Material Inputs

Planting Material	each	80	484000		
<b>Fertiliser:</b>					
NPK	bags	5000	30000	20000	15000
Potash	bags	6200	24800	18600	12400
<b>Fungicide</b>			20000		
<b>Herbicide:</b>					
Selective	litre	2250	22500	13500	9000
<b>SUBTOTAL</b>			<b>\$581,300</b>	<b>\$52,100</b>	<b>\$36,400</b>

#### Other Costs

Contingencies (10 percent of labour and material)	74350	11690	11200
**Tools discounted for 5 years	7000	7000	7000
Land Charges per crop cycle	15000	15000	15000
Supervision (15 percent of labour and material)	111525	17535	16800
<b>SUBTOTAL</b>	<b>\$207,875</b>	<b>\$51,225</b>	<b>\$50,000</b>
<b>TOTAL</b>	<b>\$951,375</b>	<b>\$168,125</b>	<b>\$162,000</b>

**Note:** This Model shows a three year cycle since the crop's reaping is indefinite. After purchasing the planting material in Year 1, no planting material has to be purchased in subsequent years due to each plant producing multiple suckers to start new crop cycle.

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

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Parish	Westmoreland	
Extension Area	Darliston	
Crop	IRISH POTATO	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	30 x 75
	inches	12 x 30
Plant Population	17424	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	8,182	
<b>Cost of Production \$/Kg</b>	<b>\$57</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Ploughing	MD	14	2000	28000
Furrowing	MD	10	2000	20000
Moulding	MD	10	2000	20000
Planting	MD	10	2000	20000
Pestticide Application	MD	16	2000	32000
Fertilizer Application	MD	4	2000	8000
Harvesting	MD	16	2000	32000
<b>Lunch</b>		86	500	43000
<b>SUBTOTAL</b>				<b>\$215,000</b>

**Material Inputs**

Planting Material (elite seeds)	bags (25 kg)	16	5400	86400
<b>Fertiliser:</b>				
NPK	bags (50 kg)	6	6000	36000
<b>Insecticide</b>				6000
<b>Fungicide</b>				12000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$146,800</b>

**Other Costs**

Contingencies (10 percent of labour and material)				36180
**Tools discounted for 5 years				8400
Land Charges per crop cycle				1667
Supervision (15 percent of labour and material)				\$54,270.0
<b>SUBTOTAL</b>				<b>\$100,517</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$462,317</b>

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

WESTMORELAND

Parish	Westmoreland	
Extension Area	Darliston	
Crop	CABBAGE	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 30
	inches	24 x 12
Plant Population	21780	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	22,273	
<b>Cost of Production \$/Kg</b>	<b>\$17</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Dig Holes	MD	12	2000	24000
Nursery Operations	MD	4	2000	8000
Transplanting	MD	12	2000	24000
Pesticide Application	MD	16	2000	32000
Weed Control	MD	18	2000	36000
Fertilizer Application	MD	6	2000	12000
Harvesting	MD	12	2000	24000
<b>Lunch</b>		86	500	43000
<b>SUBTOTAL</b>				<b>\$215,000</b>

Material Inputs				
Planting Material	packs (10000 seeds)	2.2	7000	15400
<b>Fertiliser:</b>				
NPK	bags (50 kg)	6	6000	36000
<b>Insecticide</b>				18000
<b>Fungicide</b>				12000
<b>SUBTOTAL</b>				<b>\$81,400</b>

Other Costs				
Contingencies (10 percent of labour and material)				29640
**Tools discounted for 5 years				8400
Land Charges per crop cycle				1667
Supervision (15 percent of labour and material)				44460
<b>SUBTOTAL</b>				<b>\$84,167</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$380,567</b>

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

WESTMORELAND

Parish	Westmoreland	
Extension Area	Leamington	
Crop	SWEET POTATO	
Crop Maturity	4 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,364	
<b>Cost of Production \$/Kg</b>	<b>\$43</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	8	2000	16000
Ploughing	MD	12	2000	24000
Make Mounds	MD	8	2000	16000
Prepare Planting Material	MD	3	2000	6000
Planting	MD	6	2000	12000
Pesticide Application	MD	4	2000	8000
Weed Control	MD	5	2000	10000
Fertilizer Application	MD	4	2000	8000
Harvesting	MD	15	2000	30000
<b>Lunch</b>		65	500	32500
<b>SUBTOTAL</b>				<b>\$162,500</b>

