
ENTERPRISE BUDGETS

2022/2023



COMPILED BY:

COMPUTUS MANAGEMENT BUREAU, CC

CK 1989/040736/23

POSTNET SUITE 95

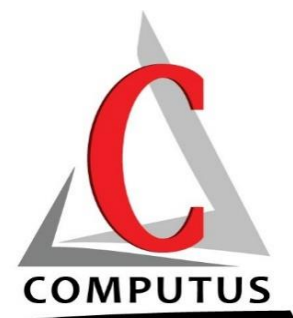
PRIVAATSAK X62

BETHLEHEM

9700

epos: philip@computus.co.za

www.computus.co.za



30-Sep-2022

CONTENTS

Notes to the budgets	-	1
Beef cattle	-	2
Sheep	-	3
Wheat (Dry land)	-	4
Wheat (Irrigation)	-	5
Potatoes (Dry land)	-	6
Potatoes (Irrigation)	-	7
Dry beans	-	8
Maize (Dry land)	-	9
Maize (Irrigation)	-	10
Sunflower	-	11
Soya beans	-	12
Sorghum	-	13
Fodder (Perennial)	-	14
Fodder (Yearly)	-	15
Sensitivity analyses	-	16

*Although we put an effort in to compile this document as accurately as possible,
we do not take any responsibility for decisions taken on the grounds
of information in this document.*

NOTES TO THE BUDGETS

Prices = Prices does not include VAT

Discount = No discounts was taken into account

Crop insurance = Premium for Sorghum for Standerton
Other premiums for Bethlehem

Interest on production credit = Calculated for six months at 9.75%
Only calculated for direct inputs on crops

Permanent labour = Determined by group averages of COMPUTUS
Only allotted for live stock enterprises
Part of operator cost for crops
within machinery cost

Machinery cost = COMPUTUS Guide to Machinery cost

Return on capital = Included as depreciation in machinery cost
No further provisions made for
capital cost of vehicles, buildings,
water supply, irrigation equipment, land,
fencing, stock handling or dairy equipment

Application = The budgets are compiled for practises
followed for farming on the Highveld
of South Africa

Direct inputs = Sources of information:
Cois Fourie, Inteligro, Bethlehem
Sput Wales (Santam)
VKB Saadverwerking
Callie Venter (Stroperkontrakteur)
Orsmond Sputdienste
VR Vervoer
Faans Pretorius (Telwiedrè)
Ramsem
Ras Meintjes (Pannar)
Jaco Breytenbach

BEEF CATTLE

<i>Rand per year per:</i>	<i>LSU</i>
<u>INCOME</u>	
Produce sales	0
Stock sales (250kg x R38)	9500
GROSS PRODUCTION VALUE	R 9 500

<u>DIRECT EXPENSES</u>	
Lick & concentrates	892
- Summer lick	223
- Winter lick	669
Veterinary	127
Bull cost	150
DIRECT EXPENSES	R 1 169

<u>VARIABLE COST</u>	
Marketing cost	475
Transport cost	30
VARIABLE COST	R 505

<u>ALLOTTED EXPENSES</u>	
Labour	1131
Cost of farm produced fodder	334
Repairs	320
ALLOTTED EXPENSES	R 1 785

TOTAL EXPENSES	R 3 459
-----------------------	----------------

ENTERPRISE MARGIN	R 6 042
--------------------------	----------------

BREAKEVEN PRICE (Price/weaned calf)	R 4 069	<i>(85% wean)</i>
--	----------------	-------------------



SHEEP (MUTTON/WOOL)

	Extensive with		Intensive with full rations			
	Green fd	Crop res	Lambing intervals			
Rand per ewe per year:	12 Months	12 Months	8 Months	9 Months	10 Months	12 Months
Effektive wean % pa	120	100	180	160	144	120
Weaning weight	40	40	28	34	39	43
Price/kg	43	43	43	43	43	43
Wool sales	200	200	200	200	200	200
Stock sales	2 064	1 720	2 172	2 365	2 427	2 224
GROSS PRODUCTION VALUE	2264	1920	2372	2565	2627	2424

<u>DIRECT EXPENSES</u>						
Lick & concentrates	563	230	1 750	1 737	1 724	1 721
- Summer lick	72	72	1 470	1 480	1 489	1 452
- Winter lick	315	158	0	0	0	0
- Conditioning	176	0	280	258	235	269
Vaccines/dosages	89	44	89	89	89	89
Pregnancy scans	17	0	26	23	20	17
Synchronising	0	0	114	101	91	76
Veterinary	75	75	75	75	75	75
Ram cost	75	75	150	120	100	75
DIRECT EXPENSES	R 819	R 424	R 2 203	R 2 145	R 2 099	R 2 053

