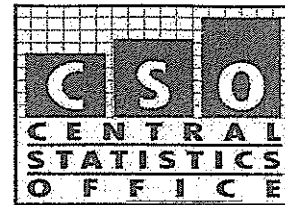


Republic of Botswana

CENTRAL STATISTICS OFFICE  
Private Bag 0024  
GABORONE, BOTSWANA



All correspondence should be addressed to the Government Statistician

CONFIDENTIAL

2004 AGRICULTURAL CENSUS

Collected under Statistics Act ( Cap 17:01)

FORM IV: COMMERCIAL FARMS AND RANCHES

Section I: IDENTIFICATION

	<i>For Office Use Only</i>	
	1 Agricultural Region:	<input type="text"/>
	2 Agricultural District:	<input type="text"/>
	3 Block Number	<input type="text"/>
	4 Questionnaire Number	<input type="text"/>
<hr/>		
<hr/>		
<hr/>		
<hr/>		

5 If the above Name is incorrect or the Estate has a New Owner, please write the correct address in the opposite box.

(Unless otherwise stated, responses are to be circled)

6 What is the Farm Number ?

7 If this Farm is also known by another Name, please indicate: \_\_\_\_\_

8 Ownership status                      1. Owner    2. Leasee

8a Name of Owner/Leasee \_\_\_\_\_

9 Sex    1. Male    2. Female

10a In which Block is this Farm located? (enter appropriate code)

- |                      |                     |                     |                      |
|----------------------|---------------------|---------------------|----------------------|
| 1. Tuli Block        | 7. Lobatse Freehold | 13. Haina Veld TGLP | <input type="text"/> |
| 2. Tati Block        | 8. Sand Veld TGLP   | 14. Nata TGLP       |                      |
| 3. Gantsi Freehold   | 9. Ngwaketse TGLP   | 15. Lepasha TGLP    |                      |
| 4. Molopo Freehold   | 10. Kgalagadi TGLP  | 16. Barolong Farms  |                      |
| 5. Gaborone Freehold | 11. Kweneng TGLP    | 17. Other (Specify) |                      |
| 6. Pandamatenga      | 12. Gantsi TGLP     |                     |                      |

10b What is the total area for this particular Farm?                      Hectares

10c Is the farm fenced?                      1. Yes    2. No

11 Indicate the type of Organisation or Management of this Farm :(enter appropriate code)

- |                            |                           |                      |
|----------------------------|---------------------------|----------------------|
| 1. Individual Ownership    | 5. Public Limited Company | <input type="text"/> |
| 2. Partnership             | 6. TGLP Syndicate         |                      |
| 3. Co-operative            | 7. Government             |                      |
| 4. Private Limited Company | 8. Other (Specify)        | _____                |

12 How do you rate the production of this ranch?                      (enter appropriate code)

- |              |         |                      |
|--------------|---------|----------------------|
| 1. Very Good | 3. Fair | <input type="text"/> |
| 2. Good      | 4. Poor |                      |

13 Are there other farms in this Block that are under the same Ownership as this one?

Yes = 1

No = 2 → Section II

14 Please give Farm Names, Locations and Total Area for each Farm specified.

	Name	Postal Address	Area	Unit
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

\* Please do not include information from these Farms on this form. You will be sent separate FORMS for each Farm that you have specified in Question 14.

**Section II : LIVESTOCK: BEEF AND DAIRY CATTLE**

15a Does this Farm have any Cattle?

- 1. Dairy only
- 2. Beef only
- 3. Both
- 4. None

→ Question 17a

} → Question 16a

15b Did this Farm have any Cattle during this agricultural season?

- 1. Yes
- 2. No

→ Question 19

→ Question 26a

**A: BEEF CATTLE ONLY**

16a How many of the following beef animals do you have for each breed on this Farm?

Breed	Bulls	Oxen	Cows	Heifers	Tollies	Bullocks	Male Calves	Female Calves
1. Semintal								
2. Charollier								
3. Brown Swiss								
4. Tuli								
5. Bonsmara								
6. Brahman								
7. Sussex								
8. Afrikander								
9. Santa Getrudis								
10. Crosses								
11. Tswana								
12. Other (specify)								
<b>TOTAL</b>								

16b Cattle Breed Preference: Which breed of beef cattle do you prefer most?

