



# **1979 LIVESTOCK AND CROP SURVEY**

**AGRICULTURAL  
STATISTICS UNIT**

**PLANNING AND STATISTICS  
MINISTRY OF AGRICULTURE**

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## PREFACE AND ACKNOWLEDGEMENTS

The 1979 Agricultural Livestock and Crop Survey is a continuation of a series of annual surveys since 1967. This survey is part of the overall Agriculture Statistics Unit program to provide accurate and timely agricultural data needed for policy decisions and planning purposes.

The major changes in this 1979 Agricultural Livestock and Crop Report, compared to previous years' reports, are the following additions:

1. Estimates are shown by Agricultural Extension Regions and Districts.
2. Estimates for freehold and traditional farms are included into one report.
3. Births, deaths, sales, home slaughter, and purchases are presented for sheep and goats and, the first time since 1972, for cattle.
4. Numerous distributions by size of holdings are included for both crops and livestock.
5. Estimates of herd composition are shown for sheep and goats.
6. Planted area, harvested area, total production and average production are published for groundnuts, sunflowers, millet and beans, in addition to sorghum and maize.
7. The coefficient of variation is presented for the estimates of country totals.

The sample size is the largest used to date, thus helping reduce sampling errors. However, the major emphasis was placed upon reducing non-sampling errors through training schools and improved techniques, increased quality control and supervision, and improved edit and summary procedures and programs.

A major survey such as this can be accomplished only with the dedication of all who are associated with it. Grateful acknowledgement is due to M. G. Singh, the Agricultural Statistics Units Head, without whose cooperation and effort the survey would not have been completed. Also, to Jeff Hinchliffe, Systems Analyst/Programmer, who wrote all the generalized edit and analysis programs, and to Sue Jones, who typed this report. Special thanks are also due to Large Charumbira and Brian Mabongo, and to all of the supervisors, enumerators, and clerks.

WILLIAM F. KELLY  
Statistician

# 1979 LIVESTOCK AND CROP SURVEY

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## 1979 LIVESTOCK AND CROP SURVEY

### Area of Coverage

The 1979 Agricultural Livestock and Crop Survey covered the traditional tribal farms in the Agricultural Administrative Regions and all freehold and commercial farms in the country. The area of coverage for traditional farmers includes the five Agricultural Extension Regions comprised of 16 districts. These regions and districts are shown in the following map. This is the first time that data from both the traditional and freehold farm sectors were collected in one survey period and published in one report.

The 1979 estimates represent the most comprehensive coverage to date. However, excluded from the estimates are data on the traditional farms in the Western Region in the Administrative Districts of Kgalagadi and Ghanzi, and traditional farms located in freehold land areas. The number of traditional farms in these areas is estimated at about 5 percent of the total number of farms.

### Methodology

The 1979 Agricultural Livestock and Crop Survey is a multiple frame survey. That is, a list of names was used for the freehold farms, and small areas of land, called blocks, were used for traditional farms.

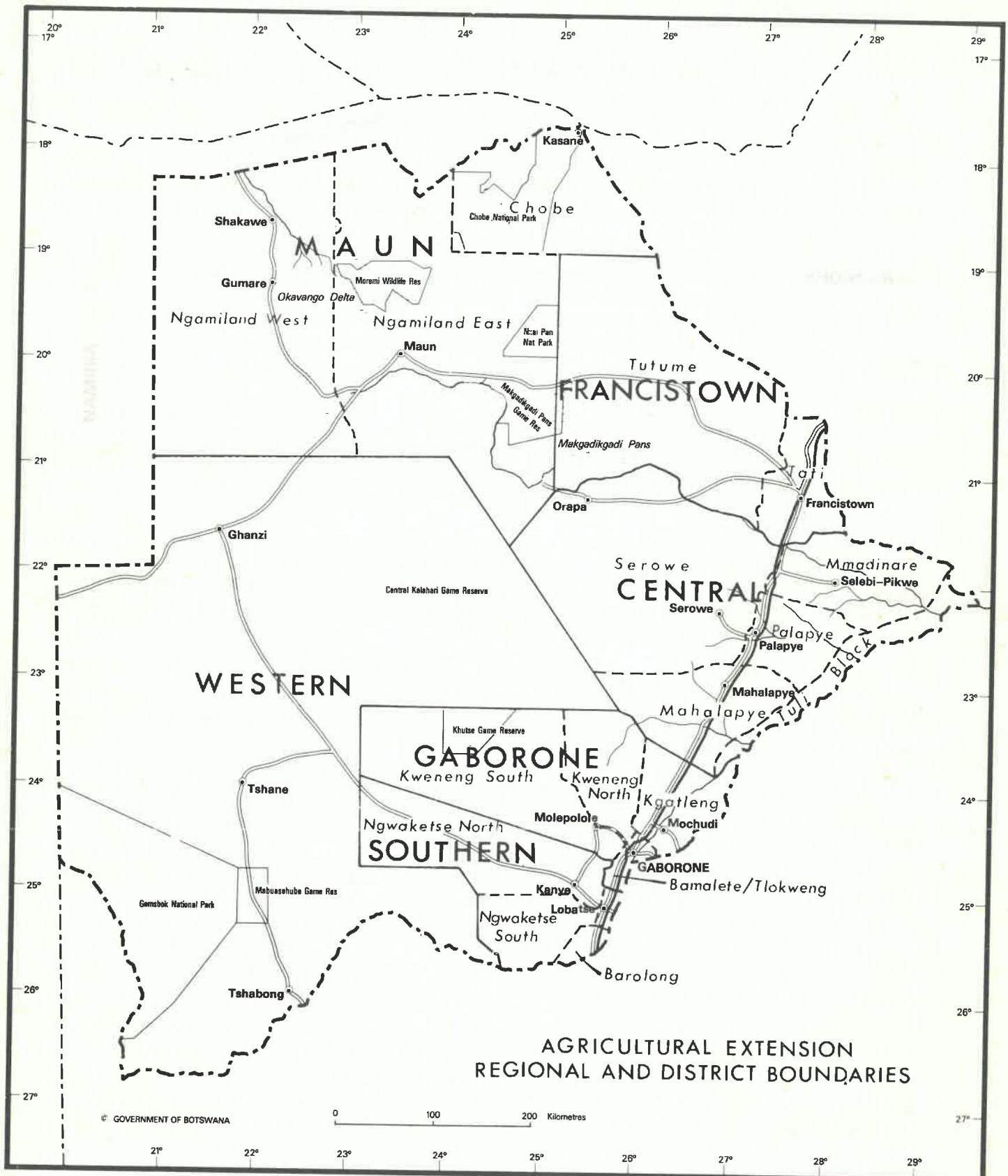
A list of freehold and commercial farm operations was obtained from the Central Office of Statistics. All farm operations were mailed a letter questionnaire and return envelope on June 22, 1979, followed by a second mailing three weeks later. After three more weeks, a random sample of one in four of the non-responses was selected.

A questionnaire was required from every operation selected in the non-response sample and these data were obtained through personal interviews in August. The total number of questionnaires obtained from the mail returns and follow-up was 141 out of 360 farms.

The traditional farms were selected by using an area sample. The land area of the country is stratified according to cattle posts, lands and villages, and these are divided into smaller areas of land called blocks. The blocks were the primary sampling unit and were selected from each district according to the probability proportional to their estimated number of agricultural households. The secondary sampling unit was the agricultural holders "living" within the blocks, and they were selected randomly. Shown by regions and districts in Table 1 are the population of blocks, the sample number of blocks, and sample number of farm householders. About one out of 100 farm householders were sampled in this Survey.

The measure of the precision for individual country estimates is stated in terms of the relative standard error called the Coefficient of Variation (C.V.). The standard error may be calculated by multiplying the estimate by the coefficient of variation. The coefficients of variation are shown in summary Tables 2 and 3 for the total individual national estimates.

# REPUBLIC OF BOTSWANA



### Training, Data Collection and Summarization

Emphasis was placed upon training schools, supervision, and quality control in order to reduce non-sampling errors.

Two separate training schools were held. The first school was conducted in April 1979 on livestock, area planted, and measurement of areas. The second school held in May 1979 was conducted on area harvested, production, and freehold farms. The supervisors received additional training and instructions at the training schools. The three manuals used in the instructions of the school are available upon request.<sup>1/</sup>

The data collection was carried out by five field teams, each consisting of a supervisor, four enumerators, and one driver with vehicle.

The survey was conducted in four different stages, which are as follows:

- Stage I     January-May: Listing of names in sample blocks.
- Stage II    April-May: Enumeration of crops planted, livestock data, and measurements of crop areas for traditional farmers.
- Stage III   June-July: Enumeration of crops harvested and crop production for traditional farmers.
- Stage IV    June-August: Collected freehold and commercial farm data for crops planted, crops harvested, production and livestock.

Supervisors made a final review of all completed questionnaires before leaving a block. Upon completion of a block, the questionnaires were mailed to the Gaborone central office. The questionnaires were checked and then edited and coded upon arrival in the office. The survey teams were contacted immediately when questions or apparent problems with data were found.

Data were then entered directly from the questionnaire into the computer through terminals. A comprehensive machine edit was used on the data before they were summarized. These data were available within weeks after the completion of the survey. The edit and summary programs are generalized programs that will be used to summarize last year's data (1978), and will be used for future surveys.

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<sup>1/</sup> "Enumerators Manual 1979 Agricultural Crop and Livestock Survey," April 1979, Agricultural Statistics Unit, Ministry of Agriculture.

"Enumerators Manual 1979 Crops Harvested and Crop Production," June 1979, Agricultural Statistics Unit, Ministry of Agriculture.

"Supervisory Enumerators Manual," June 1979, Agricultural Statistics Unit, Ministry of Agriculture.

### Interpretation of Data

An understanding of the data and their limitations are needed for correct interpretation for policy and planning purposes. Some of the limitations in these data are as follows:

1. District estimates were published because of the need for small area statistics. The user should realize that the standard errors for the district estimates are relatively large. However, as a time series is developed and in the case of next year when sample size will be increased, the district estimates will become more reliable.
2. Individual farm data were assigned to the district where the farmer was "living" at the time of the interview. The livestock or crops might be located in a different district causing some distortion in "true" district totals.
3. All national estimates exclude data from traditional farms located in the Western Region and traditional farms located in freehold farm areas.
4. A point system was used to determine whether a marginal holder qualified as a farm (see below). This definitional change of a farm resulted in about a 2,000 decrease in farm numbers from the definition used in 1977.
5. Areas for mixed crops were divided into equal proportions.

### Terms and Definitions

Farm: A minimum of 50 total points is required to qualify a household as a farm. Point values are as follows:

	<u>Points</u>
Fallow land per hectare-----	50
Sorghum per hectare-----	100
Maize per hectare-----	100
Millet per hectare-----	100
Beans per hectare-----	100
Vegetables/fruit per hectare-----	400
Sunflowers per hectare-----	200
Groundnuts per hectare-----	200
Other crops per hectare-----	100
Cattle per head-----	40
Pigs per head-----	25
Horses per head-----	20
Mules per head-----	20
Goats per head-----	15
Chickens, geese, ducks per head----	4

Agricultural Holder: The person in the household who makes the day-to-day decisions for the farm.



Livestock farms: Agricultural holders were classified according to specific livestock farms if they own, manage, or operate one or more animals of a species.

Other livestock farms: these include farms with mules, donkeys, horses, chickens, and/or other birds (ducks, turkeys, geese).

Crop farm: A farm with crops planted during the 1979 crop year.

Mixed crop: Two or more crops interplanted in the same field.

Bull: A full grown male that is used for breeding (usually over three years of age).

Oxen: A full grown male that has been castrated (usually over three years of age).

Cow: A full grown female (usually over three years) that has calved.

Heifer: A young female that has not yet calved but is at least one year old and less than three years of age.

Tolly: A young male that is at least one year old and less than three years of age.

Calf: A male or female which is under one year of age.

Chickens: A general term used to define hens, roosters, chicks, pullets, etc.

FOOTNOTES One standard set of footnotes is used for the tables and are defined as follows:

1/ Excludes traditional farms in Western Region.

2/ Less than 50.

3/ Regional estimates only.

4/ Included in total.

5/ Less than .5 metric ton.

1979 Livestock and Crop Survey

TABLE 1: Sample Size of Blocks and Holders for Traditional Farms by Agricultural Districts and Regions

Agricultural Districts/Regions	Blocks in the Population	Blocks Selected	Holders Selected
	Number	Number	Number
Barolong	38	9	42
Ngwaketse South	139	12	54
Ngwaketse North	277	15	77
SOUTHERN REGION	454	36	173
Bamalete/Tlokwen	85	8	36
Kweneng South	284	17	80
Kweneng North	139	15	66
Kgatleng	232	14	69
GABORONE REGION	740	54	251
Mahalapye	243	17	83
Palapye	179	12	59
Serowe	273	10	50
Mmadinare	134	11	37
CENTRAL REGION	829	50	229
Tati	161	12	59
Tutume	123	11	54
FRANCISTOWN REGION	284	23	113
Ngamiland West	167	11	58
Ngamiland East	154	9	40
Chobe	15	4	21
MAUN REGION	336	24	119
TOTAL	2643	187	885

1979 Livestock and Crop Survey

TABLE 2: Summary of Traditional, Freehold, and Total Livestock Estimates with the Coefficient of Variation

Category	Traditional	Freehold -Number-	Total	Coefficient of Variation Percent
NUMBER OF FARMS	78,000	340	78,340	7.7
<u>Cattle</u>				
Cattle farms	60,000	320	60,320	7.6
All cattle	2,400,000	440,000	2,840,000	8.5
Bulls	43,000	6,000	49,000	10.0
Oxen	325,000	56,000	381,000	10.3
Cows	982,000	153,000	1,135,000	8.9
Tollies	258,000	68,000	326,000	8.4
Heifers	309,000	71,000	380,000	9.3
Calves	483,000	86,000	569,000	8.9
Born	573,000	97,000	670,000	8.9
Died	261,000	16,000	277,000	19.0
Sold	218,000	118,000	336,000	9.7
Purchased	28,000	44,000	72,000	21.5
Home slaughter	22,000	4,000	26,000	22.4
<u>Sheep</u>				
Sheep farms	14,000	120	14,120	11.3
All sheep	95,000	13,000	108,000	14.3
Males one year & over	11,200	2,200	13,400	19.0
Females one year & over	64,500	7,000	71,500	13.9
Males under one year	8,700	1,800	10,500	18.7
Females under one year	10,600	2,000	12,600	18.7
Born	32,000	4,400	36,400	18.2
Died	37,000	2,000	39,000	14.9
Sold	5,500	900	6,400	22.2
Purchased	2,300	900	3,200	28.0
Home slaughter	4,300	1,800	6,100	22.1
<u>Goats</u>				
Goat farms	46,000	140	46,140	9.5
All goats	545,000	12,000	557,000	9.8
Males one year & over	69,100	1,500	70,600	9.8
Females one year & over	325,300	7,000	332,300	9.5
Males under one year	69,500	1,700	71,200	12.0
Females under one year	81,100	1,800	82,900	11.0
Born	229,300	4,400	233,700	10.7
Died	250,000	2,100	252,100	19.0
Sold	31,300	900	32,200	17.4
Purchased	14,800	300	15,100	26.8
Home slaughter	34,000	1,300	35,300	22.1
<u>Other Livestock</u>				
Mule/Donkey farms	26,000	90	26,090	13.2
Mules/donkeys	125,000	1,000	126,000	12.9
Horse farms	5,500	200	5,700	20.9
Horses	14,000	3,700	17,700	20.3
Pig farms	4,000	30	4,030	25.6
Pigs	5,000	1,300	6,300	17.7
Chicken farms	63,500	130	63,630	8.6
Chickens	710,000	30,000	740,000	9.5
Other bird farms	3,500	35	3,535	13.7
Other birds	10,000	300	10,300	25.3



