

2011 ANNUAL AGRICULTURAL SURVEY PRELIMINARY RESULTS

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2011 ANNUAL AGRICULTURAL SURVEYS PRELIMINARY RESULTS

This Stats Brief highlights preliminary results of the 2011 Annual Agricultural Survey. The results must therefore be treated as provisional pending the release of the main report in July, 2013.

The survey results indicate that males have steadily increased their dominance in the agricultural sector from 54.9 percent in 2010 to 56.7 percent in 2011. There is further indication that the majority of cattle (74.8 percent) and sheep (72.2 percent) were owned by males. The gender disparity in livestock ownership in respect of goats accounted for 67.5 percent for males against 32.5 percent recorded for females.

The survey results also indicate that traditional sector was still predominant in the livestock industry. However, the performance of the sector was poor compared to the commercial sector. The mortality rates for cattle, sheep and goats in the year under review, went up, whilst the cattle population decreased from 2.63 million to 2.55 million and goats from 1.9 million to 1.8 million. Only the population of sheep increased, from 279,237 in 2010 to 295,894 realised in 2011.

Under the crop sector, in 2011 more area was planted with assistance from the Integrated Support Programme for Arable Agricultural Development (ISPAAD) which government introduced in 2008. Production has since increased remarkably, particularly for maize. However, crop yields (production per hectare) under the traditional sector remained low and stagnant compared to the commercial sector, except for beans/pulses which recorded a steady rise.



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A. N. Majelantle
Statistician General
25th June, 2013

1.0 ANALYSIS OF PRELIMINARY RESULTS

1.1 Agricultural Holders (Farmers)

This Stats Brief highlights preliminary results of the 2011 Annual Agricultural Survey. Unless otherwise stated, the discussions are based mostly on the traditional sector due to its dominance over the local agricultural sector.

The results of the survey indicate that during the 2011 agricultural season, the number of active farmers increased by 2.3 percent from a total of 122,875 realised in 2010 to 125,735 recorded in 2011 (Table 1 & 3). This increase is attributable to the traditional sector where the number of farmers rose by 2.8 percent from 121,604 in 2010 to 125,017 in 2011, while the commercial sector experienced a contraction from 1,217 to 718 farmers, in the same period.

Male farmers seemed to still dominate the agricultural sector and steadily increased their share from 54.9 to 56.7 percent between 2010 and 2011 (Table 3). However, the percentage of farm workers in the traditional sector during the same period dropped from 20.6 percent to 19.3 percent, despite an increase in the average farm wage from P547 in 2010 to P663 in 2011 compared to the Government approved minimum farm wage of P408 in 2010 and P445 in 2011.

2.0 LIVESTOCK STATISTICS

Livestock statistics traditionally cover cattle, goats, sheep, donkeys/mules, horses, pigs, ostriches, chicken and others, but this summary focuses only on the three major ones in Botswana, being cattle, sheep and goats.

According to the 2011 survey results, livestock ownership and pastoral farming in its various forms are heavily skewed towards male-owned holdings as opposed to the female-owned ones. For instance, 66.9 percent, 61.5 percent and 64.8 percent of cattle, goats and sheep holdings respectively, were male-owned in 2011.

2.1 Cattle Holdings, Population and Production Indicators

The cattle industry is still dominated by the traditional sector. During the period under review, the number of cattle holdings nation-wide dropped from 76,925 recorded in 2010 to 75,323 in 2011. The mortality rate increased from 5.6 percent to 6.0 percent, leading to the decrease in cattle population from 2.63 million to 2.55 million between 2010 and 2011.

The performance of the livestock sub-sector between the traditional and commercial sectors is still in sharp contrast. For example, when the rate of mortality dropped from 3.2 to 1.6 percent in the commercial sector between 2010 and 2011, the traditional sector on the other hand registered an increase from 6.0 percent to 6.6 percent (Table 1). Off-take rates in the commercial sector rose steadily, from 12.5 percent in 2010 to 13.5 percent in 2011 in contrast to the national rate which dropped from 8.0 percent to 6.9 percent during the same period (Tables 1, 9A and 9B). Sales decreased by 10.7 percent from 245,159 to 218,898 between the 2010 and 2011 agricultural seasons (Table 1).

The birth rate for the whole cattle industry increased marginally from 52.4 percent in 2010 to 52.6 percent in 2011. Notably, the traditional sector consistently had higher cattle birth rates than the commercial sector, but this achievement is compromised by the high mortality rates mentioned above.

