



LIVESTOCK ENTERPRISE BUDGET DIGITAL BOOK



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Livestock Enterprise Budget

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I. Dairy Production System

Dairy Production System For A 100 Breeding Cow Herd

I. GROSS INCOME

I. a) CAPITAL INCOME FROM LIVESTOCK SALES

Description	Average A.U.	Average No. Animals	Value per Unit	Total Value	Total Average Value per A.U.	Number Sold	Price per Unit Sold	Value of Sales	TOTAL VALUE OF ANIMALS			
			(R)	(R)			(R)	(R)	Per A.U. (R)	Per Cow (R)	Per Litre Milk Product (R/L)	Per Ha FPF (R)
Cows	120	120	17 500	2 100 000		28	12 500	350 000	19 868,42	31 458,33	5,46	35 230,98
Heifers 2 years & over	28	28	14 500	406 000	(R)	10	14 500	145 000				
Heifers 1 - 2 years	24	48	13 500	648 000		10	13 500	135 000				
Heifers 0 -1 years	18	54	11 500	621 000					TOTAL VALUE OF ANIMAL SALES (CAPITAL INCOME)			
TOTAL VALUE OF ANIMALS	190	250	57 000		19 868,42				Per A.U. (R)	Per Cow (R)	Per Litre Milk Product (R/L)	Per Ha FPF (R)
TOTAL VALUES OF SALES (CAPITAL INCOME)						48		630 000	3 315,79	5 250,00	0,91	5 879,61

I. b) PRODUCT INCOME FROM MILK SALES

Average Number	Litres Milk per	Total Milk	Milk	Total Value of	Milk Used by Calves		Milk Sold						
Cows in Milk	Cow in Herd	Pro-duced	Price	Milk Produced	Qty	Value	Qty	Value					
per Month	per Year	(L)	(R/L)	(R)	(L)	(R)	(L)	(R)	TOTAL VALUE OF MILK SALES (PRODUCT INCOME)				
120	5763	691 580	6,10	4 218 639	648	3 953	690 932	4 214 686	Per A.U. (R)	Per Cow (R)	Per Litre Milk Product (R/L)	Per Ha FPF (R)	
TOTAL PRODUCT INCOME: TOTAL VALUE OF MILK PRODUCED (MILK SOLD + MILK USED) 4 218 639									22 203,36	35 155,32	6,10	39 371,34	
GROSS INCOME (CAPITAL + PRODUCT INCOME)									TOTAL	Per A.U. (R)	Per Cow (R)	Per Litre Milk Product (R/L)	Per Ha FPF (R)
									4 848 639	25 519,15	40 405,32	7,01	45 250,94

2. a) FARM PRODUCED FEED COSTS

NON-MARKETABLE FARM PRODUCED FEEDS

Description	Yield (T/ Ha)	Qty required (T)	Ha Required	Cost/ha	Cost/ton	Total Cost (R)				
Kikuyu grazing : Dryland	10,00	440,00	44,00	12 521,02	1252,10	550 925				
Italian Ryegrass grazing : Dryland	10,00	315,00	31,50	27 173,70	1506,20	855 972	NON-MARKETABLE FARM PRODUCED FEED COSTS			
Maize Silage : Dryland	10,50	147,00	14,00	25 809,00	896,43	361 326	Per A.U. (R)	Per Cow (R)	Per Litre Milk Product (R/L)	Per Ha FPF (R)
Japanese Radish : Dryland	4,00	41,00	10,25	13 386,71	3346,68	137 214				
TOTAL NON-MARKETABLE FARM PRODUCED FEED		943,00	99,75			1 905 436	10 028,61	15 878,64	2,76	17 782,89

2. b) FARM PRODUCED FEED COSTS : MARKETBLE AND NON-MARKETABLE

						TOTAL FARM PRODUCED FEED COSTS			
						Per A.U. (R)	Per Cow (R)	Per Litre Milk Product (R/L)	Per Ha FPF (R)
TOTAL FARM PRODUCED FEED COSTS	Total Area (A)	107,15		Total Cost	2 097 210	11 037,95	17 476,75	3,03	19 572,66

2. c) PURCHASED FEED COSTS									
Description	Qty required (kg)		Price (R/unit)	Unit	Total Cost (R)				
Milk Substitute		1000	1375,99	20 kg	55 040				
Calf Starter		4000	7455,39	ton	29 822				
Calf Growth		16 000	6823,00	ton	109 168				
Concentrate: Heifers 2 years		3500	7188,25	ton	25 159				
Concentrate: Dry cows		5000	7245,25	ton	36 226				
Concentrate: Cows in milk		201 648	6988,52	ton	1 409 221				
Mineral lick		2300	198,59	25 kg	18 270	Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
Transport on Purchased Feed	Total Tons	233,45	355,00	ton	82 874				
TOTAL PURCHASED FEED COSTS						9293,58	14 714,83	2,55	16 479,51

3. FARM PRODUCED FEED AND PURCHASED FEED COSTS	TOTAL FEED COSTS				
		Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
TOTAL FEED COSTS (FARM PRODUCED FEED COSTS + PURCHASED FEED COSTS)	3 862 990	20 331,53	32 191,58	5,59	36 052,17

4. OTHER COSTS								
Description				Total Cost (R)				
Veterinary Services and Stock Remedies	Cows in herd	1	15 900,00	15 900				
Artificial Insemination	Cows in herd	120	94,25	11 310				
Marketing Cost of Livestock Sales	% of total income	7%	751 140,00	52 580	Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
Miscellaneous Expenditure	Cows in herd	120	6750,00	810 000				
TOTAL OTHER COSTS				889 790	4 683,10	7 414,92	1,29	8 304,15
TOTAL COSTS				4 752 780	25 014,63	39 606,50	6,87	

5. TOTAL INCOME						
INCOME	Total	Per A.U.	Per Cow	Per Litre Total Milk Produced	Per Ha FPF	Per Rand Purchased Feed
	(R)	(R)	(R)	(R/L)	(R)	(R)
Income from Animal Sales (Capital Income)	630 000	3 315,79	5250,00	0,91	5879,61	0,36
Income from Milk Sales (Product Income) 1)	4 218 639	22 203,36	35 155,32	6,10	39 371,34	2,39
TOTAL INCOME (a)	4 848 639	25 519,15	40 405,32	7,01	45 250,94	2,75

6. TOTAL COSTS						
COSTS	Total	Per A.U.	Per Cow	Per Litre Total Milk Produced	Per Ha FPF	Per Rand Purchased Feed
	(R)	(R)	(R)	(R/L)	(R)	(R)
Home produced feeds	2 097 210	11 037,95	17 476,75	3,03	19 572,66	1,19
Purchased feeds	1 765 780	9 293,58	14 714,83	2,55	16 479,51	1,00
Other costs	889 790	4683,10	7414,92	1,29	8 304,15	0,50
TOTAL COSTS (b)	4 752 780	25 014,63	39 606,50	6,87	44 356,32	2,69

7. GROSS MARGIN						
GROSS MARGIN	Total	Per A.U.	Per Cow	Per Litre Total Milk Produced	Per Ha FPF	Per Rand Purchased Feed
	(R)	(R)	(R)	(R/L)	(R)	(R)
Total Income (a)	4 848 639	25 519,15	40 405,32	7,01	45 250,94	2,75
Total Costs (b)	4 752 780	25 014,63	39 606,50	6,87	44 356,32	2,69
GROSS MARGIN (a - b)	95 859	504,52	798,82	0,14	894,62	0,05

2. Dairy Production System

DAIRY PRODUCTION SYSTEM FOR A 100 BREEDING COW HERD

I. GROSS INCOME												
I. a) CAPITAL INCOME FROM LIVESTOCK SALES												
Description	Average A.U.	Average No. Animals	Value per Unit	Total Value	Total Average Value per A.U.	Number Sold	Price per Unit Sold	Value of Sales	TOTAL VALUE OF ANIMALS			
			(R)	(R)			(R)	(R)	Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
Cows	120	120	17 500	2 100 000		28	12 500	350 000	19 868,42	31 458,33	5,46	35 230,98
Heifers 2 years & over	28	28	14 500	406 000	(R)	10	14 500	145 000				
Heifers 1 - 2 years	24	48	13 500	648 000		10	13 500	135 000				
Heifers 0 - 1 years	18	54	11 500	621 000								
TOTAL VALUE OF ANIMALS	190	250	57 000	3 775 000	19 868,42				Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
TOTAL VALUES OF SALES (CAPITAL INCOME)						48		630 000	3 315,79	5 250,00	0,91	5 879,61
I. b) PRODUCT INCOME FROM MILK SALES												
Average Number	Litres Milk per	Total Milk	Milk	Total Value of	Milk Used by Calves		Milk Sold					
Cows in Milk	Cow in Herd	Produced	Price	Milk Produced	Qty	Value	Qty	Value				
per Month	per Year	(L)	(R/L)	(R)	(L)	(R)	(L)	(R)	TOTAL VALUE OF MILK SALES (PRODUCT INCOME)			
120	5763	691 580	6,10	4 218 639	648	3953	690 932	4 214 686	Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
TOTAL PRODUCT INCOME : TOTAL VALUE OF MILK PRODUCED (MILK SOLD + MILK USED)								4 218 639	22 203,36	35 155,32	6,10	39 371,34
GROSS INCOME (CAPITAL + PRODUCT INCOME)								TOTAL	Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
								4 848 639	25 519,15	40 405,32	7,01	45 250,94

2. FEED COSTS

2. a) FARM PRODUCED FEED COSTS

MARKETABLE FARM PRODUCED FEEDS

Description	Yield (T/ Ha)	Qty required		Ha Required	Cost (R/ Litre)	Cost (R/ Ha)	Total Cost (R)	MARKETABLE FARM PRODUCED FEED COSTS			
Whole milk (litres)		648,00	litres		6,60		4 276,80	Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
Eragrostis hay : Dryland	10,00	74,00	Ton	7,40			187 497,24				
TOTAL MARKETABLE FARM PRODUCED FEED				7,40				1 009,34	1 598,12	0,28	1 879,77

2. a) FARM PRODUCED FEED COSTS

NON-MARKETABLE FARM PRODUCED FEEDS

Description	Yield (T/ Ha)		Qty required (T)	Ha Required	Cost/ha	Cost/ton	Total Cost (R)				
Kikuyu grazing : Dryland	10,00		440,00	44,00	12 521,02	1 252,10	550 925				
Italian Ryegrass grazing : Dryland	10,00		315,00	31,50	27 173,70	1 506,20	855 972	NON-MARKETABLE FARM PRODUCED FEED COSTS			
Maize Silage : Dryland	10,50		147,00	14,00	25 809,00	896,43	361 326	Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
Japanese Radish : Dryland	4,00		41,00	10,25	13 386,71	3 346,68	137 214				
TOTAL NON-MARKETABLE FARM PRODUCED FEED			943,00	99,75			1 905 436	10 028,61	15 878,64	2,76	17 782,89

3. FARM PRODUCED FEED AND PURCHASED FEED COSTS		TOTAL FEED COSTS			
		Per A.U. (R)	Per Cow (R)	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
TOTAL FEED COSTS (FARM PRODUCED FEED COSTS + PURCHASED FEED COSTS)	3 862 990	20 331,53	32 191,58	5,59	36 052,17