1979 Livestock and Crop Survey

TABLE 3: Summary of Traditional, Freehold, and Total Crop Estimates with the Coefficient of Variation

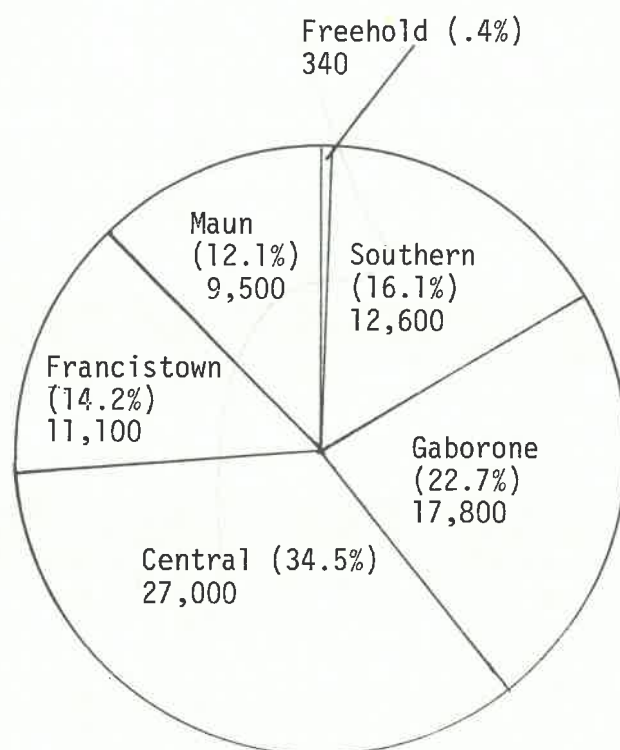
Category	Traditional	Freehold	Total	Coefficient of Variation Percent
	-Number-			
<b>TOTAL CROPS</b>				
Farms with land	66,600	340	66,940	
Farms with crops planted	43,000	115	43,115	
Total area planted (hectares)	171,000	8,000	179,000	7.5
Total area harvested	92,200	5,700	97,900	
<b>Sorghum</b>				
Farms	36,400	25	36,425	8.2
Area planted (hectares)	66,500	1,400	67,900	10.1
Area harvested (hectares)	41,000	1,300	42,300	
Total production (metric tons)	3,750	550	4,300	
Average production (kg/hectare)	91	423	102	
<b>Maize</b>				
Farms	31,600	60	31,660	8.4
Area planted (hectares)	49,500	2,600	52,100	10.8
Area harvested (hectares)	19,000	2,100	21,100	
Total production (metric tons)	1,600	650	2,250	
Average production (kg/hectare)	84	310	107	
<b>Millet</b>				
Farms	8,800	-	8,800	16.7
Area planted (hectares)	13,000	-	13,000	22.7
Area harvested (hectares)	8,000	-	8,000	
Total production (metric tons)	900	-	900	
Average production (kg/hectare)	112	-	112	
<b>Beans/Pulses</b>				
Farms	20,400	30	20,430	9.8
Area planted (hectares)	26,000	400	26,400	12.6
Area harvested (hectares)	13,700	200	13,900	
Total production (metric tons)	960	40	1,000	
Average production (kg/hectare)	70	200	72	
<b>Groundnuts</b>				
Farms	2,600	15	2,615	26.7
Area planted (hectares)	3,700	800	4,500	31.4
Area harvested (hectares)	2,400	200	2,600	
Total production (metric tons)	171	49	220	
Average production (kg/hectare)	71	245	85	
<b>Sunflowers</b>				
Farms	1,500	25	1,525	26.7
Area planted (hectares)	4,600	1,400	6,000	28.4
Area harvested (hectares)	4,000	1,100	5,100	
Total production (metric tons)	560	340	900	
Average production (kg/hectare)	140	309	176	

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TABLE 4: Total Number of Farms, Crop Farms, Cattle Farms, Sheep Farms, Goat Farms, Other Livestock Farms By Districts and Regions

Districts/ Regions	Total Number of Farms	Crop Farms	Cattle Farms	Sheep Farms	Goat Farms	Other Livestock Farms
-Number-						
TRADITIONAL						
Barolong	1,500	800	900	600	1,000	1,400
Ngwaketse South	3,800	1,500	3,400	1,400	2,200	3,200
Ngwaketse North	7,300	2,700	5,200	700	3,400	6,400
SOUTHERN REGION	12,600	5,000	9,500	2,700	6,600	11,000
Bamalete/Tlokweng	2,200	600	800	100	1,100	1,800
Kweneng South	8,000	3,400	6,400	1,200	3,900	6,400
Kweneng North	2,600	900	2,000	300	1,200	2,300
Kgatleng	5,000	2,800	3,600	600	3,500	4,800
GABORONE REGION	17,800	7,700	12,800	2,200	9,700	15,300
Mahalapye	8,100	4,500	6,700	2,000	5,000	7,300
Palapye	6,400	3,800	4,800	1,700	3,900	5,400
Serowe	7,700	3,900	6,200	1,200	5,100	7,000
Mmadinare	4,800	2,700	4,000	1,000	3,700	4,700
CENTRAL REGION	27,000	14,900	21,700	5,900	17,700	24,400
Tati	6,800	4,000	5,400	1,500	4,500	5,800
Tutume	4,300	3,900	3,900	1,100	2,700	4,000
FRANCISTOWN REGION	11,100	7,900	9,300	2,600	7,200	9,800
Ngamiland West	4,700	3,700	3,100	400	2,200	3,300
Ngamiland East	4,000	3,100	3,200	200	2,200	3,500
Chobe	800	700	400	20	400	700
MAUN REGION	9,500	7,500	6,700	600	4,800	7,500
TOTAL TRADITIONAL	78,000	43,000	60,000	14,000	46,000	68,000
TOTAL FREEHOLD	340	115	320	120	140	250
TOTAL	78,340	43,115	60,320	14,120	46,140	68,250

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Total Farms 78,340

Figure 1: Traditional Farms by Regions and Total Freehold Farms

## 1979 Livestock and Crop Survey

TABLE 5: Cattle Farms, Total Cattle, and Average Size by Districts and Regions

Districts/ Regions	Cattle Farms		Total Cattle		Average Size Number
	Number	Percentage	Number (000)	Percentage	
TRADITIONAL					
Barolong	900	1.5	28.0	1.0	31.1
Ngwaketse South	3,400	5.6	140.0	4.9	41.2
Ngwaketse North	5,200	8.6	192.0	6.8	36.9
SOUTHERN REGION	9,500	15.7	360.0	12.7	37.9
Bamalete/Tlokweng	800	1.3	8.0	.3	10.0
Kweneng South	6,400	10.6	224.0	7.9	35.0
Kweneng North	2,000	3.3	63.0	2.2	31.5
Kgatleng	3,600	6.0	110.0	3.9	30.6
GABORONE REGION	12,800	21.2	405.0	14.3	31.6
Mahalapye	6,700	11.1	284.0	10.0	42.4
Palapye	4,800	8.0	170.0	6.0	35.4
Serowe	6,200	10.3	215.0	7.6	34.7
Mmadinare	4,000	6.6	158.0	5.5	39.5
CENTRAL REGION	21,700	36.0	827.0	29.1	38.1
Tati	5,400	8.9	194.0	6.8	35.9
Tutume	3,900	6.5	232.0	8.2	59.5
FRANCISTOWN REGION	9,300	15.4	426.0	15.0	45.8
Ngamiland West	3,100	5.1	200.0	7.0	64.5
Ngamiland East	3,200	5.3	176.0	6.2	55.0
Chobe	400	.7	6.0	.2	15.0
MAUN REGION	6,700	11.1	382.0	13.4	57.0
TOTAL TRADITIONAL	60,000	99.5	2,400.0	84.5	40.0
TOTAL FREEHOLD	320	.5	440.0	15.5	1,375.0
TOTAL	60,320	100.0	2,840.0	100.0	47.1

1979 Livestock and Crop Survey

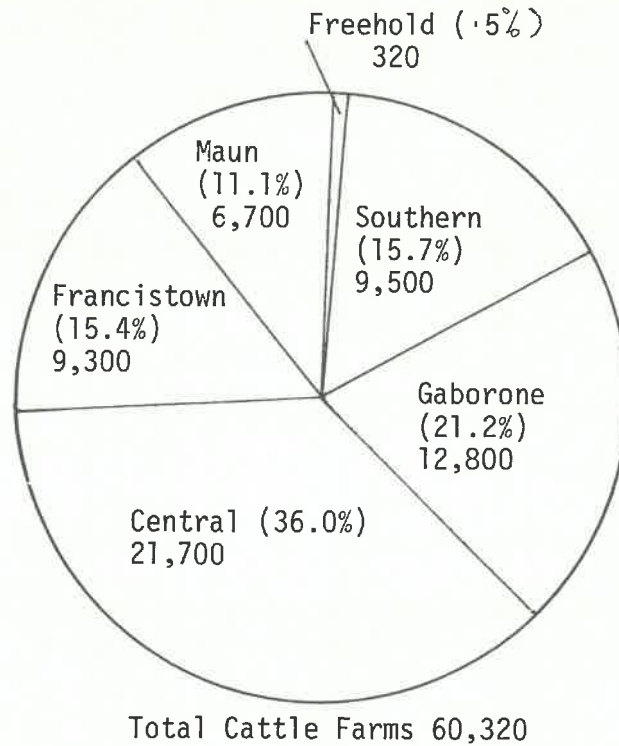


Figure 2: Traditional Cattle Farms by Regions and Total Freehold Cattle Farms

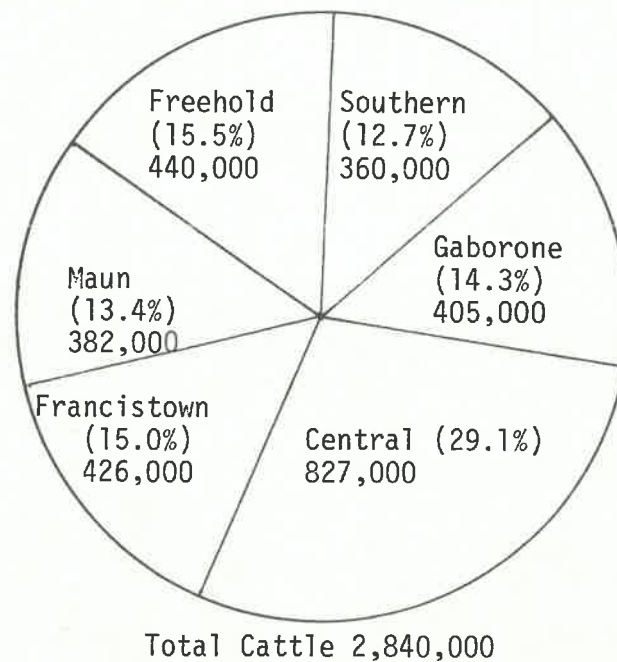


Figure 3: Traditional Cattle by Regions and Total Freehold Cattle

## 1979 Livestock and Crop Survey

TABLE 6: Cattle Farms, Total Number of Cattle, and Average Size Herd by Size of Cattle Holding

Herd Size	Cattle Farms		Total Cattle		Average Size
	Number	Percentage	Number (000)	Percentage	Number
TRADITIONAL					
1 - 10	10,000	16.7	60.5	2.5	6.0
11 - 20	15,000	25.0	238.1	9.9	15.9
21 - 30	11,100	18.5	292.1	12.2	26.3
31 - 40	8,300	13.8	304.9	12.7	36.7
41 - 50	2,500	4.2	114.4	4.8	45.8
51 - 60	3,200	5.3	181.8	7.6	56.8
61 - 100	5,000	8.3	396.6	16.5	79.3
101 - 150	3,000	5.0	399.5	16.6	133.2
151 +	1,900	3.2	412.1	17.2	216.9
TOTAL TRADITIONAL	60,000	100.0	2400.0	100.0	40.0
FREEHOLD					
1 - 100	41	12.8	2.5	.6	61.0
101 - 500	120	37.5	32.1	7.3	267.5
501 - 1000	64	20.0	43.8	10.0	684.4
1001 - 5000	75	23.4	152.5	34.6	2,033.3
5001 +	20	6.3	209.1	47.5	10,455.0
TOTAL FREEHOLD	320	100.0	440.0	100.0	1,375.0
TOTAL	60,320	--	2,840.0	--	47.1



## 1979 Livestock and Crop Survey

TABLE 7: Cattle Herd Composition (Bulls, Oxen, Cows, Tollies, Heifers, Calves) by Districts and Regions