<u>VARIABLE COST</u>						
Shearing cost	25	25	25	25	25	25
Marketing cost	147	125	154	167	171	158
Transport cost	4	3	5	5	4	4
VARIABLE COST	R 176	R 153	R 185	R 197	R 200	R 186

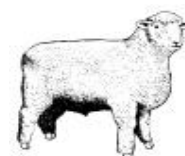
<u>ALLOTTED EXPENSES</u>						
Labour	90	90	136	121	109	90
Cost of farm produced fodder	223	56	0	0	0	0
Repairs	116	95	116	116	116	116
ALLOTTED EXPENSES	R 429	R 241	R 251	R 236	R 224	R 206

TOTAL EXPENSES	R 1 423	R 817	R 2 639	R 2 577	R 2 523	R 2 445
-----------------------	----------------	--------------	----------------	----------------	----------------	----------------

ENTERPRISE MARGIN	R 841	R 1 103	-R 267	-R 12	R 103	-R 21
--------------------------	--------------	----------------	---------------	--------------	--------------	--------------

MUTTON PRODUCTION (kg/e/a)	48	40	51	55	56	52
-----------------------------------	-----------	-----------	-----------	-----------	-----------	-----------

FEED COST/Kg MEAT	R 16	R 7	R 35	R 32	R 31	R 33
--------------------------	-------------	------------	-------------	-------------	-------------	-------------



WHEAT (DRY LAND)

Criteria

Kg Nitrogen	25 N	35 N	45 N	45 N
Yield: (Tons/ha)	1.5	2	2.5	3
Price/ton in Rand	6 825	6 825	6 825	6 825
Rand per year per:	Hectare	Hectare	Hectare	Hectare
INCOME				
Produce sales	10 238	13 650	17 063	20 475
GROSS PRODUCTION VALUE	R 10 238	R 13 650	R 17 063	R 20 475

DIRECT EXPENSES				
Seed	524	524	524	524
Fertilizer (Transport/ton included) R 3 585	1 926	2 697	3 467	3 467
Weed control	123	123	123	123
Pest control	117	117	117	117
Crop spraying	255	255	255	255
Harvest cost	999	999	999	999
DIRECT EXPENSES	R 3 944	R 4 715	R 5 485	R 5 485

VARIABLE COST					
Crop insurance	% of Turnover	706	942	1 177	1 413
- Hail	5.60%	573	764	956	1 147
- Frost	1.30%	133	177	222	266
- Excessive Rain	0.00%	0	0	0	0
Transport		172	229	286	343
VARIABLE COST		R 878	R 1 171	R 1 463	R 1 756

ALLOTTED EXPENSES					
Machinery cost		3 322	3 322	3 322	3 322
- Fuel		1 364	1 364	1 364	1 364
- Depreciation & Repairs		1 619	1 619	1 619	1 619
- Operator cost		339	339	339	339
Interest		192	230	267	267
ALLOTTED EXPENSES		R 3 514	R 3 552	R 3 589	R 3 589

TOTAL EXPENSES	R 8 336	R 9 437	R 10 538	R 10 830
-----------------------	----------------	----------------	-----------------	-----------------

ENTERPRISE MARGIN	R 1 901	R 4 213	R 6 525	R 9 645
--------------------------	----------------	----------------	----------------	----------------

BREAKEVEN PRICE (Price/ton)	R 5 558	R 4 719	R 4 215	R 3 610
------------------------------------	----------------	----------------	----------------	----------------

BREAKEVEN YIELD (Tons/ha)	1.2	1.4	1.5	1.6
----------------------------------	------------	------------	------------	------------



WHEAT (IRRIGATION)

Criteria

Kg Nitrogen	160 N
Yield: (Tons/ha)	6
Price/ton in Rand	R 6 825
Rand per year per:	Hectare
<u>INCOME</u>	
Produce sales	40 950
GROSS PRODUCTION VALUE	R 40 950

<u>DIRECT EXPENSES</u>	
Seed	2 830
Fertilizer (Transport/ton included) R 3 585	7 534
Weed control	99
Pest control	360
Crop spraying 3 times	765
Harvest cost	1 349
Irrigation cost (Electricity & Repairs)	4 280
DIRECT EXPENSES	R 17 217

<u>VARIABLE COST</u>	
Crop insurance % of Turnover	2 826
- Hail 5.60%	2 293
- Frost 1.30%	532
- Excessive Rain 0.00%	0
Transport	686
VARIABLE COST	R 3 512

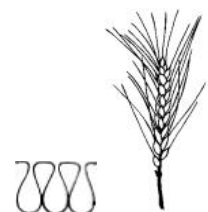
<u>ALLOTTED EXPENSES</u>	
Machinery cost	3 322
- Fuel	1 364
- Depreciation & Repairs	1 619
- Operator cost	339
Interest	839
ALLOTTED EXPENSES	R 4 161