4. OTHER COSTS						
Description	Item / Quantity / Price			Total Cost (R)		
Veterinary Services and Stock Remedies	Cows in herd	1	15 900,00	15 900		
Artificial Insemination	Cows in herd	120	94,25	11 310	OTHER COSTS	
Marketing Cost of Livestock Sales	% of total income	7%	751 140,00	52 580	Per A.U. (R)	Per Cow (R)
Miscellaneous Expenditure	Cows in herd	120	6750,00	810 000	Per Litre Milk Produced (R/L)	Per Ha FPF (R)
TOTAL OTHER COSTS				889 790	4 683,10	7 414,92
					1,29	8 304,15
TOTAL COSTS				4 752 780		39 606,50
					6,87	44 356,32

5. TOTAL INCOME						
INCOME	Total (R)	Per A.U. (R)	Per Cow (R)	Per Litre Total Milk Produced (R/L)	Per Ha FPF (R)	Per Rand Purchased Feed (R)
Income from Animal Sales (Capital Income)	630 000	3315,79	5250,00	0,91	5879,61	0,36
Income from Milk Sales (Product Income) I)	4 218 639	22 203,36	35 155,32	6,10	39 371,34	2,39
TOTAL INCOME (a)	4 848 639	25 519,15	40 405,32	7,01	45 250,94	2,75

6. TOTAL COSTS						
COSTS	Total (R)	Per A.U. (R)	Per Cow (R)	Per Litre Total Milk Produced (R/L)	Per Ha FPF (R)	Per Rand Purchased Feed (R)
Home produced feeds	2 097 210	11 037,95	17 476,75	3,03	19 572,66	1,19
Purchased feeds	1 765 780	9 293,58	14 714,83	2,55	16 479,51	1,00
Other costs	889 790	4 683,10	7 414,92	1,29	8 304,15	0,50
TOTAL COSTS (b)	4 752 780	25 014,63	39 606,50	6,87	44 356,32	2,69

7. GROSS MARGIN						
GROSS MARGIN	Total (R)	Per A.U. (R)	Per Cow (R)	Per Litre Total Milk Produced (R/L)	Per Ha FPF (R)	Per Rand Purchased Feed (R)
Total Income (a)	4 848 639	25 519,15	40 405,32	7,01	45 250,94	2,75
Total Costs (b)	4 752 780	25 014,63	39 606,50	6,87	44 356,32	2,69
GROSS MARGIN (a - b)	95 859	504,52	798,82	0,14	894,62	0,05

DATA SOURCE: DALRRD, VKB, GWK, NAMC, WC AGRIC & KZN AGRIC; SAMPRO & MPO



3. EXTENSIVE FIELD SHEEP PRODUCTION: 8 Months Weaner System



EXTENSIVE FIELD SHEEP PRODUCTION: 8 Months Weaner System (Fieldmarket) Dorper

SSU contribute effect of farm	1000
SSU Factor (Ewe with lamb & ram)	2
Number of ewes	625
Ram percentage	3%
Number of rams	19
3 lambing seasons in 2 years: 1.5 lamb per year per ewe	2
Weaning percentage	80%
Number of Lambs per year	750
Percentage replacement	20%
Percentage tailings rams	20%
Herd death percentage	2%
Clean wool yield / kg	5,60
Clean wool price: R/kg	R160,00
Average micron sheared	18
Live weight of ewe (Cull)	55
Live weight of ram (Cull)	65
Live weight of lamb (weaned)	45
Slaughter percentage (Lamb)	46%
Price per kg slaughter (R/kg) ram	R58,00
Price per kg slaughter (R/kg) ewe	R65,00
Price per kg slaughter (R/kg) weaner	R86,00
Sales per ewe (lamb, replacement ewes ans rams)	1

System: Extensive Field Sheep Production - 8 Months: EXTENSIVE FIELD SHEEP PRODUCTION: 8 Months Weaner System (Fieldmarket) Dorper							
Budget Income	Unit	Mass	Amount	Price R/kg	Total income	Income per SSU	Incoem per ewe
Culled rams - slaughter	kg	30	4	R58,00	R6503,25	R4,50	R7,20
Replacement ewe - slaughter	kg	25	155	R65,00	R254 897,50	R186,00	R297,60
Weaning ewe	kg	21	330	R86,00	R587 466,00	R396,00	R633,60
Weaning rams	kg	21	405	R86,00	R720 981,00	R486,00	R777,60
Gross Production Value		97	894	74	R1 569 847,75	R1072,50	R1716,00

Directly Attributable Variable Costs									
Direct Inputs	Product	Unit/ Packaging	g/ml	Applica- tion g/ml	Price/unit	Price per g/ml	Total costs	Total costs per SSU	Total cost per Ewe
Vaccination									
	Blood Kidney	100ml	100	1	R195,89	1,96	R1958,90	R1,96	R3,13
	Pasteurella	100ml	100	2	R5258,00	52,58		R105,16	R168,26
	Swayback	100ml	100	2	R857,00	8,57	R17 140,00	R17,14	R27,42
	RVF	100ml	100	1	R785,00	7,85	R7850,00	R7,85	R12,56
Dosage									
	Albendazole/ Clasantel/ Mebendazole	5lt	5000	10	R2746,00	0,55	R5492,00	R5,49	R8,79
	Praziquantel	5lt	5000	10	R1698,00	0,34	R3396,00	R3,40	R5,43
	Niclasamide	5lt	5000	10	R2414,00	0,48	R4828,00	R4,83	R7,72
Dip									
	Dip / pour	6lt	6000	5	R3755,00	0,63	R3129,17	R3,13	R5,01
Total Vaccination					R17 708,89	R72,96		R148,95	R238,33

Directly attributable variable costs	Discription					Total Cost per annum	Total cost per SSU	Total Cost per ewe	
Ram Purchases	6 Rams over a 3 year period					R45 000,00	R45,00	R72,00	
Ewe purchases	Buy 8 young ewes over a year period					R19 600,00	R19,60	R31,36	
Repairs and maintainance	Includes: Troughs, fence, windmill, dams					R12 359,00	R12,36	R19,77	
Fuel	Given producer living in the vecinity					R72 542,78	R72,54	R116,07	
Veterinary	An average of 2 visit a year					R5784,25	R5,78	R9,25	
Vermin control	Includes: Hunter, trap, poison, unforseen					R35 472,35	R35,47	R56,76	
Fixed labour	Includes: 2 worker, bonuses, unexpected					R203 540,00	R203,54	R325,66	
Consumer items	Management, label, brand					R1952,31	R1,95	R3,12	
Total Directly Attributable Variable Costs			R396 250,69	R396,25	R0,00	R0,00	R396 250,69	R396,25	R634,00

Direct Inputs	Product	Unit Packing	g/ml	Application g/ml	Price per unit	Price Per g/ml	Total Costs per year	Total Costs per SSU	Total Costs per ewe
Feeding									
If nutrition is given the daily cost per ewe and SSU:	Concentration (maize) 6 salective months	1 Ton	1000000	200	R847,00	R0,001	R28 233,33	R28,23	R45,17
	Winter lick	50Kg	50000	110	R437,95	R0,009	R175 836,93	R175,84	R281,34
	Summer lick	50Kg	50000	25	R527,67	R0,011	R48 149,89	R48,15	R77,04
Total Cost supplement							R252 220,15	R252,22	R403,55
Total all variable costs							R797 424,90	R797,42	R641,88
Gross Margin							R520 202,70	R22,85	R670,57

DATA SOURCE: DALRRD, VKB, GWK, NAMC, WC AGRIC & KZN AGRIC

4.

EXTENSIVE FIELD SHEEP PRODUCTION: 8 Months Weaner System

EXTENSIVE FIELD SHEEP PRODUCTION: 8 Months weaner system (Fieldmarket) Dorper	
SSU contribute effect of farm	1000
SSU Factor (Ewe with lamb & ram)	2
Number of ewes	625
Ram percentage	3%
Number of rams	19
3 lambing seasons in 2 years: 1.5 lamb per year per ewe	2
Weaning percentage	80%
Number of Lambs per year	750
Percentage replacement	20%
Percentage tailings rams	20%
Herd death percentage	2%
Clean wool yield / kg	5,60
Clean wool price: R/kg	R 160,00
Average micron sheared	18
Live weight of ewe (Cull)	55
Live weight of ram (Cull)	65
Live weight of lamb (weaned)	45
Slaughter percentage (Lamb)	46%
Price per kg slaughter (R/kg) ram	R58,00
Price per kg slaughter (R/kg) ewe	R65,00
Price per kg slaughter (R/kg) weaner	R86,00
Sales per ewe (lamb, replacement ewes and rams)	1

Directly Attributable Variable Costs									
Direct Inputs	Product	Unit/ Packaging	g/ml	Applica- tion g/ml	Price/unit	Price per g/ml	Total costs	Total costs per SSU	Total cost per Ewe
Vaccination									
	Blood Kidney	100ml	100	1	R195,89	1,96	R1958,90	R1,96	R3,13
	Pasteurella	100ml	100	2	R5258,00	52,58	R105 160,00	R105,16	R168,26
	Swayback	100ml	100	2	R857,00	8,57	R17 140,00	R17,14	R27,42
	RVF	100ml	100	1	R785,00	7,85	R7850,00	R7,85	R12,56
Dosage									
	Albendazole/Clas- antel/Mebendazole	5lt	5000	10	R2746,00	0,55	R5492,00	R5,49	R8,79
	Praziquantel	5lt	5000	10	R1698,00	0,34	R3396,00	R3,40	R5,43
	Niclasamide	5lt	5000	10	R2414,00	0,48	R4828,00	R4,83	R7,72
Dip									
	Dip / pour	6lt	6000	5	R3755,00	0,63	R3129,17	R3,13	R5,01
Total Vaccination						R72,96		R148,95	R238,33



Directly attributable variable costs	Discription					Total Cost per annum	Total cost per SSU	Total Cost per ewe
Ram Purchases	6 Rams over a 3 year period					R45 000,00	R45,00	R72,00
Ewe purchases	Buy 8 young ewes over a year period					R19 600,00	R19,60	R31,36
Repairs and maintainance	Includes: Troughs, fence, windmill, dams					R12 359,00	R12,36	R19,77
Fuel	Given producer living in the vecinity					R72 542,78	R72,54	R116,07
Veterinary	An average of 2 visit a year					R5 784,25	R5,78	R9,25
Vermin control	Includes: Hunter, trap, poison, unforeseen					R35 472,35	R35,47	R56,76
Fixed labour	Includes: 2 worker, bonuses, unexpected					R203 540,00	R203,54	R325,66
Consumer items	Management, label, brand					R1952,31	R1,95	R3,12
Total Directly Attributable Variable Costs		R396 250,69	R396,25	R0,00	R0,00	R396 250,69	R396,25	R634,00

Direct Inputs	Product	Unit Packing	g/ml	Application g/ml	Price per unit	Price Per g/ml	Total Costs per year	Total Costs per SSU	Total Costs per ewe
Feeding									
If nutrition is given the daily cost per ewe and SSU:	Concentration (maize) 6 salective months	1 Ton	1000000	200	R847,00	R0,001	R28 233,33	R28,23	R45,17
	Winter lick	50Kg	50000	110	R437,95	R0,009	R175 836,93	R175,84	R281,34
	Summer lick	50Kg	50000	25	R527,67	R0,011	R48 149,89	R48,15	R77,04
Total Cost supplement							R252 220,15	R252,22	R403,55
Total all variable costs							R797 424,90	R797,42	R641,88
Gross Margin							R520 202,70	R22,85	R670,57
DATA SOURCE: DALRRD, VKB, GWK, NAMC, WC AGRIC & KZN AGRIC									



