

**Farmer planting papaya on a one acre farm for the first three years using hired labor 17/07/09**

<b>Year</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
<b>REVENUE</b>				
1 <b>Total number of trees</b>	480	960	1,440	960
2 Total marketable production @ 1.5kg/tree/month	1440	20160	47520	28800
3 2/3 for export	959	13427	31648	19181
4 1/3 for local market	480	6713	15824	9590
5 Revenue from exports (@ 0.90c/kg)	863	12084	28483	17263
6 Revenue from local sales (@ 0.70c/kg)	336	4699	11077	6713
<b>Total Revenue</b>	<b>1199</b>	<b>16783</b>	<b>39560</b>	<b>23976</b>
<b>Costs</b>				
<b>Non Labor Cash Expenses</b>				
7 Land rental @ \$1068(spread over 1 year)	600	600	600	600
8 Seedlings @ \$0.50 x 480plants	240	240	240	
9 Land Preparation				
Ploughing x 2 @ \$90.00/acre	180	180	180	
Harrowing x 2 @ \$60.00/acre	120	120	120	
Ridging x 1 @ \$50.00/acre	50	50	50	
<b>Subtotal</b>	<b>1190</b>	<b>1190</b>	<b>1190</b>	<b>600</b>
10 Fertilizer & other Agri - Chemicals				
NPK 16:16:16 @ 80grams/bearing tree/month	384	768	1152	768
Urea - 10grams /seedling hole @ \$0.10	48	48	48	
Poultry manure @ \$3.00/bag (120bags/acre)	360	360	360	
Glysohate Weedicide- 20ltr @ \$280/acre/year	280	560	840	560
Irrigation Equipment and labor	500	500	500	500
Knapsack - 20ltr @ \$435	435	435	435	435
<b>Subtotal</b>	<b>2007</b>	<b>2671</b>	<b>3335</b>	<b>2263</b>
<b>Total Non Labor Cash Expenditure</b>	<b>3197</b>	<b>3861</b>	<b>4525</b>	<b>2863</b>
11 <b>Labor inputs (person days)</b>				
Land clearing	6	6	6	
Lining and digging holes	2	2	2	
Planting (5 persons x 2days)	10	10	10	
Fertilizer application @ once/monthx 2 persons	12	24	36	24
Hoeing / Ring weeding x 5 persons	45	45	45	
Pest control and sanitation x 2 persons	24	24	24	24
Harvesting and packing in field bins x 2 persons	16	56	88	80
Grading and packing for sale x 2 persons	16	56	88	80
<b>Total Labor input</b>	<b>131</b>	<b>223</b>	<b>299</b>	<b>208</b>
12 <b>Imputed cost of labor @ \$15.00/day</b>	<b>1965</b>	<b>3345</b>	<b>4485</b>	<b>3120</b>
<b>Average labor days/annum</b>	<b>2883</b>			
<b>Total costs (non labor costs + labor costs)</b>	<b>5162</b>	<b>7206</b>	<b>9010</b>	<b>5983</b>
<b>Gross margin (Total Revenue - Total Cash expenditure)</b>	<b>-3963</b>	<b>9577</b>	<b>30550</b>	<b>17993</b>
<b>Average gross margin over 5 years</b>	<b>11051</b>			
<b>Avarage gross margin /acre</b>	<b>3684</b>			

**Footnotes**

- 1 Assuming the farmer plants 1 acre of papaya trees every year for the first three years
- 2 Total marketable fruit @ 1.5kg per tree/month (Average)
- 3 Exportable fruit account for 70% of total production which mostly include hermaphrodite
- 4 The other 30% accounts for female fruit, undersized , deformed and non exportable

- 5 Farm gate price for exportable fruit is @ \$0.90
- 6 Current local market price is @ \$0.70
- 7 Land rental is based on the (NLTB) First Class (UCV) Unimproved Capital Value for the Province of BA @  
Note that papaya on the ground accounts for only 3acres of the whole 12acre lease
- 8 The seedlings are sourced from TTM @ \$0.50/seedlings(for growers outside the group) TTM growers p
- 9 Land preparation quote is the standard quote used by tractor drivers in the Sigatoka valley ( 03/03/09)
- 10 Fertilizer and other Agri chemicals are sourced from any Hardware department while poultry manure is  
various poultry sheds in the Eastern Division. Irrigation pumps are hired from the Agricultural Departme  
amongst the farmers i.e. one water pump among a group of 8 -12 farmers
- 11 The total non labor cash expenditure
- 12 The total labor input during the five year period

Summary table of farmer planting 1acre for the first three years using hired labor

	Year 1	Year 2	Year 3	Year 4
Total Revenue	1199	16783	39560	23976
Total non labor cost	3197	3861	4525	2863
Total labor cost	1725	3345	4485	3120
Net margin	-3723	9577	30550	17993

Year 5      Total

480	4320
5760	103680
3836	69051
1918	34525
3453	62146
1343	24168
4795	86314

600      3000  
            720

540  
360  
150

600      4770

384      3456  
            144

1080

280      2520

500      2500

435      2175

1599      11875

2199      16645

18

6

30

12      108

135

24      120

32      272

32      272

100      961

1500      14415

3699      31060

1096      55254

\$2476.56/ha .

pay \$0.40/seedling

; sourced from  
ent and shared

Year 5
4795
2199
1500
1096