Figure 2.1a Cattle Population Trend: 2001 to 2011

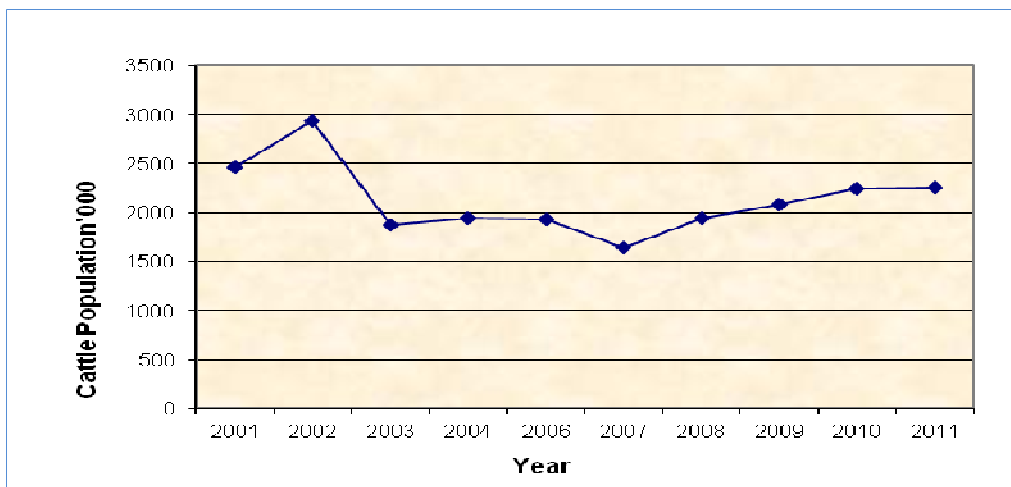


Figure 2.1b Cattle Production Indicators Trends: 2001 – 2011

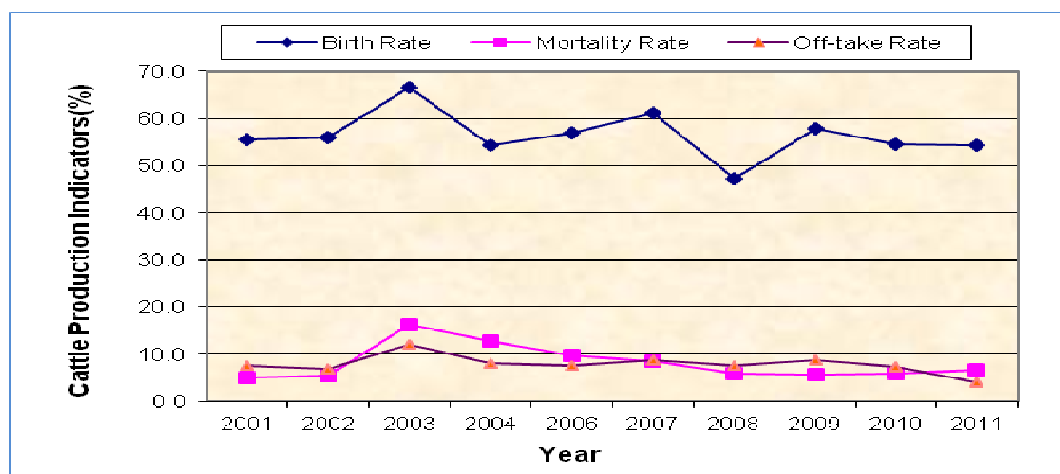


Figure 2.1a show that there has been an upward trend in the cattle population since 2007 while Figure 2.1 (b) indicates that the birth rate has been oscillating between 50.0 and 60.0 percent except in 2003 when it was above the range and 2008 when it was the lowest. Both the off-take and mortality rates remained below 10.0 percent except in 2003 and 2004 (Figure 2.1 b).

2.2 Goats Holdings, Population and Production Indicators

Nationally, goats' holdings decreased from 84,203 in 2010 to 83,295 in 2011. The population of goats also went down from 1.9 million to 1.8 million during the same period. The vast majority of goats are in the traditional sector (Table 1 & 5).

Birth rates at the national level have remained almost stagnant between 2010 (41.6%) and 2011(41.5%). The same trend was realised with the off-take rates, which increased marginally from 5.7 percent to 5.8 percent (Table 1). However, the death rates increased significantly, from 18.6 percent in 2010 to 24.1 percent in 2011.

Figure 2.2a: Goats Population Trend: 2001 - 2011

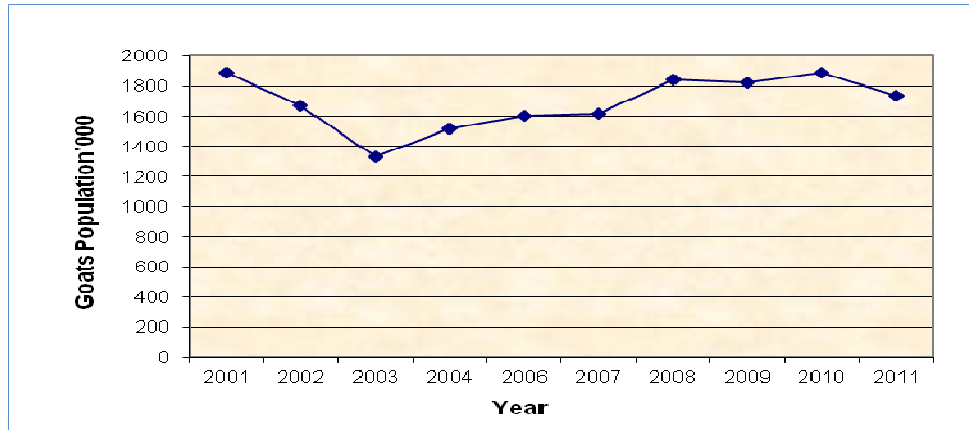
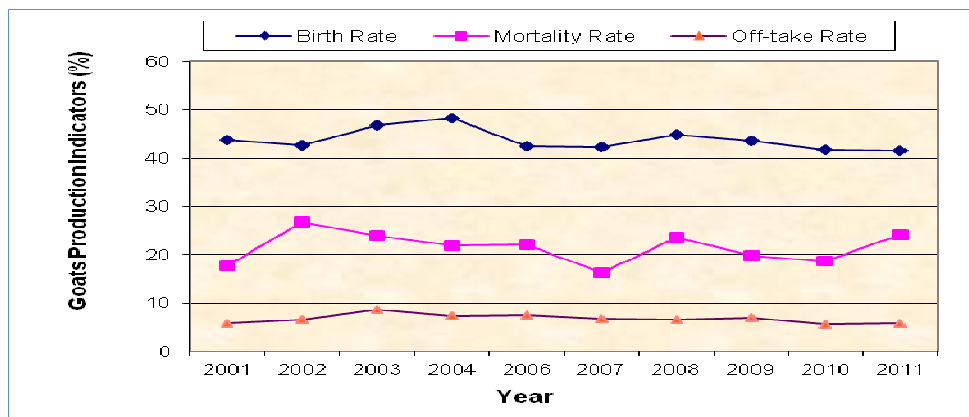


Figure 2.2b: Goats Production Indicators Trend: 2001 – 2011



Figures 2.2a and 2.2b illustrate the trend in the population and production indicators of goats within the traditional sector. The population of goats steadily increased from 1.5 million in 2004 to 1.9 million in 2010 before dropping to 1.7 million in 2011. The birth rate of goats has been on a steady decline since 2008 from 45.0 percent to 41.0 percent in 2011. The mortality rate ranged between 19.0 and 26.0 percent, with the lowest rates recorded in 2001, 2007 and 2010. Off-take rates remained constantly below 10.0 percent.

2.3 Sheep Holdings, Population and Production Indicators

The majority of sheep holdings are also in the traditional sector as evidenced by the survey results. Between the 2010 and 2011 agricultural seasons, the number of sheep holdings in the entire sector increased from 18,486 to 20,340. The size of the sheep population also increased, from 279,237 to 295,894. While the number of sheep holdings and population size expanded in the traditional sector, the same could not be said about the commercial sector, which recorded a decrease (Tables 1 & 6).

While birth rates increased marginally from 32.6 percent to 32.8 percent between 2010 and 2011, mortality rates rose significantly from 12.9 percent to 16.4 percent (Table 1). Off-take rate increased, from 5.1 percent to 5.9 percent, in the period under review.

