

HANOVER

Lucea
Green Island
Cascade

ESTIMATED COST OF PRODUCTION FOR PLANTAIN

Parish:	Hanover
Extension Area	Lucea
Crop Maturity:	9 - 11 months
Land Preparation	Manual
Planting Distance:	240cm x 210cm (8' x 7')
Plant Density @ 0.4 hectares	778
Irrigated/Rainfed	Rainfed
Area:	0.4 hectare
Man-Day (MD) Charge:	\$1,500
Projected Marketable Yield (kg):	4,508
Cost of Production \$/kg/yr :	\$46

ITEMS	Unit	Cost/unit (\$)	Year 1	Year 2	Year 3	Total Cost (\$)
Labour Operations:						
Land Preparation (Ploughing, Harrowing etc.)	Contracted MD	25000.00	25000.00	0	0	25000.00
*Lining and digging trenches	metre	150.00	60000.00	0	0	60000.00
Maintaining trenches	MD	1500.00	0	12000.00	12000.00	24000.00
Cleaning and treating suckers	MD	1500.00	6000.00	0	0	6000.00
Digging holes	each	30.00	23340.00	0	0	23340.00
Apply mocop	MD	1500.00	3000.00	1500	1500	6000.00
* Planting	each	30.00	23340.00	0	0	23340.00
Fertilising	MD	1500.00	6000.00	6000.00	6000.00	18000.00
Trashing & Pruning	MD	1500.00	18000.00	18000.00	18000.00	54000.00
Apply fungicide	MD	1500.00	7500.00	7500.00	7500.00	22500.00
Weeding (chemical)	MD	1500.00	12000.00	12000.00	12000.00	36000.00
Weeding (manual)	MD	1500.00	18000.00	18000.00	18000.00	54000.00
Harvesting	MD	1500.00	10500.00	10500.00	10500.00	31500.00
Food	lunch	200.00	10800.00	11400.00	11400.00	33600.00
Sub-total			129340.00	85500.00	85500.00	300340.00
Materials:						
*Purchase suckers (Horse Plantain)	each	60.00	48000.00	0	0	48000.00
Fertiliser			48600.00	48600.00	48600.00	115800.00
<u>Nematicide:</u>	bag	4100.00	8200.00	4100.00	8200.00	20500.00
<u>Fungicide:-</u>			5050.00	5050.00	5050.00	15150.00
<u>Herbicide</u>	litre	1050.00	4000.00	3150.00	3150	10300.00
Sub-total			65850.00	60900.00	65000.00	161750.00
Other Costs:						
Transportation (10% of material)			6585.00	6090.00	6500.00	16175.00
Contingencies (10% of Material and Labour)			19519.00	14640.00	15050.00	49209.00
**Tools (discounted for crop cycles in 5 years)			3750.000	0.00	0.00	3750.00
Land Charges per crop cycle @ 0.4 hectare			5000.00	5000.00	5000.00	15000.00
Supervision (15% of Labour and Material)			29278.50	21960.00	22575.00	73813.50
Sub-total			60382.50	47690.00	49125.00	154197.50
Total Operating Expenditure Per Crop Cycle			255572.50	194090.00	199625.00	616287.50

Notes

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** Discounted Items: These are to be aggregated when calculating establishment cost at start-up

Number of Units Per Year

ITEMS	Unit	Year 1	Year 2	Year 3
Labour Oper.				
Land prep:	hectare	1	0	0
Lining and digging trenches	metre	400	0	0
Maintaining trenches	man-day	0	8	8
Cleaning and treating suckers	man-day	4	0	0
Digging holes	each	778	0	0
Apply mocop	man-day	2	1	1
Planting	each	778	0	0
Fertilizing	man-day	4	4	4
Trashing & pruning	man-day	12	12	12
Apply fungicide	man-day	5	5	5
Weeding (chemical)	man-day	8	8	8
Weeding (manual)	man-day	12	12	12
Harvesting	man-day	7	7	7
Food	each	54	57	57
Materials:				
Purchase suckers	each	800	0	0
Fertilizer				
<u>Nematicide</u>	bag	2	1	1
<u>Fungicide:-</u>				
<u>Herbicide</u>	litre	5	3	3

