Western Cape Government

AGRICULTURAL ECONOMICS
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ENTERPRISE BUDGET

Classification	Fruit	**Province**	Western Cape
Enterprise Budget Name	Plums- Yr 6	**District**	Cape Winelands
Land Size	1 ha	**Area**	Ceres/ Robertson
Date Developed	18 August 2020	**Date Updated**	07 November 2024
Developer	Sinovuyo Magqibelo	**Updater**	Sinovuyo Magqibelo
Soil Type	Sandy- Loam/Clay-Loam		

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			**43,00**	**1 012 486,00**	**23 546,19**
Product Income					
Plum- Export market (60%)	Ton	19 720,00	26,00	512 720,00	11 923,72
Plum- Local market (40%)	Ton	29 398,00	17,00	499 766,00	11 622,47
MARKETING COSTS(Export)	Ton		0,03	12 818,00	298,09
MARKETING COSTS(Local)			0,13	62 470,75	1 452,81
GROSS INCOME minus MARKETING COSTS				**937 197,25**	**21 795,28**
TOTAL ALLOCATABLE VARIABLE COSTS				**238 766,92**	**5 552,72**
DIRECTLY ALLOCATABLE VARIABLE COSTS				**233 100,48**	**5 420,94**
A) PRE-HARVEST COST					
FERTILISER				**6 487,37**	**150,87**
Lime Ammonium Nitrate (28)	Ton	9 972,98	0,23	2 293,78	53,34
3:1:5 (38)	Ton	13 895,45	0,20	2 779,09	64,63
Turbo-31 10:1:5	Ton	9 430,00	0,15	1 414,50	32,90
INSECTICIDES				**7 569,53**	**176,04**
emamectin benzoate	L	424,98	1,60	679,97	15,81
Indoxacarb	L	1 722,39	4,00	6 889,56	160,22
HERBICIDES				**3 933,69**	**91,48**
Glyphosate	L	157,35	25,00	3 933,69	91,48
FUNGICIDES				**5 380,35**	**125,12**
Mancozeb 800WP	Kg	111,02	24,00	2 664,46	61,96
Propiconazole 250 EC	L	573,00	2,00	1 146,00	26,65
Thiram	Kg	174,43	9,00	1 569,89	36,51
POLLINATION				**9 000,00**	**209,30**
Beehives	Hive	900,00	10,00	9 000,00	209,30
CASUAL LABOUR				**64 537,20**	**1 500,87**
Casual Labour Fertiliser Spread/Day	R/Manday	248,22	40,00	9 928,80	230,90
Casual Labour Pruning/Day	R/Manday	248,22	100,00	24 822,00	577,26
Casual Labour Thinning/Day	R/Manday	248,22	120,00	29 786,40	692,71
IRRIGATION & ELECTRICITY				**3 416,09**	**79,44**
Electricity[1]	kWh	2,34	1 458,00	3 416,09	79,44
B) HARVEST COST					
CASUAL LABOUR				**51 381,54**	**1 194,92**
Casual Labour Pickers	R/Manday	248,22	107,00	26 559,54	617,66
Casual Labour Sorters	R/Manday	248,22	100,00	24 822,00	577,26
PACKAGING MATERIAL				**81 394,70**	**1 892,90**
Box (10KG) Plums	Each	18,93	4 300,00	81 394,70	1 892,90
GROSS MARGIN ABOVE DIRECTLY ALLOCATABLE VARIABLE COSTS				**704 096,77**	**16 374,34**

INDIRECTLY ALLOCATABLE VARIABLE COSTS			**5 666,44**	**131,78**
C) PRE-HARVEST COST				
Fuel	L	19,99	1 075,41	25,01
Repairs & Maintenance			737,61	17,15
D) HARVEST COST				
Fuel	L	19,99	3 182,01	74,00
Repairs & Maintenance			671,41	15,61
GROSS MARGIN ABOVE TOTAL ALLOCATABLE VARIABLE COSTS			**698 430,33**	**16 242,57**
Interest on Working Capital			27 458,20	638,56
MARGIN ABOVE SPECIFIED COSTS			**670 972,14**	**15 604,00**

NOTES:	
1. Interest Rate	11,50%
2. Growing period of Crop (Months)	12

SENSITIVITY ANALYSIS

YIELD (Tons/ha)	PRICE (R/ Ton)				
YIELD CHANGE AT 10% INCREMENTS	LESS 10%	LESS 5%	ACTUAL	ADD 5%	ADD 10%
	R 21 191,57	**R 22 368,88**	**R 23 546,19**	**R 24 723,50**	**R 25 900,80**
34,40	R 387 476	R 427 975	R 468 475	R 508 974	R 549 474
38,70	R 478 600	R 524 162	R 569 724	R 615 285	R 660 847
43,00	R 569 724	R 620 348	R 670 972	R 721 596	R 772 221
47,30	R 660 847	R 716 534	R 772 221	R 827 907	R 883 594
51,60	R 751 971	R 812 720	R 873 469	R 934 218	R 994 968
BREAKEVEN YIELD (Tons/Ha)	**16,12**	**15,27**	**14,50**	**13,81**	**13,19**

Costs Of Production	R/Ha
Fertiliser	6 487,37
Insecticides	7 569,53
Herbicides	3 933,69
Fungicides	5 380,35
Labour Cost	115 918,74
Fuel	4 257,42
Repairs & Maintenance	1 409,02
Interest	27 458,20
Electricity cost	3 416,09
Pollination	6 500,00
Packaging	81 394,70