

ENTERPRISE BUDGET

Classification	Vegetable	Province	Western Cape
Enterprise Budget Name	Watermelon (With Vineyard Trees)	District	North West Coast
Land Size	1 Hectare	Area	Matzikama
Date Developed	27 November 2018	Latest update	28 February 2024
Developer	Mzwanele Lingani/Bertie Visser	Updater	Nontembeko Mbusi
Soil Type	Sandy		

Use this enterprise budget as an aid in the planning process.

Description	Unit	Price Per Unit	Quantity	Per Ha	Value Per Yield Unit
GROSS INCOME			36,00	77 377,32	2 149,37
Product Income					
Fruit- Watermelon ¹	Ton	2 149,37	36,00	77 377,32	2 149,37
MARKETING COSTS Market	0,13		4,50	9 672,17	268,67
GROSS INCOME minus MARKETING COSTS				67 705,16	1 880,70
TOTAL ALLOCATABLE VARIABLE COSTS				96 411,67	2 678,10
DIRECTLY ALLOCATABLE VARIABLE COSTS				89 501,43	2 486,15
A) PRE-HARVEST COST					
PLANTING MATERIAL				11 761,64	326,71
Watermelon	Seedlings	1,97	5 981,00	11 761,64	326,71
FERTILISER				31 246,36	867,95
Ammonium Sulphate	Ton	7 400,00	0,30	2 220,00	61,67
Calcium Nitrate	Ton	9 640,00	0,25	2 410,00	66,94
Potassium Nitrate	Ton	31 866,50	0,61	19 342,97	537,30
Mono Ammonium Phosphate	Ton	35 480,00	0,21	7 273,40	202,04
HERBICIDES				3 983,60	110,66
Paraquat	L	99,59	40,00	3 983,60	110,66
PESTICIDES/INSECTICIDES				3 613,79	100,38
Abamectin	L	124,14	1,80	223,46	6,21
Cypermethrin 500 EC	L	184,58	4,50	830,59	23,07
Indoxacarb	L	1 722,39	1,13	1 937,69	53,82
acetamiprid	KG	209,09	1,50	313,64	8,71
Spinosad	L	228,46	1,35	308,42	8,57
FUNGICIDES				4 077,19	113,26
Boscalid	Kg	2 439,83	1,50	3 659,74	101,66
Penconazole	L	618,45	0,68	417,45	11,60
CASUAL LABOUR				7 998,20	222,17
Casual Labour Planting/Hour	R/Manhour	27,58	290,00	7 998,20	222,17
IRRIGATION & ELECRICITY				3 600,00	100,00
		900,00	4,00	3 600,00	100,00
B) HARVEST COSTS				220,64	6,13
Casual Labour Planting/Hour	R/Manhour	27,58	8,00	220,64	6,13
CONTRACT WORK					
Transport to market	Trip	11 500,00	2,00	23 000,00	638,89
GROSS MARGIN ABOVE DIRECTLY ALLOCATABLE VARIABLE COSTS				-21 796,27	-605,45

INDIRECTLY ALLOCATABLE VARIABLE COSTS			6 910,24	191,95
C) PRE-HARVEST COST				
Fuel	L	20,88	2 092,36	58,12
Repairs & Maintenance			772,74	21,47
D) HARVEST COSTS				
Fuel	L	20,88	3 101,02	86,14
Repairs & Maintenance			944,12	26,23
GROSS MARGIN ABOVE TOTAL ALLOCATABLE VARIABLE COSTS			-28 706,51	-797,40
Interest on Working Capital			2 832,09	78,67
MARGIN ABOVE SPECIFIED COSTS			-31 538,60	-876,07

NOTES:

Interest Rate 11,75%
Growing period of Crop (Months) 3
Watermelon¹- refers to the practice of planting watermelon in between young vine trees.

SENSITIVITY ANALYSIS					
YIELD (Ton/Ha)	PRICE (R/Ton)				
YIELD CHANGE AT 10% INCREMENTS	LESS 10%	LESS 5%	ACTUAL	ADD 5%	ADD 10%
	R 1 934,43	R 2 041,90	R 2 149,37	R 2 256,84	R 2 364,31
29	-R 53 204	-R 50 109	-R 47 014	-R 43 919	-R 40 824
32	-R 46 240	-R 42 758	-R 39 276	-R 35 794	-R 32 312
36	-R 39 276	-R 35 407	-R 31 539	-R 27 670	-R 23 801
40	-R 32 312	-R 28 057	-R 23 801	-R 19 545	-R 15 289
43	-R 25 348	-R 20 706	-R 16 063	-R 11 421	-R 6 778
BREAKEVEN YIELD (Ton/Ha)	56	53	51	48	46

Costs Of Production	R/Ha
Fertiliser	31 246,36
Seed	11 761,64
Weed Control	3 983,60
Pest Control	3 613,79
Fungal Control	4 077,19
Casual Labour	8 218,84
Fuel	5 193,38
Repairs & Maintenance	1 716,86
Contract Work	23 000,00
Interest	2 832,09
Irrigation & Electricity	3 600,00

Cost of Production

- Fertiliser
- Seed
- Weed Control
- Pest Control
- Fungal Control
- Casual Labour
- Fuel
- Repairs & Maintenance
- Contract Work
- Interest
- Irrigation & Electricity

Disclaimer

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