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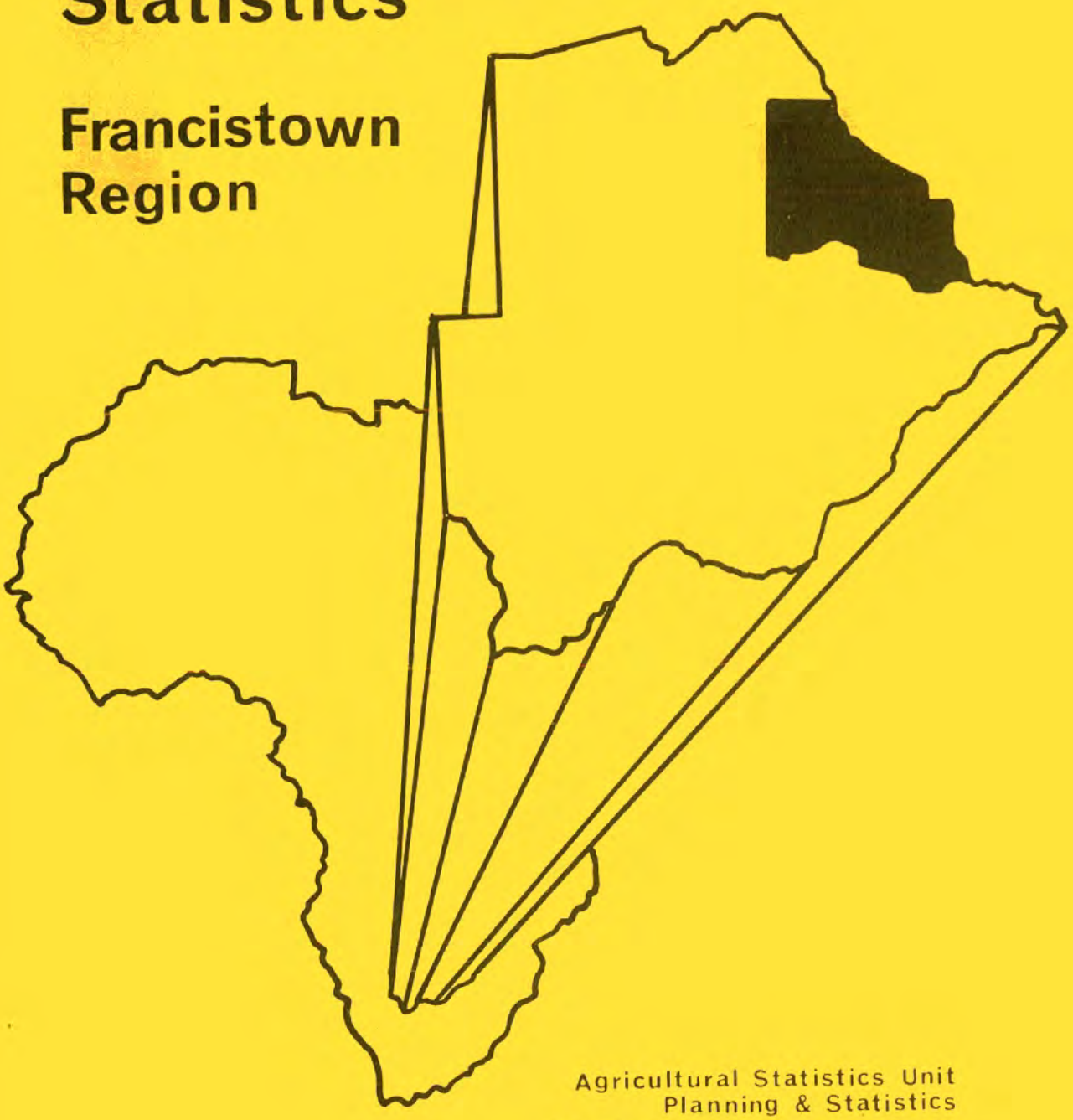
1980 Botswana Agricultural Statistics

Francistown Region



Agricultural Statistics Unit
Planning & Statistics
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PREFACE AND ACKNOWLEDGEMENTS

This is one of five regional agricultural statistics reports that are available in addition to the National Agricultural Statistics Report. This is the first time a series of regional reports have been published by the Agricultural Statistics Unit. They are part of an expanding program to provide more accurate and timely agricultural data needed for policy decisions and planning purposes.

The main feature of this report is that frequency distributions by size of holding are presented at a regional level. Also, the coefficients of variation are presented for the first time for regional estimates.

The data contained here can be used independently of any other. However, it is recommended that the 1980 National Agricultural Statistics be used in conjunction with this report. The National publication contains regional data on holder characteristics and farming practices that are not presented elsewhere. Also, a more detailed text is presented on area of coverage, methodology, training, data collection, summarization and limitations of data.

A project such as this can only be accomplished with the cooperation and dedication of all those who are associated with it. Special thanks are due to the following individuals: Ronald Tsheko, Leaname Mmolawa, Moffat Matlho, Idwani Mbakiso and Taferanyika Mapfumo, Francistown Region Statistical Team; David Benedetti, Evaluation Communications Officer; Geoff Hinchliffe, Systems Analyst/Programmer; Christine Beswick, Typist; and to the Office Staff, Agricultural Statistics Unit.

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1980 AGRICULTURAL STATISTICS

FRANCISTOWN REGION

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FRANCISTOWN REGION

1980 AGRICULTURAL STATISTICS

The Francistown Region 1980 Agricultural Statistics contains data on the Traditional farmers living in the Agricultural Extension Districts of Tati and Tutume. Excluded from the survey are the traditional farmers living "year around" in Francistown. Also,data on the commercial farms are excluded in this report.

Estimates were obtained from a probability sample survey using an area frame. The land area was stratified according to lands, cattle post and village areas. At the first stage of sampling the total area was divided into 284 blocks 31 of which were selected from the three above strata for each of the three districts. The secondary sampling unit was the farm holder within the blocks. A total of 210 farm holders were selected for about one out of every 51 farm holders.

The measure of the precision for regional estimates is stated in terms of the relative standard error called the coefficient of variation (C.V.). The standard error is calculated by multiplying the estimate by the coefficient of variation. The coefficients of variation are shown in summary Tables 1 and 2 for the Francistown Region estimates.