Figure 2.3a: Sheep Population Trend (000): 2001 - 2011

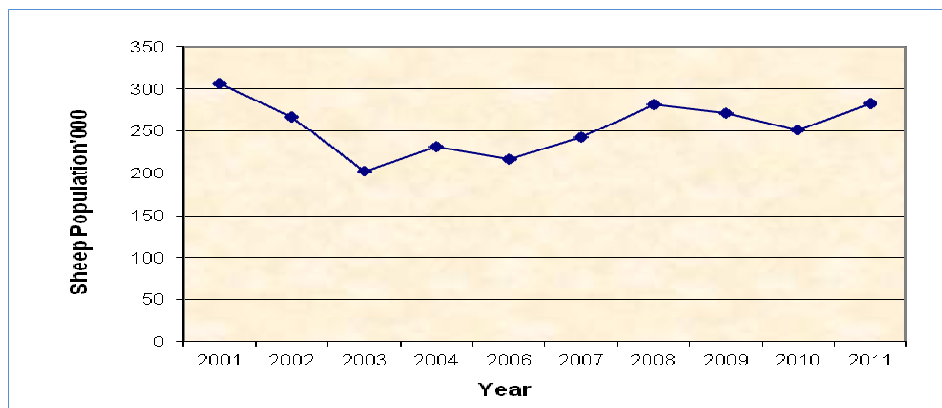
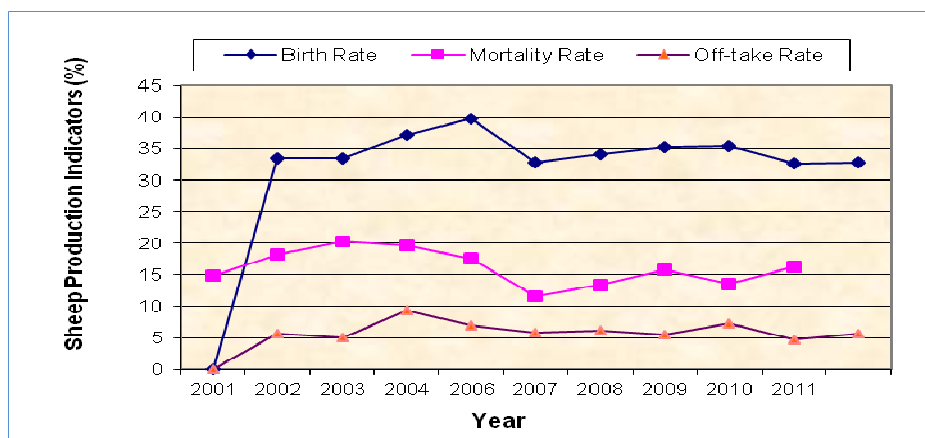


Figure 2.3b: Sheep Production Indicators Trends: 2001 - 2011



The trend in the sheep population and production indicators (traditional sector) is shown in Figure 2.3a and Figure 2.3b above.

3.0 CROP STATISTICS

This section gives a summary of crop statistics for 2010 and 2011 cropping seasons. Crops covered include sorghum, maize, millet, beans/pulses, sunflower, groundnuts and others. The discussion, however, focuses on the four major crops namely sorghum, maize, millet and beans/pulses. The percentages quoted in the write up are not part of the reference tables.

3.1 Total Holdings, Total Area Planted and Harvested

Total land holdings and land area, total crop holdings, total area planted and total area harvested for 2009, 2010 and 2011 agricultural seasons are presented in Table 2.

The number of farmers with land for planting (land holdings) showed a significant increase of 5.4 percent from 76,267 in 2010 to 80,415 in 2011. Area planted also increased significantly, by 18.7 percent between 2010 (243,587 ha) and 2011 (289,278 ha). Similarly area harvested expanded, by 24.0 percent from 161,767 ha in 2010 to 200,672 ha in 2011.

Figure 3.1a: Land Holdings, Holdings Planted and Harvested Trends: 2001 - 2011

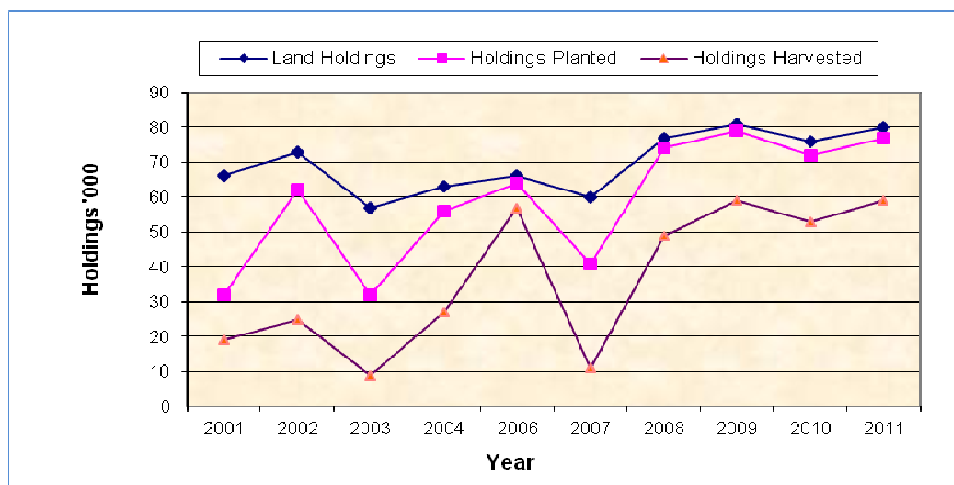
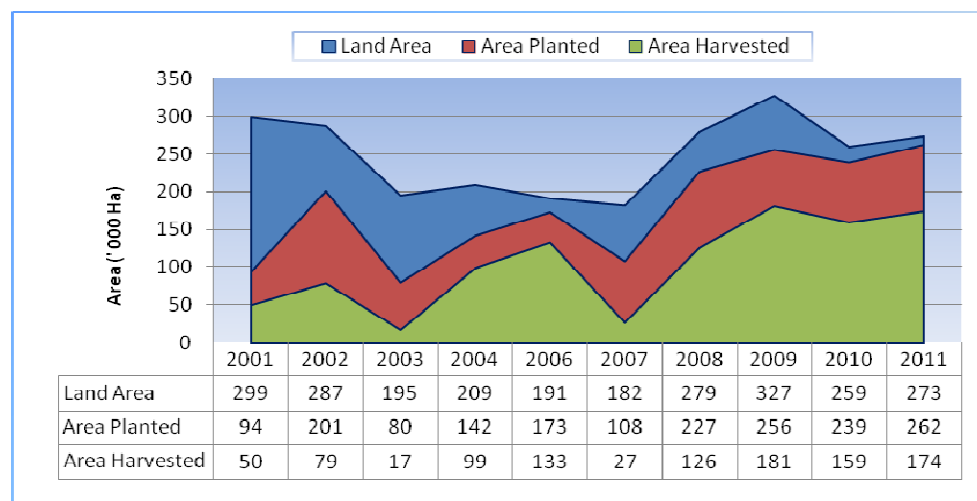


Figure 3.1b: Land Area, Area Planted and Harvested Trends: 2001 – 2011



Trends of land holdings, holdings planted and holdings harvested are presented above in Figure 3.1a, while land area, area planted and harvested trends are presented in Figure 3.1b (Traditional sector).