\_\_\_\_\_

16c Why do you prefer this particular breed?

\_\_\_\_\_

**B. DAIRY CATTLE ONLY**

17a How many of the following dairy animals do you have for each breed on this Farm?

Breed	Bulls	Oxen	Cows		Heifers	Tollies	Bullocks	Calves
			Milking	Dry				
1. Dairy Semintal								
2. Brown Swiss								
3. Jersey								
4. Holstein								
5. Friesian								
6. Dairy Swiss								
7. Dairy crosses								
8. Other (specify)								
TOTAL								

17b Cattle Breed Preference: Which breed of dairy cattle do you prefer most?

17c Why do you prefer this particular breed?

17d Breeding Stock: How many were bought and what were the costs during this agricultural season?

1. Locally
2. Imported
3. Other

Number	Cost

17e Were the animals tested for TB and Brucellosis during this agricultural season?  
( tick appropriate box)

	Yes	No
TB		
Brucellosis		

**MILK AND MILK PRODUCTS**

18a How much milk is produced per day in litres?

18b How much milk is produced per lactation period? (I .e in 305 Days)

price

18c What is the farm gate price per litre?

18d To whom is the raw milk sold ?

1. Processing plant

2. Consumer

18e Is some of the milk produced in this farm processed to produce the following?

- Product
1. Pasturised milk
  2. Sour milk
  3. Yoghurt
  4. Cheese
  5. Other (specify)

(tick appropriate box)

Product	Yes	No
1. Pasturised milk		
2. Sour milk		
3. Yoghurt		
4. Cheese		
5. Other (specify)		

18f What are the quantities produced monthly per each product and the retail prices?

Product	Quantity	Weight per unit of measure	Retail price/unit	Sold To
Pasturised milk				
Sour milk				
Yoghurt				
Cheese				
Other (specify)				

**DAIRY EQUIPMENT AND PROBLEMS ENCOUNTERED**

18g How many of the following do you have and are either in good working condition or temporarily out of order?

- Milk cooling tank
- Milking machine (with its accessories)
- Milk cans
- Milk strainer
- Strip cup
- Seamless milk buckets
- Nitrogen flask

Working condition		
Working	Out of order	Total

18h Are there any problems that you experience in this dairy farm ? (Tick in box)

- 1. Market problems
- 2. Veterinary support services
- 3. Other (specify)

Yes	No

**C: BOTH BEEF AND DAIRY**

19 Breeding Method: What is the breeding method used amongst your Cattle?  
 1. Artificial insemination  
 2. Bull service  
 3. Both

19a Why do you prefer this particular method?  
 \_\_\_\_\_

**CALVES ONLY**

19b Births: How many Calves were born during this agricultural season through each method?  
*include those dead, lost, sold etc*

Method of Breeding	Number of calves
1. Artificial insemination	
2. Bull service	

19c Deaths: How many Calves died during this agricultural season?

(Number)

1. Beef

2. Dairy

20 Loss: How many Calves were lost due to strays and theft during this agricultural season?

(Number)

1. Beef

2. Dairy

**CATTLE - -EXCLUDING CALVES**

21 Deaths: How many Cattle, excluding Calves, died during this agricultural season?

(Number)

1. Beef

2. Dairy

22 Lost: How many Cattle excluding calves were lost due to strays and theft during this agricultural season?

(Number)

1. Beef

2. Dairy

23 Consumption: How many Cattle were slaughtered for home consumption during this agricultural season?

(Number)

1. Beef

2. Dairy

23a How many cattle were eradicated due to cattle disease outbreaks during this agricultural season?

(Number)

1. Beef

2. Dairy

24 Given away: How many Cattle were given away (including Bogadi/Lobola) during this agricultural season?

(Number)  
 1. Beef   
 2. Dairy

25a Sales : How many Cattle were sold or traded out during this agricultural season?