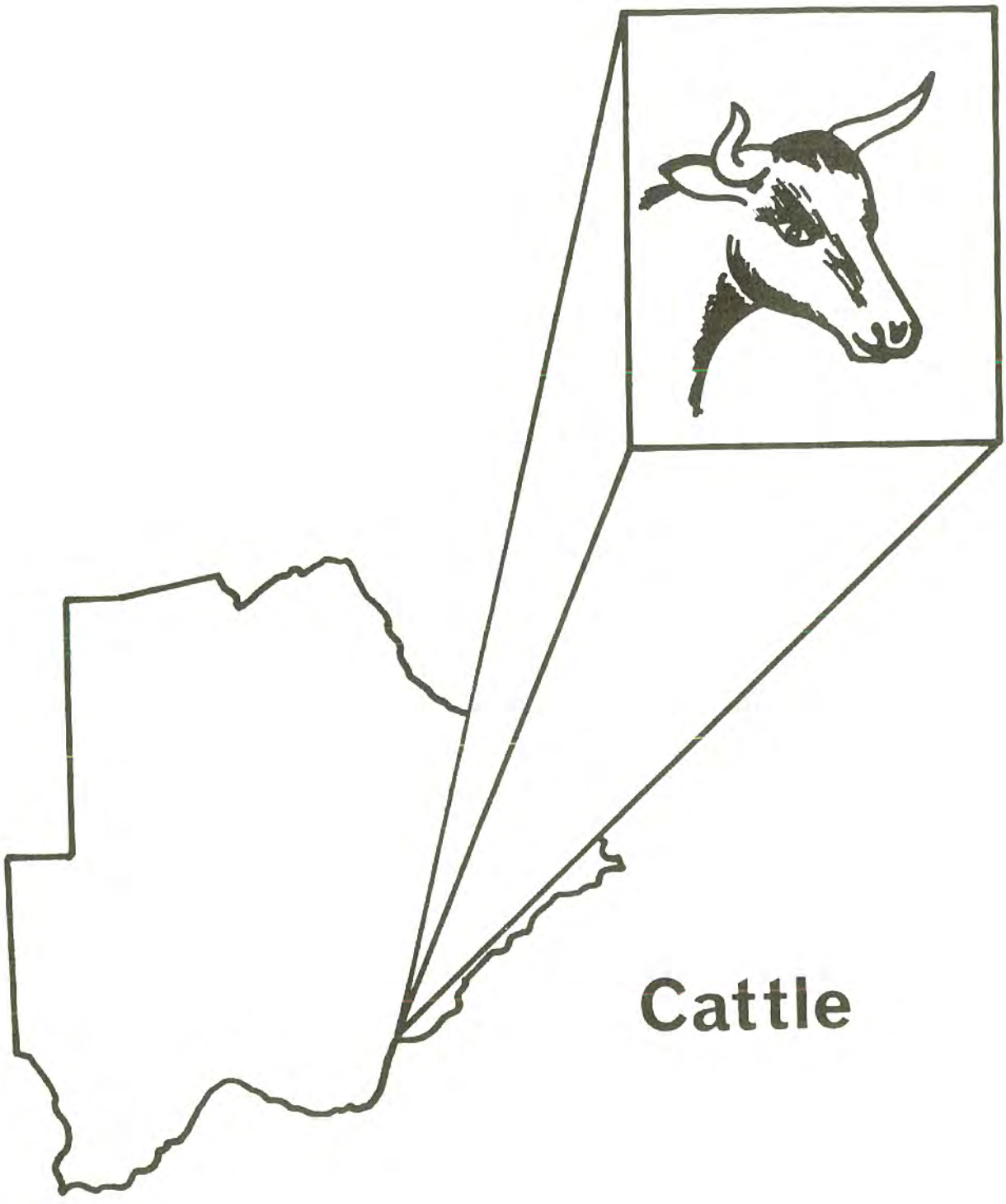
The survey data was collected by one survey team comprised of a supervisor, four enumerators, and a driver with vehicle. Further information on data collection, training, etc., can be found in the 1980 National Agricultural Statistics.

TABLE 1 : Summary of Traditional Livestock Estimates with Coefficients of Variation for Francistown Region - 1980 Agricultural Statistics

Category	Traditional	Coefficient of Variation
	Number	Percent
TOTAL FARMS	10,700	9.1
CATTLE:		
Cattle Farms	8,700	10.4
Total cattle	348,000	22.4
Bulls	6,100	19.9
Oxen	44,700	20.1
Cows	132,800	22.7
Tollies	45,100	23.6
Heifers	52,000	22.5
Calves	67,300	24.1
Births	82,000	22.4
Deaths	42,000	18.2
Sales	29,600	32.2
Purchases	5,200	31.4
Home slaughter	2,300	21.0
SHEEP:		
Sheep farms	2,200	26.3
Total sheep	10,000	32.7
Males one year & over	1,000	33.1
Females one year & over	6,500	30.1
Males under one year	1,200	40.2
Females under one year	1,300	44.6
Births	4,400	31.3
Deaths	4,300	45.3
Sales	600	40.7
Purchases	200	100.0
Home slaughter	600	61.6
GOATS:		
Goat farms	7,100	12.3
Total goats	73,000	14.8
Males one year & over	6,300	19.3
Females one year & over	38,600	14.3
Males under one year	12,600	9.6
Females under one year	15,500	21.2
Births	36,100	16.7
Deaths	26,900	15.9
Sales	2,200	26.9
Purchases	1,500	30.7
Home slaughter	4,100	23.8
OTHER LIVESTOCK:		
Mule/Donkey farms	2,200	29.0
Mules/donkeys	12,000	26.4
Horse farms	450	100.0
Horses	1,800	100.0
Chicken farms	10,000	9.0
Chickens	129,000	12.1

TABLE 2 : Summary of Traditional Crop Estimates with Coefficients of Variation for Francistown Region - 1980 Agricultural Statistics

Category	Traditional Number	Coefficient of Variation Percent
TOTAL CROPS:		
Farms with land	9,700	10.6
Farms with crops planted	9,300	11.2
Total land area (hectares)	44,200	13.7
Total area planted (hectares)	37,000	13.6
Total area harvested (hectares)	26,100	14.2
SORGHUM:		
Farms	9,200	11.3
Area planted (hectares)	14,700	13.6
Area harvested (hectares)	13,300	14.1
Total production (metric tons)	2,190	17.8
Average production (kg/hectare)	165	15.8
MAIZE:		
Farms	8,800	11.6
Area planted (hectares)	11,500	14.9
Area harvested (hectares)	5,600	17.4
Total production (metric tons)	655	20.9
Average production (kg/hectare)	117	23.5
MILLET:		
Farms	6,100	16.4
Area planted (hectares)	6,100	17.2
Area harvested (hectares)	4,800	18.8
Total production (metric tons)	870	25.2
Average production (kg/hectare)	181	21.6
BEANS/PULSES		
Farms	4,400	14.3
Area planted (hectares)	3,300	20.2
Area harvested (hectares)	1,700	28.5
Total production (metric tons)	215	35.7
Average production (kg/hectare)	126	43.3
FOUR CROPS: (Sorghum, Maize, Millet & Beans):		
Farms	9,300	11.2
Area planted (hectares)	35,600	13.7
Area harvested (hectares)	25,400	14.2
Total production (metric tons)	3,930	17.3
Average production (kg/hectare)	155	15.3

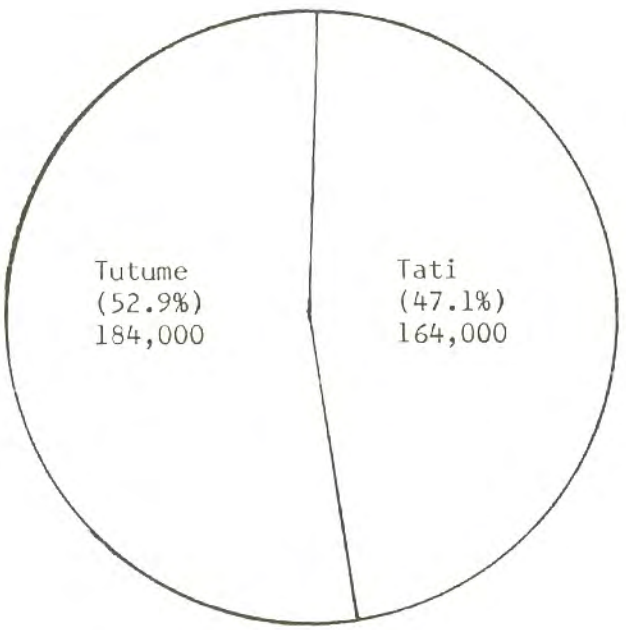


Cattle

TABLE 3 : CATTLE Farms, Animals and Average Size by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Cattle Farms		Total Cattle		Average Size
	Number	Percentage	Number (000)	Percentage	Number
DISTRICTS					
Tati	4,800	55.2	164.0	47.1	34.2
Tutume	3,900	44.8	184.0	52.9	47.2
TOTAL	8,700	100.0	348.0	100.0	40.0
HERD SIZE					
1 - 10	2,600	29.9	17.2	4.9	6.6
11 - 20	2,100	24.1	31.7	9.1	15.1
21 - 30	1,100	12.6	26.8	7.7	24.4
31 - 40	600	6.9	20.5	5.9	34.2
41 - 50	150	1.7	6.2	1.8	41.3
51 - 60	700	8.1	37.0	10.6	52.9
61 - 100	800	9.2	63.9	18.4	79.9
101 +	650	7.5	144.7	41.6	222.6
TOTAL	8,700	100.0	348.0	100.0	40.0