3.2 Crops Planted and Harvested

Maize, sorghum, millet and beans/pulses are the major crops in terms of area planted. Maize is the predominant crop under the traditional sector with the total area planted increasing from 109,792 ha in 2010 to 151,164 ha in 2011 as compared to sorghum where the total area planted increased from 61,089 to 63,720 ha during the same period. On the other hand, sorghum is more popular than maize in the commercial sector. In 2010 a total area of 15,525 ha was planted under sorghum compared to 139 ha of maize (Table 2). Even though the total area planted for sorghum decreased to 6,489 ha in 2011, the total area planted under maize still lagged behind at 325 ha.

The crop yield in the commercial sector is far superior to that in the traditional sector. In 2010 the yield for sorghum in the commercial sector was 1,620kg/ha and rose to 4,100 kg/ha in 2011, while in the traditional sector it hovered around 100 kg/ha for the same period. Likewise, for maize the commercial sector achieved a high yield of 43,400 kg/ha in 2010 compared to 100 kg/ha in the traditional sector. The maize yield in the commercial sector dropped to 19,200 kg/ha in 2011 and the traditional sector registered 190 kg/ha.

3.2a Sorghum

The total number of farmers who planted sorghum, slightly increased by 2.1 percent from 42,608 realised in 2010 to 43,489 in 2011. However, the total area planted under sorghum declined by 8.4 percent from 76,614 hectares to 70,209 hectares. In the traditional sector alone, the trend for total area planted is different, showing an increase of 4.0 percent from 61,089 ha to 63,720 ha. Between the 2010 and 2011 agricultural seasons, the total area harvested declined, with the commercial sector showing a more pronounced decrease (Table 2).

Sorghum production showed an upward trend from 2009 – 2011 at national level; increasing from 29,379 metric tons in 2009 to 31,326 metric tons in 2010 and further to 32,591 in 2011. A large proportion of the production came from the commercial sector, in particular the Pandamatenga commercial farms.

Figure 3.2a: Sorghum: Area planted, Area Harvested and Production Trends: 2001 - 2011

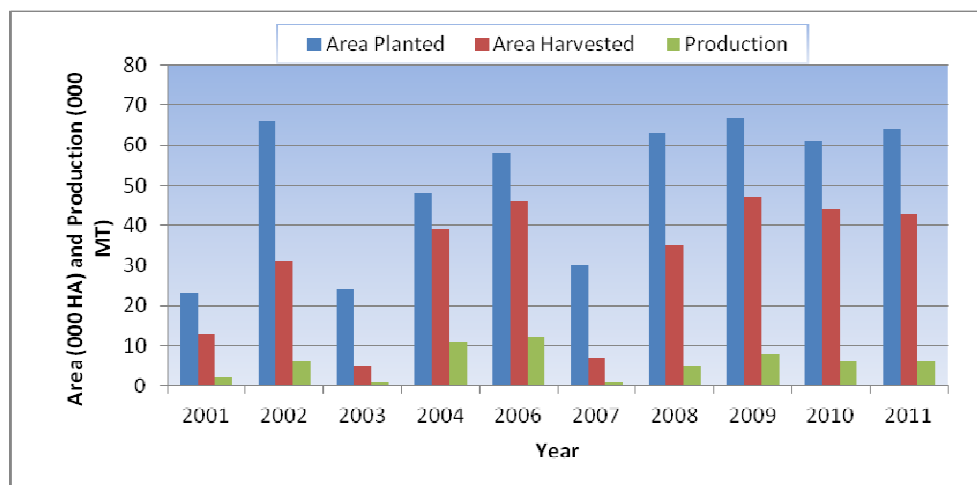


Figure 3.2a above is a graphical presentation of area planted, harvested and production trends in the traditional sector.

3.2b Maize

The number of farmers who planted maize increased by 7.8 percent, from 68,880 in 2010 to 74,261 realised in 2011. During the same period, the area planted expanded substantially, by 37.8 percent from 109,931 to 151,489 hectares at national level. This could be attributed to the prevailing preference amongst farmers to plant more maize than sorghum because maize is not vulnerable to problem birds such as quelea.

Area harvested also increased vastly, by 55.5 percent from 65,238 hectares to 101,425 hectares, coupled with a sharp rise in production of 113.1 percent, particularly under the traditional sector, from 16,575 metric tons in 2010 to 35,322 metric tons in 2011 (Table 2).

Figure 3.2b: Maize: Area Planted, Area Harvested and Production Trends: 2001 - 2011