Sold To	Sold		Traded Out		
	Number	Value	Number	Value	Description
1. BMC Direct					
2. BMC Agent					
3. At Auction					
4. Municipal Abbatoir					
5. Another Farmer					
6. Village Abbatoir					
7. Trader					
8. Butcher					
9. Feedlot					

25b Purchases: Number of Cattle purchased/obtained during this agricultural season?

Purchased/Obtained	Number	Value	Description of goods given out	office Use
1. Beef	1. Purchased			
	2. Obtained			
2. Dairy	1. Purchased			
	2. Obtained			

**Section II : LIVESTOCK: GOATS**

26a Does this farm have any Goats?

Yes=1  $\longrightarrow$  Question 27  
 No = 2

26b Did this Farm have any Goats during this agricultural season?

Yes=1  $\longrightarrow$  Q 28  
 No = 2  $\longrightarrow$  Q 37a

27 How many of the following animals do you have on this Farm?

Breed	Uncastrated males	Castrated Males	Females	Male Kids	Female Kids
1. Boer goat					
2. Sanaan					
3. Tswana					
4. Other (specify)					
Total					

**K I D S O N L Y**

28 Births: How many Kids were born during this agricultural season?  
*include those dead, lost, sold etc*

29 Deaths: How many Kids died during this agricultural season?

30 Lost: How many Kids were lost due to strays and theft during this agricultural season?

**GOATS - EXCLUDING KIDS**

31 Deaths: How many Goats, excluding Kids, died during this agricultural season?

32 Lost: How many Goats(excluding Kids) were lost due to strays and theft during this agricultural season?

33 Consumption: How many Goats were slaughtered for consumption during this agricultural season?  
*Include those slaughtered for weddings, death ceremonies and all other ceremonies*

34 Given away: How many Goats were given away during this agricultural season?

35 Sales: How many Goats were sold or traded during this agricultural season?

Sales/Traded	number	Value (Pula)	Description of goods received where applicable	(Office Use)
1. Sales				
2. Traded				

36 Purchased: How many goats were purchased/obtained during this agricultural season?

Purchased/Obtained	number	Value (Pula)	Description of goods given out where applicable	(Office Use)
1. Purchased				
2. Obtained				

**Section II: LIVESTOCK: SHEEP**

37a Does this Farm have any Sheep?

Yes = 1 → Q 38  
No = 2

37b Did this Farm have any Sheep during this agricultural season?

Yes = 1 → Q 39  
No = 2 → Q 48

38 How many of the following animals do you have on this Farm?

Breed	Uncastrated males	Castrated Males	Female sheep	Male Lambs	Female Lambs
1. Dorper					
2. Karakul					
3. Tswana					
4. Other (specify)					
Total					

**LAMBS ONLY**

39 Births: How many Lambs were born during this agricultural season?  
*include those dead, lost, sold etc*

40 Deaths: How many Lambs died during this agricultural season?

41 Lost: How many Lambs were lost due to strays and theft during this agricultural season?

**SHEEP - EXCLUDING LAMBS**

42 Deaths: How many Sheep, excluding Lambs, died during this agricultural season?

43 Lost: How many Sheep (excluding Lambs) were lost due to strays during this agricultural season?

44 Consumption: How many Sheep were slaughtered for consumption during this agricultural season?  
*Include those slaughtered for weddings, death ceremonies etc*

45 Given away: How many Sheep were given away during this agricultural season?

46 Sales: How many Sheep were sold or traded during this agricultural season?

Sales/Traded	number	Value (Pula)	Description of goods received where applicable	office use
1. Sales				
2. Traded				

47 Purchased: Purchased/obtained during this agricultural season?

Purchased/Obtained	number	Value (Pula)	Description of goods given out where applicable	Office Use
1. Purchased				
2. Obtained				

**Section II: LIVESTOCK: OTHER LIVESTOCK**

48 How many Other Livestock are on this Farm/Ranch and how many were sold or traded during this agricultural season?  
*If animals were exchanged for other goods, state the value or the description of those goods?*

ANIMAL	Current Number	SALES		TRADED OUT		office use Value
		Number	Value	Number	Description of traded goods received	
1. Pigs						
2. Donkeys/Mules						
3. Mules						
4. Horses						
5. Dogs						
6. Chickens						
7. Ostriches						
8. Other Birds						
9. Other Animals						

49a Were any vaccines/drugs/medicines used on your livestock during this agricultural season?