1980 AGRICULTURAL STATISTICS



Total Cattle: 348,000

FIGURE 1: Traditional Cattle by Districts

TABLE 4 : CATTLE HERD COMPOSITION Bulls, Oxen, Cows, Tollies, Heifers and Calves by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Bulls	Oxen	Cows	Tollies	Heifers	Calves	Total Cattle
				- Number (000) -			
DISTRICTS							
Tati	2.9	20.3	61.6	22.5	26.1	30.6	164.0
Tutume	3.2	24.4	71.2	22.6	25.9	36.7	184.0
TOTAL	6.1	44.7	132.8	45.1	52.0	67.3	348.0
HERD SIZE							
1 - 10	.2	2.6	6.1	2.3	3.1	2.9	17.2
11 - 20	.6	4.8	11.4	4.0	5.3	5.6	31.7
21 - 30	.5	4.0	10.1	2.6	3.6	6.0	26.8
31 - 40	.5	3.2	8.2	2.8	2.4	3.4	20.5
41 - 50	.2	.9	2.3	1.0	.9	.9	6.2
51 - 60	.9	5.5	15.9	4.0	5.2	5.5	37.0
61 - 100	.9	8.6	21.6	8.7	10.7	13.4	63.9
101 +	2.3	15.1	57.2	19.7	20.8	29.6	144.7
TOTAL	6.1	44.7	132.8	45.1	52.0	67.3	348.0

TABLE 5 : CATTLE HERD COMPOSITION Bulls, Oxen, Cows, Tollies, Heifers and Calves by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Bulls	Oxen	Cows	Tollies	Heifers	Calves	Total
				- Percentage -			
DISTRICTS							
Tati	1.8	12.4	37.6	13.7	15.9	18.6	100.0
Tutume	1.7	13.3	38.7	12.3	14.1	19.9	100.0
TOTAL	1.8	12.8	38.2	13.0	14.9	19.3	100.0
HERD SIZE							
1 - 10	1.2	15.1	35.5	13.4	18.0	16.8	100.0
11 - 20	1.9	15.1	36.0	12.6	16.7	17.7	100.0
21 - 30	1.9	14.9	37.7	9.7	13.4	22.4	100.0
31 - 40	2.4	15.6	40.0	13.7	11.7	16.6	100.0
41 - 50	3.2	14.5	37.1	16.2	14.5	14.5	100.0
50 - 61	2.4	14.9	43.0	10.8	14.0	14.9	100.0
61 - 100	1.4	13.5	33.8	13.6	16.7	21.0	100.0
101 +	1.6	10.4	39.5	13.6	14.4	20.5	100.0
TOTAL	1.8	12.8	38.2	13.0	14.9	19.3	100.0

TABLE 6: CATTLE INVENTORY Births, Deaths, Sales, Home Slaughter and Purchases by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Births	Deaths	Sales	Home Slaughter	Purchases
			- Number (000) -		
DISTRICTS					
Tati	38.0	22.0	13.2	1.0	3.2
Tutume	44.0	20.0	16.4	1.3	2.0
TOTAL	82.0	42.0	29.6	2.3	5.2
HERD SIZE					
1 - 10	3.8	3.1	1.8	.4	.7
11 - 20	6.5	4.4	2.0	.2	1.3
21 - 30	7.2	4.0	1.8	.3	.1
31 - 40	4.7	6.0	1.3	.4	.6
41 - 50	1.2	1.1	.4	-	-
51 - 60	9.0	6.6	3.0	.3	1.1
61 - 100	15.8	7.0	4.3	.2	.6
101 +	33.8	9.8	15.0	.5	.8
TOTAL	82.0	42.0	29.6	2.3	5.2

TABLE 7 : CATTLE INVENTORY Ratio of Births to Cows and Deaths, Sales, Home Slaughter, and Purchases to Total Cattle by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

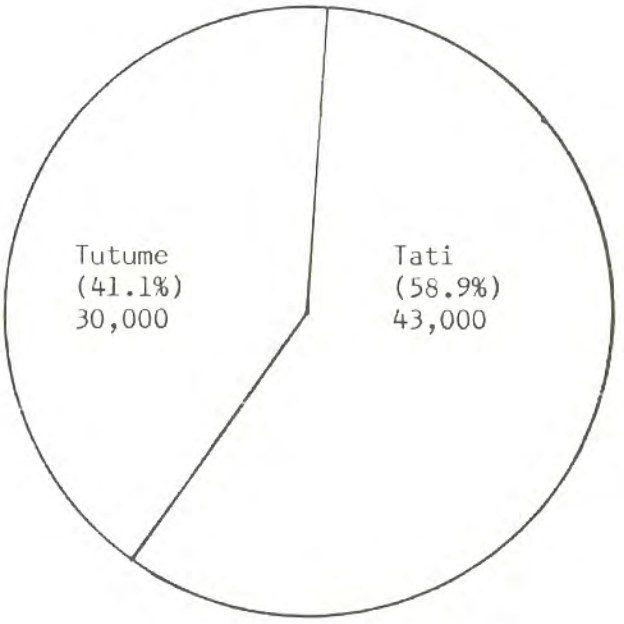
	Ratio of Births to Cows	Ratio of Deaths to Total Cattle	Ratio of Sales to Total Cattle	Ratio of Home Slaughter to Total Cattle	Ratio of Purchases to Total Cattle
			- Percentage -		
DISTRICTS					
Tati	61.7	13.4	8.0	.6	2.0
Tutume	61.8	10.9	8.9	.7	1.1
TOTAL	61.7	12.1	8.5	.7	1.5
HERD SIZE					
1 - 10	62.3	18.0	10.5	2.3	4.1
11 - 20	57.0	13.9	6.3	.6	4.1
21 - 30	71.3	14.9	6.7	1.1	.4
31 - 40	57.3	29.3	6.3	2.0	2.9
41 - 50	52.2	17.7	6.5	-	-
51 - 60	56.6	17.8	8.1	.8	3.0
61 - 100	73.1	11.0	6.7	.3	.9
101 +	59.1	6.8	10.4	.3	.6
TOTAL	61.7	12.1	8.5	.7	1.5

Goats, Sheep & Other Livestock

TABLE 8 : GOATS Farms, Animals and Average Size by Districts and Size of Goat Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Goat Farms		Total Goats		Average Size
	Number	Percentage	Number (000)	Percentage	Number
DISTRICTS					
Tati	4,400	62.0	43.0	58.9	9.8
Tutume	2,700	38.0	30.0	41.1	11.1
TOTAL	7,100	100.0	73.0	100.0	10.3
HERD SIZE					
1 - 5	2,500	35.2	8.7	11.9	3.5
6 - 10	2,300	32.4	17.7	24.2	7.7
11 - 15	800	11.3	9.4	13.0	11.8
16 - 20	600	8.5	11.2	15.3	18.7
21 - 30	700	9.8	16.6	22.7	23.7
31 +	200	2.8	9.4	12.9	47.0
TOTAL	7,100	100.0	73.0	100.0	10.3

1980 AGRICULTURAL STATISTICS



Total Goats: 73,000

FIGURE 2: Traditional Goats by Districts

TABLE 9 : GOAT HERD COMPOSITION Number of Males and Females One Year and Over, and Males and Females Under One Year by Districts and Size of Goat Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Males One Year and Over	Females One Year and Over	Males Under One Year	Females Under One Year	Total
			- Number (000) -		
DISTRICTS					
Tati	3.8	22.9	7.2	9.1	43.0
Tutume	2.5	15.7	5.4	6.4	30.0
TOTAL	6.3	38.6	12.6	15.5	73.0
HERD SIZE					
1 - 5	.6	5.4	1.2	1.5	8.7
6 - 10	1.7	9.0	2.9	4.1	17.7
11 - 15	1.0	4.4	2.1	1.9	9.4
16 - 20	1.0	5.9	2.3	2.0	11.2
21 - 30	1.4	8.5	3.2	3.5	16.6
31 +	.6	5.4	.9	2.5	9.4
TOTAL	6.3	38.6	12.6	15.5	73.0

TABLE 10 : GOAT HERD COMPOSITION — Percentage of Males and Females One Year and Over, and Males and Females Under One Year by Districts and Size of Goat Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Males One Year and Over	Females One Year and Over	Males Under One Year	Females Under One Year	Total
			- Percentage -		
DISTRICTS					
Tati	8.8	53.3	16.7	21.2	100.0
Tutume	8.3	52.3	18.0	21.4	100.0
TOTAL	8.6	52.9	17.3	21.2	100.0
HERD SIZE					
1 - 5	6.9	62.1	13.8	17.2	100.0
6 - 10	9.6	50.8	16.4	23.2	100.0
11 - 15	10.6	46.8	22.4	20.2	100.0
16 - 20	8.9	52.7	20.5	17.9	100.0
21 - 30	8.4	51.2	19.3	21.1	100.0
31 +	6.4	57.4	9.6	26.6	100.0
TOTAL	8.6	52.9	17.3	21.2	100.0