TOTAL EXPENSES	R 24 890
-----------------------	-----------------

ENTERPRISE MARGIN	R 16 060
--------------------------	-----------------

BREAKEVEN PRICE (Price/ton)	R 4 148
------------------------------------	----------------

BREAKEVEN YIELD (Tons/ha)	3.6
----------------------------------	------------



POTATOES (DRY LAND)

Criteria

Kg Nitrogen	120 N
Yield: (Bags/ha)	2 000
Price/ton in Rand	50
Rand per year per:	Hectare
<u>INCOME</u>	
Produce sales	100 000
GROSS PRODUCTION VALUE	R 100 000

<u>DIRECT EXPENSES</u>	
Seed	19 950
Fertilizer (Transport/ton included) R 300	14 043
Weed control	1 985
Pest control	6 297
Crop spraying 4 times	1 020
DIRECT EXPENSES	R 43 294

<u>VARIABLE COST</u>		
	% of Turnover	
Crop insurance	3.5%	3 500
Marketing cost	11.5%	11 500
	Per bag	
Packaging	3.80	7 600
Casual Labour	2.06	4 123
Transport on farm (10 km)	0.38	760
Transport to market (250 km)	3.50	7 000
VARIABLE COST		R 34 483

<u>ALLOTTED EXPENSES</u>	
Machinery cost	7 913
- Fuel	2 652
- Depreciation & Repairs	4 590
- Operator cost	671
Interest	2 111
ALLOTTED EXPENSES	R 10 024

TOTAL EXPENSES	R 87 801
-----------------------	-----------------

ENTERPRISE MARGIN	R 12 199
--------------------------	-----------------

BREAKEVEN PRICE (Price/ton)	R 44
------------------------------------	-------------

BREAKEVEN YIELD (Bags/ha)	1 756
----------------------------------	--------------



POTATOES (IRRIGATION)

Criteria

Kg Nitrogen	230 N
Yield: (Tons/ha)	4 500
Price/ton in Rand	50
Rand per year per:	
	Hectare
<u>INCOME</u>	
Produce sales	225 000
GROSS PRODUCTION VALUE	R 225 000

<u>DIRECT EXPENSES</u>	
Seed	42 750
Fertilizer (Transport/ton included) R 3 585	26 260
Weed control	2 429
Pest control	7 828
Crop spraying 9 times	2 295
Irrigation cost (Electricity & Repairs)	4 280
DIRECT EXPENSES	R 85 842

<u>VARIABLE COST</u>		
	% of Turnover	
Crop insurance	3.5%	7 875
Marketing cost	11.5%	25 875
	Per bag	
Packaging	3.80	17 100
Casual Labour	2.06	9 276
Transport on farm (10 km)	0.38	1 710
Transport to market (250 km)	3.50	15 750
VARIABLE COST		R 77 586

<u>ALLOTTED EXPENSES</u>	
Machinery cost	7 913
- Fuel	2 652
- Depreciation & Repairs	4 590
- Operator cost	671
Interest	4 185
ALLOTTED EXPENSES	R 12 098

TOTAL EXPENSES	R 175 526
-----------------------	------------------

ENTERPRISE MARGIN	R 49 474
--------------------------	-----------------

BREAKEVEN PRICE (Price/ton)	R 39
------------------------------------	-------------

BREAKEVEN YIELD (Bags/ha)	3 511
----------------------------------	--------------



DRY BEANS

Criteria

Kg Nitrogen	45 N
Yield: (Tons/ha)	1.5
Price/ton in Rand	20 000
Rand per year per:	Hectare
<u>INCOME</u>	
Produce sales	30 000
GROSS PRODUCTION VALUE	R 30 000

DIRECT EXPENSES

Seed	4 872
Fertilizer (Transport/ton included) R 3 585	3 531
Weed control	527
Pest control	3 812
Crop spraying 4 times	1 020
Harvest cost	1 599
Casual labour	1 237
DIRECT EXPENSES	R 16 599

VARIABLE COST

Crop insurance	% of Turnover	2 910
- Hail	9.7%	2 910
- Frost	0.0%	0
- Excessive Rain	0.0%	0
Packaging		116
Transport		172
VARIABLE COST		R 3 197

ALLOTTED EXPENSES

Machinery cost	4 229
- Fuel	1 416
- Depreciation & Repairs	2 490
- Operator cost	323
Interest	809
ALLOTTED EXPENSES	R 5 038

TOTAL EXPENSES	R 24 834
-----------------------	-----------------

ENTERPRISE MARGIN	R 5 166
--------------------------	----------------

BREAKEVEN PRICE (Price/ton)	R 16 556
------------------------------------	-----------------

BREAKEVEN YIELD (Tons/ha)	1.2
----------------------------------	------------



MAIZE (DRY LAND)