5. MERINO - Ewe and Weaner - Production

Merino - Ewe and Weaner - Production - Lucerne Pasture	
Lucerne Yield - Kg per hectare per year	20 000
DM available for feed per hectare (moisture loss and treading damage)	14 000
Quantify Kg DM basis per sheep unit per year (Kg)	1047
Cost of farm produced feed per sheep unit per day	R3,82
Number of sheep units per hectare (ram/lamb/replacement ewe)	13
Cost of farm produced feed per ewe unit per year	R1394,26
Ram percentage	3%
Weaning percentage per ewe per lamb cycle	100%
Weaning percentage per ewe per year (3 lamb seasons per 2 years)	2
Percentage replacement	20%
Percentage ewe lambs culled	10%
Mortality (ewe)	1%
Age lambing in marketing months	5,00
Number of sales per year (lambs, replacement ewe)	1,40
Slaughter percentage	46%
Weaner live weight	45,00
Live weight of ewe (Cull)	55,00
Live weight of ram (Cull)	65,00
Weaner R/Kg	R92,37
Ewe weight kg slaughter	20,70
Ewe R/Kg (B/C grade)	R70,67
Intake per day of body weight	4%
Live weight of ewe	60,00
Avg wool yield per ewe /Kg per year	5,00
Avg wool yield per lamb /Kg per year	1,40
Avg wool yield for the herd expressed by the herds breeding ewes (kg)	6,40
Avg micron shaved	18,00

Calculation of Profitability of Merino - Ewe and Weaner - Production on Lucerne Pasture						
Budget Income	Unit	Mass	Amount	Price R/kg	Total income/ha	Income per ewe
Gross Sales						
Ram weaner slaughtered	kg	29,90	0,700	R70,50	R 19 182,35	R 1 475,57
Culled ewe weaners slaughtered	kg	25,30	0,700	R70,50	R 16 231,22	R 1 248,56
Ewe weaner slaughtered	kg	20,70	0,430	R92,37	R 10 688,59	R 822,20
Culled ewe slaughtered	kg	20,70	0,200	R70,67	R 3803,63	R 292,59
Total Meat Income (Trading Income)		96,60	2,03		R 49 905,78	R 3 838,91
Wool Income						
Ewe and Lambs	Kg	6,40	13	R 161,33	R 13 422,72	R 1 032,52
Total Wool Income (Product Income)					R 13 422,72	R 1 032,52
Gross Production Value					R 63 328,49	R 4 871,42





Directly Attributable Variable Costs									
Direct Inputs	Product	Unit/ Packaging	g/ml	Applica- tion g/ml	Price/unit	Price per g/ml	Total costs/ ha	Total costs per ewe	
Vaccination									
	Blood Kidney	100ml	100	1	R195,89	R1,96	R25,47	R1,96	
	Pasteurella	100ml	100	2	R5 258,00	R52,58	R1 367,08	R105,16	
	Swayback	100ml	100	1	R857,00	R8,57	R1 111,41	R8,57	
	RVF	100ml	100	2	R785,00	R7,85	R204,10	R15,70	
	Bluetongue	100ml	100	1	R1 378,99	R13,79	R179,27	R13,79	
Dosage									
	Endotape	5lt	5000	10	R2 435,45	R0,49	R63,32	R4,87	
	Prodose orange	5lt	5000	6	R12 395,55	R2,48	R193,37	R14,87	
	Valbazen	5lt	5000	6	R1 878,20	R0,38	R29,30	R2,25	
Dip									
	Dip / pour	6lt	6000	5	R3 755,00	R0,63	R40,68	R3,13	
Total Vaccination						R88,72	R2214,00	R170,31	

Directly attributable variable costs	Discription					Total Cost per ha	Total cost per ewe
Fixed labour	Include: 2 workers, 2 bonuses and unforseen					R1089,13	R83,78
Farm produced feed lucerne	per ha lucerne					R18 125,41	R1394,26
Wool Packaging	Bags and Brackets p/ha					R91,19	R7,01
Fuel	Given producer living in the vecinity					R326,75	R25,13
Shearing costs and marketing costs	per ha					R1621,98	R124,77
Roughage in addition to lucerne	lucerne hay besides the pasture 0,150 g/p/ha					R719,55	R55,35
Additional nutrition (lick and creep feed)	Supplementary for ewe and lambs					R6718,58	R516,81
Veterinarian	An average of 4 visits per year					R88,00	R6,77
Ram expenses	Costs of breeding animals on lucerne pasture					R244,24	R18,79
Consumer items	Management, label					R32,29	R2,48
Repairs and maintain	Wires, troughs and feeding troughs					R35,00	R2,69
Total Directly Attributable Variable Costs		R29 057,12	R2 235,16	R0,00	R0,00	R29 092,12	R2237,86
Total Allocable Variable Costs						R31 306,12	R2408,16
Gross Margin						R32 022,38	R2463,26

DATA SOURCE: DALRRD, VKB, GWK, NAMC, WC AGRIC & KZN AGRIC

6. EXTENSIVE DUAL SHEEP - 8 Months Weaner System

Extensive Dual Sheep - 8 Months Weaner System (Merino)	
SSU contribute effect of farm	1000
SSU Factor (Ewe with lamb & ram)	2
Number of ewes	625
Ram percentage	3%
Number of rams	19
3 lambing seasons in 2 years: 1.5 lamb per year per ewe	2
Weaning percentage	80%
Number of Lambs per year	750
Percentage replacement ewes	20%
Percentage tailings rams	20%
Herd death percentage	2%
Clean wool yield / kg	5,60
Clean wool price: R/kg	R160,00
Average micron sheared	18
Live weight of ewe (Cull)	55
Live weight of ram (Cull)	65
Live weight of lamb (weaned)	45
Slaughter percentage (Lamb)	46%
Price per kg slaughter (R/kg) ram	R59,80
Price per kg slaughter (R/kg) ewe	R70,67
Price per kg slaughter (R/kg) weaner	R87,43
Sales per ewe (lamb, replacement ewes ans rams)	1

System: Extensive field sheep production - 8 months							
Budget Income	Unit	Mass	Amount	Price R/kg	Total income	Income per SSU	Incoem per ewe
Culled rams - slaughter	kg	30	4	R59,80	R6 705,59	R4,50	R7,20
Replacement ewe - slaughter	kg	25	125	R70,67	R223 503,85	R150,00	R240,00
Weaning ewe	kg	21	330	R87,43	R597 218,57	R396,00	R633,60
Weaning rams	kg	21	405	R87,43	R732 950,06	R486,00	R777,60
Total Meat Income (Trading Income)					R1 560 378,07	R1036,50	R1658,40
Wool Income							
Ewe and Lambs	Kg	6	1000	R160,00	R896 000,00	R896,00	R1433,60
Total Wool Income (Product Income)					R896 000,00	R896,00	R1433,60

Directly Attributable Variable Costs									
Direct Inputs	Product	Unit/ Packaging	g/ml	Applica- tion g/ml	Price/unit	Price per g/ml	Total costs	Total costs per SSU	Total cost per Ewe
Vaccination									
	Blood Kidney	100ml	100	1	R195,89	R1,96	R1958,90	R1,96	R3,13
	Pasteurella	100ml	100	2	R5Ê258,00	R52,58	R105 160,00	R105,16	R168,26
	Swayback	100ml	100	2	R857,00	R8,57	R17 140,00	R17,14	R27,42
	RVF	100ml	100	1	R785,00	R7,85	R7850,00	R7,85	R12,56
Dosage									
	Albendazole/ Clasantel/Mebendazole	5lt	5000	10	R2746,00	0,55	R5492,00	R5,49	R8,79
	Praziquantel	5lt	5000	10	R1698,00	0,34	R3396,00	R3,40	R5,43
	Niclasamide	5lt	5000	10	R2414,00	0,48	R4828,00	R4,83	R7,72
Dip									
	Dip / pour	6lt	6000	5	R3755,00	0,63	R3129,17	R3,13	R5,01
Total Vaccination						R72,96		R148,95	R238,33

Directly attributable variable costs	Description					Total Cost per annum	Total cost per SSU	Total Cost per ewe
Ram Purchases	6 Rams over a 3 year period					R4291,80	R4,29	R6,87
Ewe purchases	Buy 8 young ewes over a year period					R10 377,60	R10,38	R16,60
Repairs and maintainance	Includes: Troughs, fence, windmill, dams					R12 000,00	R12,00	R19,20
Fuel	Given producer living in the vecinity					R5 2280,58	R52,28	R83,65
Veterinary	An average of 2 visit a year					R4000,00	R4,00	R6,40
Vermin control	Includes: Hunter, trap, poison, unforeseen					R27 816,93	R27,82	R44,51
Fixed labour	Includes: 2 worker, bonuses, unexpected					R108 912,50	R108,91	R174,26
Wool Packaging	Bags and Brackets					R4 261,07	R4,26	R6,82
Shaving costs and marketing costs	per ewe					R75 794,61	R75,79	R121,27
Consumer items	Management, label, brand					R1552,31	R1,55	R2,48
Total Directly Attributable Variable Costs			R301,29	R0,00	R0,00	R301 287,40	R301,29	R482,06

Direct Inputs	Product	Unit Packing	g/ml	Applica-tion g/ml	Price per unit	Price Per g/ml	Total Costs per year	Total Costs per SSU	Total Costs per ewe
Feeding									
If nutrition is given the daily cost per ewe and SSU:	Concentration (maize) 6 salective months	1 Ton	1000000	200	R847,00	R0,001	R28 233,33	R28,23	R45,17
	Winter lick	50Kg	50000	110	R437,95	R0,009	R175 836,93	R175,84	R281,34
	Summer lick	50Kg	50000	25	R527,67	R0,011	R48 149,89	R48,15	R77,04
Total Cost supplement							R252 220,15	R252,22	R403,55
Total all variable costs							R702 461,61	R702,46	R641,88
Gross Margin							R1 501 696,31	R977,82	R2 046,57
DATA SOURCE: DALRRD,VKB, GWK, NAMC,WC AGRIC & KZN AGRIC									



7. Merino & Lamb production under Grass Clover Pasture (from year 1)



Merino - Ewe and Weaner - Production - Grass Clover Pasture (from year 1)	
Lucerne Yield - Kg per hectare per year	20 000
DM available for feed per hectare (moisture loss and treading damage)	15 000
Quantify Kg DM basis per sheep unit per year (Kg)	1047
Cost of farm produced feed per sheep unit per day	R7,79
Number of sheep units per hectare (ram/lamb/replacement ewe)	14
Cost of farm produced feed per ewe unit per year	R2842,90
Number of lamb cycle per year per hectare	2
Ram percentage	3%
Weaning percentage per ewe per lamb cycle	100%
Weaning percentage per ewe per year (3 lamb seasons per 2 years)	2
Percentage replacement	20%
Percentage ewe lambs culled	10%
Mortality (ewe)	1%
Age lambing in marketing months	5,00
Number of sales per year (lambs, replacement ewe)	1,40
Slaughter percentage (Lamb)	46%
Live weight of ewe (Cull)	55
Live weight of ram (Cull)	65
Weaner slaughter/Kg	R87,43
Weaner R/Kg	45,00
Ewe weight kg slaughter	27,60
Ewe R/Kg (B/C grade)	R75,24
Intake per day of body weight	4%
Live weight of ewe	60,00
Avg wool yield per ewe /Kg per year	5,00
Avg wool yield per lamb /Kg per year	1,40
Avg wool yield for the herd expressed by the herds breeding ewes (kg)	6,40
Avg micron shaved	18,00
Clean wool price R/Kg	R161,33