TABLE 11 : GOAT INVENTORY Births, Deaths, Sales, Home Slaughter and Purchases by Districts and Size of Goat Holding, Traditional Farms Francistown Region - 1980 Agricultural

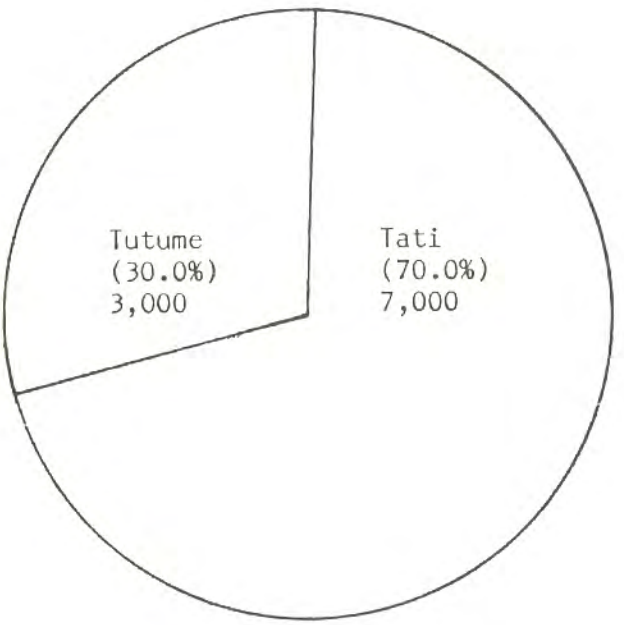
	Births	Deaths	Sales	Home Slaughter	Purchases
			- Number (000) -		
DISTRICTS					
Tati	21.1	17.3	1.0	2.6	.6
Tutume	15.0	9.6	1.2	1.5	.9
TOTAL	36.1	26.9	2.2	4.1	1.5
HERD SIZE					
0	.1	.1	-	-	-
1 - 5	4.0	9.4	1.3	1.5	1.1
6 - 10	8.8	4.2	.4	1.0	.3
11 - 15	5.4	4.0	.1	.5	.1
16 - 20	5.7	3.5	.1	.6	-
21 - 30	8.2	4.3	.2	.5	-
31 +	3.9	1.4	.1	-	-
TOTAL	36.1	26.9	2.2	4.1	1.5

TABLE 12: GOAT INVENTORY Ratio of Births, Deaths, Sales, Home Slaughter and Purchases to Total Goats by Districts and Size of Goat Holding, Traditional Farms Francistown Region- 1980 Agricultural Statistics

	Ratio of Births to Total Goats	Ratio of Deaths to Total Goats	Ratio of Sales to Total Goats	Ratio of Home Slaughter to Total Goats	Ratio of Purchases to Total Goats
			- Purchases -		
DISTRICTS					
Tati	49.1	40.2	2.3	6.0	1.4
Tutume	50.0	32.0	4.0	5.0	3.0
TOTAL	49.5	36.8	3.0	5.6	2.1
HERD SIZE					
1 - 5	46.0	108.0	14.9	17.2	12.6
6 - 10	49.7	23.7	2.3	5.6	1.7
11 - 15	57.4	42.6	1.1	5.3	1.1
16 - 20	50.9	31.2	.9	5.4	-
21 - 30	49.4	25.9	1.2	3.0	-
31 +	41.5	14.9	1.1	-	-
TOTAL	49.5	36.8	3.0	5.6	2.1

TABLE 13: SHEEP Farms, Animals and Average Size by Districts and Size of Sheep Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Sheep Farms		Total Sheep		Average Size
	Number	Percentage	Number (000)	Percentage	Number
DISTRICTS					
Tati	1,400	63.6	7.0	70.0	5.0
Tutume	800	36.4	3.0	30.0	3.8
TOTAL	2,200	100.0	10.0	100.0	4.5
HERD SIZE					
1 - 5	1,550	70.5	4.4	44.0	2.8
6 - 10	500	22.7	3.1	31.0	6.2
11 +	150	6.8	2.5	25.0	16.7
TOTAL	2,200	100.0	10.0	100.0	4.5



Total Sheep: 10,000

FIGURE 3: Traditional Sheep by Districts

TABLE 14: SHEEP HERD COMPOSITION Number of Males and Females One Year and Over, and Males and Females Under One Year by Districts and Size of Sheep Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Males One Year and Over	Females One Year and Over	Males Under One Year	Females Under One Year	Total
			- Number (000) -		
DISTRICTS					
Tati	.7	4.4	.9	1.0	7.0
Tutume	.3	2.1	.3	.3	3.0
TOTAL	1.0	6.5	1.2	1.3	10.0
HERD SIZE					
1 - 5	.4	3.0	.5	.5	4.4
6 - 10	.3	1.9	.4	.5	3.1
11 +	.3	1.6	.3	.3	2.5
TOTAL	1.0	6.5	1.2	1.3	10.0

TABLE 15: SHEEP HERD COMPOSITION Percentage of Males and Females One Year and Over, and Males and Females Under One Year by District and by Size of Sheep Holding, Traditional Farms, Francistown Region - 1980 Agricultural Statistics

	Males One Year and Over	Females One Year and Over	Males Under One Year	Females Under One Year	Total
			- Percentage -		
DISTRICTS					
Tati	10.0	62.8	12.9	14.3	100.0
Tutume	10.0	70.0	10.0	10.0	100.0
TOTAL	10.0	65.0	12.0	13.0	100.0
HERD SIZE					
1 - 5	9.1	68.2	11.4	11.3	100.0
6 - 10	9.7	61.3	12.9	16.1	100.0
11 +	12.0	64.0	12.0	12.0	100.0
TOTAL	10.0	65.0	12.0	13.0	100.0

TABLE 16: SHEEP INVENTORY Births, Deaths, Sales, Home Slaughter and Purchases by Districts and Size of Sheep Holding, Traditional Farms
Francistown Region - 1980 Agricultural Statistics

	Births	Deaths	Sales	Home Slaughter	Purchases
			- Number (000) -		
DISTRICTS					
Tati	3.1	2.9	.4	.5	.2
Tutume	1.3	1.4	.2	.1	-
TOTAL	4.4	4.3	.6	.6	.2
HERD SIZE					
0	.2	.3	-	-	-
1 - 5	1.9	1.8	.3	.2	.2
6 - 10	1.4	2.0	.2	.4	-
11 +	.9	.2	.1	-	-
TOTAL	4.4	4.3	.6	.6	.2

TABLE 17: SHEEP INVENTORY — Ratio of Births, Deaths, Sales, Home Slaughter and Purchases to Total Sheep by Districts and Size of Sheep Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