Criteria

Kg Nitrogen	60 N	68 N	75 N	83 N	90 N
Yield: (Tons/ha)	4.0	4.5	5.0	5.5	6.0
Price/ton in Rand	4 284	4 284	4 284	4 284	4 284
Rand per year per:	Hectare	Hectare	Hectare	Hectare	Hectare
INCOME					
Produce sales	17 136	19 278	21 420	23 562	25 704
GROSS PRODUCTION VALUE	R 17 136	R 19 278	R 21 420	R 23 562	R 25 704

DIRECT EXPENSES

Seed	2 024	2 024	2 024	2 024	2 024
Fertilizer (Transport/ton included) R 0	3 795	4 268	4 799	5 075	6 085
Weed control	790	790	790	790	790
Pest control	276	276	276	276	276
Crop spraying	0	0	0	0	0
Harvest cost	1 049	1 049	1 049	1 049	1 049
DIRECT EXPENSES	R 7 934	R 8 408	R 8 939	R 9 215	R 10 225

VARIABLE COST

Crop insurance	% of Turnover	617	694	771	848	925
- Hail	3.6%	617	694	771	848	925
- Frost	0.0%	0	0	0	0	0
- Excessive Rain	0.0%	0	0	0	0	0
Transport		458	515	572	629	686
VARIABLE COST		R 1 074	R 1 209	R 1 343	R 1 477	R 1 612

ALLOTTED EXPENSES

Machinery cost	2 767	2 767	2 767	2 767	2 767
- Fuel	953	953	953	953	953
- Depreciation & Repairs	1 427	1 427	1 427	1 427	1 427
- Operator cost	387	387	387	387	387
Interest	387	410	436	449	498
ALLOTTED EXPENSES	R 3 154	R 3 177	R 3 203	R 3 216	R 3 266

TOTAL EXPENSES

	R 12 163	R 12 794	R 13 485	R 13 909	R 15 102
--	-----------------	-----------------	-----------------	-----------------	-----------------

ENTERPRISE MARGIN

	R 4 973	R 6 484	R 7 935	R 9 653	R 10 602
--	----------------	----------------	----------------	----------------	-----------------

BREAKEVEN PRICE (Price/ton)

	R 3 041	R 2 843	R 2 697	R 2 529	R 2 517
--	----------------	----------------	----------------	----------------	----------------

BREAKEVEN YIELD (Tons/ha)

	2.8	3.0	3.1	3.2	3.5
--	------------	------------	------------	------------	------------



MAIZE (IRRIGATION)

Criteria

Kg Nitrogen	180 N
Yield: (Tons/ha)	10.0
Price/ton in Rand	4 284
Rand per year per:	Hectare
<u>INCOME</u>	
Produce sales	42 840
GROSS PRODUCTION VALUE	R 42 840

<u>DIRECT EXPENSES</u>	
Seed	4 380
Fertilizer (Transport/ton included) R 3 585	11 024
Weed control	492
Pest control	386
Crop spraying	0
Harvest cost	1 399
Irrigation cost (Electricity & Repairs)	4 280
DIRECT EXPENSES	R 21 962

<u>VARIABLE COST</u>	
Crop insurance	1 414
- Hail	1 414
- Frost	0
- Excessive Rain	0
Transport	1 144
VARIABLE COST	R 2 558

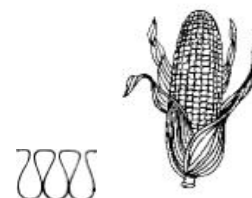
<u>ALLOTTED EXPENSES</u>	
Machinery cost	2 767
- Fuel	953
- Depreciation & Repairs	1 427
- Operator cost	387
Interest	1 071
ALLOTTED EXPENSES	R 3 838

TOTAL EXPENSES	R 28 357
-----------------------	-----------------

ENTERPRISE MARGIN	R 14 483
--------------------------	-----------------

BREAKEVEN PRICE (Price/ton)	R 2 836
------------------------------------	----------------

BREAKEVEN YIELD (Tons/ha)	6.6
----------------------------------	------------



SUNFLOWER

Criteria

Kg Nitrogen	35 N	45 N
Yield: (Tons/ha)	1.2	1.8
Price/ton in Rand	9 807	9 807
Rand per year per:	Hectare	Hectare
<u>INCOME</u>		
Produce sales	11 768	17 653
GROSS PRODUCTION VALUE	R 11 768	R 17 653

<u>DIRECT EXPENSES</u>		
Seed	725	725
Fertilizer (Transport/ton included) R 3 585	2 648	2 930
Weed control	267	267
Pest control	389	389
Crop spraying	0	0
Harvest cost	949	949
Casual labour	0	0
DIRECT EXPENSES	R 4 978	R 5 261