Districts/ Regions	Bulls	Oxen	Cows	Tollies	Heifers	Calves	Total Cattle
-Number (000)-							
<u>TRADITIONAL</u>							
Barolong	.6	6.2	9.7	2.4	3.5	5.6	28.0
Ngwaketse South	2.7	16.5	60.5	9.8	16.8	33.7	140.0
Ngwaketse North	5.0	27.2	78.3	15.0	27.5	39.0	192.0
SOUTHERN REGION	8.3	49.9	148.5	27.2	47.8	78.3	360.0
Bamalete/Tlokweng	.2	1.3	2.9	1.0	1.1	1.5	8.0
Kweneng South	4.1	40.5	85.5	21.7	23.8	48.4	224.0
Kweneng North	1.3	10.7	24.6	6.6	8.4	11.4	63.0
Kgatleng	1.9	17.6	45.2	9.1	15.8	20.4	110.0
GABORONE REGION	7.5	70.1	158.2	38.4	49.1	81.7	405.0
Mahalapye	6.0	32.1	117.3	35.8	35.5	57.3	284.0
Palapye	2.2	20.2	70.7	20.4	23.1	33.4	170.0
Serowe	3.0	36.1	88.6	21.7	24.7	40.9	215.0
Mmadinare	3.5	20.2	64.8	16.0	21.5	32.0	158.0
CENTRAL REGION	14.7	108.6	341.4	93.9	104.8	163.6	827.0
Tati	3.5	19.0	83.0	25.8	29.5	33.2	194.0
Tutume	3.5	25.6	98.6	28.3	31.2	44.8	232.0
FRANCISTOWN REGION	7.0	44.6	181.6	54.1	60.7	78.0	426.0
Ngamiland West	3.0	26.0	81.0	23.4	25.4	41.2	200.0
Ngamiland East	2.3	24.6	69.2	20.4	20.4	39.1	176.0
Chobe	.2	1.2	2.1	.6	.8	1.1	6.0
MAUN REGION	5.5	51.8	152.3	44.4	46.6	81.4	382.0
TOTAL TRADITIONAL	43.0	325.0	982.0	258.0	309.0	483.0	2,400.0
TOTAL FREEHOLD	6.0	56.0	153.0	68.0	71.0	86.0	440.0
TOTAL	49.0	381.0	1135.0	326.0	380.0	569.0	2,840.0



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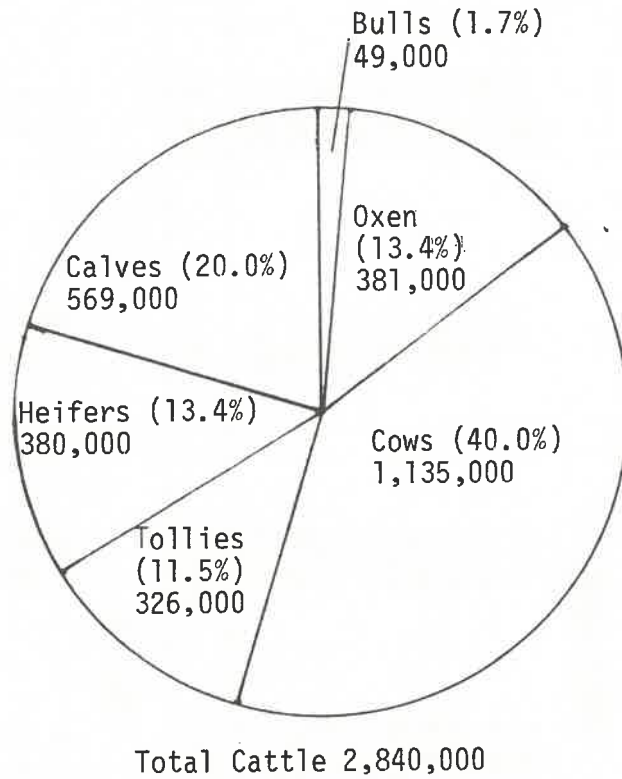


Figure 4: Cattle Herd Composition, Traditional and Freehold Farms

1979 Livestock and Crop Survey

TABLE 8: Cattle Herd Composition (Bulls, Oxen, Cows, Tollies, Heifers, Calves) by Size of Cattle Holding

Herd Size	Bulls	Oxen	Cows	Tollies	Heifers	Calves	Total Cattle
-Number (000)-							
<u>TRADITIONAL</u>							
1-10	.7	6.2	24.5	7.2	9.3	12.6	60.5
11-20	4.4	35.1	90.3	27.2	35.2	45.9	238.1
21-30	5.4	43.2	110.0	33.5	41.1	58.9	292.1
31-40	6.2	52.3	119.8	34.8	37.7	54.1	304.9
41-50	2.8	13.3	41.3	12.2	22.6	22.2	114.4
51-60	2.7	27.0	76.6	15.2	20.2	40.1	181.8
61-100	6.1	50.4	175.8	41.7	41.4	81.2	396.6
101-150	8.9	51.7	165.0	36.9	52.0	85.0	399.5
151+	5.8	45.8	178.7	49.3	49.5	83.0	412.1
TOTAL TRADITIONAL	43.0	325.0	982.0	258.0	309.0	483.0	2,400.0
<u>FREEHOLD</u>							
1-100	.1	.2	.9	.3	.6	.4	2.5
101-500	.5	3.2	11.5	5.1	5.5	6.3	32.1
501-1000	.7	5.2	15.7	7.0	7.0	8.2	43.8
1001-5000	2.0	13.3	62.2	23.6	20.2	31.2	152.5
5000+	2.7	34.1	62.7	32.0	37.7	39.9	209.1
TOTAL FREEHOLD	6.0	56.0	153.0	68.0	71.0	86.0	440.0
TOTAL	49.0	381.0	1,135.0	326.0	380.0	569.0	2,840.0

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TABLE 9: Cattle Born, Died, Sold, Home Slaughter, and Purchased by Districts and Regions

Districts/ Regions	total	Born	Deaths	Sold	Home Slaughter	Purchased
-Number (000)-						
TRADITIONAL						
Barolong		6.0	2.0	3.3	.2	1.0
Ngwaketse South		37.5	11.0	14.1	1.4	3.6
Ngwaketse North		48.5	21.0	18.4	1.0	5.7
SOUTHERN REGION	360	92.0	34.0	58	2.6	10.3
Bamalete/Tlokwen		2.0	1.0	.3	.1	.1
Kweneng South		54.0	27.0	24.0	4.0	1.9
Kweneng North		14.0	7.6	3.8	1.0	.4
Kgatleng		25.0	15.4	10.8	1.3	.9
GABORONE REGION	405	95.0	51.0	44	6.4	3.3
Mahalapye		68.0	26.0	28.0	3.5	3.8
Palapye		41.0	19.0	16.0	1.7	2.5
Serowe		48.0	23.0	15.0	2.2	1.1
Mmadinare		38.0	18.0	22.0	.9	.6
CENTRAL REGION	627	195.0	86.0	101	8.3	8.0
Tati		41.0	24.0	27.0	1.6	1.1
Tutume		57.0	35.0	19.0	1.3	2.0
FRANCISTOWN REGION	426	98.0	59.0	31	2.9	3.1
Ngamiland West		48.5	18.0	10.0	.9	1.7
Ngamiland East		43.0	12.0	6.2	.8	1.5
Chobe		1.5	1.0	.1	.1	.1
MAUN REGION	382	93.0	31.0	62	1.8	3.3
TOTAL TRADITIONAL		573.0	261.0	218.0	22.0	28.0
TOTAL FREEHOLD	400	97.0	16.0	81	4.0	44.0
TOTAL		670.0	277.0	336.0	26.0	72.0

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TABLE 10: Cattle Born, Died, Sold, Home Slaughter , and Purchased by Size of Cattle Holding

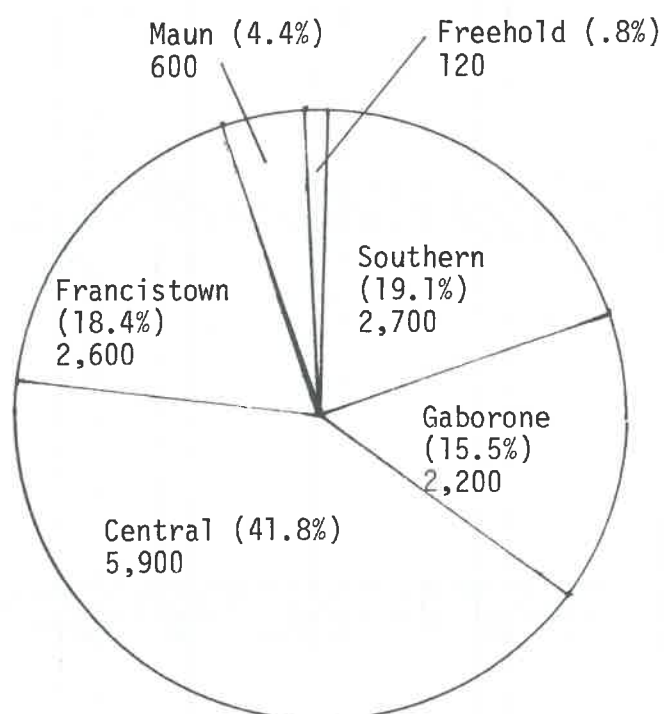
Herd Size	Born	Deaths	Sold	Home Slaughter	Purchased
-Number (000)-					
<u>TRADITIONAL</u>					
0	2/	.1	.9	.3	.4
1-10	17.2	12.7	10.2	.7	4.0
11-20	56.7	36.2	28.3	2.5	4.4
21-30	67.0	33.0	23.1	4.2	3.5
31-40	68.8	32.6	24.0	3.8	3.6
41-50	26.4	11.7	10.0	.4	1.0
51-60	47.0	21.8	10.9	2.1	2.3
61-100	96.8	29.8	38.5	4.0	.8
101-150	96.8	27.1	33.6	2.9	2.2
151+	96.3	56.0	38.5	1.1	5.8
TOTAL TRADITIONAL	573.0	261.0	218.0	22.0	28.0
<u>FREEHOLD</u>					
1-100	.6	.4	.7	2/	.1
101-500	7.4	2.0	18.1	.7	4.7
501-1000	9.7	2.5	20.3	.2	12.1
1001-5000	33.9	6.0	39.3	.9	10.8
5000+	45.4	5.1	39.6	2.8	16.3
TOTAL FREEHOLD	97.0	16.0	118.0	4.0	44.0
TOTAL	670.0	277.0	336.0	26.0	72.0

## 1979 Livestock and Crop Survey

TABLE 11: Sheep Farms, Total Sheep, and Average Size Herd by Districts and Regions

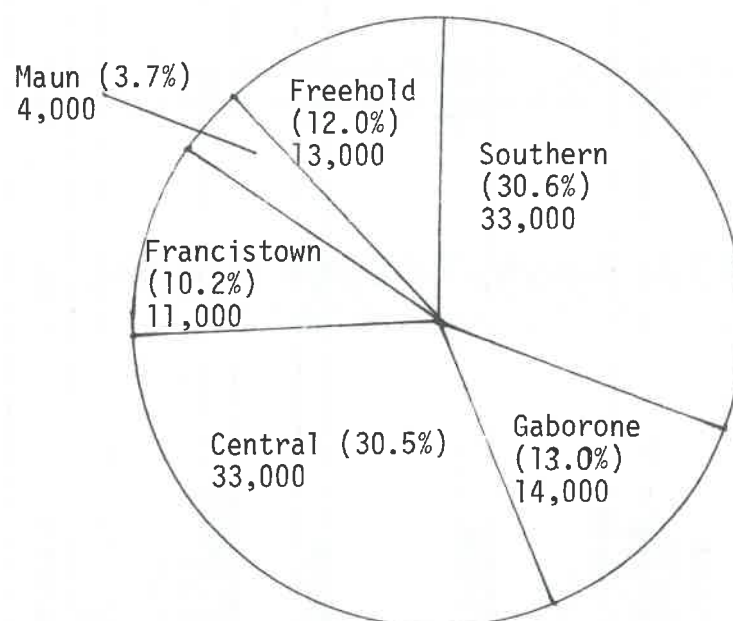
Districts/ Regions	Sheep Farms		Total Sheep		Average Size Number
	Number	Percentage	Number (000)	Percentage	
TRADITIONAL					
Barolong	600	4.2	10.0	9.3	16.7
Ngwaketse South	1,400	9.9	15.0	13.9	10.7
Ngwaketse North	700	5.0	8.0	7.4	11.4
SOUTHERN REGION	2,700	19.1	33.0	30.6	12.2
Bamalete/Tlokwen	100	.7	.5	.5	5.0
Kweneng South	1,200	8.5	7.5	6.9	6.3
Kweneng North	300	2.1	2.0	1.9	6.6
Kgatlong	600	4.2	4.0	3.7	6.7
GABORONE REGION	2,200	15.5	14.0	13.0	6.4
Mahalapye	2,000	14.2	11.0	10.2	5.5
Palapye	1,700	12.0	13.0	12.0	7.6
Serowe	1,200	8.5	5.0	4.6	4.2
Mmadinare	1,000	7.1	4.0	3.7	4.0
CENTRAL REGION	5,900	41.8	33.0	30.5	5.6
Tati	1,500	10.6	7.0	6.5	4.6
Tutume	1,100	7.8	4.0	3.7	3.6
FRANCISTOWN REGION	2,600	18.4	11.0	10.2	4.2
Ngamiland West	400	3.0	3.0	2.8	7.5
Ngamiland East	200	1.4	1.0	.9	5.0
Chobe	2/	--	2/	--	2/
MAUN REGION	600	4.4	4.0	3.7	6.7
TOTAL TRADITIONAL	14,000	99.2	95.0	88.0	6.8
TOTAL FREEHOLD	120	.8	13.0	12.0	108.3
TOTAL	14,120	100.0	108.0	100.0	7.6

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Total Sheep Farms 14,120

Figure 5 : Traditional Sheep Farms by Regions and Total Freehold Sheep Farms



Total Sheep 108,000

Figure 6 : Traditional Sheep by Regions and Freehold Sheep

## 1979 Livestock and Crop Survey

TABLE 12: Sheep Farms, Total Number of Sheep, and Average Size Herd by Size of Sheep Holding

Herd Size	Sheep Farms		Total Sheep		Average Size
	Number	Percentage	Number (000)	Percentage	Number
<u>TRADITIONAL</u>					
1-10	12,100	86.4	47.2	49.7	3.9
11-20	1,000	7.2	15.5	16.3	15.5
21-30	500	3.5	11.4	12.0	22.8
31+	400	2.9	20.9	22.0	52.2
TOTAL TRADITIONAL	14,000	100.0	95.0	100.0	6.8
<u>FREEHOLD</u>					
1-50	42	35.0	.8	6.2	19.1
51-100	30	25.0	2.1	16.2	70.0
101-150	13	10.8	1.6	12.3	123.1
151-200	13	10.8	2.1	16.2	161.5
200+	22	18.4	6.4	49.1	290.9
TOTAL FREEHOLD	120	100.0	13.0	100.0	108.3
TOTAL	14,120	-	108.0	-	7.6



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TABLE 13: Sheep Herd Composition (Male and Female 1 Year and Over, and Male and Female Under 1 Year) by Districts and Regions