ESTIMATED COST OF PRODUCTION FOR SCOTCH BONNET PEPPER

Parish:	Hanover
Extension Area	Lucea
Crop Maturity:	4 Months + 8 Months Reaping
Land Preparation	Manual
Planting Distance:	120cm x 120cm (4' x 4')
Plant Density @ 0.4 hectares	2,723
Irrigated/Rainfed	Rainfed
Area:	0.4 hectare
Man-Day (MD) Charge:	\$1,500
Projected Marketable Yield (kg)	7,773
Cost of Production \$/kg :	\$41

ITEMS	Unit	No. of Units	Cost/unit (\$)	Total Cost (\$)
Labour Operations:				
Land clearing (chemical)	MD	3	1500.00	4500.00
Land Preparation (ploughing, harrowing, furrowing)	MD	10	1500.00	15000.00
Dig holes & apply manure	MD	7	1500.00	10500.00
Planting	MD	14	1500.00	21000.00
Herbicide application	MD	5	1500.00	7500.00
Circle weeding	MD	6	1500.00	9000.00
Fertilising	MD	2	1500.00	3000.00
Pest Management	MD	12	1500.00	18000.00
Harvesting	MD	15	1500.00	22500.00
Food	lunch	74	200.00	14800.00
Subtotal				125800.00
Material Inputs:				
Planting Material	seedling	2,723	10.00	27225.00
<u>Fertiliser:</u>				52,000.00
<u>Insecticide:</u>				18,580.00
<u>Fungicide:</u>				13,900.00
<u>Herbicide</u>	5 litre	1.5	4,000.00	6,000.00
Subtotal				117705.00
Other Costs:				
Transportation	10% of Material			11770.50
Contingencies	10% of Labour & Material			24350.50
**Tools (discounted for crop cycles in 5 years)	(Fork, Sprayer, Hoe, Hose etc)			5000.00
Land Charges per crop cycle	0.4 hectares			5000.00
Supervision	15% of Labour & Material			36525.75
Subtotal				77646.75
Total Operating Expenditure Per Crop Cycle				321151.75

Notes

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ESTIMATED COST OF PRODUCTION FOR YAM (NEGRO)

Parish:	Hanover
Extension Area	Lucea
Crop Maturity:	7 -8 Months
Land Preparation	Manual
Planting Distance:	180cm x 180cm (6' x 6')
Plant Density @ 0.4 hectares	1,210
Irrigated/Rainfed	Rainfed
Area:	0.4 hectare
Man-Day (MD) Charge:	\$1,500
Projected Marketable Yield (kg)	4,750
Cost of Production \$/kg:	\$52

ITEMS	Unit	No. of Units	Cost/unit (\$)	Total Cost (\$)
Labour Operations:				
Land cleaning	MD	2	1500.00	3000.00
Ploughing	MD	6	1500.00	9000.00
Cleaning & treating heads	MD	2	1500.00	3000.00
*Lining and digging trenches	metre	200	50.00	10000.00
Maintain Trenches	metre	200	50.00	10000.00
Making mounds	each	1,210	20.00	24200.00
Fertilising	MD	2	1500.00	3000.00
Opening mounds and planting	MD	5	1500.00	7500.00
Weeding	MD	6	1500.00	9000.00
Staking and tying	MD	20	1500.00	30000.00
Twining and tending	MD	7	1500.00	10500.00
Harvesting	MD	17	1500.00	25500.00
Food	lunch	67	200.00	13400.00
Subtotal				148100.00
Material Inputs:				
*Heads	kg	950	50.00	47500.00
**Stakes (discounted for 3 years)	each	1210	20.00	24200.00
<u>Fertiliser:</u>				12000.00
<u>Herbicide</u>				1200.00
Subtotal				37400.00
Other Costs:				
Transportation	10% of Material			3740.00
Contingencies	10% of Labour & Material			18550.00
**Tools (discounted for crop cycles in 5 years)	(Fork, Sprayer, Hoe, Hose etc)			5000.00
Land Charges per crop cycle	0.4 hectare			5000.00
Supervision	15% of Labour & Material			27825.00
Subtotal				60115.00
Total Operating Expenditure Per Crop Cycle				245615.00

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ESTIMATED COST OF PRODUCTION FOR SCOTCH BONNET PEPPER

Parish:	Hanover
Extension Area	Green Island
Crop Maturity:	5 Months + 7 Months reaping
Land Preparation	Manual
Planting Distance:	150cm x 90cm (5' x 3')
Plant Density @ 0.4 hectares	2,904
Irrigated/Rainfed	Rainfed
Area:	0.4 hectare
Man-Day (MD) Charge:	\$1,500
Projected Marketable Yield (kg)	6,345
Cost of Production \$/kg:	\$58

