HOW MUCH LAND COULD PAY A CIVIL SERVANT?

BY

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Given the large amount of land generally needed to farm profitably, there's a perception that farmers earn a correspondingly large amount of money, and have large tracts of surplus land that they could hand over for land reform. But how much land does it take to earn an adequate income, one equivalent to, say, that of a civil servant?

South Africa has a lot of agricultural land. About 86,1 million hectares are farmed, and according to the 2002 agricultural census there are 45,818 farming units. This means there's an average 1881 ha per farmer in South Africa. According to the 1993 census there were 57,980 units. That's a decrease of 21 %, which means the average unit has increased by 395 ha in nine years.

For any movement, organisation or political party promoting land reform these are naturally sensational statistics, suggesting that farms are too big and farmers could easily give up a part of them in support of land reform. Unfortunately, a hectare in one's possession doesn't mean a lot, as it only generates an income if it's used productively. Other than the land, other assets such as tractors and implements must be available before seed and fertiliser or livestock can be used to make an income.

Profitability

The average results for crops in the eastern Free State are shown in Table 1. It shows that wheat made an average profit of R601 per hectare over the past five years, compared to the R808 per hectare for maize. Potatoes made a profit of R6,981 per hectare, beans a profit of R1,477 a hectare, sunflower a profit of R574 a hectare and soya a profit of R114 a hectare. In 2005 profits are likely to be lower, showing a loss in some cases, because grain prices are at their lowest in 10 years.

With regards to livestock, Table 2 shows that dairy animals have provided an average profit of R1,873 per large stock unit (LSU) for the past five years. With a carrying capacity of 5 ha per LSU, the profit is R375 per hectare. In the case of beef cattle, the average profit over five years is R569 per LSU, or R114 per hectare. And for sheep over the past five years the profit per hectare has been an average R218 on the Highveld, R209 in the Karoo and R30 in the Kalahari.

It's clear that the total 86,186,026 hectares farmed in South Africa is not homogenous, and so doesn't generate the same profit. Because of this some viable farms are only 100 ha while others can be as large as 30,000 ha. The ultimate function of a farm's size is to ensure a sustainable livelihood for its owner, using its entire hectarage.

State salaries versus farming income

Statistics on civil servant salaries, from job level one to 12, are freely available to the public; average salaries for each level are shown in Table 3. According to this, a clerk or secretary on level one earns about R34,456 a year, while middle management officials on level 12 earn an average of R251,754 per year. Table 3 also shows how many hectares of every agricultural crop at the average profit per hectare shown in Table 1 is necessary to earn the same income as a civil servant. So a secretary on level one

needs, at an average R601 per hectare profit, 57 ha of wheat to earn his or her annual salary. A person in middle management would have to plant 419 ha of wheat to generate a salary of R251,754. Potatoes and beans require the fewest hectares to generate the same income as a state official, while soya beans require the most.

For dairy enterprises, level one officials would require 92 ha and those on level 12 some 672 ha to earn their salaries. For beef cattle the land required would be 303 ha and 2,211 ha respectively. To earn their annual salary of R251,754 by farming with sheep, level 12 state officials would need 1155 ha on the Highveld, 1,202 ha in the Karoo and 8,317 ha in the Kalahari.

Farm size

In practice, farm size is determined by economic factors. The number of hectares a farmer owns is therefore in most cases not a status symbol. A farmer can't simply hand over supposedly surplus land for land reform. A clear indication of this is that the 2002 cen sus shows 23,389 of the 45,818 farming units had a VAT turnover of less than R300,000 per year. This means that 51% of South African farmers' gross income, not even the net profit per hectare, was barely more than the salary of a level 12 state official. If farming costs are subtracted from this, it can be safely said that more than half of South Africa's farmers earn less than middle management civil servants; they are more likely to be on the support personnel level.

In Table 5 the number of hectares for every sector that represents the same income as level 12 in the civil service is divided by the total hectares available for agriculture. If all hectares could be used for potatoes, there would be two million farming units with a yearly income of R257,754, while only 38,968 units could exist for meat farming. It is not practically possible to divide farms like this because the climate and area plays an important role in the type of enterprise, or ultimately the combination of enterprises, in production on a farm.

The current farm sizes are mostly the result of economic factors. The decreasing farming sectors, with the resulting increase in farm sizes, can be attributed to the economy of scale which means that farming units gradually have to increase in order to overcome the cost-price squeeze. It is thus a myth to think that the farms of *bona fide* commercial farmers are too big and that they have extra hectares that they could make available for land reform.