Calculation of Profitability of Merino - Merino - Ewe and Weaner - Production - Grass Clover Pasture (from year 1)						
Budget Income	Unit	Mass	Amount	Price R/kg	Total income/ha	Income per ewe
Gross Sales						
Ram weaner	kg	20,70	3	R70,50	R57 206,52	R4086,18
Culled ewe weaners	kg	20,70	3	R70,50	R57 206,52	R4086,18
Ewe weaner	kg	20,70	4	R70,50	R85 809,78	R6129,27
Culled ewe	kg	27,60	4	R54,68	R88 739,08	R6338,51
Total Meat Income (Trading Income)					R288 961,90	R20640,14
Wool Income						
Ewe and Lambs	Kg	6,40	14	R161,33	R14 455,23	R1032,52
Total Wool Income (Product Income)					R14 455,23	R1032,52
Gross Production Value					R303 417,13	R21 672,65

Directly Attributable Variable Costs								
Direct Inputs	Product	Unit/ Packaging	g/ml	Application g/ml	Price/unit	Price per g/ml	Total costs	Total costs per ewe
Vaccination								
	Blood Kidney	100ml	100	1	R189,19	R1,89	R26,49	R1,89
	Pasteurella	100ml	100	2	R3 526,90	R35,27	R987,53	R70,54
	Swayback	100ml	100	1	R703,00	R7,03	R98,42	R7,03
	RVF	100ml	100	2	R782,00	R7,82	R218,96	R15,64
	Bluetongue	100ml	100	1	R1 138,30	R11,38	R159,36	R11,38
Dosage								
	Endotape	5lt	5000	10	R1 626,90	0,33	R46,20	R3,30
	Prodose orange	5lt	5000	6	R2 349,04	0,47	R39,48	R2,82
	Valbazen	5lt	5000	6	R2 330,30	0,47	R39,48	R2,82
Dip								
	Dip / pour	6lt	6000	5	R3 755,00	0,45	R31,50	R31,50
Total Vaccination							R1 647,42	R146,92

Directly attributable variable costs	Discription					Total Cost per annum	Total cost per ewe
Fixed labour	Include: 2 workers, 2 bonuses and unforeseen					R168 640,00	R12 045,71
Farm produced feed lucerne	per ha lucerne					R39 800,60	R2 842,90
Wool Packaging	Bags and Brackets p/ha					R191,19	R13,66
Fuel	Given producer living in the vicinity					R3300,00	R235,71
Shearing costs and marketing costs	per ha					R1850,00	R132,14
Roughage in addition to lucerne	lucerne hay besides the pasture 0,150 g/p/ha					R1957,00	R139,79
Additional nutrition (lick and creep feed)	Supplementary for ewe and lambs					R7580,56	R541,47
Veterinarian	An average of 4 visits per year					R1105,00	R78,93
Ram expenses	Costs of breeding animals on lucerne pasture					R2442,00	R174,43
Consumer items	Management, label					R329,00	R23,50
Repairs and maintain	Wires, troughs and feeding troughs					R3500,00	R250,00
Total Directly Attributable Variable Costs		R227 195,35	R16 228,24	R0,00	R0,00	R230 695,35	R16 478,24
Total all variable costs						R232 342,77	R16 625,16
Gross Margin						R71 074,36	R5047,49

DATA SOURCE: DALRRD, VKB, GWK, NAMC, WC AGRIC & KZN AGRIC



8. MERINO WEANER LAMB - 2 Months Feedlot System

MERINO WEANER LAMB - 2 Months Feedlot System	
Feedlot size per square meter per weaner	1,5-1,8
Grazing space per square meter per weaner	0,23-0,25
Shadow space per square meter per weaner	0,3-0,5
Crib space per mm per weaner	R 175,00
Quantity weaner per spen	100
Avg begin mass of weaner on receiving kg	24,00
Intake per day of body weight	4%
Days of adjustment	10
Avg DM per Kg intake per day of adjustment a weaner	1
Days of growth / round	14
Avg DM per Kg intake per day of rounding a weaner	1
Days of finisher	36
Avg DM per Kg intake per day of finisher a weaner	1,80
Number of days in feedlot	60,00
Live weight at marketing Kg	40,00
Mortality (ewe)	2%
Slaughter percentage	46%
Market price R/Kg (B2/B3 grade)	R70,67
Weaner R/Kg	R87,43
Avg wool yield per weaner /Kg	1,40
Avg micron shaved	18,00
Clean wool price R/Kg	R 160,00

Calculation of Profitabilty of Merino - Weaner 2 MONTHS FEEDLOT SYSTEM						
Budget Income	Unit	Mass	Amount	Price R/kg	Total income/ha	Income per ewe
Meat Sales						
Weaners	kg	18,40	87	R87,43	R 140 642,27	R 1406,42
Total Meat Income (Trading Income)					R 140 642,27	R 1406,42
Wool Income						
Weaner	Kg	1,40	99	R 160,00	R22 064,00	R224,00
Total Wool Income (Product Income)					R22 064,00	R224,00
Gross Production Value					R 162 706,27	R 1630,42

Directly Attributable Variable Costs								
Direct Inputs	Product	Unit/ Packaging	g/ml	Applica- tion g/ml	Price/unit	Price per g/ml	Total costs	Total costs per ewe
Processing								
	Multivax P	100ml	100	1	R456,64	R4,57	R456,64	R4,57
	Endotape	5lt	5000	10	R 1846,59	R0,37	R36,93	R3,69
	Multimin	500ml	500	1	R216,95	R0,43	R43,39	R0,43
Dip								
	Dip / pour	6lt	6000	5	R3755,00	0,63	R62,58	R3,13
Growth stimulant								
Example	Ralgro sheep	24pil	24	1	R338,25	R 14,09	R 1409,38	R 12,87
Total Vaccination and Dosage Cost							R2008,92	R24,69

Unit	Kg	Application p/Kg/day/weaner	Price	Price /Kg	Cost/ Weaner for Amount days	Total Costs/lot	Costs per lot	Total Costs/weaner
Adjustment ratio - 10 days	Mixture with necessary nutrition	1 ton	1000	0,96	R4 724,99	R4,72	R4535,99	R45,36
Growth ratio	Mixture with necessary nutrition	2 ton	2000	1,40	R3 985,59	R1,99	R11 159,65	R111,60
Finisher - 36 days	Mixture with necessary nutrition	3 ton	3000	1,80	R3 988,67	R1,33	R21 538,82	R215,39
							R37 234,46	R372,34

Directly attributable variable costs	Discription					Total Cost per annum	Total cost per ewe	
Labour	At receipt: Processing - 4 workers					R59 520,00	R595,20	
General labour	Per feedlot for 2 months (1 per 400 sheep)					R14 880,00	R148,80	
Shaving and marketing costs	All costs per Kg					R15 127,14	R151,27	
Wool packaging	Bags and brackets					R981,77	R9,82	
Transportation/Fuel	Average per 2 months feedlot system					R615,63	R6,16	
Roughage in addition	lucerne hay adjustment 200 g/p/day					R3025,00	R30,25	
Veterinarian	Average visits for the 2 months system					R725,00	R7,25	
Consumer items	Management and label					R785,95	R7,86	
Repairs and maintain	Wires, troughs and feeding troughs					R2942,95	R29,43	
Total Directly Attributable Variable Costs			R95 660,49	R956,60	R0,00	R0,00	R98 603,44	R986,03
Total all variable costs							R1 383,07	
Gross Margin						R24 859,44	R247,35	

DATA SOURCE: RPO, DALRRD, YKB, GWK, NAMC, WC AGRIC & KZN AGRIC



9. BEEF CATTLE: 18 Months Marketing System

Assumptions	Beef Cattle: 18 Months Marketing System
LSU contribute effect of farm	1000
LSU Factor (cattle with calf & Bulls)	1,60
Number of COWS	625
Bull percentage	3%
Number of bulls	21
Calf per cow (18 months system)	1
Weaning percentage	80%
Number of weaned calves per year	500
Percentage replacement cows	10%
Percentage tailings Bulls	10%
Herd death percentage (excluding calves)	2%
Live weaner weight	240
Live cow weight	450
Live bull weight	650
Slaughter percentage	54%
Price per Kg slaughter (R/Kg) average bull	R45,00
Price per Kg slaughter (R/Kg) average cows	R50,00
Weaner (to 240Kg live)	R33,00
Sales per cow (calf, replacement cows and bulls)	1,28

Beef Cattle: 18 Months Marketing System							
Budget Income	Unit	Mass	Amount	Price R/kg	Total income	Income per LSU	Income per cow
Culled males - slaughter	kg	351	2	R45,00	R29 615,63	R29,62	R47,39
Replacement cows - slaughter	kg	243	63	R50,00	R759 375,00	R759,38	R1215,00
Weaners (versions)	kg	240	245	R33,00	R1 940 400,00	R1940,40	R3104,64
Weaning (Bulls)	kg	240	245	R33,00	R1 940 400,00	R1940,40	R3104,64
Gross Production Value					R4 669 790,63	R4669,79	R7471,67

Directly attributable variable costs									
Direct Inputs	Product	Unit/ Packaging	g/ml	Applica- tion g/ml	Price/unit	Price per g/ml	Total costs	Total costs per SSU	Total cost per cow
Vaccination									
	Spons & lambs & milt	100ml	100	10	R1210,78	R12,11	R1210,78,00	R121,08	R193,72
	Brucella (s19)	100ml	100	7	R579,95	R5,80	R40 596,50	R40,60	R64,95
	Pasteurella	100ml	100	10	R242,59	R2,43	R24 259,00	R24,26	R38,81
	Slendal Fever	100ml	100	15	R899,55	R9,00	R134 932,50	R134,93	R215,89
Dosage									
	Albendazole	5lt	5000	75	R2279,99	R0,46	R34 199,85	R34,20	R54,72
	Endoktosiede	500ml	500	42	R2137,56	R4,28	R179 555,04	R179,56	R287,29
Dip									
	Dip / pour	6lt	6000	100	R3755,00	R0,63	R62 583,33	R62,58	R100,13
Total Vaccination and dosage costs								R597,20	R955,53



Directly attributable variable costs	Discription					Total Cost per annum	Total cost per LSU	Total Cost per cow	
Bulls Purchases	Buy 6 bulls over a 3 year period					R180 000,00	R180,00	R288,00	
Heifers purchases	Buy 5 young heifers over a year period					R62 500,00	R62,50	R100,00	
Repairs and maintainance	Includes:Troughs, fence, wind-mill, dams					R24 590,00	R24,59	R39,34	
Dangerous control	Includes: Hunter, trap, poison, unforeseen					R38 759,69	R38,76	R62,02	
Fuel	Given producer living in the vecinity: 4000 km per year at R10,70p/l					R45 000,00	R45,00	R72,00	
Veterinary	An average of 2 visit a year					R13 600,00	R13,60	R21,76	
Fixed labour	Includes: 2 worker, bonuses, unexpected					R201 060,00	R201,06	R321,70	
Total Directly Attributable Variable Costs								R565,51	R904,82