Districts/ Regions	Male Sheep 1 Year & Over	Female Sheep 1 Year & Over	Male Sheep Under 1 Year	Female Sheep Under 1 Year	Total Sheep
-Number (000)-					
TRADITIONAL					
Barolong	.7	7.3	.8	1.2	10.0
Ngwaketse South	1.8	10.8	.9	1.5	15.0
Ngwaketse North	1.2	5.0	.8	1.0	8.0
SOUTHERN REGION	3.7	23.1	2.5	3.7	33.0
Bamalete/Tlokwen	.1	.3	2/	.1	.5
Kweneng South	1.3	4.7	.7	.8	7.5
Kweneng North	.3	1.2	.2	.3	2.0
Kgatleng	.4	2.8	.4	.4	4.0
GABORONE REGION	2.1	9.0	1.3	1.6	14.0
Mahalapye	1.3	7.0	1.4	1.3	11.0
Palapye	1.7	8.4	1.3	1.6	13.0
Serowe	.4	3.8	.4	.4	5.0
Mmadinare	.3	2.8	.4	.5	4.0
CENTRAL REGION	3.7	22.0	3.5	3.8	33.0
Tati	.9	4.9	.6	.6	7.0
Tutume	.4	2.9	.3	.4	4.0
FRANCISTOWN REGION	1.3	7.8	.9	1.0	11.0
Ngamiland West	.3	1.9	.4	.4	3.0
Ngamiland East	.1	.7	.1	.1	1.0
Chobe	2/	2/	2/	2/	2/
MAUN REGION	.4	2.6	.5	.5	4.0
TOTAL TRADITIONAL	11.2	64.5	8.7	10.6	95.0
TOTAL FREEHOLD	2.2	7.0	1.8	2.0	13.0
TOTAL	13.4	71.5	10.5	12.6	108.0

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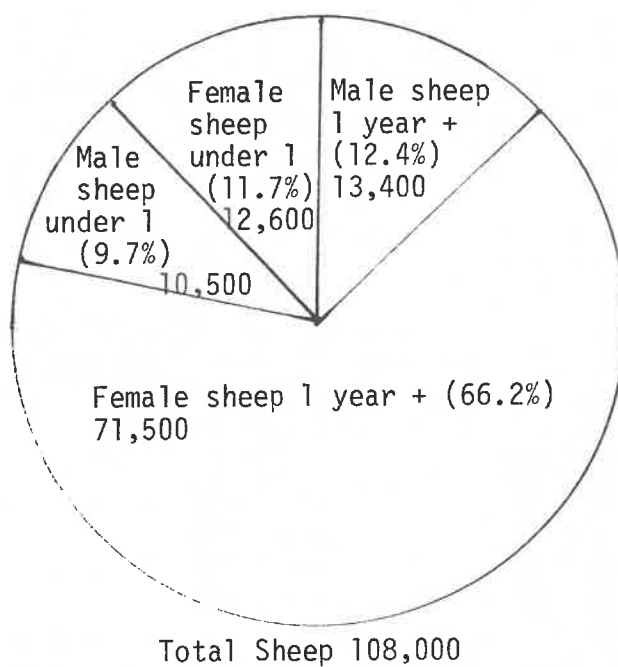


Figure 7 : Sheep Herd Composition , Traditional and Freehold

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TABLE 14: Sheep Herd Composition (Male and Female 1 Year and Over, and Male and Female Under 1 Year) by Size of Sheep Holding

Herd Size	Male Sheep 1 Year & Over	Female Sheep 1 Year & Over	Male Sheep Under 1 Year	Female Sheep Under 1 Year	Total Sheep
-Number (000)-					
<u>TRADITIONAL</u>					
1-10	5.7	33.7	3.4	4.4	47.2
11-20	1.1	10.0	2.2	2.2	15.5
21-30	2.1	8.3	.5	.5	11.4
31+	2.3	12.5	2.6	3.5	20.9
TOTAL TRADITIONAL	11.2	64.5	8.7	10.6	95.0
<u>FREEHOLD</u>					
1-50	.1	.5	.1	.1	.8
51-100	.2	1.3	.3	.3	2.1
101-150	.5	.7	.2	.2	1.6
151-200	.6	1.0	.2	.3	2.1
201+	.8	3.5	1.0	1.1	6.4
TOTAL FREEHOLD	2.2	7.0	1.8	2.0	13.0
TOTAL	13.4	71.5	10.5	12.6	108.0

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TABLE 15: Sheep Born, Died, Sold, Home Slaughter , and Purchased by Districts and Regions

Districts/ Regions	Sheep Born	Deaths	Sold	Home Slaughter	Purchased
-Number (000)-					
TRADITIONAL					
Barolong	3.5	2.5	.9	.5	.4
Ngwaketse South	4.5	5.0	.5	.7	.2
Ngwaketse North	2.5	1.5	.2	.2	.1
SOUTHERN REGION	10.5	9.0	1.6	1.4	.7
Bamalete/Tlokwen	.2	.2	.1	2/	2/
Kweneng South	2.1	3.5	.2	.2	.1
Kweneng North	.7	.8	.2	.1	.1
Kgatlong	1.5	2.0	.2	.1	.1
GABORONE REGION	4.5	6.5	.7	.4	.3
Mahalapye	4.2	5.0	.3	.7	.4
Palapye	4.5	5.0	1.2	.8	.1
Serowe	1.6	2.5	.4	.2	.2
Mmadinare	1.7	3.0	.2	.2	.1
CENTRAL REGION	12.0	15.5	2.1	1.9	.8
Tati	2.0	3.0	.4	.2	.2
Tutume	1.5	2.0	.4	.3	.2
FRANCISTOWN REGION	3.5	5.0	.8	.5	.4
Ngamiland West	1.2	.7	.2	.1	.1
Ngamiland East	.3	.3	.1	2/	2/
Chobe	2/	2/	2/	2/	2/
MAUN REGION	1.5	1.0	.3	.1	.1
TOTAL TRADITIONAL	32.0	37.0	5.5	4.3	2.3
TOTAL FREEHOLD	4.4	2.0	.9	1.8	.9
TOTAL	36.4	39.0	6.4	6.1	3.2

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TABLE 16: Sheep Born, Died, Sold, Home Slaughter , and Purchased by Size of Sheep Holding

Herd Size	Born	Deaths	Sold	Home Slaughter	Purchased
-Number (000)-					
<u>TRADITIONAL</u>					
0	1.5	4.5	.9	2/	2/
1-10	17.0	27.9	1.9	2.7	2.7
11-20	5.9	1.9	.8	.4	.1
21-30	1.0	1.4	.7	.3	2/
31+	6.6	1.3	1.2	.9	.1
TOTAL TRADITIONAL	32.0	37.0	5.5	4.3	2.3
<u>FREEHOLD</u>					
0	2/	2/	2/	.1	.1
1-50	.3	.2	.2	.1	.3
51-100	.8	.4	2/	.2	2/
101-150	.4	.2	2/	.2	2/
151-200	.5	.2	2/	.5	2/
201+	2.4	1.0	.7	.7	.5
TOTAL FREEHOLD	4.4	2.0	.9	1.8	.9
TOTAL	36.4	39.0	6.4	6.1	3.2

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TABLE 17: Goat Farms, Total Goats, and Average Size by Districts and Regions

Districts/ Regions	Goat Farms		Total Goats		Average Size
	Number	Percentage	Number (000)	Percentage	Number
TRADITIONAL					
Barolong	1,000	2.2	16.0	2.9	16.0
Ngwaketse South	2,200	4.8	40.0	7.2	18.2
Ngwaketse North	3,400	7.3	36.0	6.4	10.6
SOUTHERN REGION	6,600	14.3	92.0	16.6	13.9
Bamalete/Tlokweng	1,100	2.4	8.0	1.4	7.3
Kweneng South	3,900	8.4	37.0	6.7	9.5
Kweneng North	1,200	2.6	11.0	2.0	9.2
Kgatleng	3,500	7.6	28.0	5.0	8.0
GABORONE REGION	9,700	21.0	84.0	15.1	8.6
Mahalapye	5,000	10.8	52.0	9.3	10.4
Palapye	3,900	8.5	51.0	9.2	13.1
Serowe	5,100	11.1	46.0	8.3	9.0
Mmadinare	3,700	8.0	42.0	7.5	11.4
CENTRAL REGION	17,700	38.4	191.0	34.3	10.8
Tati	4,500	9.8	39.0	7.0	8.7
Tutume	2,700	5.8	32.0	5.7	11.6
FRANCISTOWN REGION	7,200	15.6	71.0	12.7	9.9
Ngamiland West	2,200	4.8	52.0	9.3	23.6
Ngamiland East	2,200	4.8	52.0	9.3	23.6
Chobe	400	.9	3.0	.6	7.5
MAUN REGION	4,800	10.4	107.0	19.2	22.3
TOTAL TRADITIONAL	46,000	99.7	545.0	97.8	11.8
TOTAL FREEHOLD	140	.3	12.0	2.2	85.7
TOTAL	46,140	100.0	557.0	100.0	12.1



1979 Livestock and Crop Survey

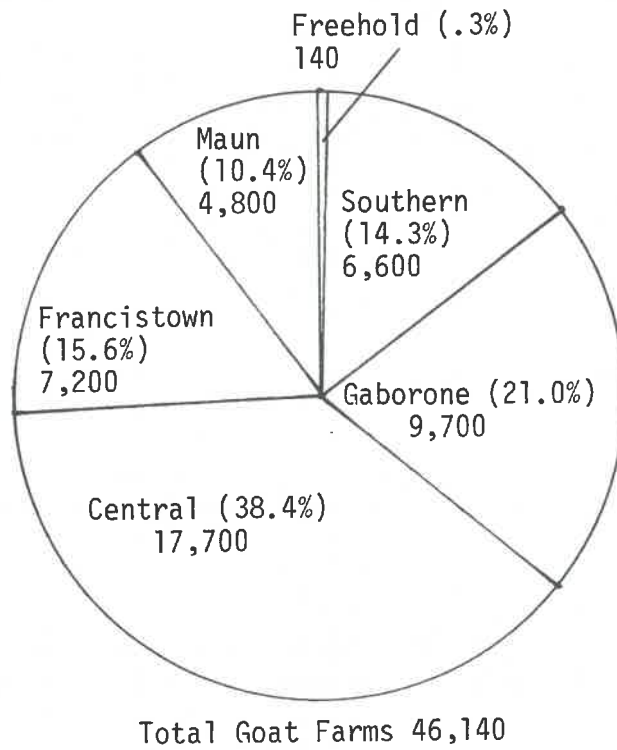


Figure 8 : Traditional Goat Farms by Regions and Total Freehold Goat Farms

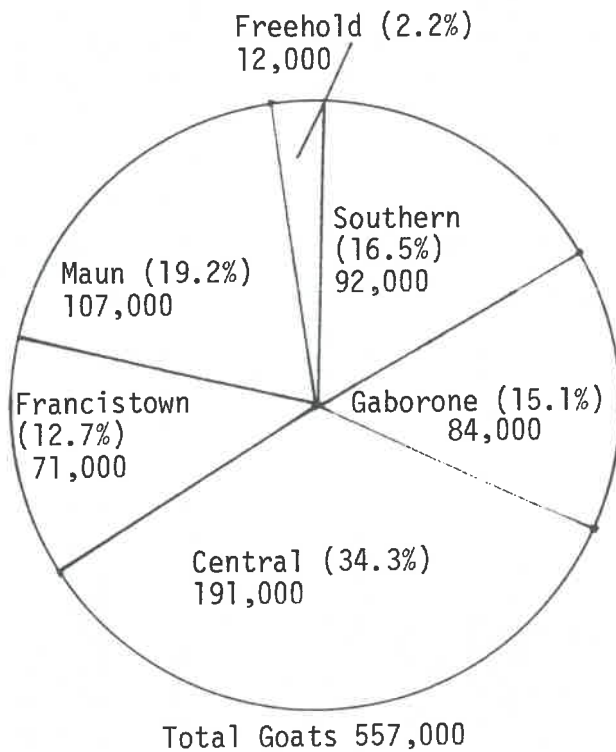


Figure 9 : Traditional Goats by Regions and Total Freehold Goats

1979 Livestock and Crop Survey

TABLE 18: Goat Farms, Total Number of Goats, and Average Size Herd by Size of Goat Holding

Herd Size	Goat Farms		Total Goats		Average Size
	Number	Percentage	Number (000)	Percentage	Number
<u>TRADITIONAL</u>					
1-10	29,000	63.0	157.8	29.0	5.4
11-20	10,900	23.5	162.9	29.9	15.0
21-30	2,600	5.7	65.3	12.0	25.1
31-40	1,900	4.2	65.4	12.0	34.4
41-50	700	1.6	33.5	6.1	47.9
51+	900	2.0	60.1	11.0	66.8
TOTAL TRADITIONAL	46,000	100.0	545.0	100.0	11.8
<u>FREEHOLD</u>					
1-50	61	43.6	1.5	12.5	24.6
51-100	30	21.4	2.3	19.2	76.7
101-150	26	18.6	2.7	22.5	103.8
151-200	10	7.2	1.8	15.0	180.0
201+	13	9.2	3.7	30.8	284.6
TOTAL FREEHOLD	140	100.0	12.0	100.0	85.7
TOTAL	46,140	-	557.0		12.1

## 1979 Livestock and Crop Survey

TABLE 19 : Goat Herd Composition (Male and Female 1 Year and Over, and Male and Female Under One Year) by District and Region

District/ Region	Male Goats 1 Year & Over	Female Goats 1 Year & Over	Male Goats Under 1 Year	Female Goats Under 1 Year	Total Goats
-Number (000)-					
TRADITIONAL					
Barolong	1.7	9.0	2.4	2.9	16.0
Ngwaketse South	4.8	25.2	4.8	5.2	40.0
Ngwaketse North	5.4	19.4	5.4	5.8	36.0
SOUTHERN REGION	11.9	53.6	12.6	13.9	92.0
Bamalete/Tlokwen	1.4	4.0	1.2	1.4	8.0
Kweneng South	4.8	21.8	4.5	5.9	37.0
Kweneng North	1.5	6.1	1.7	1.7	11.0
Kgatlang	5.0	16.5	2.8	3.7	28.0
GABORONE REGION	12.7	48.4	10.2	12.7	84.0
Mahalapye	5.2	32.2	6.8	7.8	52.0
Palapye	4.1	31.6	7.1	8.2	51.0
Serowe	7.4	27.6	5.5	5.5	46.0
Mmadinare	4.2	25.6	5.9	6.3	42.0
CENTRAL REGION	20.9	117.0	25.3	27.8	191.0
Tati	3.9	25.3	3.9	5.9	39.0
Tutume	4.8	18.9	3.5	4.8	32.0
FRANCISTOWN REGION	8.7	44.2	7.4	10.7	71.0
Ngamiland West	6.2	30.2	7.3	8.3	52.0
Ngamiland East	8.3	30.1	6.3	7.3	52.0
Chobe	.4	1.8	.4	.4	3.0
MAUN REGION	14.9	62.1	14.0	16.0	107.0
TOTAL TRADITIONAL	69.1	325.3	69.5	81.1	545.0
TOTAL FREEHOLD	1.5	7.0	1.7	1.8	12.0
TOTAL	70.6	332.3	71.2	82.9	557.0