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TABLE 1: AVERAGE PRODUCTION COSTS FROM 2000 TO 2004 FOR CROPS						
	Wheat R/ha	Potatoes R/ha	Beans R/ha	Maize R/ha	Sunflower R/ha	Soya R/ha
Product sales Insurance received Other income and feed	2166 122 29	20401 85 789	3269 23 1099	2523 18 509	1879 27 146	1742 29 116
TOTAL INCOME	2317	21275	4390	3051	2052	1887
Seed Fertiliser Weed control Pest control Drying, cleaning and storage Marketing Crop insurance Planting costs Imparion costs Transport costs Castel labour Direct potrol Direct topsins	21 207 57 32 8 2 7	1738 1562 315 1592 22 2230 87 2 168 1049 882 40	428 506 204 246 4 5 162 90 54 7 58 3	199 478 138 74 34 36 103 41 10 10 17 3	116 249 65 45 16 25 129 51 5 0	149 188 174 26 15 10 218 33 4 5 13 0
Packaging DIRECT COSTS	0 959	1 512 11475	26 1806	11/17	715	838
Personal costs person Pempanent about portion Repaire portion Penson gorden	959 181 400 76		151 259 259 475 223	1147 206 254 508 222	715 81 137 377 1 68	68 226 421 220
PROPORTIONAL COSTS TOTAL COSTS CROP MARGIN	757 1716 601	2819 14294 6981	1108 2914 1477	1095 2242 808	763 1478 574	935 1773 114
Salation (granted) Price per sala (mart per ton)	28 1133	12.5 TE	12 3510	3.4 886	1.3 1614	1.1 1731

TABLE 2: AVERAGE PRODUCTION COSTS FROM 2000 TO 2004 FOR LIVESTOCK					
	Dairy R LSU	Beef R LSU	Highveld R LSU	Sheep Karoo R LSU	Kalahari R LSU
Product edits	5607	47	498	747	0
Livestock parchases Diginning stocks	124 4485	1853 435 436	2990 -507 -4383	2740 -507 4987	2990 -507 4387
Ending stocks Gross production Val	-4521 UB 6236	4037 1424	2148	2148	0230 1650
Feed bought and produced Licks and supplements	2028	59 190	67 199	0 0	0 8
Veneralary G-costs Diox	137 48 64	59 6 0	99 4 3	40 0 0	20 0
Product insurance : Marketing costs	0 140	1 35	1 200	0 200	0 200
Transport costs Labour costs Petrol	62 38 29	5 0 0	4 17 0	12 25 0	24 0 0
Repairs Consultations	83 9 8	3	7	7 3	7 3
Shall fees Other cours	0 387	3		202	
DIRECT COSTS Cost of planted pastures	37/04 439	375 270	851 227	298 0	260 0: ***
Permanant labour portion Repairs portion	61	103	99 81	99 81	99 81
Proportional costs Total costs Sector margin	660 4363 1873	479 854 569	407 1058 1090	180 472 1676	180 439 1211
Corryling capacity/LSU Margin/hoctares	5	1100		8 209	40 30
Price/unit (Nand/Stra)	1.95	1553.30	Section of the last of the las	581.19	498.33

Job description	Job	Average	Hectares needed to earn salary							
	ievei	salary					Sunflower	Soya		
Clerts and secretari			1			43	e aries	212		
(A) (A) (A)	1	K88.501	64	6.	26	48	67	330		
2.215 L	3	R45,247	75	6	31	56	79	397		
Elen Granden	a service de	R53,098	88	8	36	46	92	468		
Manual, All Sec	5	R63,136	105	9	43	78	110	54		
inbbeit berzauer	010	H77,766	129 162	11	53	95 120	136 170	682 654		
in which works	-	R97,371 R120,298	A Section 1	14 17	B1	149	210	105		
Aiddle management	9	R145.286	-	21	98	180	253	127		
C. Salarentis M. Prisi	10	R179.289	A Company of the Company	26	121	222	312	157		
	11	R209,168	Section County	30	142	259	364	1835		
	12	R251,745	419	36	170	311	438	2209		

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Job description	Joh ievel	Average salary	Hectares needed to earn salary Sheep Dairy Beef Highveld Karoo Kalahari				,
Cleans and Constants	1 2 3 4	R34,456 R38,601 R45,247 R69,098 R63,136	183 121 142 148	异君异草药	158 177 208 244	164 184 216 253	1138 1275 1495 178
Support personnel ##diffe	6 7 8 9	R77,766 R97,371 R120,296 R145,286 R179,289	388 479	883 855 1056 1276 1574	4行 5型 開6 8Z2	374 486 574 694 856	3974 3974 4800 5423
	11 12	R209,168 R251,745	558 672	1837 2211	959 1155	998 1202	6910 8317

TABLE 5: NUMBER OF UNITS PER SECTOR				
Sector	Units			
Wheat	205883			
Poteoes	2390117			
Beans	505547			
Maize	276807			
Sunflower	196563			
Soya	39016			
Deiry	128246			
Beef animals	38986			
Sheep - Highwald	74638			
Sheep - Karoo	71710			
Sheep — Kalahari	10363			