Direct Inputs	Product	Unit Packing	g/ml	Applica-tion g/ml	Price per unit	Price Per g/ml	Total Costs per year	Total Costs per SSU	Total Costs per ewe
Feeding									
If nutrition is given the daily cost per cow and LSU:	Concentration (maize) 6 selective months	1 Ton	1 000 000	800	R987,00	R0,001	R144 087,59	R144,09	R230,54
	Winter lick	2,8 Ton	28 000 000	240	R1 185,00	R0,000	R1 038 060,00	R1 038,06	R1 660,90
	Summer lick	11 Ton	11 000 000	240	R980,60	R0,000	R859 004,72	R859,00	R1 374,41
Total Cost supplement							R2 041 152,32	R2 041,15	R3 265,84
Total all variable costs							R3 203 866,23	R3 203,87	R5 126,19
Gross Margin							R1 465 924,40	R1 465,92	R2 345,48

DATA SOURCE: DALRRD, YKB, GWK, NAMC, WC AGRIC & KZN AGRIC

10. WEANER: 4 Months Feedlot System

LSU Weaner: 4 Months Feedlot System	
Feedlot curl space meter per weaner	10-15.
Crib space per cm per calf	15-30
Number of weaners per feedlot curl	120
Avg begin mass of weaner at receiving (kg)	240
Liter water per day per weaner	80
Intake per day of body weight	3,00%
Days of adjustment	30
Avg DM per kg intake per day per calf adjustment	7,20
Days of growth / rounding	60
Avg DM per kg intake per day of rounding per calf	8,13
Days of finisher	30
Avg DM per kg intake per day of finisher per calf	10,22
Number of days in a feedlot (4 months)	120
Live weight when marketing kg	400
Percentage of a second dose of vaccine	28%
Mortality	1%
Product income	56%
Weaner kg slaughter (carcass)	224,00
Marking price R/KG(A2/A3 grade)	R55,00

LSU Weaner: 4 Months Feedlot System						
Budget Income	Unit	Mass	Amount	Price R/kg	Total income	Income per weaner
Meat sales						
Weaned Calf	kg	224	118,80	R55,00	R1 463 616,00	R12 196,80
Gross Production Value						R12 196,80

Directly attributable variable costs								
Direct Inputs	Product	Unit/ Packaging	g/ml	Applica- tion g/ml	Price/unit	Price per g/ml	Total costs	Total costs per weaner
Vaccination								
	Spons & lambs & milt	100ml	100	6,9	R1210,78	R12,11	R10 010,73	R83,42
	Lumpy skin disease	50ml	50	5,5	R1284,65	R25,69	R16 957,38	R141,31
	BDV	50ml	50	4,8	R1514,35	R30,29	R17 263,59	R143,86
	Pastureulla	100ml	100	17,8	R165,58	R1,66	R3526,85	R29,39
	Vitamin A	100ml	100	20,3	R226,59	R2,27	R5506,14	R45,88
	Multimin	500ml	500	11,5	R216,95	R0,43	R598,78	R4,99
Dip								
	Dip / pour	6lt	6000	50	R3755,00	R0,63	R3 755,00	R31,29
Growth Stimulant								
	Ralgro	24pil	24	50	R338,25	R14,09	R84 562,50	R704,69
Total Vaccination and dosage costs								R1 184,84

Feeding	Product	Unit	Kg	Application g/ml/day weaner	Price	Price/Kg	Costs/lot	Total costs per weaner lot
Adjustment ratio - 30 days	Mixture with necessary nutrition	1 ton	1000	11,75	R2255,49	R2,26	R95 407,23	R795,06
Growth ratio - 60 days	Mixture with necessary nutrition	2 ton	2000	9,75	R2865,81	R1,43	R100 589,93	R838,25
Finisher - 36 days	Mixture with necessary nutrition	3 ton	3000	17,55	R2958,59	R0,99	R62 307,91	R519,23
Total feeding costs							R258 305,06	R2 152,54

Directly attributable variable costs	Discription					Total Cost per annum	Total cost per weaner	
Labour	At receipt: Processing - 4 workers					R362 080,00	R3017,33	
General labour	Per feedlot for 4 months (1 per 400 weaner)					R29 760,00	R248,00	
Transportation/Fuel	Average per feedlot for the 4 months system					R3189,38	R26,58	
Veterinarian	8% events per feedlot for the by 4 months					R7500,00	R62,50	
Vaccine repeat	30% per feedlot for the by 4 months					R3773,58	R31,45	
Consumer items	Management and lablling					R2758,00	R22,98	
Repairs and maintain	Wires, troughs and feeding troughs per feedlot for 4 months					R11 500,00	R95,83	
Total Directly Attributable Variable Costs					R0,00	R0,00	R420 560,96	R3504,67
Total all variable costs						R821 047,00	R6842,06	
Gross Margin						R642 569,00	R5354,74	

DATA SOURCE: DALRRD, VKB, GWK, NAMC, WC AGRIC & KZN AGRIC



II. BOER GOATS: A Production System For A 100 Doe Flock

BOER GOATS: A Production System For A 100 Doe Flock: Under Normal Climatic Conditions

2. GROSS INCOME

2. a) CAPITAL INCOME FROM GOAT SALES

Description	Number	Mass/ Unit	Total Mass	Price	Income					
	Sold	(Kg)	(Kg)	(R/Kg)	(R)					
Cull Bucks	2	60,00	120,00	44,05	5285,60					
Cull Does	14	50,00	700,00	43,24	30 266,25	TOTAL INCOME FROM GOAT SALES				
Weaned to 2-tooth	120	33,00	3960,00	56,32	223 040,40	Per Doe	Per AU	Per SSU	Per Head	Per Kg
TOTAL	136		4780,00			(R)	(R)	(R)	Sold (R)	Sold (R)
TOTAL INCOME FROM GOAT SALES (CAPITAL INCOME (a))					258 592,25	2585,92	9776,64	1466,50	1901,41	54,10

3. OTHER COSTS

Description	Item / Quantity / Cost			Total Cost					
			(R/Unit)	(R)					
Veld grazing (summer and winter licks)	25 kg bag	12	400,00	4800,00					
Medicine costs	Dose	2	3050,90	6101,80					
Dip	Dose	1	3755,00	3755,00					
Vaccines	Inoculation	1	1200,00	1200,00					
Monthly minimum regular labour wage: 2 employees for 12 months	Monthly min. wage	24	4854,08	116 497,92	COSTS				
Marketing cost	% of income	7%	258 592,25	18 101,46	Per Doe	Per AU	Per SSU	Per Head	Per Kg
Animals bought	Buck	2	3700,00	7400,00	(R)	(R)	(R)	(R)	Sold
TOTAL COSTS (b)				157 856,18	1578,56	2223,33	2192,45	1160,71	33,02

4. GROSS MARGIN

GROSS MARGIN					GROSS MARGIN				
Total Income (a)				258 592,25	Per Doe	Per AU	Per SSU	Per Head	Per Kg
Total Costs (b)				157 856,18	(R)	(R)	(R)	Sold (R)	Sold (R)
GROSS MARGIN (a - b)				100 736,07	1007,36	1418,82	1399,11	740,71	21,07

NOTES:

- 1) Kidding % per doe = 156%. Kidding once per year
- 2) Weaning % per doe = 140%. Sell at 6 months
- 3) Replacement % does annually = 20%. Breeding does : % lost/dead = 4%
- 4) 2 Rams per 100 does
- 5) 1 SSU = 0.15 AU
- 6) Average stock numbers: 100 does; 197 goats; 176 SSU.
- 7) Marketing: Local; alive
- 8) No purchased feeds; veld grazing only.

I. FLOCK COMPOSITION														AVERAGE NUMBER		
CLASS		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	GOATS	AU	SSU
Bucks		2	2	2	2	2	2	2	2	2	2	2	2	2,00	0,45	3,00
Breeding Does		100	99	99	99	98	98	98	97	97	97	96	100	98,17	17,00	113,33
Young Does		20	20	20	19	19	19	19	19	19	18	18	18	19,00	3,00	20,00
Kids		0	0	0	0	0	78	150	142	140	140	140	140	77,50	6,00	40,00
Sub-total		122	121	121	120	119	197	269	260	258	257	256	260	196,67	26,45	176,33
Mortality :																
Bucks																
Breeding Does		1			1			1			1			0,33	4,00	26,67
Young Does					1						1			0,17	2,00	13,33
Kids							6	8	2					1,33	16,00	106,67
Market :																
Bucks													2	0,17	2,00	13,33
Breeding Does													14	1,17	14,00	93,33
Kids													120	10,00		800,00
Monthly Flock Numbers		121	121	121	118	119	191	260	258	258	255	256	124	183,50		176,33
Number of Does																100,00
Number of A.U.s																26,45
Number of Small Stock Units (SSU)																176,33

CLASS		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	AVERAGE NUMBER			
													GOATS	AU	SSU	
Born							78	78						13,00	156,00	1040,00
Weaned												140		11,67	140,00	933,33
Purchased		Bucks											2	0,17	2,00	13,33



12. BROILER PRODUCTION

BROILER PRODUCTION: A PRODUCTION SYSTEM FOR A 10 500 POULTRY SYSTEM

I. GROSS INCOME FROM SALES

Description	Unit	Price per Bird	Total Birds Per Batch	Sales Value Per Batch	Batches per Annum	Total Birds Per Annum	Sales Value Per Annum	Value Per Bird Sold
		(R)		9 870 Birds			(R)	(R)
Sale of live birds	Bird	34,00	9 870,00	(R)	7,43	73 320	(R)	34,00
TOTAL INCOME (a)				335 580,00			2 492 880,00	

2. FEED COSTS and OTHER COSTS

Description	Unit	Cost per Unit	Quantity Per Batch	Cost Per Batch	Batches per Annum	Quantity Per Annum	Cost Per Annum	Cost Per Bird Sold	
		(R)		(R)			(R)	(R)	
Purchase Day-old Vaccinated Chickens	Chick	13,50	10500		7,43	78 000,00	1 053 000,00	14,36	
Feed	Starter Crumbles	1 1750,00	1,25	14 687,50	7,43	9,29	109 107,14	1,49	
	Grower Pellets	1 1550,00	1,22	14 091,00	7,43	9,06	104 676,00	1,43	
	Finisher Pellets	1 1850,00	1,58	18 723,00	7,43	11,74	139 085,14	1,90	
Vaccinations	Newcastle Disease	1000 doses	92,29	18	1 615,08	7,43	130,00	11 997,70	0,16
	Gumboro	1000 doses	100,58	28	2 765,95	7,43	204,29	20 547,06	0,28
Sanitation	Virokill	1 litre	199,00	35	6 965,00	7,43	260,00	51 740,00	0,71
Stress pack		1 litre	43,06	28	1 205,68	7,43	208,00	8 956,48	0,12
Transport	Day-old chickens	Batch	144,00	32	4 608,00	7,43	237,71	34 230,86	0,47
	Shavings	100 Km	519,20	22	11 422,40	7,43	163,43	84 852,11	1,16
Electricity		kWh	3,95	4950	19 552,50	7,43	36 771,43	145 247,14	1,98
Sub-total								1 763 439,64	24,05
Contingencies		Above costs	2%		4 747,72			35 268,79	0,48
TOTAL COSTS (b)								24,53	

3. GROSS MARGIN

Description	Total Income/ Costs per Batch (R)	Per Batch	Per Bird Sold	Total Income/ Costs per Annum (R)	Batches per Annum	Total Birds Per Annum	Per Bird Sold	Per Rand
		10 500 Birds						Total Batch or Annual Cost
		10 500,00			7,43	78 000,00		
Total Income (a)	335 580,00		31,96	2 492 880,00			31,96	1,39
Total Costs (b)	242 133,83		23,06	1 798 708,43			23,06	1,00
GROSS MARGIN (a-b)	93 446,17		8,90	694 171,57			8,90	0,39

NOTES:

- 1) The broilers are kept for seven weeks, and the "rest period" for the house is two weeks. A time period required for one batch is 9 weeks.
- 2) This gives 7.43 batches per annum (52 weeks / 7 weeks)
- 3) A six percent (6%) mortality rate was used.
- 4) Mortality has not been taken into account in calculating feed and medicinal requirements.
- 5) The price of feed includes delivery.
- 6) The transport of day-old chicks is done by courier from the depot.
- 7) The transport of shavings is based on a 100 kilometre return trip, using a one ton bakkie. The total costs per kilometre are used.
- 8) The average live weight of 6 weeks bird is 2,4Kg used.