1979 Livestock and Crop Survey

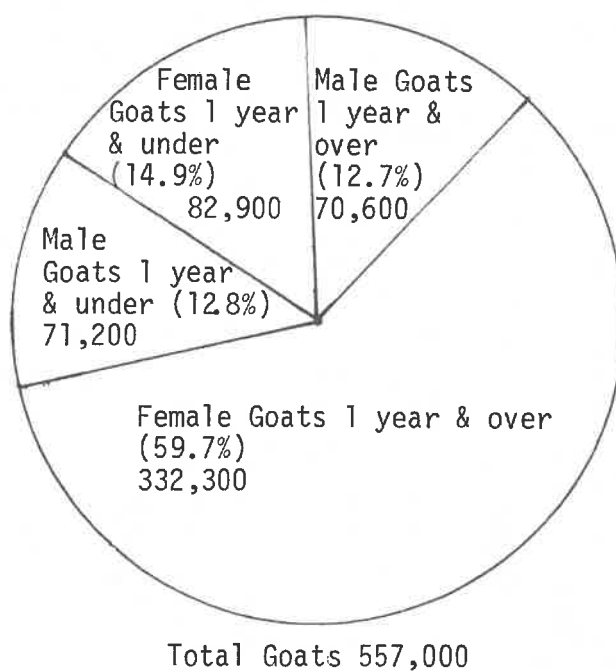


Figure 10: Goat Herd Composition, Traditional and Freehold

1979 Livestock and Crop Survey

TABLE 20: Goat Herd Composition (Male and Female 1 year and over, and Male and Female Under One Year) by Size of Goat Holding

Herd Size	Male Goats 1 Year & Over	Female Goats 1 Year & Over	Male Goats Under 1 Year	Female Goats Under 1 Year	Total Goats
- Number (000) -					
<u>TRADITIONAL</u>					
1-10	18.9	95.1	18.7	25.1	157.8
11-20	21.1	99.8	20.3	21.7	162.9
21-30	8.1	38.4	9.7	9.1	65.3
31-40	10.2	37.7	7.9	9.6	65.4
41-50	4.2	18.5	4.9	5.9	33.5
51+	6.6	35.8	8.0	9.7	60.1
TOTAL TRADITIONAL	69.1	325.3	69.5	81.1	545.0
<u>FREEHOLD</u>					
1-50	.2	.8	.2	.3	1.5
51-100	.2	1.3	.4	.4	2.3
101-150	.3	1.6	.4	.4	2.7
151-200	.3	.9	.3	.3	1.8
200+	.5	2.4	.4	.4	3.7
TOTAL FREEHOLD	1.5	7.0	1.7	1.8	12.0
TOTAL	70.6	332.3	71.2	82.9	557.0

## 1979 Livestock and Crop Survey

TABLE 21 : Goats Born, Died, Sold, Home Slaughter and Purchased by Districts and Regions

Districts/ Regions	Born	Deaths	Sold	Home Slaughter	Purchased
-Number (000)-					
<b>TRADITIONAL</b>					
Barolong	7.0	6.0	1.2	.7	.4
Ngwaketse South	16.0	11.0	1.5	1.0	1.2
Ngwaketse North	14.0	11.0	2.0	3.0	1.8
<b>SOUTHERN REGION</b>	37.0	28.0	4.7	4.7	3.4
Bamalete/Tlokwen	3.0	2.0	.4	.4	.3
Kweneng South	14.0	16.0	1.9	1.7	1.6
Kweneng North	5.0	5.0	.4	.9	.3
Kgatleng	9.0	12.0	1.5	2.0	1.3
<b>GABORONE REGION</b>	31.0	35.0	4.2	5.0	3.5
Mahalapye	26.0	34.0	3.4	3.8	2.9
Palapye	25.0	22.0	3.6	4.3	1.3
Serowe	18.0	19.0	2.3	3.0	.6
Mmadinare	21.0	25.0	2.7	4.0	.5
<b>CENTRAL REGION</b>	90.0	100.0	12.0	15.1	5.3
Tati	17.0	21.0	1.8	2.1	.6
Tutume	13.0	20.0	1.9	3.1	.4
<b>FRANCISTOWN REGION</b>	30.0	41.0	3.7	5.2	1.0
Ngamiland West	21.0	20.0	3.1	2.5	.6
Ngamiland East	19.0	25.0	3.5	1.4	1.0
Chobe	1.3	1.0	.1	.1	/
<b>MAUN REGION</b>	41.3	46.0	6.7	4.0	1.6
<b>TOTAL TRADITIONAL</b>	229.3	250.0	31.3	34.0	14.8
<b>TOTAL FREEHOLD</b>	4.4	2.1	.9	1.3	.3
<b>TOTAL</b>	233.7	252.1	32.2	35.3	15.1



1979 Livestock and Crop Survey

TABLE 22: Goats Born, Died, Sold, Home Slaughter and Purchased by Size of Goat Holding

Herd Size	Born	Died	Sold	Home Slaughter	Purchased
-Number (000)-					
<u>TRADITIONAL</u>					
0	4.6	11.5	2.7	.5	2/
1-10	72.7	103.8	13.8	14.7	8.4
11-20	61.9	65.6	4.5	10.2	4.5
21-30	27.3	26.7	3.4	2.3	.7
31-40	23.6	20.4	3.3	2.4	.6
41-50	14.0	5.7	1.3	1.8	.6
50+	25.2	16.3	2.3	2.1	2/
TOTAL TRADITIONAL	229.3	250.0	31.3	34.0	14.8
<u>FREEHOLD</u>					
0	2/	.1	.3	.1	2/
1-50	.5	.2	.1	.1	.2
51-100	1.0	.6	2/	.4	2/
101-150	1.1	.8	.2	.2	.1
151-200	.6	.1	.1	.1	2/
201+	1.2	.3	.2	.4	2/
TOTAL FREEHOLD	4.4	2.1	.9	1.3	.3
TOTAL	233.7	252.1	32.2	35.3	15.1

## 1979 Livestock and Crop Survey

TABLE 23 : Mule/Donkey, Horse, and Pig Farms, Number of Animals and Average Size by Districts and Regions

District/ Region	Mules and Donkeys			Horses			Pigs <sup>3/</sup>		
	Farms	Animals	Average	Farms	Animals	Average	Farms	Animals	Average
	(000)			(000) -Number-			(000)		
TRADITIONAL									
Barolong	650	4.8	7.4	50	.1	2.0	-	-	-
Ngwaketse South	1,350	7.6	5.6	600	.9	1.5	-	-	-
Ngwaketse North	3,000	11.9	4.0	150	.2	1.3	-	-	-
SOUTHERN REGION	5,000	24.3	4.9	800	1.2	1.5	4/	4/	4/
Bamalete/Tlokwen	250	1.3	5.2	2/	2/	2/	-	-	-
Kweneng South	2,850	11.1	3.9	600	1.0	1.7	-	-	-
Kweneng North	650	2.6	4.0	50	.1	2.0	-	-	-
Kgatleng	1,350	7.9	5.8	2/	2/	2/	-	-	-
GABORONE REGION	5,100	22.9	4.5	650	1.1	1.7	3,500	4.4	1.3
Mahalapye	2,700	14.3	5.3	100	.3	3.0	-	-	-
Palapye	900	3.9	4.3	50	.1	2.0	-	-	-
Serowe	1,500	4.5	3.0	50	.1	2.0	-	-	-
Mmadinare	2,900	14.4	5.0	2/	2/	2/	-	-	-
CENTRAL REGION	8,000	37.1	4.6	200	.5	2.5	4/	4/	4/
Tati	900	7.1	7.9	150	.3	2.0	-	-	-
Tutume	1,500	7.7	5.1	950	2.1	2.2	-	-	-
FRANCISTOWN REGION	2,400	14.8	6.2	1,100	2.4	2.2	4/	4/	4/
Ngamiland West	2,800	10.6	3.8	1,650	6.2	3.8	-	-	-
Ngamiland East	2,400	14.5	6.1	1,100	2.5	2.3	-	-	-
Chobe	300	.8	2.7	2/	2/	2/	-	-	-
MAUN REGION	5,500	25.9	4.7	2,750	8.7	3.2	4/	4/	4/
TOTAL TRADITIONAL	26,000	125.0	4.8	5,500	14.0	2.5	4,000	5.0	1.2
TOTAL FREEHOLD	90	1.0	11.1	200	3.7	18.5	30	1.3	43.3
TOTAL	26,090	126.0	4.8	5,700	17.7	3.1	4,030	6.3	1.6

1979 Livestock and Crop Survey

TABLE 24 : Mule and Donkey Farms, Total Mules and Donkeys, and Average Herd Size by Size of Mule/Donkey Holding

Herd Size	Mule/Donkey Farms		Total Mule/Donkey		Average Size
	Number	Percentage	Number (000)	Percentage	
			<u>TRADITIONAL</u>		
1 - 5	18,700	71.9	52.6	42.1	2.8
5 - 10	5,100	19.7	37.4	29.9	7.3
11 - 15	1,100	4.2	14.5	11.6	13.2
16 +	1,100	4.2	20.5	16.4	18.6
TOTAL TRADITIONAL	26,000	100.0	125.0	100.0	4.8

## 1979 Livestock and Crop Survey

TABLE 25 : Chickens and Other Birds (Ducks, Turkeys, etc.) Farms, Number of Birds, and Average Size by Districts and Regions

Districts/ Regions	Chickens			Other Birds <sup>3/</sup>		
	Farms	Birds	Average	Farms	Birds	Average
		(000)	-Number-		(000)	
TRADITIONAL						
Barolong	1,400	12.0	8.6	-	-	-
Ngwaketse South	2,900	35.0	12.1	-	-	-
Ngwaketse North	5,900	58.0	9.8	-	-	-
SOUTHERN REGION	10,200	105.0	10.3	300	.8	2.7
Bamalete/Tlokwen	1,700	20.0	11.8	-	-	-
Kweneng South	6,200	68.0	11.0	-	-	-
Kweneng North	2,000	18.0	9.0	-	-	-
Kgatleng	4,200	43.0	10.2	-	-	-
GABORONE REGION	14,100	149.0	10.6	400	1.2	3.0
Mahalapye	6,900	93.0	13.5	-	-	-
Palapye	5,300	76.0	14.3	-	-	-
Serowe	6,900	44.0	6.4	-	-	-
Mmadinare	4,700	69.0	14.7	-	-	-
CENTRAL REGION	23,800	282.0	11.9	1,500	4.1	2.7
Tati	5,400	60.0	11.1	-	-	-
Tutume	3,600	58.0	16.1	-	-	-
FRANCISTOWN REGION	9,000	118.0	13.1	1,200	3.5	2.9
Ngamiland West	2,900	27.0	9.3	-	-	-
Ngamiland East	2,800	22.0	7.9	-	-	-
Chobe	700	7.0	10.0	-	-	-
MAUN REGION	6,400	56.0	8.8	100	.2	2.0
TOTAL TRADITIONAL	63,500	710.0	11.2	3,500	10.0	2.9
TOTAL FREEHOLD	130	30.0	230.8	35	.3	8.6
TOTAL	63,630	740.0	11.6	3,535	10.3	3.0

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TABLE 26: Chicken Farms, Total Chickens, and Average Flock Size by Size of Chicken Holding

Flock Size	Chicken Farms		Total Chickens		Average Size
	Number	Percentage	Number (000)	Percentage	Number
			<u>TRADITIONAL</u>		
1-5	20,400	32.1	69.6	9.8	3.4
6-10	18,400	29.0	147.7	20.8	8.0
11-15	12,000	18.9	160.5	22.6	13.4
16-20	5,900	9.3	105.8	14.9	17.9
21-25	2,100	3.3	48.3	6.8	23.0
26-30	2,700	4.2	76.6	10.8	28.4
31+	2,000	3.2	101.5	14.3	50.8
TOTAL TRADITIONAL	63,500	100.0	710.0	100.0	11.2

## 1979 Livestock and Crop Survey

TABLE 27: Farms with Land and Crops Planted, Total Area Planted, and Area Harvested by Districts and Regions

Districts/ Regions	Farms with Land Number	Crop Farms Number	Crop Farms Compared to Farms with Land Percentage	Total Area Planted <sup>3/</sup> Hectares (000)	Average Area Planted <sup>3/</sup> Hectares	Total Area Harvested <sup>3/</sup> Hectares (000)	Area Harvested Compared with Area Planted <sup>3/</sup> Percentage
TRADITIONAL							
Barolong	1,300	800	61.5				
Ngwaketse South	3,000	1,500	50.0				
Ngwaketse North	5,100	2,700	52.9				
SOUTHERN REGION	9,400	5,000	53.2	24.8	5.0	12.7	51.2
Bamalete/Tlokweng	1,800	600	33.3				
Kweneng South	7,300	3,400	46.6				
Kweneng North	2,200	900	40.9				
Kgatleng	3,900	2,800	71.8				
GABORONE REGION	15,200	7,700	50.7	35.6	4.6	16.6	46.6
Mahalapye	6,800	4,500	66.2				
Palapye	5,800	3,800	65.5				
Serowe	6,600	3,900	59.1				
Mmadinare	4,100	2,700	65.9				
CENTRAL REGION	23,300	14,900	63.9	49.6	3.3	22.9	46.2
Tati	5,700	4,000	70.2				
Tutume	4,200	3,900	92.9				
FRANCISTOWN REGION	9,900	7,900	79.8	45.9	5.8	34.5	75.2
Ngamiland West	4,600	3,700	80.4				
Ngamiland East	3,400	3,100	91.2				
Chobe	800	700	87.5				
MAUN REGION	8,800	7,500	85.2	15.1	1.9	5.5	36.4
TOTAL TRADITIONAL	66,600	43,000	64.6	171.0	4.0	92.2	53.9
TOTAL FREEHOLD	340	115	33.8	8.0	69.6	5.7	71.2
TOTAL	66,940	43,115	64.4	179.0	4.2	97.9	54.7