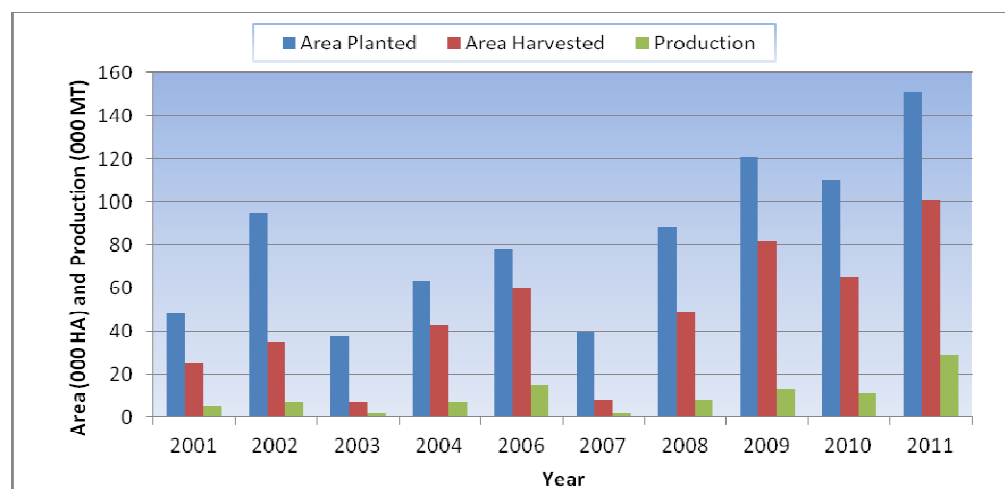


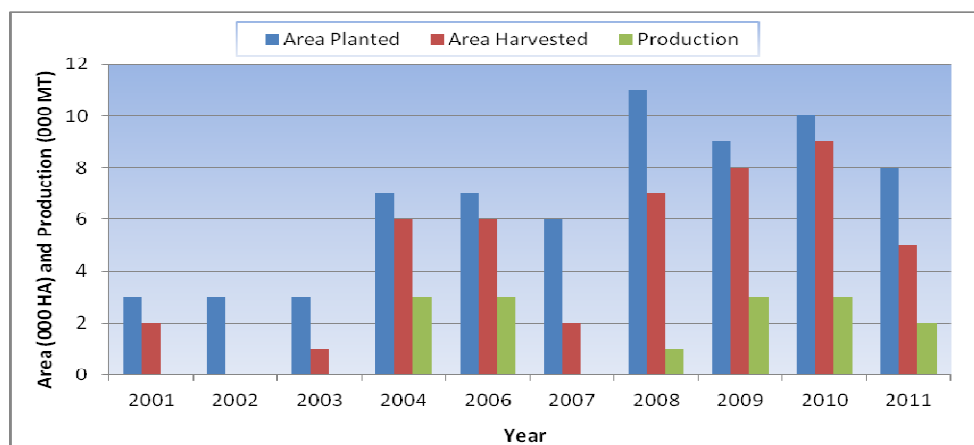
Figure 3.2b above illustrates trends in area planted, area harvested and production of maize under the traditional sector.

3.2c Millet

The total number of farmers who planted millet decreased by 9.2 percent from 18,191 in 2010 to 16,511 in 2011 at national level. That notwithstanding, the area planted increased by 22.7 percent from 10,842 hectares in 2010 to 13,302 hectares in 2011. Area harvested increased by 13.1 percent from 9,486 hectares in 2010 to 10,729 hectares in 2011 at the national level (Table 2).

Total production dropped by 25.4 percent from 3,368 to 2,511 metric tons, and the national yield also decreased, from 311 kg/ha in 2010 to 189 kg/ha in (Table 2).

Figure 3.2c Millet: Area Planted, Area Harvested and Production: 2001 - 2011



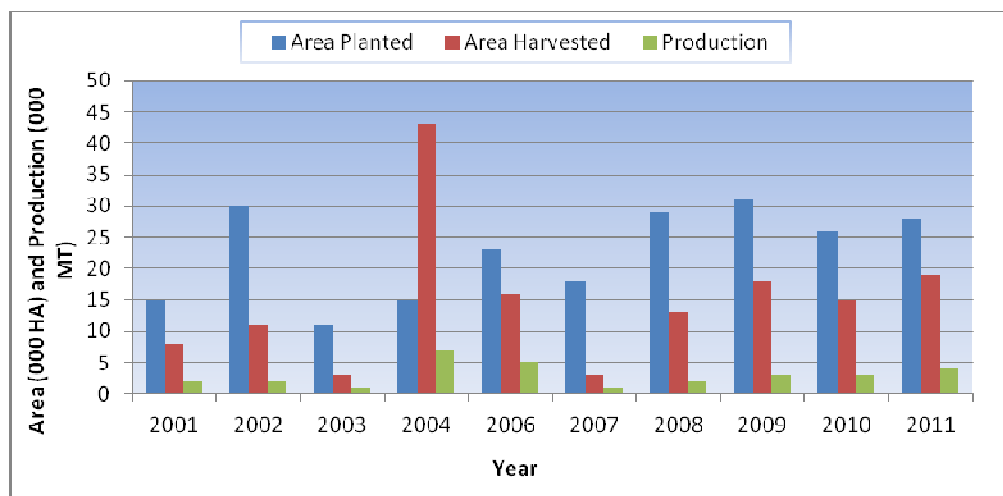
NB: For the years 2001 – 2003 and 2007, figures for area harvested and production are too small to be rounded to a thousand.

Figure 3.2c above gives an illustration of area planted, area harvested and total production trends for millet in the traditional sector.

3.2d Beans/Pulses

The number of farmers who planted beans/pulses increased by 7.1 percent from, 62,519 recorded in 2010 to 66,987 realised in 2011. Similarly, area planted and harvested went up by 4.6 and 20.6 percent respectively during the same period (Table 2). Pulses production rose by 29.9 percent from 3,617 metric tonnes in 2010 to 4,700 metric tonnes in 2011. The yield improved from 128 kg/ha in 2010 to 159 kg/ha in 2011 at national level (Table 2).

Figure 3.2d: Pulses: Area Planted, Area Harvested and Production Trends: 2001 - 2011



A graphical presentation of area planted, area harvested and production trends for pulses is given as Figure 3.2d for the traditional sector only.