Yes = 1  
No = 2    ⇒    Q 50a

49b What vaccines/drugs/medicines did you use?  
(write names of vaccines/drugs/medicines below)

1 _____	4 _____
2 _____	5 _____
3 _____	6 _____

49c What were these vaccines/drugs/medicines used to control?

*Tick where appropriate*

1. Insects	2. Parasites	3. Disease/Fungi	4. Other (Specify)

**Section III: A. CROP PRODUCTION (Cereal Crops, Fruits, & Vegetables)**

50a Did you or any member of this holding plant/ grow any crops, fruits or vegetables in this Farm during this agricultural season?

Yes = 1  
No = 2    ⇒    Q 62

50b Are there any crops under irrigation during this agricultural season?

Yes = 1  
No = 2    ⇒    Q 54

51 Please indicate the type of irrigation system used (*Tick where appropriate*).

1. Furrow	2. Drip	3. Sprinkler	4. Centre Pivot	5. Basin	6. Micro Jet	7. Hose

**Section III: B. CROP PRODUCTION : WATER SOURCE AND MARKETING OF HORTICULTURAL PRODUCE**

52 What is your most reliable source of water supply for your crops?  
(*Tick where appropriate*)

Bore-hole	Dam	River

53 Who owns the water source?    (*enter code in box*)

1. Self
2. Family
3. Syndicate
4. Community
5. Council
6. None

**Section IV: FARMING PRACTICE USE OF FERTILISER**

54 Were any fertilisers used on any of your crop fields?

Yes = 1  
No = 2    ⇒    Q57

55 What kind of fertilisers did you use?

1. Chemical only
2. Manure only
3. Both chemical and manure

56 What was the overall quantity used?

Kg

57 Were any pesticides used on your crop fields?

Yes = 1  
No = 2    ⇒    Q 59

58 What kind of pesticide did you use? (*enter code in box*)

- |                      |                 |
|----------------------|-----------------|
| 1. Parathion         | 6. DDT          |
| 2. Diamond Backmorth | 7. Addeen       |
| 3. Malathion         | 8. Cypermethrin |
| 4. Carbarly          | 9.....          |
| 5. Alphamethrin      | 10. ....        |

**Section V DISPOSAL OF YOUR CROP PRODUCTION**

59 Please give details below of the total area planted and harvested and the crop production and disposal in the agricultural period. For perennial crops, give total area under cultivation.

Crops	Crop Area Planted and Harvested			Total Production for the Season			Disposal of your Production for the Season						Crop Code Office Use Only		
	Total Area in Hectares (Including Irrigated)		Irrigated Area only	Total Production (including irrigated)		Irrigated Area Only	Number of Units Sold	Average Price per Unit Sold (Pula)	Total Receipts from Sales Already Made (Pula)	Number of Units Expected to Sell	Expected Total Receipts from column 12 (Pula) *	Units given away & Home Consumption **		Units for Payment in Kind **	
	Planted	Harvested		Number of Units	Weight (kg) per Unit										Number of Units
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>A. GRAINS</b>															
1. Sorghum															
2. Maize															
3. Pearl millet															
4. Finger millet															
5. Wheat															
<b>B. CASH CROPS</b>															
1. Cow peas															
2. Common beans															
3. Tepary beans															
4. Mug beans															
5. Jugo beans															
6. Sunflower															
7. Groundnuts															
8. Cotton															
9. Lucerne															
10. Chillies															
11. Okra															
12. Baby Marrow															
13. Egg Plant															
14. Sweet reed															
15. Sugar cane															
16. Lablab															
17. Olive															