1979 Livestock and Crop Survey

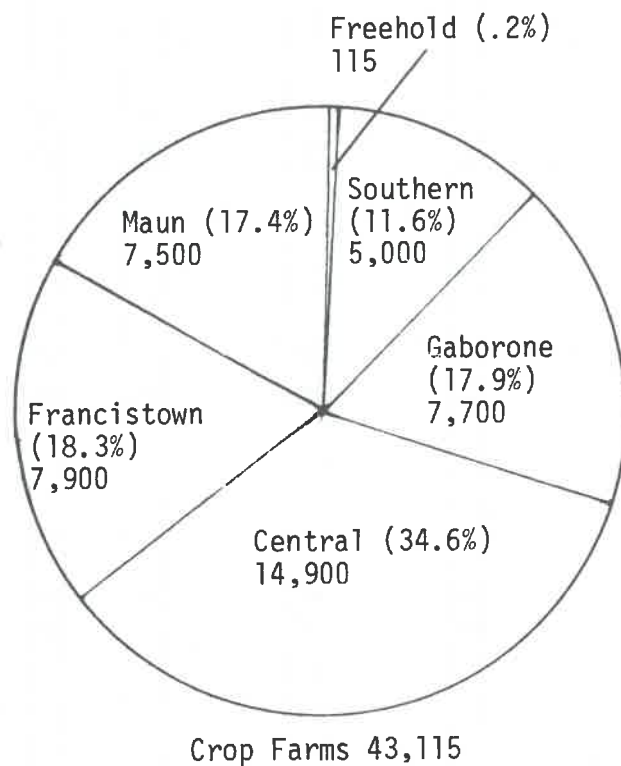


Figure 11: Traditional Crop Farms by Region and Freehold Crop Farms

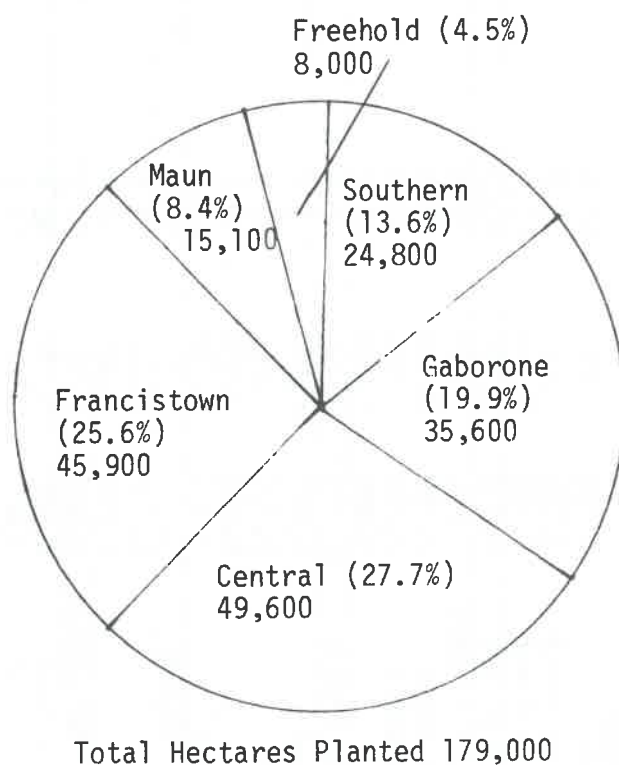


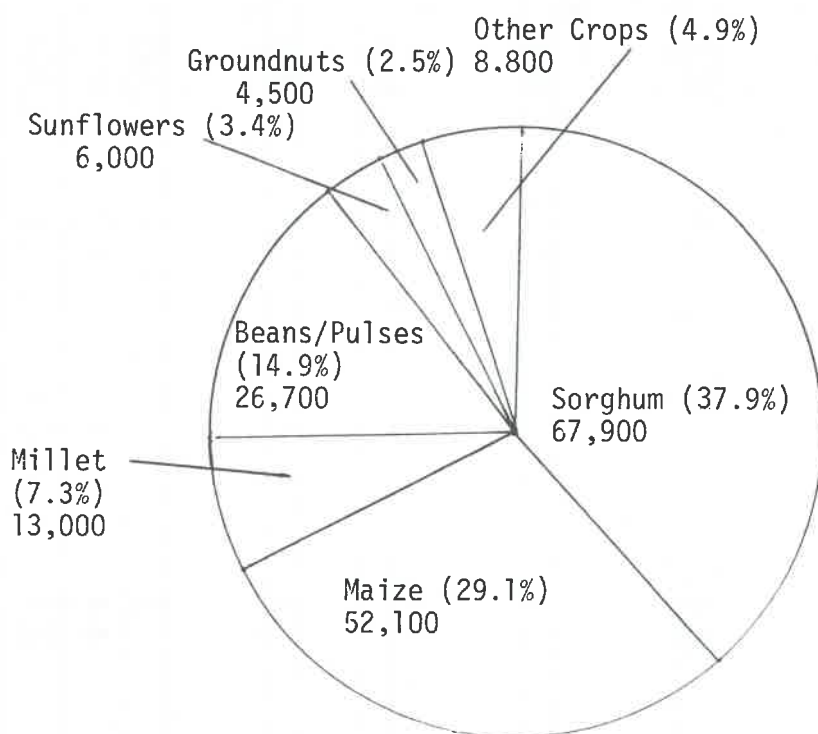
Figure 12: Traditional Hectares Planted by Region and Freehold Hectares Planted

1979 Livestock and Crop Survey

TABLE 28: Number of Crop Farms, Area of Crop Land Planted, and Average Size Classified by Size of Crop Land Planted

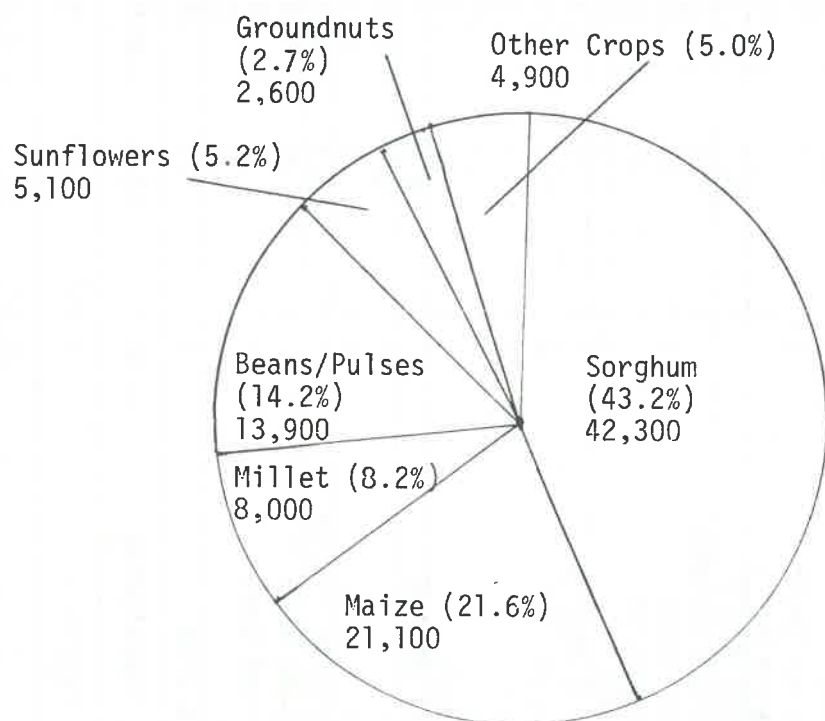
Hectareage Size	Number of Farms		Area of Crop Land		Average Size
	Number	Percentage	Hectares (000)	Percentage	Hectares
			TRADITIONAL		
.1-1.0	6,000	14.0	3.8	2.2	.6
1.1-2.0	9,500	22.1	14.7	8.6	1.6
2.1-3.0	9,900	23.0	25.0	14.6	2.5
3.1-4.0	4,900	11.4	16.9	9.9	3.5
4.1-5.0	3,100	7.2	14.0	8.2	4.5
5.1-6.0	2,500	5.8	13.3	7.8	5.3
6.1-7.0	1,400	3.3	9.1	5.3	6.5
7.1-8.0	1,400	3.3	10.4	6.1	7.4
8.1-9.0	800	1.9	6.7	3.9	8.4
9.1-10.0	600	1.4	6.0	3.5	10.0
10.1-15.0	1,700	3.9	20.4	11.9	12.0
15.1+	1,200	2.7	30.7	18.0	25.6
TOTAL TRADITIONAL	43,000	100.0	171.0	100.0	4.0

# 1979 Livestock and Crop Survey



Total Hectares Planted 179,000

Figure 13 : Total Hectares Planted by Crops , Traditional and Freehold



Total Hectares Harvested 97,900

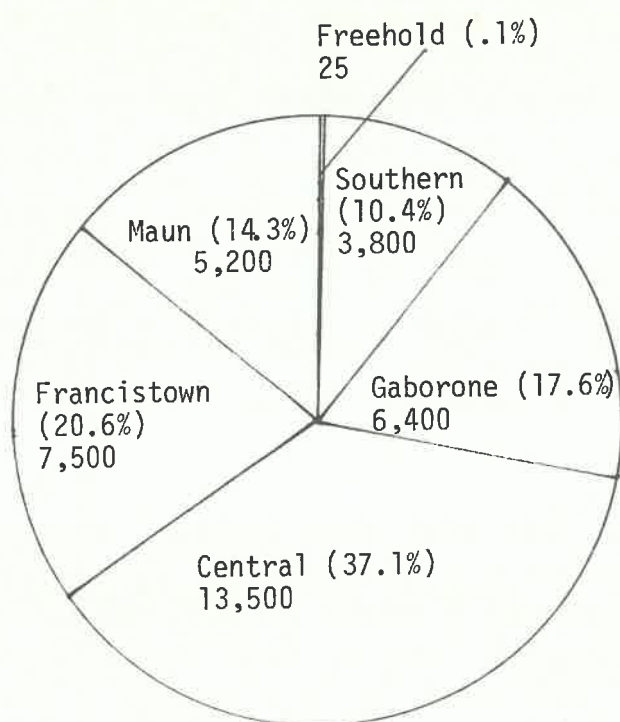
Figure 14 : Total Hectares Harvested by Crops , Traditional and Freehold

## 1979 Livestock and Crop Survey

TABLE 31: Sorghum Farm Numbers, Areas Planted and Harvested, Total Production, and Average Production by Districts and Regions

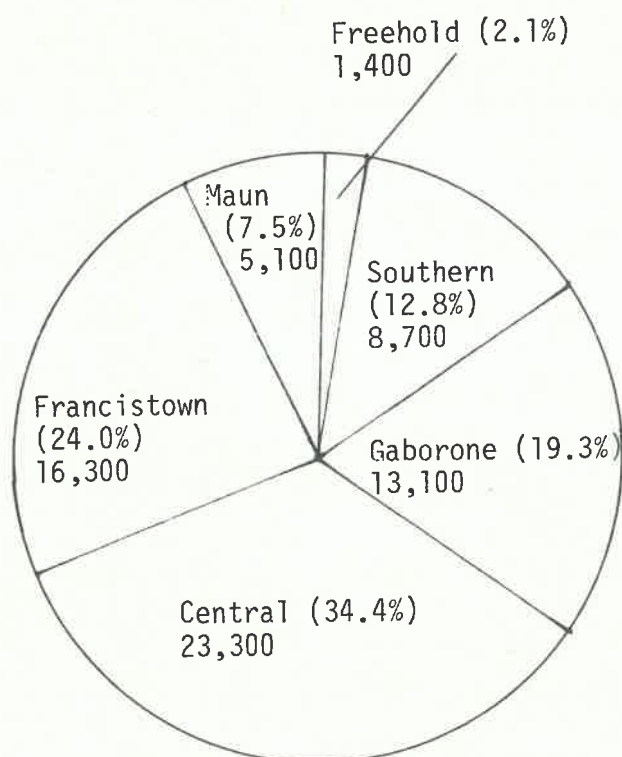
Districts/ Regions	Farms Number	Planted Areas			Harvested Area Total (000)	Harvested Area as a Percentage of Planted Area Percentage	Total Production Metric tons	Average Yield per Hectare Kilograms
		Pure	Mixed	Total Hectares				
TRADITIONAL								
Barolong	200	1.3	.2	1.5	1.3	87	105	81
Ngwaketse South	1,200	2.4	1.6	4.0	2.0	50	125	62
Ngwaketse North	2,400	.2	3.0	3.2	1.5	47	100	67
SOUTHERN REGION	3,800	3.9	4.8	8.7	4.8	55	330	69
Bamalete/Tlokweng	500	2/	.4	.4	.2	50	15	75
Kweneng South	2,600	1.2	4.2	5.4	2.8	52	230	82
Kweneng North	800	.6	1.1	1.7	.4	24	25	62
Kgatleng	2,500	2.5	3.1	5.6	4.0	71	430	108
GABORONE REGION	6,400	4.3	8.8	13.1	7.4	56	700	95
Mahalapye	4,300	6.1	3.1	9.2	6.9	75	640	93
Palapye	3,700	3.2	2.6	5.8	2.7	47	230	85
Serowe	2,900	2.2	2.4	4.6	1.5	33	130	87
Mmadinare	2,600	.3	3.4	3.7	1.6	43	150	94
CENTRAL REGION	13,500	11.8	11.5	23.3	12.7	55	1,150	91
Tati	3,700	.9	7.9	8.8	7.6	86	720	95
Tutume	3,800	2.4	5.1	7.5	6.2	83	680	110
FRANCISTOWN REGION	7,500	3.3	13.0	16.3	13.8	85	1,400	101
Ngamiland West	2,400	.3	1.2	1.5	.7	47	60	86
Ngamiland East	2,200	2.1	1.0	3.1	1.2	39	80	67
Chobe	600	.3	.2	.5	.4	80	30	75
MAUN REGION	5,200	2.7	2.4	5.1	2.3	45	170	74
TOTAL TRADITIONAL	36,400	26.0	40.5	66.5	41.0	61	3,750	91
TOTAL FREEHOLD	25	1.4	2/	1.4	1.3	93	550	423
TOTAL	36,425	27.4	40.5	67.9	42.3	62	4,300	102