TABLE 1: SUMMARY OF TRADITIONAL AND COMMERCIAL SECTORS LIVESTOCK STATISTICS

INDICATORS	2009			2010			2011		
	TRADITIONAL	COMMERCIAL	TOTALS	TRADITIONAL	COMMERCIAL	TOTALS	TRADITIONAL	COMMERCIAL	TOTALS
TOTAL HOLDINGS	130,022	963	130,985	121,604	1,271	122,875	125,017	718	125,735
CATTLE:- TOTAL HOLDINGS	76,370	879	77,249	75,867	1,058	76,925	74,664	659	75,323
TOTAL CATTLE	2,086,581	326,054	2,412,635	2,249,364	385,319	2,634,683	2,260,262	294,102	2,554,364
TOTAL COWS	933,191	148,862	1,082,053	1,011,728	185,691	1,197,419	1,004,088	133,402	1,137,490
TOTAL BIRTHS	538,954	65,750	604,704	552,054	75,970	628,024	546,697	51,856	598,553
TOTAL DEATHS	121,631	11,021	132,652	134,298	12,340	146,638	148,119	4,599	152,718
TOTAL SALES	171,682	46,666	218,348	160,652	84,507	245,159	131,850	87,048	218,898
TOTAL HOME SLAUGHTER	27,645	1,041	28,686	24,500	1,258	25,758	22,083	796	22,879
TOTAL PURCHASES	16,596	12,245	28,841	21,747	37,414	59,161	18,404	48,069	66,473
OFFTAKE	182,731	35,462	218,193	163,405	48,351	211,756	135,529	39,775	175,304
OFFTAKE RATE	8.8	10.9	9.0	7.3	12.5	8.0	6.0	13.5	6.9
BIRTH RATE	57.8	44.2	55.9	54.6	40.9	52.4	54.4	38.9	52.6
DEATH RATE	5.8	3.4	5.5	6.0	3.2	5.6	6.6	1.6	6.0
GOATS:- TOTAL HOLDINGS	86,926	554	87,480	83,548	655	84,203	82,854	441	83,295
TOTAL GOATS	1,824,346	42,284	1,866,630	1,888,748	49,183	1,937,931	1,736,011	33,800	1,769,811
TOTAL BIRTHS	794,361	15,905	810,266	788,074	18,037	806,111	720,481	13,353	733,834
TOTAL DEATHS	361,316	5,568	366,884	352,334	7,394	359,728	418,510	7,130	425,640
TOTAL SALES	74,811	2,567	77,378	53,739	4,041	57,780	47,121	2,497	49,618
TOTAL HOME SLAUGHTER	79,111	2,013	81,124	66,073	2,343	68,416	62,060	1,810	63,870
TOTAL PURCHASES	28,268	568	28,836	14,628	1,551	16,179	10,706	639	11,345
OFFTAKE	125,654	4,012	129,666	105,184	4,833	110,017	98,475	3,668	102,143
OFFTAKE RATE	6.9	9.5	6.9	5.6	9.8	5.7	5.7	10.9	5.8
BIRTH RATE	43.5	37.6	43.4	41.7	36.7	41.6	41.5	39.5	41.5
DEATH RATE	19.8	13.2	19.7	18.7	15.0	18.6	24.1	21.1	24.1
SHEEP:- TOTAL HOLDINGS	20,309	327	20,636	18,109	377	18,486	20,089	251	20,340
TOTAL SHEEP	272,489	20,906	293,395	252,057	27,180	279,237	283,075	12,819	295,894
TOTAL BIRTHS	96,456	6,673	103,129	82,311	8,650	90,961	92,830	4,281	97,111
TOTAL DEATHS	43,102	2,610	45,712	34,338	1,777	36,115	46,203	2,301	48,504
TOTAL SALES	13,044	1,253	14,297	8,435	1,532	9,967	9,211	896	10,107
TOTAL HOME SLAUGHTER	8,802	1,240	10,042	7,331	1,408	8,739	8,904	632	9,536
TOTAL PURCHASES	1,976	1,275	3,251	3,851	603	4,454	1,851	248	2,099
OFFTAKE	19,870	1,218	21,088	11,915	2,337	14,252	16,264	1,280	17,544
OFFTAKE RATE	7.3	5.8	7.2	4.7	8.6	5.1	5.7	10.0	5.9
BIRTH RATE	35.4	31.9	35.2	32.7	31.8	32.6	32.8	33.4	32.8
DEATH RATE	15.8	12.5	15.6	13.6	6.5	12.9	16.3	17.9	16.4
OTHER LIVESTOCK:- TOTAL DONKEYS/MULES HOLDINGS	54,182	515	54,697	51,875	587	52,462	53,883	365	54,248
TOTAL DONKEYS/MULES	356,146	3,874	360,020	334,388	4,125	338,513	348,880	2,541	351,421
TOTAL HORSE HOLDINGS	9,711	578	10,289	11,157	674	11,831	10,448	443	10,891
TOTAL HORSES	36,488	5,720	42,208	34,619	6,546	41,165	36,273	4,163	40,436
TOTAL PIG HOLDINGS	1,283	16	1,299	345	29	374	655	25	680
TOTAL PIGS	9,717	260	9,977	2,132	576	2,708	4,135	730	4,865
TOTAL OSTRICH HOLDINGS	-	20	20	-	33	33	-	16	16
TOTAL OSTRICHES	-	346	346	-	2,033	2,033	-	395	395
TOTAL CHICKEN HOLDINGS	100,882	471	101,353	94,151	539	94,690	98,249	344	98,593
TOTAL CHICKENS	1,379,912	359,521	1,739,433	1,196,425	564,273	1,760,698	1,341,230	157,272	1,498,502

TABLE 2: SUMMARY OF TRADITIONAL AND COMMERCIAL SECTORS CROP STATISTICS									
INDICATORS	2009			2010			2011		
	TRADITIONAL	COMMERCIAL	TOTALS	TRADITIONAL	COMMERCIAL	TOTALS	TRADITIONAL	COMMERCIAL	TOTALS
LAND HOLDINGS:- TOTAL HOLDINGS WITH LAND	80,810	137	80,947	76,108	159	76,267	80,301	114	80,415
TOTAL LAND AREA (HA)	253,640	75,163	328,803	238,656	24,955	263,611	272,806	51,213	324,019
TOTAL CROP HOLDINGS	78,653	74	78,727	72,183	136	72,319	77,387	70	77,457
TOTAL AREA PLANTED (HA)	242,663	15,997	258,660	220,059	23,528	243,587	261,967	27,311	289,278
TOTAL AREA HARVESTED (HA)	165,696	15,771	181,467	141,245	20,522	161,767	173,955	26,717	200,672
SORGHUM:- TOTAL HOLDINGS	46,975	45	47,020	42,559	49	42,608	43,437	52	43,489
TOTAL AREA PLANTED (HA)	67,015	11,686	78,701	61,089	15,525	76,614	63,720	6,489	70,209
TOTAL AREA HARVESTED (HA)	46,977	11,684	58,661	44,233	14,521	58,754	42,660	6,059	48,719
TOTAL PRODUCTION (METRIC TONS)	7,904	21,475	29,379	6,181	25,145	31,326	5,946	26,645	32,591
AVERAGE YIELD PER HECTARE PLANTED (KG)	118	1,838	373	101	1,620	409	93	4,106	464
AVERAGE YIELD PER HECTARE HARVESTED (KG)	168	1,838	501	140	1,732	533	139	4,398	669
MAIZE:- TOTAL HOLDINGS	74,865	26	74,891	68,852	28	68,880	74,232	29	74,261
TOTAL AREA PLANTED (HA)	120,727	281	121,008	109,792	139	109,931	151,164	325	151,489
TOTAL AREA HARVESTED (HA)	82,461	249	82,710	65,184	54	65,238	101,107	318	101,425
TOTAL PRODUCTION (METRIC TONS)	13,040	6,207	19,247	10,540	6,035	16,575	29,070	6,252	35,322
YIELD PER HECTARE PLANTED (KG)	108	22,089	159	96	43,417	151	192	19,237	233
YIELD PER HECTARE HARVESTED (KG)	158	24,928	233	162	111,759	254	288	19,660	348
MILLET:- TOTAL HOLDINGS	16,521	8	16,529	18,184	7	18,191	16,503	8	16,511
TOTAL AREA PLANTED (HA)	9,380	511	9,891	10,296	546	10,842	7,886	5,416	13,302
TOTAL AREA HARVESTED (HA)	7,745	391	8,136	8,940	546	9,486	5,313	5,416	10,729
TOTAL PRODUCTION (METRIC TONS)	2,501	256	2,757	3,097	271	3,368	1,536	975	2,511
YIELD PER HECTARE PLANTED (KG)	267	501	279	301	496	311	195	180	189
YIELD PER HECTARE HARVESTED (KG)	323	655	339	346	496	355	289	180	234
BEANS/PULSES:- TOTAL HOLDINGS	69,376	25	69,401	62,491	28	62,519	66,955	32	66,987
TOTAL AREA PLANTED (HA)	31,160	1,227	32,387	25,748	2,417	28,165	28,108	1,360	29,468
TOTAL AREA HARVESTED (HA)	18,406	1,179	19,585	14,895	1,722	16,617	18,738	1,307	20,045
TOTAL PRODUCTION (METRIC TONS)	3,090	1,227	4,317	2,863	754	3,617	3,739	961	4,700
YIELD PER HECTARE PLANTED (KG)	99	1,000	133	111	312	128	133	707	159
YIELD PER HECTARE HARVESTED (KG)	168	1,041	220	192	438	218	200	735	234
GROUNDNUTS:- TOTAL HOLDINGS	2,033	-	2,033	15,628	-	15,628	15,672	-	15,672
TOTAL AREA PLANTED (HA)	3,441	-	3,441	4,260	-	4,260	2,491	-	2,491
TOTAL AREA HARVESTED (HA)	2,350	-	2,350	3,075	-	3,075	1,408	-	1,408
TOTAL PRODUCTION (METRIC TONS)	1,538	-	1,538	1,828	-	1,828	833	-	833
YIELD PER HECTARE PLANTED (KG)	447	-	447	429	-	429	334	-	334
YIELD PER HECTARE HARVESTED (KG)	654	-	654	594	-	594	592	-	592
SUNFLOWER:- TOTAL HOLDINGS	2,033	12	2,045	2,236	19	2,255	1,985	11	1,996
TOTAL AREA PLANTED (HA)	670	2,212	2,882	821	3,956	4,777	1,039	13,320	14,359
TOTAL AREA HARVESTED (HA)	641	2,212	2,853	493	3,106	3,599	521	13,300	13,821
TOTAL PRODUCTION (METRIC TONS)	128	1,637	1,765	148	3,695	3,843	454	15,383	15,837
YIELD PER HECTARE PLANTED (KG)	191	740	613	180	934	804	437	1,155	1,103
YIELD PER HECTARE HARVESTED (KG)	200	740	619	300	1,190	1,068	871	1,157	1,146