- Notes:
1. Please include any crops you have that are not listed.
  2. In columns 6, 7, 8, 9, 10, 12, 14, 15, by UNIT we mean a bag, bundle, etc. Specify average weight per unit in column 7.
  3. Columns 9, 10 & 11 deal with sales you have already made, while column 12 deals with sales you still expect to make from the harvest of the current agricultural season (October of previous year to September of current year)
  4. \* Column 13 requires the expected total receipts from the remaining units still to be sold.
  5. \*\* Include in: Column 14 quantity for your own household consumption & given away, Column 15 quantity used for farm labourers as payment in kind,



Crops	Crop Area Planted and Harvested				Total Production for the Season			Disposal of your Production for the Season					Crop Code Office Use Only		
	Total Area in Hectares (Including Irrigated)		Irrigated Area only		Total Production (including irrigated) Number of Units	Weight (kg) per Unit	Irrigated Area Only Number of Units	Number of Units Sold	Average Price per Unit Sold (Pula)	Total Receipts from Sales Already Made (Pula)	Number of Units Expect to Sell	Expected Total Receipts from column 13 (Pula) *		Units for Home Consumption **	Units for Payment in Kind **
	Planted	Harvested	Planted	Harvested											
C. VEGETABLES	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. Potatoes															
2. Tomatoes															
3. Onions															
4. Cabbage															
5. Spinach															
6. Carrots															
7. Beet Root															
8. Rape															
9. Kale															
D. FRUIT															
1. Oranges															
2. Naartjies															
3. Lemons															
4. Grapefruit															
5. Bananas															
6. Watermelons															
7. Mango															
8. Peaches															

- Notes:
1. Please include any crops you have that are not listed.
  2. In columns 6, 7, 8, 9, 10, 12, 14, 15, by UNIT we mean a bag, box, bundle, etc. Specify average weight per unit in column 7.
  3. Columns 9, 10 & 11 deal with sales you have already made, while column 12 deals with sales you still expect to make from the harvest of the current agricultural season (October of previous year to September of current year)
  4. \* Column 13 requires the expected total receipts from the remaining units still to be sold.
  5. \*\* Include in: Column 14 quantity for your own household consumption & given away, Column 15 quantity used for farm labourers as payment in kind,

60 Who are your major Crop Buyers (during this agricultural season?)

1. BAMB
2. BAMB Agent
3. Co-operative
4. Trader
5. Exported
6. Millers
7. Public
- Other (specify)-----

61 To which of the following buyers do you sell your horticultural produce?  
(Circle appropriate codes)

1. Wholesalers
2. Farm Stall
3. Retailers
4. Street Vendors
5. Fresh Produce Market
6. Institutions
7. Public
- Other (specify)-----

62 Do you have any land in this Farm that you did not plough/plant during this agricultural season?

Yes = 1  
No = 2 ⇒ Q 64

63 What is the total fallow area this season in hectares ?

Hectares

--

**Section VI: AGRICULTURAL EQUIPMENT AND IMPLEMENTS**

64 How many of the following do you own and are either in good working condition or temporarily out of order?  
(Read out the list and put in the number inside the box)

	Total Number	Good Condition	Temporarily Out of Order
1. Harrow			
2. Single Plough			
3. Double Plough			
4. Single Planter			
5. Double Planter			
6. Cultivator			
7. Mower			
8. Hand Hoe			
9. Rake			
10. Wheel Barrow			
11. Thresher			
12. Tractor			
13. Truck			

	Total Number	Good Condition	Temporarily out of order
14. Trailer			
15. Cart			
16. Spray race			
17. Spray pump			
18. Dip-tank			
19. Maize grinder			
20. Maize Sheller			
21. Bailer			
22. Forage Hrvester			
23. Double harvester			
24			
25			
26			

**Section VII: AGRICULTURAL LABOUR AND FARM CREDIT**

65 a. Are you aware of any Credit Institution(s)?

Yes = 1      No = 2 ⇒ Q67

b. Did you apply for any Credit this agricultural season?

Yes = 1      No = 2 ⇒ Q67

c. To which credit Institution did you apply ?

1. NDB	2. Commercial Banks	3. Other (Specify)

d. Did you receive any Credit during this agricultural season?