ITEMS	Unit	No. of Units	Cost/unit (\$)	Total Cost (\$)
Labour Operations:				
Land cleaning and Ploughing	MD	10	1500.00	15000.00
Lining & digging holes	MD	10	1500.00	15000.00
Nursery Operation	MD	5	1500.00	7500.00
Transplanting	MD	5	1500.00	7500.00
Apply Herbicide	MD	7	1500.00	10500.00
Weed & mould	MD	15	1500.00	22500.00
Fertilising	MD	5	1500.00	7500.00
Pesticide Application	MD	5	1500.00	7500.00
Harvesting	MD	14	1500.00	21000.00
Food	lunch	76	500.00	38000.00
Subtotal				152000.00
Material Inputs:				
Planting Material	Seedlings	2,904	10.00	29040.00
<u>Fertilizer:</u>				80000.00
<u>Insecticide:</u>				14000.00
<u>Fungicide:</u>				3500.00
<u>Herbicide:</u>				0.00
Subtotal				126540.00
Other Costs:				
Transportation	10% of Material			12654.00
Contingencies	10% of Labour & Material			27854.00
**Tools (discounted for crop cycles in 5 years)	(Fork, Sprayer, Hoe, Hose etc)			5000.00
Land Charges per crop cycle	0.4 hectare			0.00
Supervision	15% of Labour & Material			41781.00
Subtotal				87289.00
Total Operating Expenditure Per Crop Cycle				365829.00

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ESTIMATED COST OF PRODUCTION FOR PLANTAIN

Parish:	Hanover		
Extension Area	Green Island		
Crop Maturity:	9 - 11 months		
Land Preparation	Manual		
Planting Distance:	300cm x 300cm	(10' x 10')	
Plant Density @ 0.4 hectares	436		
Irrigated/Rainfed	Rainfed		
Area:	0.4 hectare		
Man-Day (MD) Charge:	\$1,500		
Projected Marketable Yield (kg)	4,138		
Cost of Production \$/kg/yr :	\$54		

ITEMS	Unit	Cost/unit (\$)	Year 1	Year 2	Year 3	Total Cost (\$)
Labour Operations:						
Land prep - (using chemical)	MD	1500.00	12000.00	0	0	12000.00
Land cleaning	MD	1500.00	4500.00			4500.00
Lining & pegging	MD	1500.00	3000.00	0	0	3000.00
Digging holes	MD	1500.00	6000.00	0		6000.00
*Lining and digging trenches	MD	1500.00	7500.00	0	0	7500.00
Maintaining trenches	MD	1500.00	4500.00	22500.00	22500.00	49500.00
Head & drop plants	MD	1500.00	3000.00	13500.00	13500.00	30000.00
*Planting suckers	MD	1500.00	15000.00			15000.00
Fertilizing	MD	1500.00	6000.00	6000.00	6000.00	18000.00
Spraying	MD	1500.00	3000.00	3000.00	3000.00	9000.00
Weeding	MD	1500.00	27400.00	15000.00	15000.00	57400.00
Herbicide application	MD	1500.00	6000.00	6000.00	6000.00	18000.00
Pruning	MD	1500.00	10500.00	10500.00	10500.00	31500.00
Harvesting	MD	1500.00	10500.00	10500.00	10500.00	31500.00
Food	lunch	500.00	30500.00	29000.00	29000.00	88500.00
Sub-total			126900.00	116000.00	116000.00	358900.00
Materials:						
*Suckers (Horse Plantain) per 100	each	60.00	26136.00	0	0	26136.00
Fertiliser			38200.00	38200.00	38200.00	114600.00
Nematicide	bag	3750.00	7500.00	3750.00	7500.00	18750.00
Herbicide			6300.00	5250.00	5250.00	16800.00
Fungicide			2200.00	2200.00	2200.00	6600.00
Sub-total			54200.00	49400.00	53150.00	156750.00
Other Costs:						
Transportation 10% of Material			5420	4940	5315	15675.00
Contingencies (10% of Material and Labour)			18110	16540	16915	51565.00
**Tools (discounted for crop cycles in 5 years)			5000.00	0	0	7837.5
Land Charges per crop cycle			0.00	2500.00	2500.00	5000.00
Supervision (15% of Labour and Material)			27165	24810	25372.5	77347.50
Sub-total			50695.00	48790.00	50102.50	149587.50
Total Operating Expenditure Per Crop Cycle			231795.00	214190.00	219252.50	665237.50