DATA SOURCE: DALRRD, VKB, NAMC, WC AGRIC & KZN AGRIC

13. LAYERS: A PRODUCTION SYSTEM FOR A 20 160 FLOCK

LAYERS: A PRODUCTION SYSTEM FOR A 20 160 FLOCK: UNDER NORMAL CLIMATIC CONDITIONS

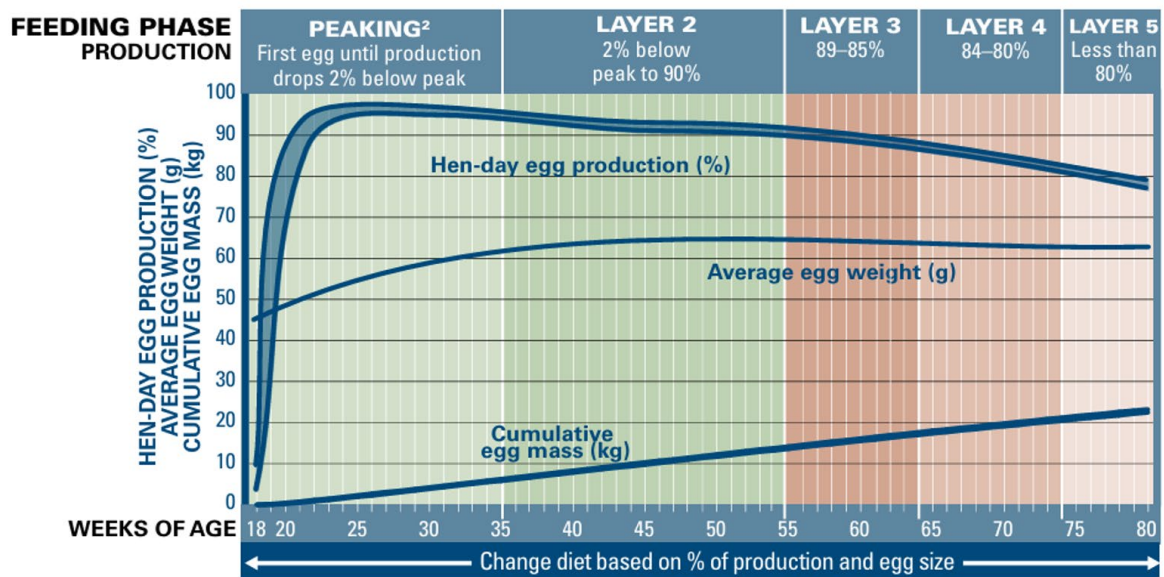
TOTAL INCOME FOR ENTERPRISE			
	Poor	Standard	Good
Point of lay hens Delivered/House/Year	20 160,00	20 160,00	20 160,00
No of Houses	1,00	1,00	1,00
Total No of layers in production	20 160,00	20 160,00	20 160,00
Mortality %	8%	6%	4%
Weeks in production	50,00	50,00	50,00
Eggs produced / hen - 50 weeks	266,00	280,00	294,00
Eggs produced %	76%	80%	84%
Average Mass of eggs in grams	55,10	58,00	60,90
No of eggs produced / day	14 095,87	15 160,32	16 257,02
No of eggs sold / day @ 98%	13 391,08	14 857,11	15 444,17
Price per egg (Packaged)	R1,78	R1,83	R1,88
Price per dozen (Packaged) (Ave.)	R19,80	R22,00	R24,20
Price per 2,5 (30 eggs tray) dozen (Packaged) (Ave.)	R49,50	R55,00	R60,50
Income per day - eggs	23 881	27 238	29 087
Income per week - eggs	167 165	190 666	203 606
Total income for enterprise per year - eggs	R8 358 265	R9 533 315	R10 180 284
Total income per hen housed per year	415	473	505
	Minus	Standard	Plus
Total Income Variation per hen	58		32
Possible Total Income Variation for enterprise	1 175 049,79		646 969,34
Total number of eggs / year	4 933 555,20	5 199 989,76	5 689 958,40
Number of dozen eggs sold / year	411 129,60	433 332,48	474 163,20
No of cull hens	18 547,20	18 950,40	19 353,60
Value of spend hens	63,00	65,00	67,00

B	LESS: DIRECT COSTS (excl. VAT)						Total for	Value per
	Item	Product	Unit	Number	Applicat.	Price / unit	Enterprise	(Layer)
1	HENS on point of lay	Hyline	HEN	20 160,00	1,00	120,00	2 419 200,00	127,66
2	FEED - Layer mash	AgriData	50 kg bag	16 892,06	1,00	300,45	5 075 220,63	267,82
3	INNOCULATOINS	Intervet. Prog	HEN	20 160,00	5,00	0,10	10 080,00	0,53
4	ELECTRICITY - Lighting	Municipality	Mnths	12,00	1,00	40 707,69	488 492,31	25,78
5	FLY CONTROL	Fendona	L	10,00	0,05	120,00	1 200,00	0,06
6	CLEANING & DISINFECTANTS	Chem/steriliz	L	1,00	0,40	55,00	22,00	0,00
7	LITTER REMOVAL	Casual labour	Labour	3,00	52,00	1 737,54	271 056,24	14,30
8	PACKAGING MATERIAL	Tray	12 eggs (doz.)	173 332,99	1,00	2,19	380 116,21	20,06
9	LABOUR			2,00	52,00	1 737,54	180 704,16	9,54
10	TRANSPORT - Feed	Included in feedprice		30,00	12,00	194,00	69 840,00	3,69
11	- Sales (eggs)	Own	trip	50,00	200,00	3,19	31 875,00	1,68
12	- Sales (spend hens)	Collected on farm			140,00	3,19	0,00	0,00
13	Contingencies	5%					446 390,33	
					TOTAL		9 374 196,87	464,99

C MARGIN ABOVE COSTS		
1	Estimated Total GM	1 390 894
2	Estimated GM / Housed hen / Year	68,99
3	Estimated GM / Dozen eggs sold	3,21
4	Estimated GM / Egg sold	0,27

D *FEED CONSUMED										
Feed	Period	Feed in Kg	Days	No of layers	Feed used	Feed used	Feed used	Price /	Total	
		/ day		Ave.	Kg	50 Kg / Bags	Ton	Bag	cost	
Layer mix	18 - 68 weeks	0,120	350	20 160	844 603	16 892	845	300	5 075 221	
	Ave.	0,120	350		844 603	16 892	845		5 075 221	

Production Period Nutritional Recommendations¹



E PRICING RANGE				
SIZES OF EGGS		% of sales	R/12 EGGS doz	
JUMBO		10%	R24,50	R 2,45
X-LARGE		20%	R22,75	R 4,55
LARGE		40%	R22,50	R 9,00
MEDIUM		20%	R20,75	R 4,15
SMALL		10%	R19,50	R 1,95
TOTAL		100%	R 22,00	R 22,10



13. PIGS PRODUCTION: A Production System For A 300 Sow Unit System

ASSUMPTIONS					
1. Herd Assumptions					
	NUMBER OF PIGS MARKETED PER SOW PER ANNUM				
Pigs Marketed per Sow per Annum	17	19	21	22	24
Piglets per Litter	9	10	11	11	12
Number Sold					
Porkers	831	929	1026	1076	1175
Baconers	3325	3718	4109	4303	4693
Sausage pigs	120	120	120	120	120
Roughs	11	11	11	11	11
Total	4287	4778	5266	5510	5999
Average Carcass Mass (ACM)					
Porkers	60,00	60,00	60,00	60,00	60,00
Baconers	71,80	71,80	71,80	71,80	71,80
Sausage pigs	110,00	110,00	110,00	110,00	110,00
Roughs	130,00	130,00	130,00	130,00	130,00

Farrowing rate = 85%
Inter-farrowing period = 162 days
Pregnancy = 114 days
Lactation = 28 days
Number of litters/sow/annum = 2.25
Boars as a % of sows : 7%

NUMBER OF PIGS MARKETED PER SOW PER ANNUM											
Class	ACM (Kg)	17		19		21		22		24	
		No Sold	TCM (Kg)	No Sold	TCM (Kg)	No Sold	TCM (Kg)	No Sold	TCM (Kg)	No Sold	TCM (Kg)
Porkers	60,00	831	49 860	929	55 740	1026	61 560	1076	64 560	1175	70 500
Baconers	71,80	3 325	238 735	3718	266 952	4109	295 026	4303	308 955	4693	336 957
Baconers + Porkers (B+P)		4156	288 595	4647	322 692	5135	356 586	5379	373 515	5868	407 457
Sausage pigs	110,00	120	13 200	120	13 200	120	13 200	120	13 200	120	13 200
Roughs	130,00	11	1430	11	1430	11	1430	11	1430	11	1430
Total		4287	303 225	4 778	337 322	5 266	371 216	5510	388 145	5999	422 087

PIGS: A PRODUCTION SYSTEM FOR A 300 SOW UNIT											
3. Market Prices and Total Income											
Class	Price (R/kg)	17,00		19,00		21,00		22,00		24,00	
		TCM (Kg)	Total Income (R)	TCM (Kg)	Total Income (R)	TCM (Kg)	Total Income (R)	TCM (Kg)	Total Income (R)	TCM (Kg)	Total Income (R)
Porkers	32,26	49 860	1 608 359	55 740	1 798 033	61 560	1 985 772	64 560	2 082 544	70 500	2 274 154
Baconers	31,76	238 735	7 581 826	266 952	8 477 963	295 026	9 369 540	308 955	9 811 909	336 957	10 701 205
Baconers + Porkers (B+P)		288 595	9 190 185	322 692	10 275 996	356 586	11 355 312	373 515	11 894 453	407 457	12 975 359
Sausage pigs	24,82	13 200	327 602	13 200	327 602	13 200	327 602	13 200	327 602	13 200	327 602
Roughs	24,50	1 430	35 035	1 430	35 035	1430	35 035	1430	35 035	1 430	35 035
Total		303 225	9 552 822	337 322	10 638 633	371 216	11 717 949	388 145	12 257 090	422 087	13 337 996