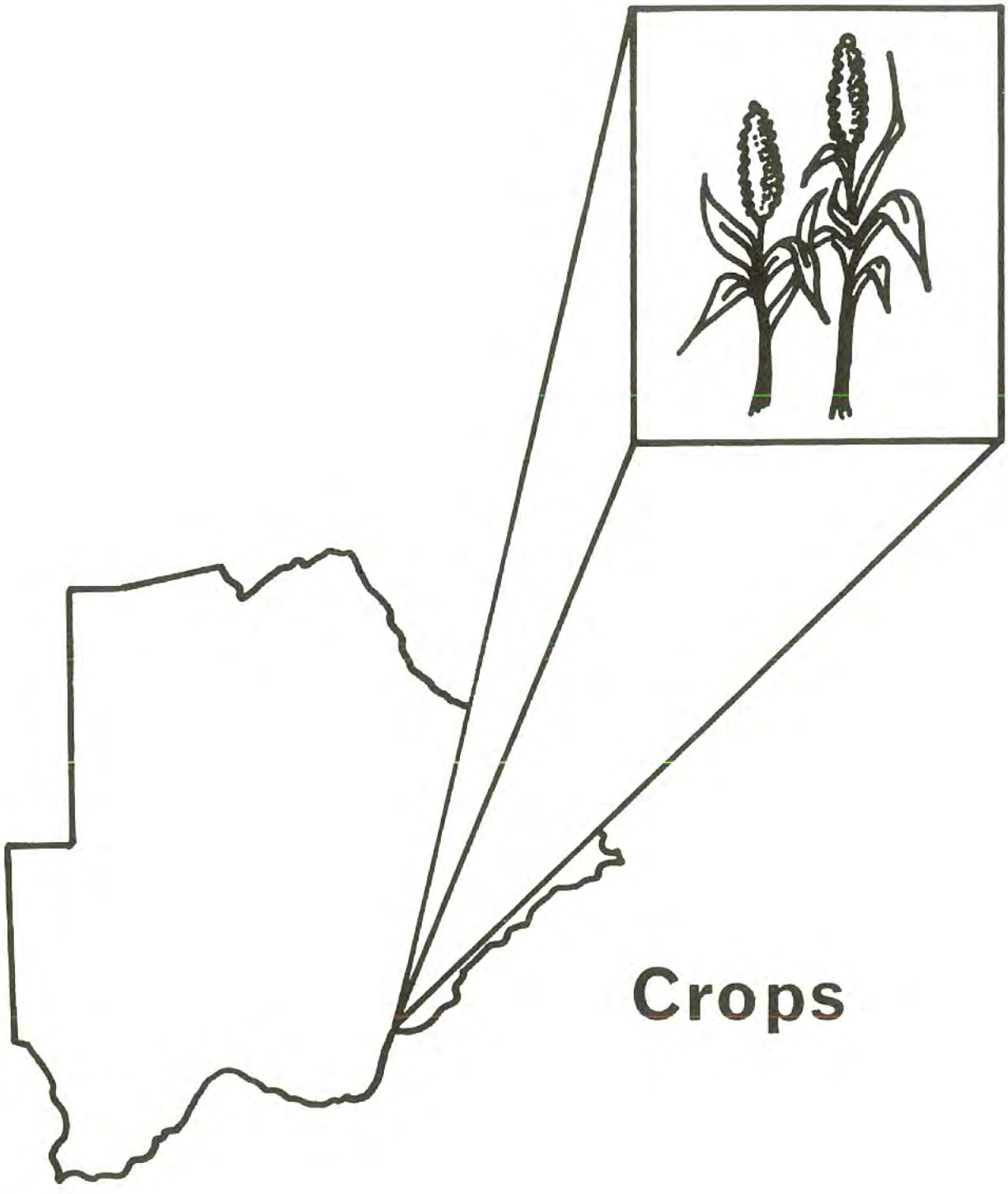
	Ratio of Births to Total Sheep	Ratio of Deaths to Total Sheep	Ratio of Sales to Total Sheep	Ratio of Home Slaughter to Total Sheep	Ratio of Purchases to Total Sheep
			- Percentage -		
DISTRICTS					
Tati	44.3	41.4	5.7	7.1	2.9
Tutume	43.3	46,7	6.7	3.3	-
TOTAL	44.0	43.0	6.0	6.0	2.0
HERD SIZE					
1 - 5	43.2	40.9	6.8	4.5	4.5
6 - 10	45.2	64.5	6.5	12.9	-
11 +	36.0	8.0	4.0	-	-
TOTAL	44.0	43.0	6.0	6.0	2.0

TABLE 18: DONKEYS/MULES Farms, Animals and Average Size by Districts and Size of Donkey/Mule Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Donkey/Mule Farms		Total Donkeys/Mules		Average Size
	Number	Percentage	Number (000)	Percentage	Number
DISTRICTS					
Tati	1,200	54.5	7.9	65.8	6.6
Tutume	1,000	45.5	4.1	34.2	4.1
TOTAL	2,200	100.0	12.0	100.0	5.5
HERD SIZE					
1 - 5	1,400	63.6	5.0	41.7	3.6
6 - 10	650	29.5	5.0	41.7	7.7
11 +	150	6.9	2.0	16.6	13.3
TOTAL	2,200	100.0	12.0	100.0	5.5

TABLE 19 : CHICKENS Farms, Birds and Average Size by Districts and Size of Flock, Traditional Farms
Francistown Region - 1980 Agricultural Statistics

	Chicken Farms		Total Chickens		Average Size
	Number	Percentage	Number (000)	Percentage	Number
DISTRICTS					
Tati	5,900	59.0	81.0	62.8	13.7
Tutume	4,100	41.0	48.0	37.2	11.7
TOTAL	10,000	100.0	129.0	100.0	12.9
FLOCK SIZE					
1 - 5	2,700	27.0	9.4	7.3	3.5
6 - 10	2,300	23.0	20.3	15.7	8.8
11 - 15	2,000	20.0	26.6	20.6	13.3
16 - 20	1,700	17.0	31.1	24.1	18.3
21 - 25	400	4.0	8.9	6.9	22.3
26 - 30	400	4.0	11.8	9.8	29.5
31 +	500	5.0	20.9	15.6	41.8
TOTAL	10,000	100.0	129.0	100.0	12.9



Crops

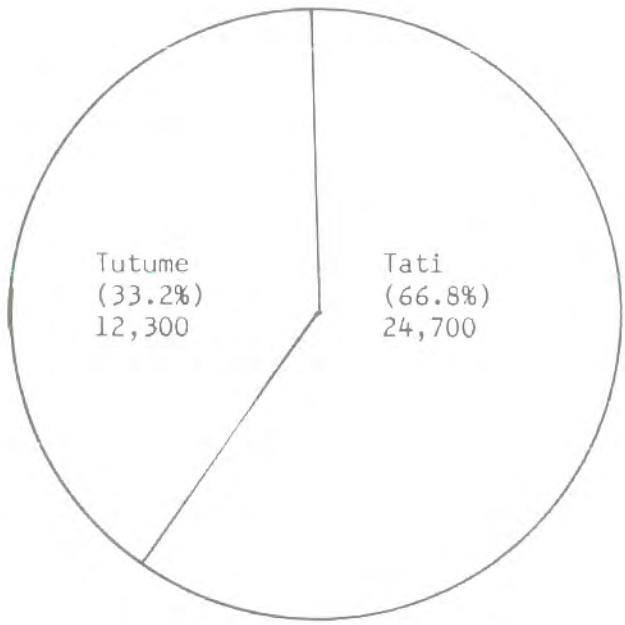
TABLE 20 : TOTAL LAND Farms, Area and Land Area per Farm by Districts and Size of Land Holdings, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms with Land		Land Area		Land Area per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
DISTRICTS					
Tati	6,000	61.9	31.4	71.0	5.2
Tutume	3,700	38.1	12.8	29.0	3.5
TOTAL	9,700	100.0	44.2	100.0	4.6
HECTARAGE SIZE					
.1 - 1.0	600	6.2	.4	.9	.7
1.1 - 2.0	1,800	18.6	2.7	6.1	1.5
2.1 - 3.0	2,050	21.1	5.3	12.0	2.6
3.1 - 4.0	1,250	12.9	4.2	9.5	3.4
4.1 - 5.0	1,100	11.3	5.0	11.3	4.5
5.1 - 6.0	750	7.7	4.0	9.1	5.3
6.1 - 7.0	650	6.7	4.3	9.7	6.6
7.1 - 10.0	1,050	10.8	8.5	19.2	8.1
10.0 +	450	4.7	9.8	22.2	21.8
TOTAL	9,700	100.0	44.2	100.0	4.6

TABLE 21: CROP LAND (PLANTED LAND) Farms, Area Planted and Area Planted per Farm by Districts and Size of Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Crop Farms		Area Planted		Area Planted per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
DISTRICTS					
Tati	5,700	61.3	24.7	66.8	4.3
Tutume	3,600	38.7	12.3	33.2	3.4
TOTAL	9,300	100.0	37.0	100.0	4.0
HECTARAGE PLANTED					
.1 - 1.0	800	8.6	.5	1.4	.6
1.1 - 2.0	1,850	19.9	2.9	7.8	1.6
2.1 - 3.0	2,150	23.1	5.6	15.1	2.6
3.1 - 4.0	1,350	14.5	4.7	12.7	3.5
4.1 - 5.0	900	9.7	4.1	11.1	4.6
5.1 - 6.0	850	9.1	4.6	12.4	5.4
6.1 - 7.0	450	4.9	3.1	8.4	6.9
7.1 +	950	10.2	11.5	31.1	12.1
TOTAL	9,300	100.0	37.0	100.0	4.0