**Material Inputs**

Planting Material	slip	10890	1	10890
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				4600
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$45,890</b>

**Other Costs**

Contingencies (10 percent of labour and material)				20839
**Tools discounted for 5 years				8400
Land Charges per crop cycle				7500
Supervision (15 percent of labour and material)				31259
<b>SUBTOTAL</b>				<b>\$67,998</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$276,388</b>

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

WESTMORELAND

Parish	Westmoreland	
Extension Area	Leamington	
Crop	PUMPKIN (NATIVE)	
Crop Maturity	3 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	240 x 300
	inches	96 x 120
Plant Population	545	
Terrain	Relatively Flat Land Farm	
Land Preparation	Mechanical	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	7,273	
<b>Cost of Production \$/Kg</b>	<b>\$27</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	10	2000	20000
Dig Holes	MD	6	2000	12000
Maintain Trench	MD	4	2000	8000
Planting	MD	2	2000	4000
Pesticide Application	MD	4	2000	8000
Weed Control	MD	2	2000	4000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	16	2000	32000
<b>Lunch</b>		46	500	23000
<b>SUBTOTAL</b>				<b>\$115,000</b>

Material Inputs				
Planting Material	lb	1	1200	1200
<b>Fertiliser:</b>				
NPK	bags (50 kg)	3	6000	18000
<b>Insecticide</b>				6000
<b>Fungicide</b>				3000
<b>Herbicide:</b>				
Broad Spectrum	litre	2	1600	3200
<b>SUBTOTAL</b>				<b>\$31,400</b>

Other Costs				
Contingencies (10 percent of labour and material)				14640
**Tools discounted for 5 years				8400
Land Charges per crop cycle				7500
Supervision (15 percent of labour and material)				21960
<b>SUBTOTAL</b>				<b>\$ 52,500</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$198,900</b>

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

WESTMORELAND

Parish	Westmoreland	
Extension Area	Leamington	
Crop	Pineapple (Sugar Loaf)	
Crop Maturity	12 Months	
Reaping Period	Indefinite	
Planting Distance (l x w)		
	cm	150 x 60
	inches	60 x 24
Plant Population	4356	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	13,636	
<b>Cost of Production \$/Kg</b>	<b>\$45</b>	

Labour Operations	Unit	Cost/Unit	Year 1	Year 2	Year 3
Land Cleaning	MD	2000	16000		
Ploughing	MD	2000	22000		
Prepare Planting Material	MD	2000	6000		
Planting	MD	2000	20000		
Weed Control	MD	2000	24000	16000	16000
Fertilizer Application	MD	2000	4000	4000	4000
Harvesting	MD	2000	0	16000	16000
<b>Lunch</b>		300	13800	5400	5400
<b>SUBTOTAL</b>			<b>\$ 105,800.00</b>	<b>\$ 41,400.00</b>	<b>\$ 41,400.00</b>

**Material Inputs**

Planting Material	each	50	217800		
<b>Fertiliser:</b>					
NPK	bags (50 kg)	5000	5000	5000	2500
Urea	bags (50 kg)	6500	6500	3250	3250
<b>Herbicide:</b>			3600	3600	3600
Pre-emergence	litre	1650	3300		
Broad Spectrum	litre	1600	4800		
<b>SUBTOTAL</b>			<b>\$ 232,900.00</b>	<b>\$ 11,850.00</b>	<b>\$ 9,350.00</b>

**Other Costs**

Contingencies (10 percent of labour and material)	33870	5325	5075
**Tools discounted for 5 years	7000	7000	7000
Land Charges per crop cycle	15000	15000	15000
Supervision (15 percent of labour and material)	50805	7987.5	7612.5
<b>SUBTOTAL</b>	<b>\$ 106,675.00</b>	<b>\$35,312.50</b>	<b>\$ 34,687.50</b>
<b>TOTAL</b>	<b>\$ 445,375.00</b>	<b>\$ 88,562.50</b>	<b>\$ 85,437.50</b>

**Note:** This Model shows a three year cycle since the crop's reaping is indefinite. After purchasing the planting material in Year 1, no planting material has to be purchased in subsequent years due to each plant producing multiple suckers to start new crop cycle.