<u>VARIABLE COST</u>		
Crop insurance	412	618
- Hail 3.5%	412	618
- Frost 0.0%	0	0
- Excessive Rain 0.0%	0	0
Packaging	0	0
Transport	137	206
VARIABLE COST	R 549	R 824

<u>ALLOTTED EXPENSES</u>		
Machinery cost	2 637	2 637
- Fuel	923	923
- Depreciation & Repairs	1 365	1 365
- Operator cost	348	348
Interest	243	256
ALLOTTED EXPENSES	R 2 879	R 2 893

TOTAL EXPENSES	R 8 406	R 8 978
-----------------------	----------------	----------------

ENTERPRISE MARGIN	R 3 362	R 8 675
--------------------------	----------------	----------------

BREAKEVEN PRICE (Price/ton)	R 7 005	R 4 988
------------------------------------	----------------	----------------

BREAKEVEN YIELD (Tons/ha)	0.9	0.9
----------------------------------	------------	------------



SOYA BEANS

Criteria

Kg Nitrogen	12 N	6 N	6 N
Yield: (Tons/ha)	1.8	1.8	2.5
Price/ton in Rand	8 725	8 725	8 725
Rand per year per:	Hectare	Hectare	Hectare
<u>INCOME</u>			
Produce sales	15 705	15 705	21 813
GROSS PRODUCTION VALUE	R 15 705	R 15 705	R 21 813

DIRECT EXPENSES

Seed	2 352	1 384	1 384
Fertilizer (Transport/ton included) R 3 585	1 382	1 382	1 382
Weed control	479	479	479
Pest control	69	69	69
Crop spraying	0	0	0
Harvest cost	1 299	1 299	1 299
Casual labour	0	0	0
DIRECT EXPENSES	R 5 581	R 4 613	R 4 613

VARIABLE COST

Crop insurance	% of Turnover	1 759	1 759	2 443
- Hail	11.2%	1 759	1 759	2 443
- Frost	0.0%	0	0	0
- Excessive Rain	0.0%	0	0	0
Packaging		0	0	0
Transport		206	206	206
VARIABLE COST		R 1 965	R 1 965	R 2 649

ALLOTTED EXPENSES

Machinery cost	2 800	2 800	2 800
- Fuel	1 030	1 030	1 030
- Depreciation & Repairs	1 497	1 497	1 497
- Operator cost	274	274	274
Interest	272	225	225
ALLOTTED EXPENSES	R 3 072	R 3 025	R 3 025

TOTAL EXPENSES	R 10 618	R 9 602	R 10 286
-----------------------	-----------------	----------------	-----------------

ENTERPRISE MARGIN	R 5 087	R 6 103	R 11 526
--------------------------	----------------	----------------	-----------------

BREAKEVEN PRICE (Price/ton)	R 5 899	R 5 335	R 4 115
------------------------------------	----------------	----------------	----------------

BREAKEVEN YIELD (Tons/ha)	1.2	1.1	1.2
----------------------------------	------------	------------	------------

* In 2nd & 3rd column the calculation was made with 20% new seed and 80% seed retained



SORGHUM

Criteria

Kg Nitrogen	45 N
Yield: (Tons/ha)	3.5
Price/ton in Rand	4 559
Rand per year per:	Hectare
<u>INCOME</u>	
Produce sales	15 957
GROSS PRODUCTION VALUE	R 15 957

<u>DIRECT EXPENSES</u>	
Seed	765
Fertilizer (Transport/ton included) R 3 585	3 751
Weed control	494
Pest control	577
Crop spraying 2 times	510
Harvest cost	999
Casual labour	0
DIRECT EXPENSES	R 7 096

<u>VARIABLE COST</u>	
Crop insurance	1 500
- Hail 9.4%	1 500
- Frost 0.0%	0
- Excessive Rain 0.0%	0
Packaging	0
Transport	400
VARIABLE COST	R 1 900

<u>ALLOTTED EXPENSES</u>	
Machinery cost	3 164
- Fuel	1 121
- Depreciation & Repairs	1 699
- Operator cost	344
Interest	346
ALLOTTED EXPENSES	R 3 510

TOTAL EXPENSES	R 12 506
-----------------------	-----------------

ENTERPRISE MARGIN	R 3 451
--------------------------	----------------

BREAKEVEN PRICE (Price/ton)	R 3 573
------------------------------------	----------------

BREAKEVEN YIELD (Tons/ha)	2.7
----------------------------------	------------



FODDER (PERENNIAL)

ERAGROSTIS

SERICA LESPEDEZA

Rand per hectare for:

	Scenario 1			Scenario 2			Scenario 1 (Hay)			Scenario 2 (Graze)		
		R/ha	R/ha		R/ha	R/ha		R/ha		R/ha	R/ha	
ESTABLISHING												
Seed	7 kg	1008	1008	10 kg	1440	1440	20 kg	3800		20 kg	3800	
Fertilizer												
- 3:2:1 (25)	100 kg		1517	100 kg		1517						
- KAN 28%	80 kg	1099		80 kg	1099							
Weed control (Roundup)							3 liter	447		3 liter	447	
Weed control (Hammer)							600 ml	310		600 ml	310	
Machinery cost		3322	3322		3322	3322		1718			1718	
ESTABLISHING		R 5 429	R 5 847		R 5 861	R 6 279		R 6 275			R 6 275	
CARING												
Fertilizer												
- Supers							300 kg	3727	0	300 kg	3727	
- KAN 28%	286 kg	2018	2018	286 kg	2018	2018					0	
Machinery cost		1530	1530		1530	1530		1356			174	
CARING COST		R 3 548	R 3 548		R 3 548	R 3 548		R 5 257	R 1 356		R 3 901	

Dry material: 4 ton/ha

Dry material: 4 ton/ha

SMUTS FINGER

LUCERNE

Rand per hectare for:

	Scenario 1			Scenario 2			Scenario 1			Scenario 2		
		R/ha	R/ha		R/ha	R/ha		R/ha	R/ha		R/ha	R/ha
ESTABLISHING												
Seed	7 kg	693	693	10 kg	990	990	7 kg	840		10 kg	3800	
Fertilizer												
- 3:2:1 (30)	100 kg		1517	100 kg		1517						
- 2:3:2 (22)							300 kg	3727		300 kg	3727	
- KAN 28%	80 kg	1099		80 kg	1099							
Machinery cost		3322	3322		3322	3322		1718			1718	
ESTABLISHING		R 5 114	R 5 532		R 5 411	R 5 829		R 6 285			R 9 245	
CARING												
Fertilizer												
- KAN 28%	286 kg	2018	2018	0	0	0						
- SUPERS							350 kg	5146		350 kg	5146	
ESTABLISHING		174	174		174	174		174			174	
CARING COST		R 2 192	R 2 192		R 174	R 174		R 5 319			R 5 319	

Dry material: 4 ton/ha

Dry material: 4 ton/ha



FODDER (YEARLY)

Rand per hectare for:	Oats		Barley	
		R/ha		R/ha
ESTABLISHING				
Seed	35 kg	531	35 kg	616
Fertilizer 3.1.0(28)	238 kg	3272	238 kg	3272
MACHINERY		1964		1964
TOTAL EXPENSES		R 5 767		R 5 852

Dry material:

3 ton/ha

3 ton/ha

Rand per hectare for:	Japanese Radish		Japanese Radish	
		R/ha		R/ha
ESTABLISHING				
Seed	2 kg	148	2 kg	148
Fertilizer 4.2.4(33)ZN	200 kg	3450	200 kg	3450
LABOUR				
Tractor driver	1	365		
General workers	4	1206		
MACHINERY		1964		1964
TOTAL EXPENSES		R 7 133		R 5 563

Dry material:

4 ton/ha

Hectare per day lifted

0.5

Wage per day:

Tractor driver (B3)

182

General workers (A1)

151

Rand per hectare for:	Rye grass	
		R/ha
ESTABLISHING		
Seed	25 kg	990
Fertilizer 2.3.2(22)ZN	213 kg	3914
UAN 32	208 kg	1826
ELECTRICITY		4280
MACHINERY		1148
TOTAL EXPENSES		R 12 158

Dry material:

18 ton/ha

Rand per hectare for:	Sugar graze	
		R/ha
ESTABLISHING		
Seed	12 kg	912
Fertilizer 3.2.1(25)ZN	200 kg	3034
KAN	196 Kg	2026
MACHINERY		1771
TOTAL EXPENSES		R 7 742

Dry material:

10 ton/ha



SENSITIVITY ANALYSES

TABLE 1: SENSITIVITY OF EXTENSIVE MUTTON/WOOL SHEEP ON CROP RESIDUE PER SSU

Yield (Lamb %)	Price/Weaned lamb + wool included						
	1 620	1 720	1 820	1 920	2 020	2 120	2 220
70	317	387	457	527	597	667	737
80	479	559	639	719	799	879	959
90	641	731	821	911	1001	1091	1181
100	803	903	1003	1103	1203	1303	1403
110	965	1075	1185	1295	1405	1515	1625
120	1127	1247	1367	1487	1607	1727	1847
130	1289	1419	1549	1679	1809	1939	2069
140	1451	1591	1731	1871	2011	2151	2291
150	1613	1763	1913	2063	2213	2363	2513
Totale uitgawes							817