1980 AGRICULTURAL STATISTICS



Total Area Planted: 37,000

FIGURE 4: Traditional Area Planted by Districts

TABLE 22: HARVESTED LAND Farms, Ratio of Farms Harvested to Crop Farms, Area Harvested, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms Harvested	Ratio of Farms Harvested to Crop Farms	Area Harvested	Ratio of Area Harvested to Planted	Area Harvested per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
DISTRICTS					
Tati	4,900	86.0	15.9	64.4	3.2
Tutume	3,500	97.2	10.2	82.9	2.9
TOTAL	8,400	90.3	26.1	70.5	3.1
HECTARAGE PLANTED					
.1 - 1.0	600	75.0	.2	40.6	.3
1.1 - 2.0	1,650	89.2	2.0	69.0	1.2
2.1 - 3.0	1,900	88.4	3.8	67.9	2.0
3.1 - 4.0	1,350	100.0	3.7	78.7	2.7
4.1 - 5.0	850	94.4	3.5	85.4	4.1
5.1 - 6.0	650	76.5	2.9	63.0	4.5
6.1 - 7.0	450	100.0	2.5	80.6	5.6
7.1 +	950	100.0	7.5	65.2	7.9
TOTAL	8,400	90.3	26.1	70.5	3.1

TABLE 23: SORGHUM PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Sorghum Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms Planted		Area Planted		Area Planted per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
DISTRICTS					
Tati	5,600	60.9	9.7	66.0	1.7
Tutume	3,600	39.1	5.0	34.0	1.4
TOTAL	9,200	100.0	14.7	100.0	1.6
HECTARAGE PLANTED					
.1 - 1.0	3,600	39.1	2.1	14.3	.6
1.1 - 2.0	3,400	37.0	4.8	32.7	1.4
2.1 - 3.0	1,050	11.4	2.5	17.0	2.4
3.1 - 4.0	850	9.2	2.9	19.7	3.4
4.1 +	300	3.3	2.4	16.3	8.0
TOTAL	9,200	100.0	14.7	100.0	1.6

TABLE 24: SORGHUM HARVESTED	Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Sorghum Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics						
	Farms Harvested		Ratio of Farms Harvested to Planted	Area Harvested		Ratio of Area Harvested to Planted	Area Harvested per Farm
	Number	Percentage	Percentage	Hectares (000)	Percentage	Percentage	Hectares
DISTRICTS							
Tati	4,700	58.7	83.9	8.7	65.4	89.7	1.9
Tutume	3,300	41.3	91.7	4.6	34.6	92.0	1.4
TOTAL	8,000	100.0	87.0	13.3	100.0	90.5	1.7
HECTARAGE PLANTED							
.1 - 1.0	2,800	35.0	77.8	1.7	12.8	81.0	.6
1.1 - 2.0	3,200	40.0	94.1	4.4	33.1	91.7	1.4
2.1 - 3.0	900	11.2	85.7	2.2	16.5	88.0	2.4
3.1 - 4.0	800	10.0	94.1	2.6	19.6	89.7	3.2
4.1 +	300	3.8	100.0	2.4	18.0	100.0	8.0
TOTAL	8,000	100.0	87.0	13.3	100.0	90.5	1.7

TABLE 25: SORGHUM PRODUCTION Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Sorghum Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Total Production		Production per Harvested Farm	Average Yield per Hectare
	Metric Tons	Percentage	Kilograms	Kilograms
DISTRICTS				
Tati	1,465	66.9	312	168
Tutume	725	33.1	220	158
TOTAL	2,190	100.0	274	165
HECTARAGE PLANTED				
.1 - 1.0	380	17.4	136	224
1.1 - 2.0	750	34.2	234	170
2.1 - 3.0	320	14.6	356	145
3.1 - 4.0	350	16.0	437	135
4.1 +	390	17.8	1,300	162
TOTAL	2,190	100.0	274	165

TABLE 26 : MAIZE PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Maize Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms Planted		Area Planted		Area Planted per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
DISTRICTS					
Tati	5,500	62.5	7.6	66.1	1.4
Tutume	3,300	37.5	3.9	33.9	1.2
TOTAL	8,800	100.0	11.5	100.0	1.3
HECTARAGE PLANTED					
.1 - 1.0	5,000	56.8	3.1	27.0	.6
1.1 - 2.0	2,400	27.3	3.4	29.6	1.4
2.1 - 3.0	900	10.2	2.2	19.1	2.4
3.1 +	500	5.7	2.8	24.3	5.6
TOTAL	8,800	100.0	11.5	100.0	1.3

TABLE 27: MAIZE PRODUCTION Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Maize Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Total Production		Production per Harvested Farm	Average Yield per Hectare
DISTRICTS	Metric Tons	Percentage	Kilograms	Kilograms
Tati	345	52.7	144	115
Tutume	310	47.3	148	119
TOTAL	655	100.0	146	117
HECTARAGE PLANTED				
.1 - 1.0	255	38.9	113	182
1.1 - 2.0	225	34.4	150	113
2.1 - 3.0	100	15.2	154	63
3.1 +	75	11.5	750	125
TOTAL	655	100.0	146	117

TABLE 28: MAIZE HARVESTED Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Maize Area Planted, Traditional Farms Francistown Region - 1980 Agricutural Statistics

	Farms Harvested		Ratio of Farms Harvested to Planted	Area Harvested		Ratio of Area Harvested to Planted	Area Harvested per Farm
	Number	Percentage	Percentage	Hectares (000)	Percentage	Percentage	Hectares
DISTRICTS							
Tati	2,400	53.3	43.6	3.0	53.6	39.5	1.3
Tutume	2,100	46.7	63.6	2.6	46.4	66.7	1.2
TOTAL	4,500	100.0	51.1	5.6	100.0	48.7	1.2
HECTARAGE PLANTED							
.1 - 1.0	2,250	50.0	45.0	1.4	25.0	45.2	.6
1.1 - 2.0	1,500	33.3	62.5	2.0	35.6	58.8	1.3
2.1 - 3.0	650	14.5	72.2	1.6	28.6	72.7	2.5
3.1 +	100	2.2	20.0	.6	10.7	21.4	6.0
TOTAL	4,500	100.0	51.1	5.6	100.0	48.7	1.2

TABLE 29 : MILLET PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Millet Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms Planted		Area Planted		Area Planted per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
DISTRICTS					
Tati	3,500	57.4	3.6	59.0	1.0
Tutume	2,600	42.6	2.5	41.0	1.0
TOTAL	6,100	100.0	6.1	100.0	1.0
HECTARAGE PLANTED					
.1 - 1.0	4,250	69.7	2.5	41.0	.6
1.1 - 2.0	1,350	22.1	1.9	31.1	1.4
2.1 - 3.0	350	5.7	.9	14.8	2.6
3.1 +	150	2.5	.8	13.1	5.3
TOTAL	6,100	100.0	6.1	100.0	1.0

TABLE 30 : MILLET HARVESTED Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Millet Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms Harvested		Ratio of Farms Harvested to Planted	Area Harvested		Ratio of Area Harvested to Planted	Area Harvested per Farm
	Number	Percentage	Percentage	Hectares (000)	Percentage	Percentage	Hectares
DISTRICTS							
Tati	2,600	52.0	74.3	2.6	54.2	72.2	1.0
Tutume	2,400	48.0	92.3	2.2	45.8	88.0	.9
TOTAL	5,000	100.0	82.0	4.8	100.0	78.7	1.0
HECTARAGE PLANTED							
.1 - 1.0	3,350	67.0	78.8	1.9	39.6	76.0	.6
1.1 - 2.0	1,300	26.0	96.3	1.9	39.6	100.0	1.5
2.1 - 3.0	300	6.0	85.7	.8	16.6	88.9	2.7
3.1 +	50	1.0	33.3	.2	4.2	25.0	4.0
TOTAL	5,000	100.0	82.0	4.8	100.0	78.7	1.0