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

WESTMORELAND

Parish	Westmoreland	
Extension Area	New Works	
Crop	CABBAGE	
Crop Maturity	3 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 30
	inches	24 x 12
Plant Population	21780	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	22,727	
<b>Cost of Production \$/Kg</b>	<b>\$21</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Ploughing	MD	20	2000	40000
Dig Holes	MD	10	2000	20000
Maintain Trench	MD	5	2000	10000
Nursery Operations	MD	5	2000	10000
Transplanting	MD	14	2000	28000
Pesticide Application	MD	16	2000	32000
Weed Control	MD	24	2000	48000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	12	2000	24000
<b>Lunch</b>		114	500	57000
<b>SUBTOTAL</b>				<b>\$285,000</b>

**Material Inputs**

Planting Material	packs (10000 seeds)	2.2	10000	22000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	5	6000	30000
<b>Insecticide</b>				24000
<b>Fungicide</b>				9000
<b>Herbicide:</b>				
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$91,400</b>

**Other Costs**

Contingencies (10 percent of labour and material)				37640
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				56460
<b>SUBTOTAL</b>				<b>\$105,833</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$482,233</b>

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

WESTMORELAND

Parish	Westmoreland
Extension Area	New Works
Crop	CARROT
Crop Maturity	3 Months
Reaping Period	1 Month
Planting Distance (l x w)	Broadcast
Plant Population	≈ 116000
Terrain	Hillside Farm
Land Preparation	Manual
Irrigated/Rain fed	Rainfed
Area	0.4 hectare
Man-day Charge (excluding lunch)	\$2,000
Projected Marketable Yield (Kg)	8,182
<b>Cost of Production \$/Kg</b>	<b>\$35</b>

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Ploughing	MD	20	2000	40000
Maintain Trench	MD	5	2000	10000
Planting	MD	2	2000	4000
Pesticide Application	MD	3	2000	6000
Weed Control	MD	4	2000	8000
Fertilizer Application	MD	1	2000	2000
Harvesting	MD	10	2000	20000
<b>Lunch</b>		51	500	25500
<b>SUBTOTAL</b>				<b>\$127,500</b>

Material Inputs				
Planting Material	packs	10	4500	45000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	4	6000	24000
<b>Insecticide</b>				2300
<b>Herbicide:</b>				
Selective	litre	1.5	9200	13800
Broad Spectrum	litre	4	1600	6400
<b>SUBTOTAL</b>				<b>\$91,500</b>

Other Costs				
Contingencies (10 percent of labour and material)				21900
**Tools discounted for 5 years				8400
Land Charges per crop cycle				3333
Supervision (15 percent of labour and material)				32850
<b>SUBTOTAL</b>				<b>\$66,483</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>				<b>\$285,483</b>

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

WESTMORELAND

Parish	Westmoreland	
Extension Area	New Works	
Crop	TOMATO (PLUMMY)	
Crop Maturity	3 Months	
Reaping Period	1.5 Months	
Planting Distance (l x w)		
	cm	60 x 90
	inches	24 x 36
Plant Population	7260	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
Projected Marketable Yield (Kg)	6,818	
<b>Cost of Production \$/Kg</b>	<b>\$51</b>	

Labour Operations	Unit	No. of Units	Cost/Unit	Total Cost
Land Cleaning	MD	6	2000	12000
Dig Holes	MD	10	2000	20000
Nursery Operations	MD	5	2000	10000
Transplanting	MD	7	2000	14000
Pesticide Application	MD	10	2000	20000
Weed Control	MD	8	2000	16000
Fertilizer Application	MD	2	2000	4000
Harvesting	MD	20	2000	40000
<b>Lunch</b>		68	500	34000
<b>SUBTOTAL</b>				<b>\$170,000</b>

Material Inputs				
Planting Material	tins	3	3000	9000
<b>Fertiliser:</b>				
NPK	bags (50 kg)	5	6000	30000
Sulphate of Ammonia	bags (50 kg)	3	4500	13500
<b>Insecticide</b>				13800
<b>Fungicide</b>				24000
<b>Herbicide:</b>				
Broad Spectrum	litre	6	1600	9600
<b>SUBTOTAL</b>				<b>\$99,900</b>

Other Costs			
Contingencies (10 percent of labour and material)			26990
**Tools discounted for 5 years			8400
Land Charges per crop cycle			3333
Supervision (15 percent of labour and material)			40485
<b>SUBTOTAL</b>			<b>\$79,208</b>
<b>TOTAL OPERATING EXPENDITURE PER CROP CYCLE</b>			<b>\$349,108</b>