TABLE 2: SENSITIVITY OF BEEF CATTLE PER LSU

Yield	Price/Weaned calf						
	9050	9200	9350	9500	9650	9800	9950
60	1972	2062	2152	2242	2332	2422	2512
65	2424	2522	2619	2717	2814	2912	3009
70	2877	2982	3087	3192	3297	3402	3507
75	3329	3442	3554	3667	3779	3892	4004
80	3782	3902	4022	4142	4262	4382	4502
85	4234	4362	4489	4617	4744	4872	4999
90	4687	4822	4957	5092	5227	5362	5497
95	5139	5282	5424	5567	5709	5852	5994
100	5592	5742	5892	6042	6192	6342	6492
Total expenditure							3459

TABLE 3: SENSITIVITY OF INTENSIVE MUTTON/WOOL SHEEP (8 MONTHS LAMBING) PER SSU

Yield (Lamb %)	Price/Weaned lamb + wool included						
	1 104	1 204	1 304	1 404	1 504	1 604	1 704
100	-1535	-1435	-1335	-1235	-1135	-1035	-935
110	-1425	-1315	-1205	-1095	-985	-875	-765
120	-1314	-1194	-1074	-954	-834	-714	-594
130	-1204	-1074	-944	-814	-684	-554	-424
140	-1093	-953	-813	-673	-533	-393	-253
150	-983	-833	-683	-533	-383	-233	-83
160	-873	-713	-553	-393	-233	-73	87
170	-762	-592	-422	-252	-82	88	258
180	-652	-472	-292	-112	68	248	428
Total expenditure							2639

TABLE 4: SENSITIVITY OF WHEAT (Dry land) PER HA

Yield (ton/ha)	Price/ton						
	6225	6425	6625	6825	7025	7225	7425
1.00	-3212	-3012	-2812	-2612	-2412	-2212	-2012
1.25	-1656	-1406	-1156	-906	-656	-406	-156
1.50	-100	200	500	800	1100	1400	1700
1.75	1457	1807	2157	2507	2857	3207	3557
2.00	3013	3413	3813	4213	4613	5013	5413
2.25	4569	5019	5469	5919	6369	6819	7269
2.50	6125	6625	7125	7625	8125	8625	9125
2.75	7682	8232	8782	9332	9882	10432	10982
3.00	9238	9838	10438	11038	11638	12238	12838
Total expenditure							9437

SENSITIVITY ANALYSES (Continued)

TABLE 5: SENSITIVITY OF WHEAT (Irrigation) PER HA

Yield (ton/ha)	Price/ton						
	6225	6425	6625	6825	7025	7225	7425
3.00	-6215	-5615	-5015	-4415	-3815	-3215	-2615
3.50	-3102	-2402	-1702	-1002	-302	398	1098
4.00	10	810	1610	2410	3210	4010	4810
4.50	3123	4023	4923	5823	6723	7623	8523
5.00	6235	7235	8235	9235	10235	11235	12235
5.50	9348	10448	11548	12648	13748	14848	15948
6.00	12460	13660	14860	16060	17260	18460	19660
6.50	15573	16873	18173	19473	20773	22073	23373
7.00	18685	20085	21485	22885	24285	25685	27085
Total expenditure							24890

TABLE 6: SENSITIVITY OF POTATOES (Dry land) PER HA

Yield (bag/ha)	Price/10kg bag						
	44.00	46.00	48.00	50.00	52.00	54.00	56.00
750	-33249	-31749	-30249	-28749	-27249	-25749	-24249
1000	-26559	-24559	-22559	-20559	-18559	-16559	-14559
1250	-19870	-17370	-14870	-12370	-9870	-7370	-4870
1500	-13180	-10180	-7180	-4180	-1180	1820	4820
1750	-6490	-2990	510	4010	7510	11010	14510
2000	199	4199	8199	12199	16199	20199	24199
2250	6889	11389	15889	20389	24889	29389	33889
2500	13579	18579	23579	28579	33579	38579	43579
2750	20268	25768	31268	36768	42268	47768	53268
Total expenditure					17.24	10024	43294
					Variable	Allotted	Direct

TABLE 7: SENSITIVITY OF POTATOES (Irrigation) PER HA

Yield (bag/ha)	Price/10kg bag						
	44.00	45.50	47.00	48.50	50.00	51.50	53.00
2500	-31043	-27293	-23543	-19793	-16043	-12293	-8543
3000	-17664	-13164	-8664	-4164	336	4836	9336
3500	-4285	965	6215	11465	16715	21965	27215
4000	9095	15095	21095	27095	33095	39095	45095
4500	22474	29224	35974	42724	49474	56224	62974
5000	35853	43353	50853	58353	65853	73353	80853
5500	49233	57483	65733	73983	82233	90483	98733
6000	62612	71612	80612	89612	98612	107612	116612
6500	75991	85741	95491	105241	114991	124741	134491
Total expenditure					17.24	12098	85842
					Variable	Allotted	Direct