## 1979 Livestock and Crop Survey



Total Sorghum Farms 36,425

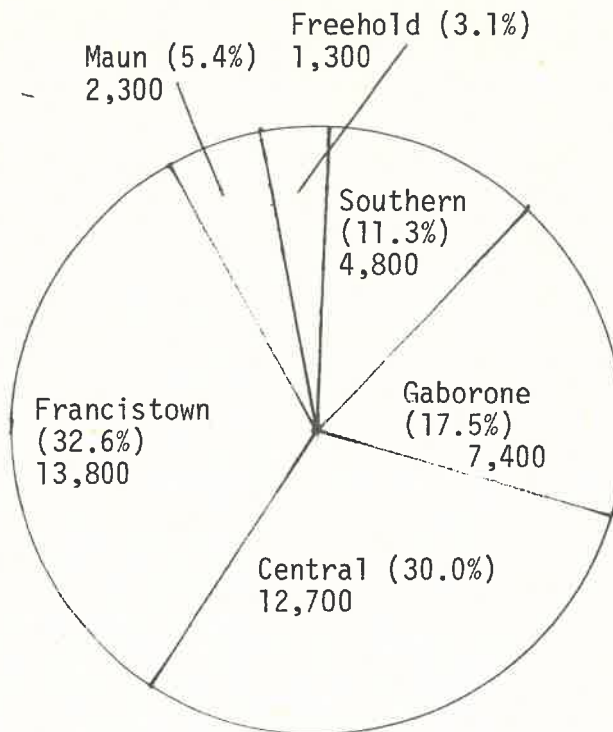
Figure 15: Traditional Sorghum Farms by Regions and Freehold Sorghum Farms



Total Sorghum Hectares Planted 67,900

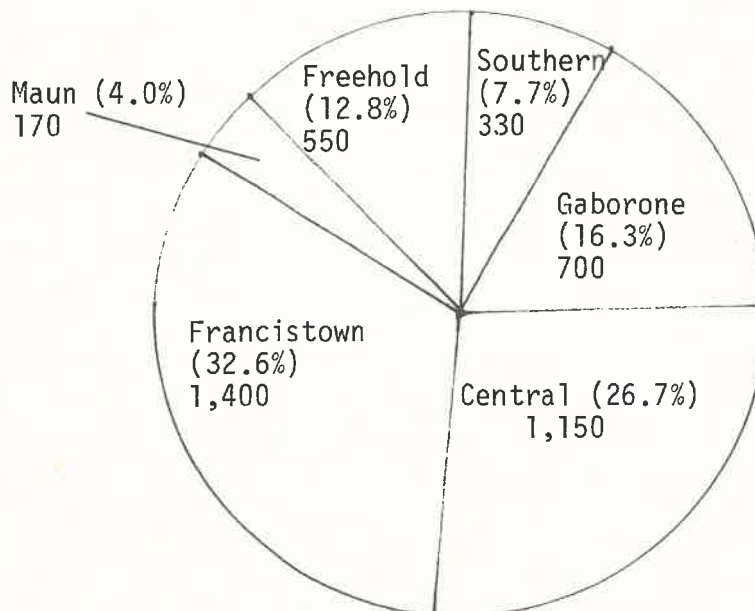
Figure 16: Traditional Sorghum Hectares Planted by Regions and Freehold Sorghum Planted

1979 Livestock and Crop Survey



Total Sorghum Hectares Harvested 42,300

Figure 17: Traditional Sorghum Hectares Harvested by Regions and Freehold Sorghum Harvested



Total Sorghum Production (Metric Tons) 4,300

Figure 18: Traditional Sorghum Production by Regions and Freehold Sorghum Production



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TABLE 32: Sorghum Farm Numbers, Area of Crop Land, and Average Size Classified by Size of Area Planted

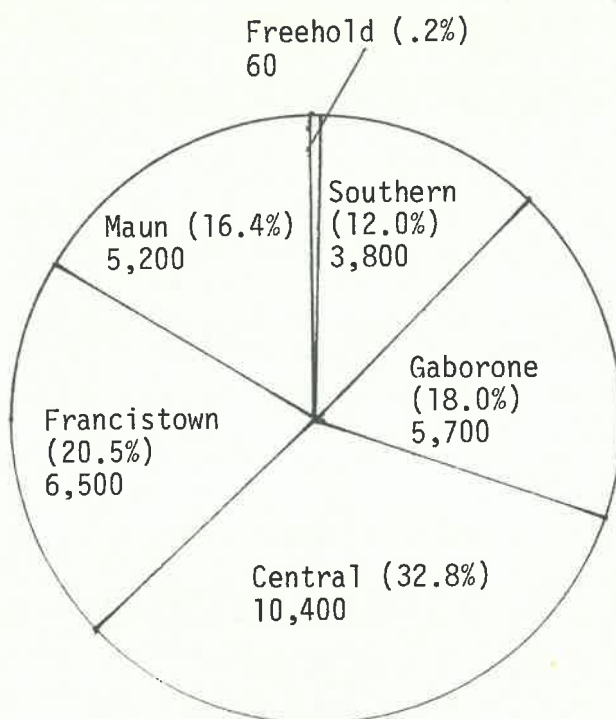
Hectarage Size	Number of Farms		Area of Crop Land		Average Size
	Number	Percentage	Hectares (000)	Percentage	Hectares
			<u>TRADITIONAL</u>		
.1-1.0	14,600	40.1	8.1	12.2	.6
1.1-2.0	11,300	31.1	16.4	24.7	1.5
2.1-3.0	5,500	15.1	14.0	21.1	2.6
3.1-4.0	1,900	5.2	6.6	9.9	3.5
4.1+	3,100	8.5	21.4	32.1	6.9
TOTAL TRADITIONAL	36,400	100.0	66.5	100.0	1.8

## 1979 Livestock and Crop Survey

TABLE 33: Maize Farm Numbers, Area Planted and Harvested, Total Production, and Average Production by Districts and Regions

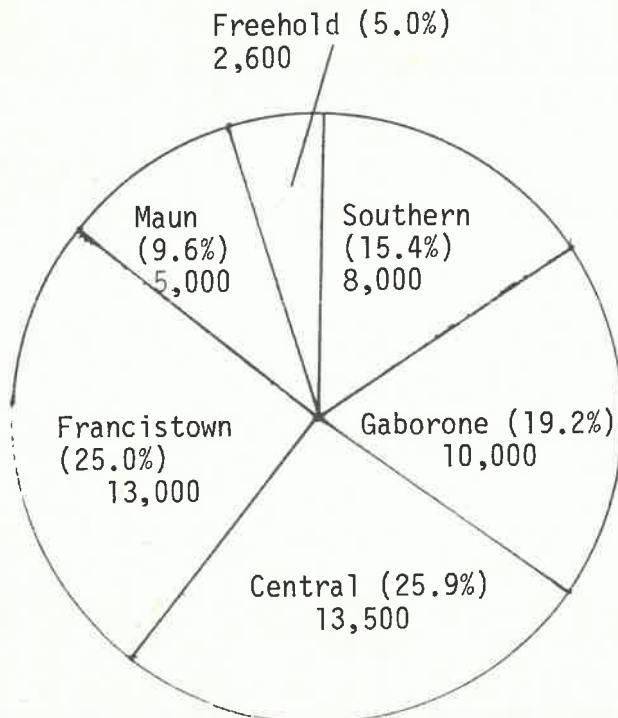
Districts/ Regions	Farms Number	Planted Areas			Harvested Area Total	Harvested Area as a Percentage of Planted Area Percentage	Total Production Metric tons	Average Yield per Hectare Kilograms
		Pure	Mixed	Total				
		-----Hectares (000)-----			-----			
TRADITIONAL								
Barolong	500	1.3	.4	1.7	1.2	71	90	75
Ngwaketse South	1,100	2.0	1.6	3.6	.8	22	50	62
Ngwaketse North	2,200	.5	2.2	2.7	.8	29	45	56
SOUTHERN REGION	3,800	3.8	4.2	8.0	2.8	35	185	66
Bamalete/Tlokweng	500	.1	.2	.3	.1	33	6	60
Kweneng South	2,800	1.7	3.4	5.1	1.2	23	63	52
Kweneng North	500	.1	.8	.9	.2	22	8	40
Kgatleng	1,900	1.7	2.0	3.7	1.4	37	103	74
GABORONE REGION	5,700	3.6	6.4	10.0	2.9	29	180	62
Mahalapye	2,900	2.2	1.6	3.8	2.1	55	175	83
Palapye	1,900	.4	2.1	2.5	.6	24	50	83
Serowe	3,100	1.5	2.5	4.0	.9	22	65	72
Mmadinare	2,500	.6	2.6	3.2	.8	25	65	81
CENTRAL REGION	10,400	4.7	8.8	13.5	4.4	32	355	81
Tati	3,200	.1	7.0	7.1	4.1	57	360	88
Tutume	3,300	1.2	4.7	5.9	3.3	55	370	112
FRANCISTOWN REGION	6,500	1.3	11.7	13.0	7.4	56	730	99
Ngamiland West	2,300	.9	.7	1.6	.5	31	50	100
Ngamiland East	2,300	1.9	1.2	3.1	.8	25	60	75
Chobe	600	.1	.2	.3	.2	66	40	200
MAUN REGION	5,200	2.9	2.1	5.0	1.5	30	150	100
TOTAL TRADITIONAL	31,600	16.3	33.2	49.5	19.0	38	1,600	84
TOTAL FREEHOLD	60	2.6	2/	2.6	2.1	81	650	310
TOTAL	31,660	18.9	33.2	52.1	21.1	40	2,250	107

1979 Livestock and Crop Survey



Total Maize Farms 31,660

Figure 19: Traditional Maize Farms by Regions and Freehold Maize Farms



Total Maize Hectares Planted 52,100

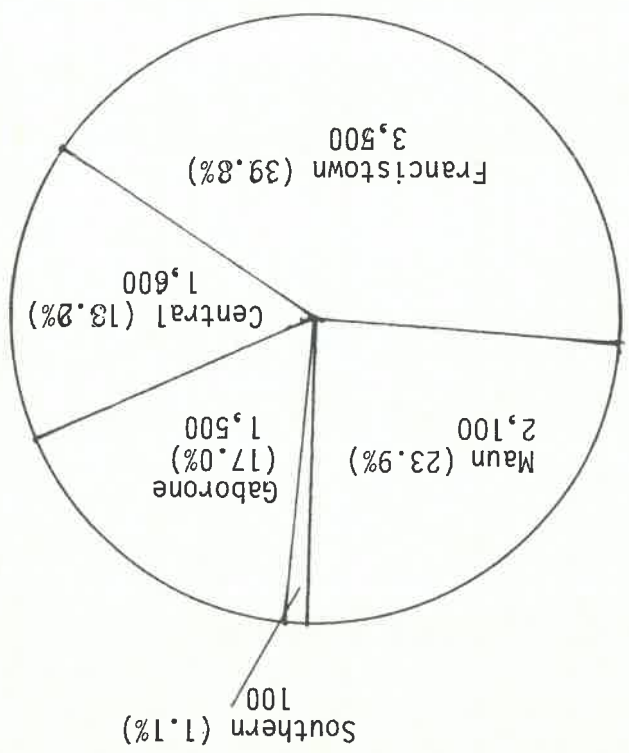
Figure 20: Traditional Maize Hectares Planted by Regions and Freehold Maize Planted

## 1979 Livestock and Crop Survey

TABLE 35: Millet Farm Numbers, Area Planted and Harvested, Total Production, and Average Production by Districts and Regions

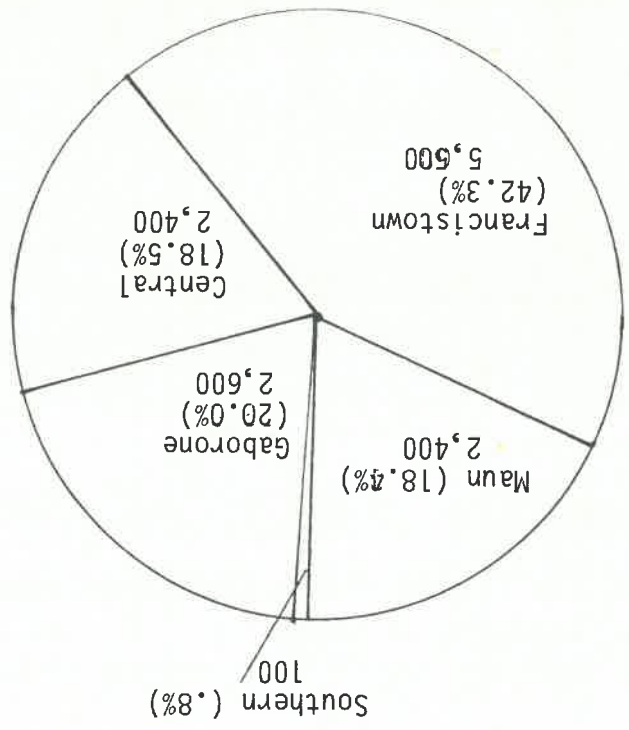
Districts/ Regions	Farms Number	Planted Areas			Harvested Area Total	Harvested Area as a Percentage of Planted Area Percentage	Total Production Metric tons	Average Yield per Hectare Kilograms
		Pure <sup>4/</sup>	Mixed <sup>4/</sup>	Total <sup>4/</sup>				
		-----Hectares (000)-----						
TRADITIONAL								
Barolong	4/			4/	4/	-	4/	-
Ngwaketse South	4/			4/	4/	-	4/	-
Ngwaketse North	4/			4/	4/	-	4/	-
SOUTHERN REGION	100			.1	.1	100	8	80
Bamalete/Tlokweng	2/			2/	2/	-	5/	-
Kweneng South	300			.3	.2	67	14	70
Kweneng North	100			.1	2/	-	2	-
Kgatleng	1,100			2.2	1.5	68	144	96
GABORONE REGION	1,500			2.6	1.7	65	160	94
Mahalapye	400			.8	.1	12	11	110
Palapye	300			.7	.3	43	28	93
Serowe	300			.4	.1	25	9	90
Mmadinare	600			.5	.3	60	27	90
CENTRAL REGION	1,600			2.4	.8	33	75	94
Tati	1,800			3.2	2.5	78	300	120
Tutume	1,700			2.3	2.1	91	280	133
FRANCISTOWN REGION	3,500			5.5	4.6	84	580	126
Ngamiland West	1,400			.9	.4	44	41	102
Ngamiland East	700			1.5	.4	27	35	88
Chobe	2/			2/	2/	-	1	-
MAUN REGION	2,100			2.4	.8	33	77	96
TOTAL TRADITIONAL	8,800	3.5	9.5	13.0	8.0	62	900	112
TOTAL FREEHOLD	2/	2/	2/	2/	2/	-	5/	-
TOTAL	8,800	3.5	9.5	13.0	8.0	62	900	112

