



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	03 June 2021
Developer	Mzwanele Lingani/Bertie Visser	Updater	Nontembeko Mbusi
Soil Type	Sandy		

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

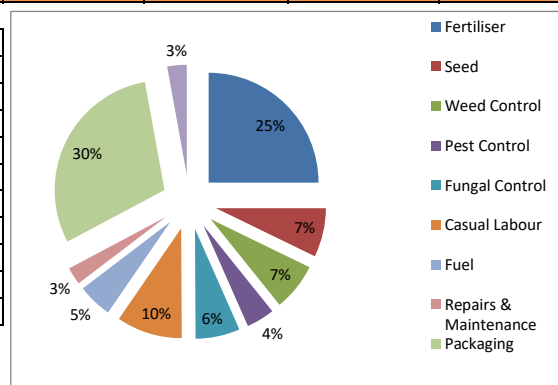
Description	Unit	Price Per Unit	Quantity	Per Ha	Value Per Yield Unit
GROSS INCOME			36,00	38 100,60	1 058,35
Product Income					
Fruit- Watermelon ¹	Ton	1 058,35	36,00	38 100,60	1 058,35
MARKETING COSTS Market	12,5%		4,50	4 762,58	132,29
GROSS INCOME minus MARKETING COSTS				33 338,03	926,06
TOTAL ALLOCATABLE VARIABLE COSTS				109 142,35	3 031,73
DIRECTLY ALLOCATABLE VARIABLE COSTS				104 033,42	2 889,82
A) PRE-HARVEST COST					
PLANTING MATERIAL				4 814,71	133,74
Watermelon	Seedlings	0,81	5 981,00	4 814,71	133,74
FERTILISER				16 714,00	464,28
Ammonium Sulphate	Ton	6 734,29	0,30	2 020,29	56,12
Calcium Nitrate	Ton	12 051,08	0,25	3 012,77	83,69
Potassium Nitrate	Ton	16 094,25	0,61	9 769,21	271,37
Mono Ammonium Phosphate	Ton	9 325,52	0,21	1 911,73	53,10
HERBICIDES				4 693,84	130,38
Paraquat	L	117,35	40,00	4 693,84	130,38
PESTICIDES/INSECTICIDES				2 775,19	77,09
Abamectin	L	147,89	1,80	266,20	7,39
Cypermethrin 500 EC	L	134,90	4,50	607,03	16,86
Indoxacarb	L	1 064,79	1,13	1 197,88	33,27
acetamiprid	KG	298,20	1,50	447,29	12,42
Spinosad	L	190,21	1,35	256,78	7,13
FUNGICIDES				3 943,52	121,31
Boscalid	Kg	2 629,02	1,50	3 943,52	109,54
Penconazole	L	627,67	0,68	423,68	11,77
CASUAL LABOUR				6 290,10	174,73
Casual Labour Planting/Hour	R/Manhour	21,69	290,00	6 290,10	174,73
				2 400,00	66,67
IRRIGATION & ELECRCITY				2 400,00	66,67
B) HARVEST COSTS				173,52	4,82
Casual Labour Planting/Hour	R/Manhour	21,69	8,00	173,52	4,82
CONTRACT WORK					
Transport to market	Trip	10 000,00	2,00	20 000,00	555,56
GROSS MARGIN ABOVE DIRECTLY ALLOCATABLE VARIABLE COSTS				-70 695,40	-1 963,76

INDIRECTLY ALLOCATABLE VARIABLE COSTS			5 108,93	141,91
C) PRE-HARVEST COST				
Fuel	L	13,64	1 366,63	37,96
Repairs & Maintenance			772,74	21,47
D) HARVEST COSTS				
Fuel	L	13,64	2025,44	56,26
Repairs & Maintenance			944,12	26,23
GROSS MARGIN ABOVE TOTAL ALLOCATABLE VARIABLE COSTS			-75 804,33	-2 105,68
Interest on Working Capital			1 909,99	53,06
MARGIN ABOVE SPECIFIED COSTS			-77 714,32	-2 158,73

NOTES:	
Interest Rate	7,00%
Growing period of Crop (Months)	3
Watermelon ¹ - 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 952,52	R 1 005,43	R 1 058,35	R 1 111,27	R 1 164,19
29	-R 88 382	-R 86 858	-R 85 334	-R 83 810	-R 82 286
32	-R 84 953	-R 83 239	-R 81 524	-R 79 810	-R 78 095
36	-R 81 524	-R 79 619	-R 77 714	-R 75 809	-R 73 904
40	-R 78 095	-R 76 000	-R 73 904	-R 71 809	-R 69 713
43	-R 74 666	-R 72 380	-R 70 094	-R 67 808	-R 65 522
BREAKEVEN YIELD (Ton/Ha)	122	115	109	104	99

Costs Of Production	R/Ha
Fertiliser	16 714,00
Seed	4 814,71
Weed Control	4 693,84
Pest Control	2 775,19
Fungal Control	4 367,20
Casual Labour	6 463,62
Fuel	3 392,07
Repairs & Maintenance	1 716,86
Packaging	20 000,00
Interest	1 909,99



Disclaimer

The enterprise budgets developed by the Western Cape Department of Agriculture are done to reflect accuracy and relevance of information. However, as each enterprise budget contains data from various sources its correctness cannot be guaranteed. Therefore, any person using this information will be doing so at own risk as the said organisation or other party will under no circumstances be responsible for any loss suffered by any person/ organisation using the information contained in this document.