TABLE 31: MILLET PRODUCTION Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Millet Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Total Production		Production per Harvested Farm	Average Yield per Hectare
DISTRICTS	Metric Tons	Percentage	Kilograms	Kilograms
Tati	420	48.3	162	162
Tutume	450	51.7	188	205
TOTAL	870	100.0	174	181
HECTARAGE PLANTED				
.1 - 1.0	410	47.1	122	216
1.1 - 2.0	365	42.0	281	192
2.1 - 3.0	85	9.8	283	106
3.1 +	10	1.1	200	50
TOTAL	870	100.0	174	181

TABLE 32: BEANS PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Bean Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms Planted		Area Planted		Area Planted Per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
DISTRICTS					
Tati	3,300	75.0	2.6	78.8	.8
Tutume	1,100	25.0	.7	21.2	.6
TOTAL	4,400	100.0	3.3	100.0	.8
HECTARAGE PLANTED					
.1 - 1.0	3,600	81.8	1.6	48.5	.4
1.1 - 2.0	500	11.4	.7	21.2	1.4
2.1 +	300	6.8	1.0	30.3	3.3
TOTAL	4,400	100.0	3.3	100.0	.8

TABLE 33: BEANS HARVESTED Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Bean Area Harvested Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms Harvested		Ratio of Farms Harvested to Planted	Area Harvested		Ratio of Area Harvested to Planted	Area Harvested per Farm
	Number	Percentage	Percentage	Hectares (000)	Percentage	Percentage	Hectares
DISTRICTS							
Tati	1,300	61.9	39.4	1.1	64.7	42.3	.8
Tutume	800	38.1	72.7	.6	35.3	85.7	.8
TOTAL	2,100	100.0	47.7	1.7	100.0	51.5	.8
HECTARAGE PLANTED							
.1 - 1.0	1,600	76.2	44.4	.7	41.2	43.8	.4
1.1 - 2.0	300	14.3	60.0	.5	29.4	71.4	1.7
2.1 +	200	9.5	66.7	.5	29.4	50.0	2.5
TOTAL	2,100	100.0	47.7	1.7	100.0	51.5	.8

TABLE 34: BEAN PRODUCTION Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Bean Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Total Production		Production per Harvested Farm	Average Yield per Hectare
DISTRICTS	Metric Tons	Percentage	Kilograms	Kilograms
Tati	130	60.5	100	118
Tutume	85	39.5	106	142
TOTAL	215	100.0	102	126
HECTARAGE PLANTED				
.1 - 1.0	90	41.9	56	129
1.1 - 2.0	45	20.9	150	90
2.1 +	80	37.2	400	160
TOTAL	215	100.0	102	126

TABLE 35: FOUR CROPS PLANTED (Sorghum, Maize, Millet, Beans) Farms, Area and Area Planted per Farm by Districts and Size of Four Crop Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms Planted		Area Planted		Area Planted per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
DISTRICTS					
Tati	5,700	61.3	23.5	66.0	4.1
Tutume	3,600	38.7	12.1	34.0	3.4
TOTAL	9,300	100.0	35.6	100.0	3.8
HECTARAGE PLANTED					
.1 - 1.0	800	8.6	.5	1.4	.6
1.1 - 2.0	2,250	24.2	3.6	10.0	1.6
2.1 - 3.0	1,950	21.0	5.3	14.9	2.7
3.1 - 4.0	1,250	13.4	4.2	11.8	3.4
4.1 - 5.0	850	9.1	3.7	10.4	4.4
5.1 - 6.0	850	9.1	4.6	12.9	5.4
6.1 - 7.0	500	5.4	3.4	9.6	6.8
7.0 +	850	9.2	10.3	28.9	12.1
TOTAL	9,300	100.0	35.6	100.0	3.8

TABLE 36: FOUR CROPS HARVESTED (Sorghum, Maize, Millet, Beans) Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Four Crop Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Farms Harvested		Ratio of Farms Harvested to Planted	Area Harvested		Ratio of Area Harvested to Planted	Area Harvested per Farm
	Number	Percentage	Percentage	Hectares (000)	Percentage	Percentage	Hectares
DISTRICTS							
Tati	4,800	57.8	84.2	15.4	60.6	65.5	3.2
Tutume	3,500	42.2	97.2	10.0	39.4	82.6	2.9
TOTAL	8,300	100.0	89.2	25.4	100.0	71.3	3.1
HECTARAGE PLANTED							
.1 - 1.0	500	6.0	62.5	.2	.8	40.0	.4
1.1 - 2.0	1,950	23.5	86.7	2.3	9.0	63.9	1.2
2.1 - 3.0	1,800	21.7	92.3	3.7	14.6	69.8	2.1
3.1 - 4.0	1,150	13.9	92.0	3.2	12.6	76.2	2.8
4.1 - 5.0	850	10.2	100.0	3.3	13.0	89.2	3.9
5.1 - 6.0	700	8.4	82.4	3.2	12.6	69.6	4.6
6.1 - 7.0	500	6.0	100.0	2.9	11.4	85.3	5.8
7.1 +	850	10.3	100.0	6.6	26.0	64.1	7.8
TOTAL	8,300	100.0	89.2	25.4	100.0	71.3	3.1

TABLE 37: FOUR CROPS PRODUCTION (Sorghum, Maize, Millet, Beans), Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Four Crop Area Planted, Traditional Farms Francistown Region - 1980 Agricultural Statistics

	Total Production		Production per Harvested Farm	Average Yield per Hectare
DISTRICTS	Metric Tons	Percentage	Kilograms	Kilograms
Tati	2,360	60.1	492	153
Tutume	1,570	39.9	449	157
TOTAL	3,930	100.0	473	155
HECTARAGE PLANTED				
.1 - 1.0	45	1.1	90	225
1.1 - 2.0	435	11.1	223	189
2.1 - 3.0	635	16.2	353	172
3.1 - 4.0	500	12.7	435	136
4.1 - 5.0	480	12.2	565	156
5.1 - 6.0	355	9.0	507	111
6.1 - 7.0	415	10.6	830	143
7.1 +	1,065	27.1	1,250	161
TOTAL	3,930	100.0	473	155