4. Purchased Complete Feed Prices (Rands/ton), Quantity Used, and Total Feed Costs4.

Feed requirements (Tons)	Purchased Complete Feed (T)	Own Maize + Purchased Concentrates (T)	Purchased Complete Feed Prices (R/T)	Own Maize + Purchased Concentrates Prices (R/T)
Sows	292	292	5 731	4 655
Boars	22	22	5 731	4 655
1st stage Weaners	47	47	5 901	5 469
2nd stage Weaners	146	146	6 109	5 399
Porker stage	363	363	6 109	5 399
Baconer stage	329	329	5 315	4 522
Gilts (Replacements)	29	29	5 731	4 655
Total tons	1 228	1 228		

Feed Prices (R/Ton)	Purchased Complete Feed Prices	NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		16,3		18,2		20,1		21,1		23,1	
Feed for :		Tons	Total Cost (R)	Tons	Total Cost (R)	Tons	Total Cost (R)	Tons	Total Cost (R)	Tons	Total Cost (R)
Sows	5 731	292	1 673 569	292	1 673 569	292	1 673 569	292	1 673 569	292	1 673 569
Boars	5 731	22	126 091	22	126 091	22	126 091	22	126 091	22	126 091
1st stage Weaners	5 901	47	277 366	47	277 366	47	277 366	47	277 366	47	277 366
2nd stage Weaners	6 109	146	891 878	146	891 878	146	891 878	146	891 878	146	891 878
Porker stage	6 109	363	2 217 476	363	2 217 476	363	2 217 476	363	2 217 476	363	2 217 476
Baconer stage	5 315	329	1 748 635	329	1 748 635	329	1 748 635	329	1 748 635	329	1 748 635
Gilts (Replacements)	5 731	29	166 211	29	166 211	29	166 211	29	166 211	29	166 211
Total Purchased Feed - Tons & Rands		1 228	7 101 225	1 228	7 101 225	1 228	7 101 225	1 228	7 101 225	1 228	7 101 225

Delivery costs are not included

5. Own Maize plus Purchased Concentrates, Quantity Used, and Total Feed Costs

Feed for:	Own Maize + Purchased Concentrates	NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		16,3		18,2		20,1		21,1		23,1	
		Tons	Total Cost (R)	Tons	Total Cost (R)	Tons	Total Cost (R)	Tons	Total Cost (R)	Tons	Total Cost (R)
Sows	4 655	292	1 359 395	292	1 359 395	292	1 359 395	292	1 359 395	292	1 359 395
Boars	4 655	22	102 420	22	102 420	22	102 420	22	102 420	22	102 420
1st stage Weaners	5 469	47	257 031	47	257 031	47	257 031	47	257 031	47	257 031
2nd stage Weaners	5 399	146	788 228	146	788 228	146	788 228	146	788 228	146	788 228
Porker stage	5 399	363	1 959 773	363	1 959 773	363	1 959 773	363	1 959 773	363	1 959 773
Baconer stage	4 522	329	1 487 727	329	1 487 727	329	1 487 727	329	1 487 727	329	1 487 727
Gilts (Replacements)	4 655	29	135 008	29	135 008	29	135 008	29	135 008	29	135 008
Total Purchased Feed - Tons & Rands		1228	6 089 584	1 228	6 089 584	1 228	6 089 584	1 228	6 089 584	1228	6 089 584

6. Marketing Costs

Pork Producers Association Levy per Pig Sold Rand per head		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		16,3		18,2		20,1		21,1		23,1	
		No. Sold	Total Cost (R)	No. Sold	Total Cost (R)	No. Sold	Total Cost (R)	No. Sold	Total Cost (R)	No. Sold	Total Cost (R)
Porkers	15,51	831	12 889	929	14 409	1026	15 913	1076	16 689	1175	18 224
Baconers	15,51	3325	51 571	3718	57 666	4109	63 731	4303	66 740	4693	72 788
Sausage pigs	15,51	120	1861	120	1861	120	1861	120	1861	120	1861
Roughs	15,51	11	171	11	171	11	171	11	171	11	171
Total		4287	66 491	4778	74 107	5 266	81 676	5510	85 460	5 999	93 044



	Cost per Pig Marketed	NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		16,3		18,2		20,1		21,1		23,1	
		No. Sold	Total Cost (R)	No. Sold	Total Cost (R)	No. Sold	Total Cost (R)	No. Sold	Total Cost (R)	No. Sold	Total Cost (R)
Porkers	244,86	831	203 479	929	227 475	1 026	251 226	1 076	263 469	1 175	287 711
Baconers	244,86	3 325	814 160	3 718	910 389	4 109	1 006 130	4 303	1 053 633	4693	1 149 128
Sausage pigs	244,86	120	29 383	120	29 383	120	29 383	120	29 383	120	29 383
Roughs	244,86	11	2 693	11	2 693	11	2 693	11	2693	11	2 693
Total		4 287	1 049 715	4778	1 169 941	5 266	1 289 433	5510	1 349 179	5 999	1 468 915

ASSUMPTIONS											
7. Transport Costs											
		Porkers	Baconers	Sausage pigs	Roughs						
Distance of return trip		105	105	105	105						
Truck and Trailer costs (R/Km)											
8 t truck single-diff dropsides	9,55										
8 ton 4-wheel trailer dropsides	0,36										
Truck + trailer for 1 km	10,55										
Cost of return trip (Rand)		1 108	1 108	1 108	1 108						
Pigs per trip		100	80	80	80						
Cost per pig		R 11,08	R 13,85	R 13,85	R 13,85						
	Cost per Pig Marketed	NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		16,3		18,2		20,1		21,1		23,1	
		No. Sold	Total Cost (R)	No. Sold	Total Cost (R)	No. Sold	Total Cost (R)	No. Sold	Total Cost (R)	No. Sold	Total Cost (R)
Porkers	11,08	831	9205	929	10 291	1026	11 366	1076	11 919	1175	13 016
Baconers	13,85	3325	46 041	3718	51 483	4109	56 897	4303	59 583	4693	64 983
Sausage pigs	13,85	120	1662	120	1662	120	1662	120	1662	120	1 662
Roughs	13,85	11	152	11	152	11	152	11	152	11	152
Total		4 287	57 060	4 778	63 588	5 266	70 076	5510	73 316	5 999	79 813

18. PIGS PRODUCTION: A Production System For A 300 Sow Unit System, Using Own Maize And Purchased Concentrates

1. GROSS INCOME FOR 300 SOWS											
LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
I. Income	Price (R/kg)	Total Carcass Mass (Kg)	Total Income (R)	Total Carcass Mass (Kg)	Total Income (R)	Total Carcass Mass (Kg)	Total Income (R)	Total Carcass Mass (Kg)	Total Income (R)	Total Carcass Mass (Kg)	Total Income (R)
Porkers	32,26	49 860	1 608 359	55 740	1 798 033	61 560	1 985 772	64 560	2 082 544	70 500	2 274 154
Baconers	31,76	238 735	7 581 826	266 952	8 477 963	295 026	9 369 540	308 955	9 811 909	336 957	10 701 205
Sausage pigs	24,82	13 200	327 602	13 200	327 602	13 200	327 602	13 200	327 602	13 200	327 602
Roughs	24,50	1430	35 035	1 430	35 035	1430	35 035	1430	35 035	1430	35 035
TOTAL KGS SOLD and TOTAL INCOME (A)		303 225	9 552 822	337 322	10 638 633	371 216	11 717 949	388 145	12 257 090	422 087	13 337 996

2. ALLOCATED COSTS FOR 300 SOWS											
LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2a. Purchased Feed Costs	Cost (R/Ton)	Tons	Total Cost (R)	Tons	Total Cost (R)	Tons	Total Cost (R)	Tons	Total Cost (R)	Tons	Total Cost (R)
Sows	4655	292	1 359 395	292	1 359 395	292	1 359 395	292	1 359 395	292	1 359 395
Boars	4655	22	102 420	22	102 420	22	102 420	22	102 420	22	102 420
1st Stage weaners	5469	47	257 031	47	257 031	47	257 031	47	257 031	47	257 031
2nd Stage weaners	5399	146	788 228	146	788 228	146	788 228	146	788 228	146	788 228
Porker stage	5399	363	1 959 773	363	1 959 773	363	1 959 773	363	1 959 773	363	1 959 773
Baconer stage	4522	329	1 487 727	329	1 487 727	329	1 487 727	329	1 487 727	329	1 487 727
Replacement gilts	4655	29	135 008	29	135 008	29	135 008	29	135 008	29	135 008
Total Purchased Feed - Tons & Rands		1228	6 089 584	1228	6 089 584	1228	6 089 584	1228	6 089 584	1228	6 089 584

LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2b. Marketing Costs	Pork Producers Association Levy	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)
Porkers	15,51	831	12 889	929	14 409	1 026	15 913	1076	16 689	1175	18 224
Baconers	15,51	3325	51 571	3718	57 666	4 109	63 731	4303	66 740	4693	72 788
Sausage pigs	15,51	120	1861	120	1861	120	1861	120	1861	120	1861
Roughs	15,51	11	171	11	171	11	171	11	171	11	171
Total Marketing Costs		4287	66 491	4778	74 107	5 266	81 676	5 510	85 460	5999	93 044

LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2c. Veterinary Costs	Cost per Pig Sold	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)
Porkers	244,86	831	203 479	929	227 475	1026	251 226	1076	263 469	1175	287 711
Baconers	244,86	3 325	814 160	3718	910 389	4109	1 006 130	4303	1 053 633	4693	1 149 128
Sausage pigs	244,86	120	29 383	120	29 383	120	29 383	120	29 383	120	29 383
Roughs	244,86	11	2693	11	2693	11	2693	11	2693	11	2693
Total Veterinary Costs		4287	1 049 715	4778	1 169 941	5266	1 289 433	5 510	1 349 179	5999	1 468 915

LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2d. Transport Costs	Cost per Pig Sold	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)	Number Pigs Sold	Total Cost (R)
Porkers	11,08	831	203 479	929	227 475	1026	251 226	1076	263 469	1175	287 711
Baconers	13,85	3325	814 160	3718	910 389	4109	1 006 130	4303	1 053 633	4693	1 149 128
Sausage pigs	13,85	120	29 383	120	29 383	120	29 383	120	29 383	120	29 383
Roughs	13,85	11	2693	11	2693	11	2693	11	2693	11	2 693
Total Transport Costs		4287	1 049 715	4778	1 169 941	5266	1 289 433	5510	1 349 179	5999	1 468 915
TOTAL COSTS (B=2a + 2b + 2c + 2d)			8 255 505		8 503 573		8 750 125		8 873 401		9 120 459

LITTERS PER SOW PER ANNUM	NUMBER OF PIGS MARKETED PER SOW PER ANNUM				
	17	19	21	22	24
GROSS MARGIN (A - B)	1 297 317	2 135 060	2 967 824	3 383 688	4 217 537
Feed Cost as % of Total Income	63,75%	57,24%	51,97%	49,68%	45,66%
Feed Cost as % of Total Allocated Costs	73,76%	71,61%	69,59%	68,63%	66,77%
PIGS: A PRODUCTION SYSTEM FOR A 300 SOW UNIT USING OWN MAIZE AND PURCHASED CONCENTRATES					