* Total production for the commercial sector excludes fruits, fodder and vegetables production

TABLE 3: NUMBER OF HOLDERS BY GENDER, DISTRICT AND REGION					
District/ Region	Male		Female		Total Number of Holders
	Number	Percentage	Number	Percentage	
Barolong	1,127	1.6	1,451	2.7	2,578
Ngwaketse South	1,472	2.1	1,104	2.0	2,576
Ngwaketse North	3,321	4.7	2,137	3.9	5,458
Ngwaketse Central	3,144	4.4	2,667	4.9	5,811
Ngwaketse West	2,876	4.1	1,188	2.2	4,064
SOUTHERN REGION	11,940	16.8	8,547	15.8	20,487
Bamalefe/Tlokweng	2,098	3.0	1,921	3.5	4,019
Kweneng South	6,330	8.9	5,541	10.2	11,871
Kweneng North	3,693	5.2	1,985	3.7	5,678
Kweneng West	4,816	6.8	2,718	5.0	7,534
Kgatleng	4,955	7.0	3,532	6.5	8,487
GABORONE REGION	21,892	30.9	15,697	29.0	37,589
Mahalapye East	2,000	2.8	1,920	3.5	3,920
Mahalapye West	3,693	5.2	2,275	4.2	5,968
Palapye	4,683	6.6	4,811	8.9	9,494
Serowe	2,362	3.3	1,005	1.9	3,367
Bobonong	1,196	1.7	688	1.3	1,884
Letlhakane	1,955	2.8	877	1.6	2,832
Selebi-Phikwe	1,067	1.5	705	1.3	1,772
CENTRAL REGION	16,956	23.9	12,281	22.7	29,237
Tati	2,742	3.9	2,647	4.9	5,389
Tutume	6,662	9.4	5,380	9.9	12,042
Tonota	2,767	3.9	2,977	5.5	5,744
FRANCISTOWN REGION	12,171	17.2	11,004	20.3	23,175
Ngamiland West	1,738	2.5	2,134	3.9	3,872
Ngamiland East	3,072	4.3	2,301	4.3	5,373
Chobe	82	0.1	220	0.4	302
MAUN REGION	4,892	6.9	4,655	8.6	9,547
Gantsi	1,501	2.1	617	1.1	2,118
Hukuntsi	444	0.6	558	1.0	1,002
Tsabong	1,107	1.6	755	1.4	1,862
WESTERN REGION	3,052	4.3	1,930	3.6	4,982
TOTAL TRADITIONAL	70,903	100.0	54,114	100.0	125,017