TABLE 8: SENSITIVITY OF DRY BEANS PER HA

Yield (ton/ha)	Price/ton						
	18500	19000	19500	20000	20500	21000	21500
0.25	-20209	-20084	-19959	-19834	-19709	-19584	-19459
0.50	-15584	-15334	-15084	-14834	-14584	-14334	-14084
0.75	-10959	-10584	-10209	-9834	-9459	-9084	-8709
1.00	-6334	-5834	-5334	-4834	-4334	-3834	-3334
1.25	-1709	-1084	-459	166	791	1416	2041
1.50	2916	3666	4416	5166	5916	6666	7416
1.75	7541	8416	9291	10166	11041	11916	12791
2.00	12166	13166	14166	15166	16166	17166	18166
2.25	16791	17916	19041	20166	21291	22416	23541
Total expenditure							24834

SENSITIVITY ANALYSES (Continued)

TABLE 9: SENSITIVITY OF MAIZE (Dry land) PER HA

Yield (ton/ha)	Price/ton							
	3984	4084	4184	4284	4384	4484	4584	
3.00	-3150	-2850	-2550	-2250	-1950	-1650	-1350	
3.40	-1557	-1217	-877	-537	-197	143	483	
3.80	37	417	797	1177	1557	1937	2317	
4.20	1631	2051	2471	2891	3311	3731	4151	
4.60	3224	3684	4144	4604	5064	5524	5984	
5.00	4818	5318	5818	6318	6818	7318	7818	
5.40	6411	6951	7491	8031	8571	9111	9651	
5.80	8005	8585	9165	9745	10325	10905	11485	
6.20	9599	10219	10839	11459	12079	12699	13319	
Total expenditure								15102

TABLE 10: SENSITIVITY OF MAIZE (Irrigation) PER HA

Yield (ton/ha)	Price/ton							
	3984	4084	4184	4284	4384	4484	4584	
6.00	-4453	-3853	-3253	-2653	-2053	-1453	-853	
7.00	-469	231	931	1631	2331	3031	3731	
8.00	3515	4315	5115	5915	6715	7515	8315	
9.00	7499	8399	9299	10199	11099	11999	12899	
10.00	11483	12483	13483	14483	15483	16483	17483	
11.00	15467	16567	17667	18767	19867	20967	22067	
12.00	19451	20651	21851	23051	24251	25451	26651	
13.00	23435	24735	26035	27335	28635	29935	31235	
14.00	27419	28819	30219	31619	33019	34419	35819	
Total expenditure								28357

TABLE 11: SENSITIVITY OF SUNFLOWER PER HA

Yield (ton/ha)	Price/ton							
	9057	9307	9557	9807	10057	10307	10557	
0.50	-4449	-4324	-4199	-4074	-3949	-3824	-3699	
0.75	-2185	-1997	-1810	-1622	-1435	-1247	-1060	
1.00	79	329	579	829	1079	1329	1579	
1.25	2344	2656	2969	3281	3594	3906	4219	
1.50	4608	4983	5358	5733	6108	6483	6858	
1.75	6872	7310	7747	8185	8622	9060	9497	
2.00	9136	9636	10136	10636	11136	11636	12136	
2.25	11401	11963	12526	13088	13651	14213	14776	
2.50	13665	14290	14915	15540	16165	16790	17415	
Total expenditure								8978

TABLE 12: SENSITIVITY OF SOYA BEANS PER HA

Yield (ton/ha)	Price/ton							
	7825	8125	8425	8725	9025	9325	9625	
0.75	-4749	-4524	-4299	-4074	-3849	-3624	-3399	
1.00	-2793	-2493	-2193	-1893	-1593	-1293	-993	
1.25	-837	-462	-87	288	663	1038	1413	
1.50	1120	1570	2020	2470	2920	3370	3820	
1.75	3076	3601	4126	4651	5176	5701	6226	
2.00	5032	5632	6232	6832	7432	8032	8632	
2.25	6988	7663	8338	9013	9688	10363	11038	
2.50	8945	9695	10445	11195	11945	12695	13445	
2.75	10901	11726	12551	13376	14201	15026	15851	
Total expenditure								10618

SENSITIVITY ANALYSES (Continued)

TABLE 13: SENSITIVITY OF SORGHUM PER HA

Yield (ton/ha)	Price/ton						
	4259	4359	4459	4559	4659	4759	4859
1.90	-4414	-4224	-4034	-3844	-3654	-3464	-3274
2.30	-2710	-2480	-2250	-2020	-1790	-1560	-1330
2.70	-1007	-737	-467	-197	73	343	613
3.10	697	1007	1317	1627	1937	2247	2557
3.50	2401	2751	3101	3451	3801	4151	4501
3.90	4104	4494	4884	5274	5664	6054	6444
4.30	5808	6238	6668	7098	7528	7958	8388
4.70	7511	7981	8451	8921	9391	9861	10331
5.10	9215	9725	10235	10745	11255	11765	12275
Total expenditure							12506