I. GROSS INCOME PER SOW (300 SOWS)											
LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
1. Income	Price (R/kg)	Carcass Mass/Sow (Kg)	Income/Sow (R)	Carcass Mass/Sow (Kg)	Income/Sow (R)	Carcass Mass/Sow (Kg)	Income/Sow (R)	Carcass Mass/Sow (Kg)	Income/Sow (R)	Carcass Mass/Sow (Kg)	Income/Sow (R)
Porkers	32,26	166	5361,20	186	5993,44	205	6619,24	215	6941,81	235	7580,51
Baconers	31,76	796	25 272,75	890	28 259,88	983	31 231,80	1030	32 706,36	1123	35 670,68
Sausage pigs	24,82	44	1092,01	44	1092,01	44	1092,01	44	1092,01	44	1092,01
Roughs	24,50	5	116,78	5	116,78	5	116,78	5	116,78	5	116,78
Income - Total and per Sow (A)		1 010,75	31 842,74	1124,41	35 462,11	1237,39	39 059,83	1 293,82	40 856,97	1406,96	44 459,99

2. ALLOCATED COSTS PER SOW (300 SOWS)											
LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2a. Purchased Feed Costs	Cost (R/Ton)	Total Cost (R)	Cost/Sow (R)	Total Cost (R)	Cost/Sow (R)	Total Cost (R)	Cost/Sow (R)	Total Cost (R)	Cost/Sow (R)	Total Cost (R)	Cost/Sow (R)
Sows	4655	1 359 395	4531	1 359 395	4531	1 359 395	4531	1 359 395	4531	1 359 395	4531
Boars	4655	102 420	341	102 420	341	102 420	341	102 420	341	102 420	341
1st Stage weaners	5469	257 031	857	257 031	857	257 031	857	257 031	857	257 031	857
2nd Stage weaners	5399	788 228	2627	788 228	2627	788 228	2 627	788 228	2627	788 228	2627
Porker stage	5399	1 959 773	6533	1 959 773	6533	1 959 773	6 533	1 959 773	6533	1 959 773	6533
Baconer stage	4522	1 487 727	4959	1 487 727	4959	1 487 727	4 959	1 487 727	4959	1 487 727	4959
Replacement gilts	4655	135 008	450	135 008	450	135 008	450	135 008	450	135 008	450
Total Purchased Feed - Kg & Rands		6 089 584	20 299	6 089 584	20 299	6 089 584	20 299	6 089 584	20 299	6 089 584	20 299

LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2b. Marketing Costs	Pork Producers Association Levy	Total Cost (R)	Cost/Sow (R)	Total Cost (R)	Cost/Sow (R)	Total Cost (R)	Cost/Sow (R)	Total Cost (R)	Cost/Sow (R)	Total Cost (R)	Cost/Sow (R)
Porkers	15,51	12 889	42,96	14 409	48,03	15 913	53,04	16 689	55,63	18 224	60,75
Baconers	15,51	51 571	171,90	57 666	192,22	63 731	212,44	66 740	222,47	72 788	242,63
Sausage pigs	15,51	1861	6,20	1861	6,20	1861	6,20	1861	6,20	1861	6,20
Roughs	15,51	171	0,57	171	0,57	171	0,57	171	0,57	171	0,57
Total Marketing Costs		66 491	221,64	74 107	247,02	81 676	272,25	85 460	284,87	93 044	310,15

LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2c. Veterinary Costs	Cost per Pig Sold	Total Cost (R)	Cost/ Sow (R)	Total Cost (R)	Cost/ Sow (R)	Total Cost (R)	Cost/ Sow (R)	Total Cost (R)	Cost/ Sow (R)	Total Cost (R)	Cost/ Sow (R)
Porkers	244,86	203 479	678,26	227 475	758,25	251 226	837,42	263 469	878,23	287 711	959,04
Baconers	244,86	814 160	2713,87	910 389	3034,63	1 006 130	3353,77	1 053 633	3 512,11	1 149 128	3 830,43
Sausage pigs	244,86	29 383	97,94	29 383	97,94	29 383	97,94	29 383	97,94	29 383	97,94
Roughs	244,86	2693	8,98	2693	8,98	2693	8,98	2693	8,98	2693	8,98
Veterinary Costs - Total and per Sow		1 049 715	3499,05	1 169 941	3899,80	1 289 433	4298,11	1 349 179	4 497,26	1 468 915	4 896,38

LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2d. Transport Costs	Cost per Pig Sold	Total Cost (R)	Cost/ Sow (R)	Total Cost (R)	Cost/ Sow (R)	Total Cost (R)	Cost/ Sow (R)	Total Cost (R)	Cost/ Sow (R)	Total Cost (R)	Cost/ Sow (R)
Porkers	244,86	9205	30,68	10 291	34,30	11 366	37,89	11 919	39,73	13 016	43,39
Baconers	244,86	46 041	153,47	51 483	171,61	56 897	189,66	59 583	198,61	64 983	216,61
Sausage pigs	244,86	1662	5,54	1662	5,54	1662	5,54	1 662	5,54	1662	5,54
Roughs	244,86	152	0,51	152	0,51	152	0,51	152	0,51	152	0,51
Transport Costs - Total and per Sow		57 060	190,20	63 588	211,96	70 076	233,59	73 316	244,39	79 813	266,04
TOTAL COST per SOW (B = 2a + 2b + 2c + 2d)			24 210		24 657		25 103		25 325		25 771

LITTERS PER SOW PER ANNUM	NUMBER OF PIGS MARKETED PER SOW PER ANNUM				
	17	19	21	22	24
GROSS MARGIN PER SOW (A - B)	7633	10 805	13 957	15 532	18 689
Feed Cost as % of Total Income per Sow	63,75%	57,24%	51,97%	49,68%	45,66%
Feed Cost as % of Total Allocated Costs per Sow	83,85%	82,32%	80,86%	80,15%	78,76%

1. GROSS INCOME PER BACONER + PORKER (B+P) (See Pigs - Assumptions Market Prices for the number of baconers and porkers)											
LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
1. Income	Price (R/ Kg)	Total Carcass Mass/ (P+B) (Kg)	Income/ (P+B) (R)	Total Carcass Mass/ (P+B) (Kg)	Income/ (P+B) (R)	Total Carcass Mass/ (P+B) (Kg)	Income/ (P+B) (R)	Total Carcass Mass/ (P+B) (Kg)	Income/ (P+B) (R)	Total Carcass Mass/ (P+B) (Kg)	Income/ (P+B) (R)
Porkers	32,26	12,00	387,00	11,99	386,92	11,99	386,71	12,00	387,16	12,01	387,55
Baconers	31,76	57,44	1824,31	57,45	1824,39	57,45	1824,64	57,44	1824,11	57,42	1823,65
Sausage pigs	24,82	3,18	78,83	2,84	70,50	2,57	63,80	2,45	60,90	2,25	55,83
Roughs	24,50	0,34	8,43	0,31	7,54	0,28	6,82	0,27	6,51	0,24	5,97
TOTAL KGS SOLD and TOTAL INCOME per B+P (A)		72,96	2298,56	72,59	2289,36	72,29	2281,98	72,16	2278,69	71,93	2273,01

2. ALLOCATED COSTS PER BACONER + PORKER (B+P) (See Pigs - Assumptions Market Prices for the number of baconers and porkers)											
LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2a. Purchased Feed Costs	Cost (R/Ton)	Kg/ (B+P)	Cost/ (B+P) (R)	Kg/ (B+P)	Cost/ (B+P) (R)	Kg/ (B+P)	Cost/ (B+P) (R)	Kg/ (B+P)	Cost/ (B+P) (R)	Kg/ (B+P)	Cost/ (B+P) (R)
Sows	4655	70,26	327,09	62,84	292,53	56,86	264,73	54,29	252,72	49,76	231,66
Boars	4655	5,29	24,64	4,73	22,04	4,28	19,95	4,09	19,04	3,75	17,45
1st Stage weaners	5469	11,31	61,85	10,11	55,31	9,15	50,05	8,74	47,78	8,01	43,80
2nd Stage weaners	5399	35,13	189,66	31,42	169,62	28,43	153,50	27,14	146,54	24,88	134,33
Porker stage	5399	87,34	471,55	78,11	421,73	70,69	381,65	67,48	364,34	61,86	333,98
Baconer stage	4522	79,16	357,97	70,80	320,15	64,07	289,72	61,16	276,58	56,07	253,53
Replacement gilts	4655	6,98	32,49	6,24	29,05	5,65	26,29	5,39	25,10	4,94	23,01
Total Purchased Feed - Kg & Rands		295,48	1 465,25	264,26	1 310,43	239,14	1 185,90	228,30	1 132,10	209,27	1 037,76

LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2b. Marketing Costs	Pork Producers Association Levy	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)
Porkers	15,51	12 889	3,10	14 409	3,10	15 913	3,10	16 689	3,10	18 224	3,11
Baconers	15,51	51 571	12,41	57 666	12,41	63 731	12,41	66 740	12,41	72 788	12,40
Sausage pigs	15,51	1861	0,45	1861	0,40	1861	0,36	1861	0,35	1861	0,32
Roughs	15,51	171	0,04	171	0,04	171	0,03	171	0,03	171	0,03
Total Marketing Costs		66 491	16,00	74 107	15,95	81 676	15,91	85 460	15,89	93 044	15,86

LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2c. Veterinary Costs	Cost per Pig Sold	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)
Porkers	244,86	203 479	48,96	227 475	48,95	251 226	48,92	263 469	48,98	287 711	49,03
Baconers	244,86	814 160	195,90	910 389	195,91	1 006 130	195,94	1 053 633	195,88	1 149 128	195,83
Sausage pigs	244,86	29 383	7,07	29 383	6,32	29 383	5,72	29 383	5,46	29 383	5,01
Roughs	244,86	2693	0,65	2693	0,58	2693	0,52	2693	0,50	2 693	0,46
Veterinary Costs - Total and per (B+P)		1 049 715	252,58	1 169 941	251,76	1 289 433	251,11	1 349 179	250,82	1 468 915	250,33

LITTERS PER SOW PER ANNUM		NUMBER OF PIGS MARKETED PER SOW PER ANNUM									
		17		19		21		22		24	
2d. Transport Costs	Cost per Pig Sold	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)	Total Cost (R)	Cost/ (B+P) (R)
Porkers	11,08	9205	2,21	10 291	2,21	11 366	2,21	11 919	2,22	13 016	2,22
Baconers	13,85	46 041	11,08	51 483	11,08	56 897	11,08	59 583	11,08	64 983	11,07
Sausage pigs	13,85	1662	0,40	1662	0,36	1662	0,32	1662	0,31	1662	0,28
Roughs	13,85	152	0,04	152	0,03	152	0,03	152	0,03	152	0,03
Transport Costs - Total and per (B+P)		57 060	13,73	63 588	13,68	70 076	13,65	73 316	13,63	79 813	13,60
TOTAL COST PER BACONER + PORKER (B = 2a + 2b + 2c + 2d)			1747,56		1591,83		1466,56		1412,44		1317,55

LITTERS PER SOW PER ANNUM	NUMBER OF PIGS MARKETED PER SOW PER ANNUM				
	17	19	21	22	24
GROSS MARGIN PER BACONER + POKER (A - B)	551,00	697,53	815,42	866,25	955,46
Feed Cost as % of Total Income per B+P	63,75%	57,24%	51,97%	49,68%	45,66%
Feed Cost as % of Total Allocated Costs per B+P	83,85%	82,32%	80,86%	80,15%	78,76%
DATA SOURCE: DALRRD, VKB, NAMC, WC AGRIC & KZN AGRIC					





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