ITEMS	Unit	Year 1	Year 2	Year 3
Labour Operations:				
Land Prep:-	MD	8	0	0
Land cleaning	MD	3	0	0
Lining & pegging	MD	2	0	0
Digging holes	MD	4	0	0
Cutting trenches	MD	5	0	0
Maintaining trenches	MD	3	15	15
Head & drop plants	MD	2	9	9
Planting suckers	MD	10		
Fertilising	MD	4	4	4
Spraying	MD	2	2	2
Weeding (manual)	MD	15	10	10
Herbicide application	MD	4	4	4
Pruning	MD	7	7	7
Harvesting	MD	7	7	7
Food	lunch	61	58	58
Materials:				
Suckers	each	436	0	0
Fertilizer				
Nematicide	bag	2	1	1
Herbicide				
Fungicide				

Notes

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ESTIMATED COST OF PRODUCTION FOR DASHEEN

Parish:	Hanover	
Extension Area	Green Island	
Crop Maturity:	9 Months	
Land Preparation	Manual	
Planting Distance:	90cm x 60cm	(3' x 2')
Plant Density @ 0.4 hectares	7,260	
Irrigated/Rainfed	Rainfed	
Area:	0.4 hectare	
Man-Day (MD) Charge:	\$1,500	
Projected Marketable Yield (kg)	5,940	
Cost of Production \$/kg:	\$27	

ITEMS	Unit	No. of Units	Cost/unit (\$)	Total Cost (\$)
Labour Operations:				
Land clearing (chemical)	MD	4	1500.00	6000.00
Land cleaning	MD	2	1500.00	3000.00
Digging holes	hole	7,260	5.00	36300.00
Dropping and planting	MD	2	1500.00	3000.00
Fertilising	MD	6	1500.00	9000.00
Weeding and moulding	MD	5	1500.00	7500.00
Harvesting	MD	20	1500.00	30000.00
Cleaning	MD	2	1500.00	3000.00
Food	lunch	41	0.00	0.00
Subtotal				97800.00
Material Inputs:				
*Suckers	plant	5,940	8.00	47520.00
Fertiliser:				24000.00
Subtotal				24000.00
Other Costs:				
Transportation	10% of Material			2400.00
Contingencies	10% of Labour & Material			12180.00
**Tools (discounted for crop cycles in 5 years)	(Fork, Sprayer, Hoe, Hose etc)			5000.00
Land Charges per crop cycle	0.4 hectare			2000.00
Supervision	15% of Labour & Material			18270.00
Total Operating Expenditure Per Crop Cycle				161650.00

Notes

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ESTIMATED COST OF PRODUCTION FOR YAM (NEGRO)

Parish:	Hanover
Extension Area	Cascade
Crop Maturity:	9 Months
Land Preparation	Manual
Planting Distance:	180cm x 180cm (6' x 6')
Plant Density @ 0.4 hectares	1,210
Irrigated/Rainfed	Rainfed
Area:	0.4 hectare
Man-Day (MD) Charge:	\$1,500
Projected Marketable Yield (kg)	6,793
Cost of Production \$/kg:	\$51

ITEMS	Unit	No. of Units	Cost/unit (\$)	Total Cost (\$)
Labour Operations:				
Land cleaning	MD	2	1500.00	3000.00
Ploughing	MD	12	1500.00	18000.00
Cleaning & treating heads	MD	3	1500.00	4500.00
*Lining and digging trenches	metre	200	50.00	10000.00
Maintain Trenches	metre	200	50.00	10000.00
Making mounds	each	1,210	10.00	12100.00
Fertilising	MD	2	1500.00	3000.00
Opening mounds and planting	MD	10	1500.00	15000.00
Weeding	MD	15	1500.00	22500.00
Staking and tying	MD	12	1500.00	18000.00
Twining and tending	MD	6	1500.00	9000.00
Harvesting	MD	21	1500.00	31500.00
Food	lunch	83	500.00	41500.00
Subtotal				188100.00
Material Inputs:				
*Heads	kg	1000	40.00	40000.00
**Stakes (discounted for 7 years)	each	1210	20.00	24200.00
Slug Bait	kg	1	245.00	245.00
<u>Fertiliser:</u>				36000.00
Subtotal				60445.00
Other Costs:				
Transportation	10% of Material			6044.50
Contingencies	10% of Labour & Material			24854.50
**Tools (discounted for crop cycles in 5 years)	(Fork, Sprayer, Hoe, Hose etc)			5000.00
Land Charges per crop cycle	0.4 hectare			24810.00
Supervision	15% of Labour & Material			37281.75
Subtotal				97990.75
Total Operating Expenditure Per Crop Cycle				346535.75