1979 Livestock and Crop Survey



Total Millet Farms 8,800

Figure 23: Traditional Millet Farms by Regions and Freehold Millet Farms

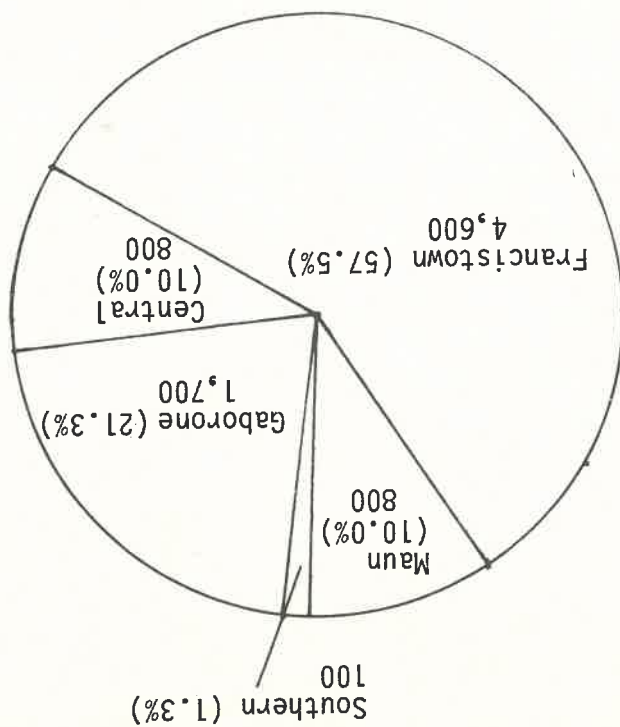


Total Millet Hectares Planted 13,000

Figure 24: Traditional Millet Hectares Planted by Regions and Freehold Millet Hectares Planted

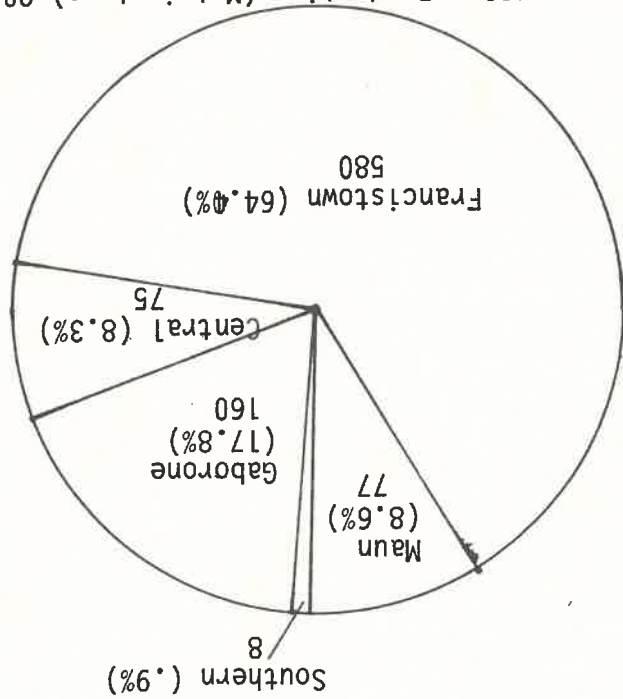


1979 Livestock and Crop Survey



Total Millet Hectares Harvested 8,000

Figure 25: Traditional Millet Hectares Harvested by Regions and Freehold



Total Millet Production (Metric tons) 900

Figure 26: Traditional Millet Production in Metric Tons by Regions and Freehold Millet Production

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TABLE 36: Millet Farm Numbers, Area of Crop Land, and Average Size Classified by Size of Area Planted

Hectareage Size	Number of Farms		Area of Crop Land		Average Size
	Number	Percentage	Hectares (000)	Percentage	Hectares
<u>TRADITIONAL</u>					
.1-1.0	4,900	55.7	2.7	20.8	.6
1.1-2.0	2,500	28.4	3.6	27.7	1.4
2.1-3.0	500	5.7	1.2	9.2	2.4
3.1-4.0	300	3.4	1.1	8.5	3.7
4.1+	600	6.8	4.4	33.8	7.3
TOTAL TRADITIONAL	8,800	100.0	13.0	100.0	1.5



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TABLE 37: Beans/Pulses Farm Numbers, Area Planted and Harvested, Total Production, and Average Production by Districts and Regions

Districts/ Regions	Farms Number	Planted Areas			Harvested Area Total	Harvested Area as a percentage of Planted Area Percentage	Total Production Metric tons	Average Yield per Hectare Kilograms
		Pure <sup>4/</sup>	Mixed <sup>4/</sup>	Total				
		-----Hectares (000)-----						
TRADITIONAL								
Barolong	600			.9	.7	78	6	86
Ngwaketse South	700			1.1	.4	36	32	80
Ngwaketse North	1,800			2.4	.9	38	54	60
SOUTHERN REGION	3,100			4.4	2.0	45	92	46
Bamalete/Tlokweng	500			.3	.1	33	8	80
Kweneng South	1,900			2.8	1.1	39	81	74
Kweneng North	500			.5	.1	20	5	50
Kgatleng	1,500			1.8	1.0	56	80	80
GABORONE REGION	4,400			5.4	2.3	43	174	76
Mahalapye	2,300			2.9	1.8	62	131	73
Palapye	1,600			1.9	.8	42	56	70
Serowe	1,700			1.9	.6	32	41	68
Mmadinare	1,100			.7	.3	43	19	63
CENTRAL REGION	6,700			7.4	3.5	47	247	71
Tati	2,300			4.3	3.2	74	241	75
Tutume	1,600			2.6	2.1	81	170	81
FRANCISTOWN REGION	3,900			6.9	5.3	77	411	78
Ngamiland West	1,200			.7	.3	43	17	57
Ngamiland East	900			1.1	.3	25	18	60
Chobe	200			.1	2/	-	1	-
MAUN REGION	2,300			1.9	.6	32	36	60
TOTAL TRADITIONAL	20,400	4.4	21.6	26.0	13.7	53	960	70
TOTAL FREEHOLD	30	.4	2/	.4 <sup>400</sup>	.2	50	40	200
TOTAL	20,430	4.8	21.6	26.4	13.9	53	1,000	72

Figure 27: Traditional Beans/Pulses Farms by Regions and Freehold Beans/Pulses Farms

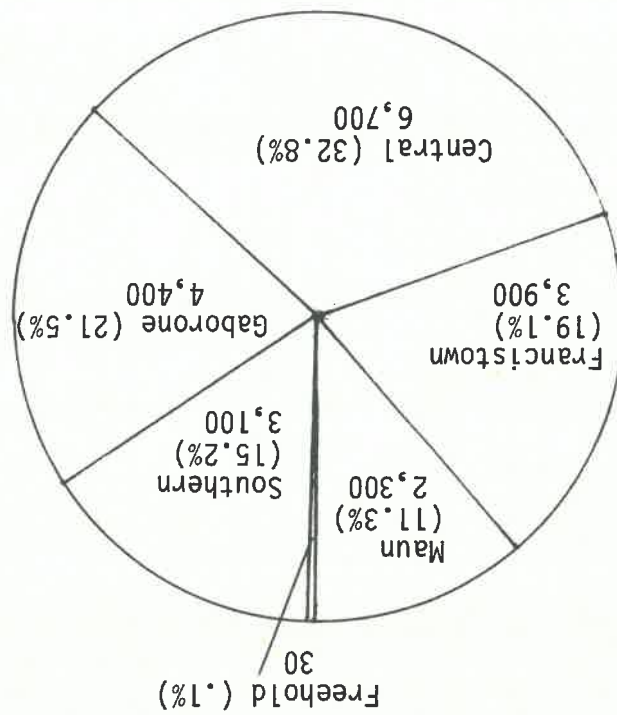
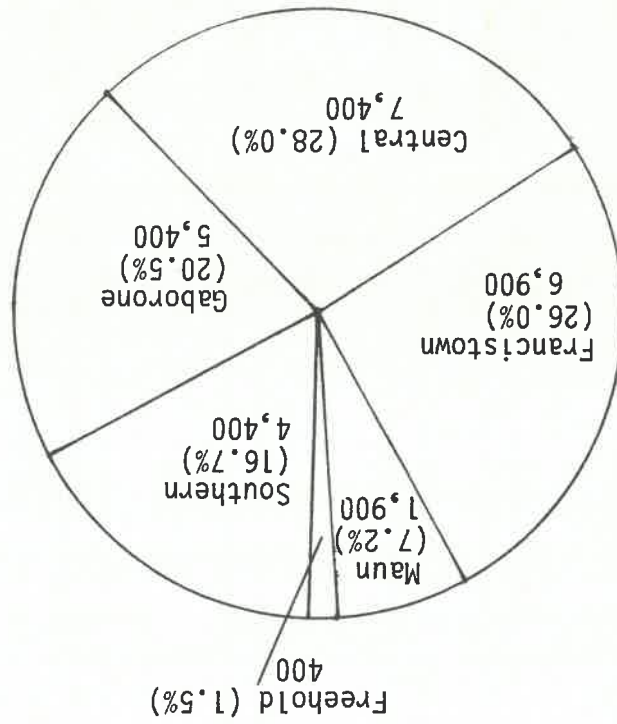
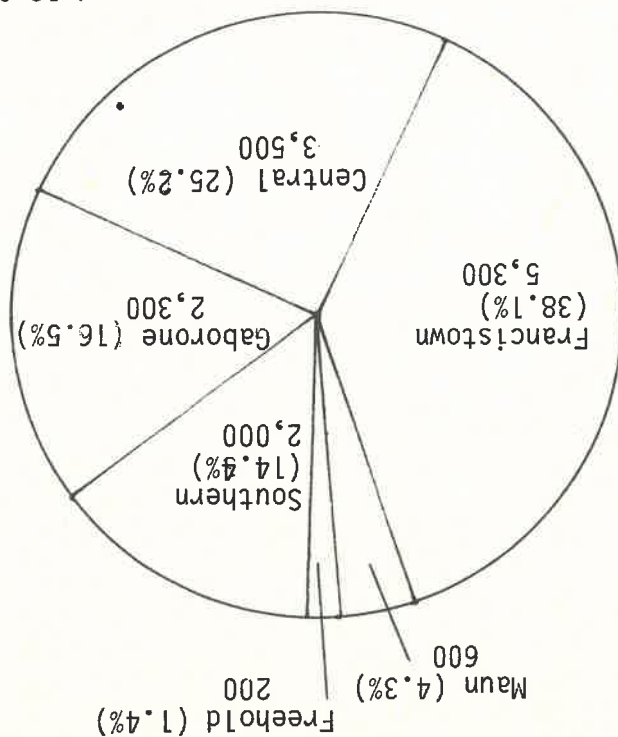


Figure 28: Traditional Beans/Pulses Hectares Planted by Regions and Freehold Beans/Pulses Hectares Planted

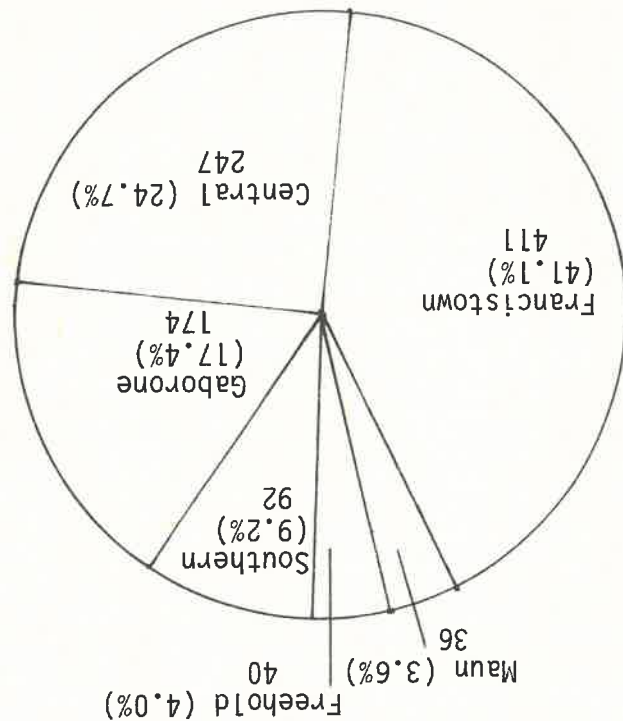


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Total Beans/Pulses Hectares Harvested 13,900

Figure 29: Traditional Beans/Pulses Hectares Harvested by Regions and Freehold Beans/Pulses Hectares Harvested



Total Production of Beans/Pulses in Metric Tons 1,000

Figure 30: Total Production of Beans/Pulses in Metric Tons by Regions and Freehold Beans/Pulses in Metric Tons

# 1979 Livestock and Crop Survey

TABLE 38: Beans/Pulses Farm Numbers, Area of Crop Land, and Average Size Classified by Size of Area Planted

Hectarage Size	Number of Farms		Area of Crop Land		Average Size
	Number	Percentage	Hectares (000)	Percentage	Hectares
			<u>TRADITIONAL</u>		
.1-1.0	10,800	52.9	5.8	22.3	.5
1.1-2.0	6,200	30.4	8.3	31.9	1.3
2.1-3.0	1,900	9.3	4.5	17.3	2.4
3.1-4.0	800	3.9	2.9	11.2	3.6
4.1+	700	3.5	4.5	17.3	6.4
TOTAL TRADITIONAL	20,400	100.0	26.0	100.0	1.3

30947

144378.2

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TABLE 39 : Groundnut Farm Numbers, Area Planted, Area Harvested, Total Production, and Average Yields by Region

Region	Groundnut Farms	Area Planted	Area Harvested	Total Production	Average Production per Hectarage
	Number	Hectarage (000)	Hectarage (000)	Metric tons	Kilograms
			<u>TRADITIONAL</u>		
Southern Region	200	.5	.3	21	70
Gaborone Region	400	.5	.2	11	55
Central Region	800	.7	.4	28	70
Francistown Region	1,000	1.8	1.4	105	75
Maun Region	200	.2	.1	6	60
TOTAL TRADITIONAL	2,600	3.7	2.4	171	71
TOTAL FREEHOLD	15	.8	.2	49	245
TOTAL	2,615	4.5	2.6	220	85

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TABLE 40: Sunflower Farm Numbers, Area Planted, Area Harvested, Total Production, and Average Yields by Regions

Region	Sunflower Farms	Area Planted	Area Harvested	Total Production	Average Production per Hectarage
	Number	Hectarage (000)	Hectarage (000)	Metric tons	Kilograms
<u>TRADITIONAL</u>					
Southern Region	1,000	3.0	2.6	375	144
Gaborone Region	200	.5	.4	50	125
Central Region	100	.1	.1	15	150
Francistown Region	200	1.0	.9	120	133
Maun Region	<u>2/</u>	<u>2/</u>	<u>2/</u>	<u>5/</u>	-
TOTAL TRADITIONAL	1,500	4.6	4.0	560	140
TOTAL FREEHOLD	25	1.4	1.1	340	309
TOTAL	1,525	6.0	5.1	900	176