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

WESTMORELAND

Parish	Westmoreland	
Extension Area	Little London	
Crop	DASHEEN	
Crop Maturity	7 Months	
Reaping Period	1 Month	
Planting Distance (l x w)		
	cm	60 x 60
	inches	24 x 24
Plant Population	10890	
Terrain	Relatively Flat Land Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$28</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	6	12000	4	8000
Dig Holes	MD	2000	12	24000	8	16000
Maintain Trench	MD	2000	4	8000	3	6000
Prepare Planting Material	MD	2000	4	8000	4	8000
Planting	MD	2000	10	20000	10	20000
Pesticide Application	MD	2000	8	16000	6	12000
Weed Control	MD	2000	4	8000	4	8000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	10	20000	10	20000
<b>Lunch</b>		500	60	30000	51	25500
<b>SUBTOTAL</b>				<b>\$150,000</b>		<b>\$127,500</b>

**Material Inputs**

Planting Material	each	7	10890	76230		
<b>Fertiliser:</b>						
NPK	bags (50 kg)	6000	4	24000	3	18000
<b>Insecticide</b>				6600		4400
<b>Herbicide:</b>						
Broad Spectrum	litre	1600	3	4800	2	3200
<b>SUBTOTAL</b>				<b>\$111,630</b>		<b>\$25,600</b>

**Other Costs**

Contingencies (10 percent of labour and material)		26163		15310
**Tools discounted for 5 years		8400		8400
Land Charges per crop cycle		10000		10000
Supervision (15 percent of labour and material)		39244.5		22965
<b>SUBTOTAL</b>		<b>\$83,808</b>		<b>\$56,675</b>
<b>TOTAL COST</b>		<b>\$345,438</b>		<b>\$209,775</b>

Projected Marketable Yield

10000

10000

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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

WESTMORELAND

Parish	Westmoreland	
Extension Area	Williamsfield	
Crop	YELLOW YAM	
Crop Maturity	10 Months	
Reaping Period	2 Months	
Planting Distance (l x w)		
	cm	150 x 180
	inches	60 x 72
Plant Population	1452	
Terrain	Hillside Farm	
Land Preparation	Manual	
Irrigated/Rain fed	Rainfed	
Area	0.4 hectare	
Man-day Charge (excluding lunch)	\$2,000	
<b>Cost of Production \$/Kg</b>	<b>\$65</b>	

Labour Operations	Unit	Cost/Unit	Year 1		Year 2	
			# of Units	Cost	# of Units	Cost
Land Cleaning	MD	2000	8	16000	5	10000
Make Mounds	MD	2000	30	60000	21	42000
Maintain Trench	MD	2000	2	4000	2	4000
Prepare Planting Material	MD	2000	3	6000	3	6000
Planting	MD	2000	4	8000	4	8000
Stake and Tie	MD	2000	10	20000	10	20000
Weed Control	MD	2000	8	16000	6	12000
Fertilizer Application	MD	2000	2	4000	2	4000
Harvesting	MD	2000	30	60000	30	60000
<b>Lunch</b>		500	97	48500	83	41500
<b>SUBTOTAL</b>				<b>\$242,500</b>		<b>\$207,500</b>

**Material Inputs**

Planting Material	lbs	50	4400	220000		
Stakes	each	40	1452	58080	1452	58080
<b>Fertiliser:</b>						
NPK	bags	6000	5	30000	3	18000
<b>SUBTOTAL</b>				<b>\$308,080</b>		<b>\$76,080</b>

**Other Costs**

Contingencies (10 percent of labour and material)				55058		28358
**Tools discounted for 5 years				8400		8400
Land Charges per crop cycle				6000		6000
Supervision (15 percent of labour and material)				82587		42537
<b>SUBTOTAL</b>				<b>\$152,045</b>		<b>\$85,295</b>
<b>TOTAL COST</b>				<b>\$702,625</b>		<b>\$368,875</b>

Projected Marketable Yield

8182

8182

**Note:** This Model shows two crop cycles, i.e. Year 1 showing what it would cost a new entrant farmer and Year 2 showing what it would cost a returning farmer. Planting material has to be purchased in the first year but not in the subsequent year.

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