Notes

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ESTIMATED COST OF PRODUCTION FOR YAM (YELLOW)

Parish:	Hanover
Extension Area	Cascade
Land Preparation	Manual
Crop Maturity:	9 Months
Planting Distance:	210cm x 180cm (7' x 6')
Plant Density @ 0.4 hectares	1,037
Irrigated/Rainfed	Rainfed
Area:	0.4 hectare
Man-Day (MD) Charge:	\$1,500
Projected Marketable Yield (kg)	5,821
Cost of Production \$/kg:	\$57

ITEMS	Unit	No. of Units	Cost / Unit (\$)	Total Cost (\$)
Labour Operations:				
Land clearing (chemical)	MD	4	1500.00	6000.00
Ploughing	MD	1	8000.00	8000.00
Making mounds	each	1037	35.00	36295.00
Head & prepare planting materials	MD	4	1500.00	6000.00
Planting	MD	6	1500.00	9000.00
Fertilising	MD	2	1500.00	3000.00
Weeding	MD	12	1500.00	18000.00
Stake & tie	MD	6	1500.00	9000.00
Twine & tend	MD	10	1500.00	15000.00
Harvest	MD	25	1500.00	37500.00
Food	lunch	70	500.00	35000.00
Subtotal				182795.00
Material Inputs:				
*Heads	kg	1,050	50.00	52500.00
**Stakes (discounted for 7 crop cycles)	each	1040	20.00	20800.00
<u>Fertiliser:-</u>				32520.00
<u>Herbicide:-</u>				0.00
Subtotal				53320.00
Other Costs:				
Transportation	10% of Material			5332.00
Contingencies	10% of labour & material			23611.50
**Tools (discounted for crop cycles in 5 years)	(Fork, Sprayer, Hoe, Hose etc)			5000.00
Land Charges per crop cycle	0.4 hectare			24810.00
Supervision	15% of labour & material			35417.25
Subtotal				94170.75
Total Operating Expenditure Per Crop Cycle				330285.75

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ESTIMATED COST OF PRODUCTION FOR DASHEEN

Parish:	Hanover	
Extension Area	Cascade	
Crop Maturity:	8 Months	
Land Preparation	Manual	
Planting Distance:	90cm x 90cm	(3' x 3')
Plant Density @ 0.4 hectares	4,840	
Irrigated/Rainfed	Rainfed	
Area:	0.4 hectare	
Man-Day (MD) Charge:	\$1,500	
Projected Marketable Yield (kg)	4,940	
Cost of Production \$/kg:	\$29	

ITEMS	Unit	No. of Units	Cost/unit (\$)	Total Cost (\$)
Labour Operations:				
Land clearing (chemical)	MD	3	1500.00	4500.00
Land cleaning	MD	2	1500.00	3000.00
Digging holes	MD	8	1500.00	12000.00
Dropping and planting	MD	7	1500.00	10500.00
Fertilising	MD	6	1500.00	9000.00
Weeding and moulding	MD	12	1500.00	18000.00
Harvesting	MD	10	1500.00	15000.00
Cleaning	MD	2	1500.00	3000.00
Food (per man-day)	lunch	50	400.00	20000.00
Subtotal				95000.00
Material Inputs:				
*Suckers	each	4850	6.00	29100.00
Fertiliser:				12400.00
Subtotal				12400.00
Other Costs:				
Transportation	10% of Material			1240.00
Contingencies	10% of Labour & Material			10740.00
**Tools (discounted for crop cycles in 5 years)	(Fork, Sprayer, Hoe, Hose etc)			5000.00
Land Charges per crop cycle	0.4 hectare			2500.00
Supervision	15% of Labour & Material			16110.00
Subtotal				35590.00
Total Operating Expenditure Per Crop Cycle				142990.00

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