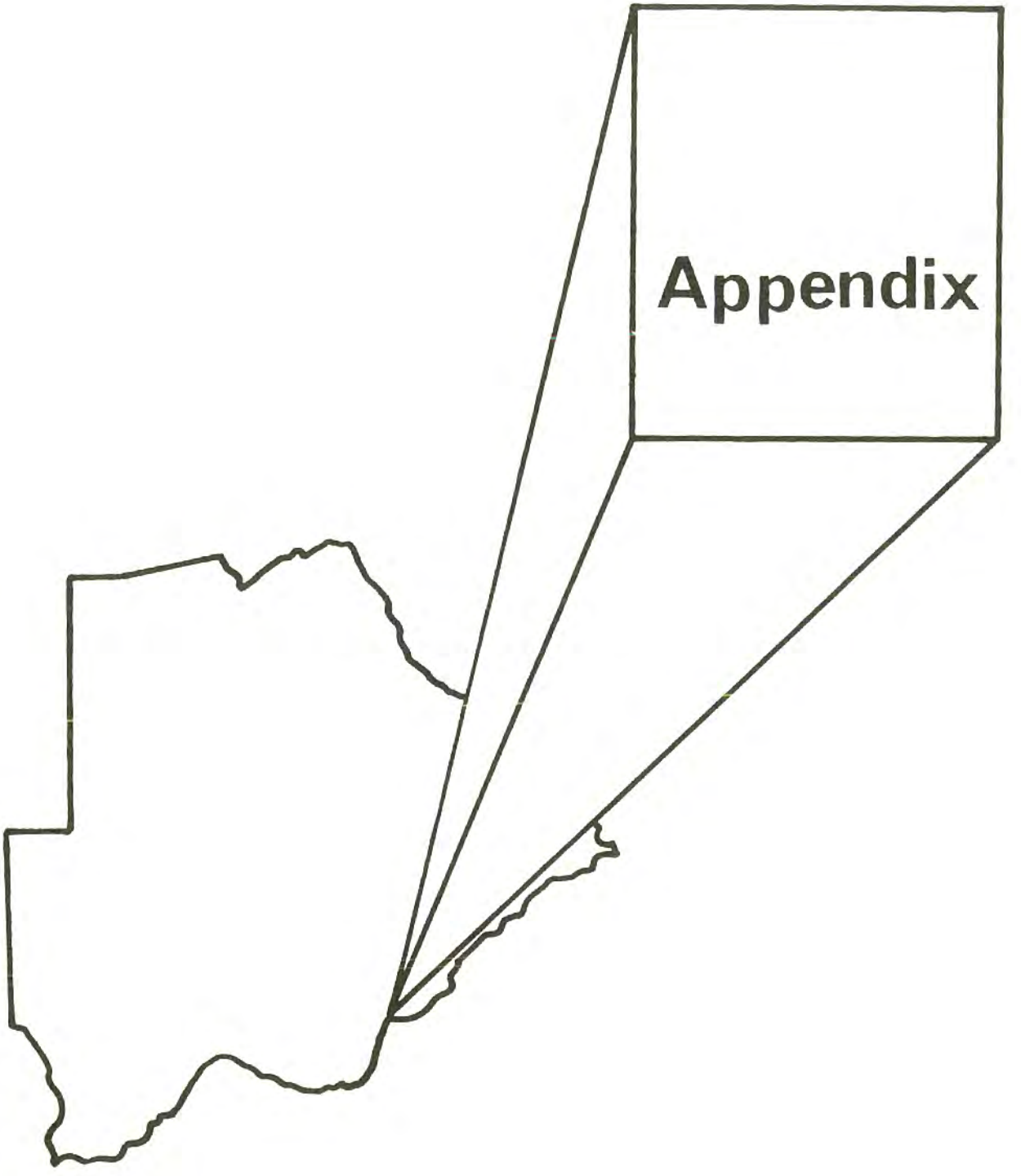

Appendix

TABLE A : APPENDIX I Farms, Sex of Holder, Total Land and Area Planted by Size of Cattle Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

Cattle Size	Farms		Sex of Holder		Total Land		Area Planted Four Crops	
			Male	Female				
	Number	Percentage	- Percentage -		Hectares (000)	Percentage	Hectares (000)	Percentage
0	2,000	18.7	40.8	59.2	5.3	12.0	4.2	11.8
1 - 10	2,600	24.3	65.8	34.2	8.7	19.7	7.7	21.6
11 - 20	2,100	19.6	76.4	23.6	9.6	21.7	6.9	19.4
21 - 30	1,100	10.3	86.0	14.0	5.6	12.7	4.7	13.2
31 - 40	600	5.6	81.4	18.6	1.8	4.1	1.2	3.4
41 - 50	150	1.4	100.0	-	.5	1.1	.2	.6
51 - 60	700	6.5	56.3	43.7	3.2	7.2	2.9	8.1
61 - 100	800	7.5	63.8	36.2	5.0	11.3	4.4	12.4
101 +	650	6.1	92.1	7.9	4.5	10.2	3.4	9.5
TOTAL TRADITIONAL	10,700	100.0	67.3	32.7	44.2	100.0	35.6	100.0

TABLE B : APPENDIX I Area Harvested, Total Production, Production per Farm and Average Yield by Size of Cattle Holding, Traditional Farms Francistown Region - 1980 Agricultural Statistics

Cattle Size	Area Harvested Four Crops		Total Production Four Crops		Production per Farm	Average Yield per Hectare
	Hectares (000)	Percentage	Metric Tons	Percentage	Kilograms	Kilograms
0	2.8	11.0	360	9.2	180	129
1 - 10	5.8	22.8	730	18.6	281	126
11 - 20	4.5	17.7	650	16.5	310	144
21 - 30	3.5	13.8	475	12.1	432	136
31 - 40	1.0	3.9	320	8.1	533	320
41 - 50	.1	.4	20	.5	133	200
51 - 60	2.4	9.5	280	7.1	400	117
61 - 100	3.0	11.8	805	20.5	1,006	268
101 +	2.3	9.1	290	7.4	446	126
TOTAL TRADITIONAL	25.4	100.0	3,930	100.0	367	155

TABLE A : APPENDIX II Farms, Sex of Holder, Total Land and Area Planted by Size of Total Production, Traditional Farms Francistown Region - 1980 Agricultural Statistics

Total Production Four Crops	Farms		Sex of Holder		Total Land		Area Planted Four Crops	
			Male	Female				
	Number	Percentage	- Percentage -		Hectares (000)	Percentage	Hectares (000)	Percentage
0	2,400	22.4	72.9	27.1	4.4	9.9	2.3	6.5
1 - 250	3,700	34.6	63.7	36.3	11.8	26.7	9.6	27.0
251 - 500	2,400	22.4	66.8	33.2	10.2	23.1	9.0	25.3
501 - 750	750	7.0	55.0	45.0	4.1	9.3	3.6	10.1
751 - 1,000	600	5.6	49.6	50.4	5.6	12.7	4.5	12.6
1,001 - 1,500	300	2.8	100.0	-	2.0	4.5	1.9	5.3
1,501 - 2,000	300	2.8	100.0	-	2.0	4.5	1.8	5.1
2,001	250	2.4	68.5	31.5	4.1	9.3	2.9	8.1
TOTAL TRADITIONAL	10,700	100.0	67.3	32.7	44.2	100.0	35.6	100.0

TABLE B : APPENDIX II Area Harvested, Total Production, Production per Farm and Average Yield per Farm, by Size of Total Production, Traditional Farms Francistown Region - 1980 Agricultural Statistics

Total Production Four Crops		Area Harvested Four Crops		Total Production Four Crops		Production per Farm	Average Yield per Hectare
Kilograms		Hectares (000)	Percentage	Metric Tons	Percentage	Kilograms	Kilograms
0		-	-	-	-	-	-
1	- 250	6.5	25.6	520	13.2	141	80
251	- 500	7.8	30.7	930	23.7	388	119
501	- 750	2.9	11.4	450	11.4	600	155
751	- 1,000	3.3	13.0	490	12.5	817	148
1,001	- 1,500	1.4	5.5	345	8.8	1,150	246
1,501	- 2,000	1.7	6.7	520	13.2	1,733	306
2,001	+	1.8	7.1	675	17.2	2,700	375
TOTAL TRADITIONAL		25.4	100.0	3,930	100.0	367	155

TABLE A : APPENDIX III Farms, Sex of Holder, Total Land and Area Planted by Size of Average Yield per Hectare, Traditional Farms Francistown Region - 1980 Agricultural Statistics

Average Yield Four Crops	Farms		Sex of Holder		Total Land		Area Planted Four Crops	
			Male	Female				
Kilograms/Hectare	Number	Percentage	- Percentage -		Hectares (000)	Percentage	Hectares (000)	Percentage
0	2,400	22.4	72.9	27.1	4.4	10.0	2.3	6.4
1 - 50	1,400	13.1	74.1	25.9	6.8	15.4	5.9	16.6
51 - 100	1,700	15.9	67.6	32.4	12.0	27.2	9.8	27.5
101 - 150	1,600	15.0	37.9	62.1	5.9	13.3	5.5	15.4
151 - 200	1,400	13.1	71.0	29.0	5.9	13.3	4.4	12.4
201 - 300	1,100	10.3	78.9	21.1	5.3	12.0	4.4	12.4
301 - 500	850	7.9	77.0	23.0	3.2	7.2	2.6	7.3
501 +	250	2.3	52.7	47.3	.7	1.6	.7	2.0
TOTAL TRADITIONAL	10,700	100.0	67.3	32.7	44.2	100.0	35.6	100.0

TABLE B : APPENDIX III Harvested Area, Total Production, Production per Farm and Average Yield per Hectare by Size of Average Yield per Hectare, Traditional Farms Francistown Region - 1980 Agricultural Statistics

Average Yield Four Crops	Harvested Area Four Crops		Total Production		Production per Farm	Average Yield per Hectare
	Hectares (000)	Percentage	Metric Tons	Percentage	Kilograms	Kilograms
0	-	-	-	-	-	-
1 - 50	4.4	17.3	175	4.4	125	40
51 - 100	6.5	25.6	510	13.0	300	78
101 - 150	4.7	18.5	585	14.9	366	124
151 - 200	3.8	15.0	635	16.1	454	167
201 - 300	3.5	13.8	875	22.3	795	250
301 - 500	1.9	7.5	790	20.1	929	416
501 +	.6	2.3	360	9.2	1,440	600
TOTAL TRADITIONAL	25.4	100.0	3,930	100.0	367	155

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