Yes = 1      No = 2 ⇒ Q67

e. Which credit Institution helped you?

1. NDB	2. Commercial Banks	3. Other (Specify)

f. How much was the credit during this Agricultural Season?

amount

P	
---	--

66 What was this Credit used for?

1. Livestock	2. Crops	3. Other <i>(Specify)</i>

67 Did you employ any agricultural workers during this agricultural season ?

Yes = 1

No = 2 → Q68

<b>NOTE: COMPLETE TABLE ON QUESTION 67 FIRST ON PAGE 12 IF CODE IS 1 (YES)</b>
--

68 What are the difficulties affecting the operations of this farm?

*(Circle appropriate codes)*

- 1. Unavailability of credit facilities
- 2. Lack of management skills
- 3. Lack of Skilled manpower
- 4. Transport problems
- 5. Lack of storage
- 6. Lack of space
- 7. Other (specify) \_\_\_\_\_

69 What kind of assistance would you consider useful to your farm?

*(Circle appropriate codes)*

- 1. Access to modern technology
- 2. Assistance with marketing
- 3. Training of workers
- 4. Better access to loans
- 5. Other (specify) \_\_\_\_\_

70 If training is indicated in Q69, What type of training is required?

*(Circle appropriate codes)*

- 1. Technical skills
- 2. Commercial- book keeping/financial
- 3. Managerial/marketing
- 4. Literacy programme

THANK YOU

RE A LEBOGA

DANKIE

<i>Comments</i>	

Question 67  
PEOPLE CURRENTLY EMPLOYED IN THIS HOLDING

1 NAME	2 SEX	3 AGE	4 CITIZENSHIP	5 MARRITAL STATUS	6 SCHOOL ATTENDANCE	7 HIGHEST LEVEL	8 SKILLS ACQUIRED	9 EMPLOYEE STATUS	10 OCCUPATION	11 MODE OF PAYMENT	12 AMOUNT	13 CASH EQUI-
W O R K E R	1. Male 2. Female	How Old is ... ?  (Age In Completed Years)	What is the country of... 's citizenship? 001 Botswana 002 Angola 003 Lesotho 004 Malawi 005 Mozambique 006 Namibia 007 South Africa 008 Swaziland 009 Zambia 010 Zimbabwe 011 Tanzania 012 DRC 013 Mauritius 014 Seychelles Other - (specify)	What is ... 's marital status?  1. Never attended School Go to colm 9 2. Yes- Attending 3. Yes - But Left School	Has ... Ever Attended School?  1. Never attended School? 2. Yes- Attending 3. Yes - But Left School	What is the Highest Level/ Grade Completed? Has ... Completed?  (Use Education Codes Given below)	How did ... Get the Skills He/She uses now?  1. Self taught 2. Apprentice- ship 3. On the Job 4. Technical/ Vocational Institution Other... (Specify)	What is ... working as?  1. Employee - paid cash 2. Employee - paid in kind 3. Self employed - no employees 4. Self employed - with employees 5. Unpaid family helper 6. Worked in own lands/ cattlepost (unpaid)	What type of WORK does ... do ?  (Use at least two words to describe his/her work. Probe as necessary.)  OFFICE USE ONLY	How is ... Paid  1. Cash Only 2. In Kind only (Go To Column 15) 3. Both 1 & 2 (Complete both columns 14 and 15)	How Much Cash To The Nearest Pula?  (If code 1 in col. 13, then end interview otherwise go to col. 15)	How Much Is the Cash Equivalent of the In Kind Payment to the Nearest Pula?
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

NOTE: Column 8 - HIGHEST LEVEL OF EDUCATION COMPLETED:

Pre-school	Primary	Secondary	Non Formal
00 1st year not completed	10 Standard 1 not completed	21 Form 1	60 Primer 1 not completed
01 1st year completed	11 Standard 1	22 Form 2	61 Primer 1
02 2nd year completed	12 Standard 2	23 Form 3	62 Primer 2
09 Don't know		24 Form 4	63 Primer 3
		25 Form 5	64 Primer 4
		26 Form 6	65 Primer 5
		29 Not Known	69 Not Known