TABLE 4: CATTLE HOLDINGS AND POPULATION BY GENDER, DISTRICT AND REGION										
District/ Region	Cattle Holdings				Total Holdings	Cattle Population				Total Cattle
	Male Owned	Percentage	Female Owned	Percentage		Male Owned	Percentage	Female Owned	Percentage	
Barolong	774	1.6	816	3.3	1,590	9,242	0.5	11,096	1.9	20,338
Ngwaketse South	948	1.9	700	2.8	1,648	18,038	1.1	19,158	3.4	37,196
Ngwaketse North	2,691	5.4	826	3.3	3,517	41,732	2.5	9,333	1.6	51,065
Ngwaketse Central	2,611	5.2	1,461	5.9	4,072	52,620	3.1	15,222	2.7	67,842
Ngwaketse West	2,348	4.7	472	1.9	2,820	42,350	2.5	7,719	1.4	50,069
SOUTHERN REGION	9,372	18.8	4,275	17.3	13,647	163,982	9.7	62,528	11.0	226,510
Bamalete/Tlokweng	1,046	2.1	453	1.8	1,499	12,107	0.7	6,271	1.1	18,378
Kweneng South	4,126	8.3	3,329	13.5	7,455	67,006	4.0	60,167	10.6	127,173
Kweneng North	2,671	5.4	739	3.0	3,410	72,441	4.3	16,111	2.8	88,552
Kweneng West	3,617	7.2	889	3.6	4,506	111,986	6.6	7,604	1.3	119,590
Kgatleng	3,266	6.5	1,196	4.8	4,462	73,800	4.4	20,840	3.7	94,640
GABORONE REGION	14,726	29.5	6,606	26.7	21,332	337,340	20.0	110,993	19.5	448,333
Mahalapye East	1,499	3.0	537	2.2	2,036	42,065	2.5	11,355	2.0	53,420
Mahalapye West	3,071	6.2	1,553	6.3	4,624	136,105	8.1	67,887	11.9	203,992
Palapye	2,577	5.2	1,618	6.5	4,195	88,575	5.2	52,324	9.2	140,899
Serowe	1,918	3.8	672	2.7	2,590	127,945	7.6	31,855	5.6	159,800
Bobonong	994	2.0	360	1.5	1,354	41,684	2.5	10,277	1.8	51,961
Letlhakane	1,890	3.8	737	3.0	2,627	161,264	9.5	30,271	5.3	191,535
Selebi-Phikwe	959	1.9	357	1.4	1,316	66,326	3.9	11,855	2.1	78,181
CENTRAL REGION	12,908	25.9	5,834	23.6	18,742	663,964	39.3	215,824	37.9	879,788
Tati	1,278	2.6	1,106	4.5	2,384	21,962	1.3	10,566	1.9	32,528
Tutume	4,072	8.2	2,625	10.6	6,697	163,900	9.7	60,642	10.6	224,542
Tonota	1,631	3.3	884	3.6	2,515	43,242	2.6	14,924	2.6	58,166
FRANCISTOWN REGION	6,981	14.0	4,615	18.7	11,596	229,104	13.6	86,132	15.1	315,236
Ngamiland West	1,048	2.1	897	3.6	1,945	38,114	2.3	16,832	3.0	54,946
Ngamiland East	2,382	4.8	1,358	5.5	3,740	131,920	7.8	54,231	9.5	186,151
Chobe	38	0.1	110	0.4	148	1,461	0.1	1,155	0.2	2,616
MAUN REGION	3,468	6.9	2,365	9.6	5,833	171,495	10.1	72,218	12.7	243,713
Gantsi	1,281	2.6	464	1.9	1,745	84,765	5.0	8,240	1.4	93,005
Hukuntsi	363	0.7	396	1.6	759	16,621	1.0	10,095	1.8	26,716
Tsabong	823	1.6	187	0.8	1,010	23,434	1.4	3,527	0.6	26,961
WESTERN REGION	2,467	4.9	1,047	4.2	3,514	124,820	7.4	21,862	3.8	146,682
TOTAL TRADITIONAL	49,922	100.0	24,742	100.0	74,664	1,690,705	100.0	569,557	100.0	2,260,262

TABLE 5: GOATS HOLDINGS AND POPULATION BY GENDER, DISTRICT AND REGION										
District/ Region	Goats Holdings				Total Holdings	Total Goats				Total Goats
	Male Owned	Percentage	Female Owned	Percentage		Male Owned	Percentage	Female Owned	Percentage	
Barolong	983	1.9	1,167	3.7	2,150	16,358	1.4	13,935	2.5	30,293
Ngwaketse South	1,124	2.2	766	2.4	1,890	25,713	2.2	9,534	1.7	35,247
Ngwaketse North	2,344	4.6	1,339	4.2	3,683	34,601	3.0	19,560	3.5	54,161
Ngwaketse Central	1,955	3.8	1,800	5.6	3,755	46,019	3.9	31,270	5.5	77,289
Ngwaketse West	2,322	4.6	938	2.9	3,260	43,109	3.7	21,371	3.8	64,480
SOUTHERN REGION	8,728	17.1	6,010	18.8	14,738	165,800	14.1	95,670	17.0	261,470
Bamalete/Tlokweneng	1,423	2.8	843	2.6	2,266	28,613	2.4	12,881	2.3	41,494
Kweneng South	4,628	9.1	3,724	11.7	8,352	72,399	6.2	61,463	10.9	133,862
Kweneng North	3,082	6.1	1,047	3.3	4,129	77,848	6.6	17,861	3.2	95,709
Kweneng West	3,700	7.3	2,024	6.3	5,724	63,790	5.4	26,003	4.6	89,793
Kgatleng	2,909	5.7	1,603	5.0	4,512	55,671	4.8	21,166	3.8	76,837
GABORONE REGION	15,742	30.9	9,241	28.9	24,983	298,321	25.5	139,374	24.7	437,695
Mahalapye East	1,373	2.7	941	2.9	2,314	28,961	2.5	13,815	2.4	42,776
Mahalapye West	2,833	5.6	1,454	4.6	4,287	74,777	6.4	22,418	4.0	97,195
Palapye	3,634	7.1	2,164	6.8	5,798	72,327	6.2	31,608	5.6	103,935
Serowe	1,743	3.4	641	2.0	2,384	47,464	4.0	16,000	2.8	63,464
Bobonong	961	1.9	468	1.5	1,429	38,635	3.3	14,407	2.6	53,042
Lelthakane	1,575	3.1	709	2.2	2,284	66,405	5.7	35,455	6.3	101,860
Selebi-Phikwe	1,008	2.0	483	1.5	1,491	38,413	3.3	12,719	2.3	51,132
CENTRAL REGION	13,127	25.8	6,860	21.5	19,987	366,982	31.3	146,422	26.0	513,404
Tati	1,862	3.7	1,693	5.3	3,555	32,336	2.8	31,316	5.6	63,652
Tutume	4,647	9.1	3,166	9.9	7,813	110,283	9.4	55,311	9.8	165,594
Tonota	1,820	3.6	2,331	7.3	4,151	37,728	3.2	45,760	8.1	83,488
FRANCISTOWN REGION	8,329	16.4	7,190	22.5	15,519	180,347	15.4	132,387	23.5	312,734
Ngamiland West	769	1.5	430	1.3	1,199	17,587	1.5	4,664	0.8	22,251
Ngamiland East	1,759	3.5	1,164	3.6	2,923	50,998	4.4	22,463	4.0	73,461
Chobe	60	0.1	76	0.2	136	1,066	0.1	1,332	0.2	2,398
MAUN REGION	2,588	5.1	1,670	5.2	4,258	69,651	5.9	28,459	5.0	98,110
Gantsi	1,228	2.4	169	0.5	1,397	42,399	3.6	3,761	0.7	46,160
Hukuntsi	442	0.9	324	1.0	766	20,417	1.7	5,094	0.9	25,511
Tsabong	735	1.4	471	1.5	1,206	28,056	2.4	12,871	2.3	40,927
WESTERN REGION	2,405	4.7	964	3.0	3,369	90,872	7.8	21,726	3.9	112,598
TOTAL TRADITIONAL	50,919	100.0	31,935	100.0	82,854	1,171,973	100.0	564,038	100.0	1,736,011

TABLE 6: SHEEP HOLDINGS AND POPULATION BY GENDER, DISTRICT AND REGION										
District\Region	Sheep Holdings				Total Holdings	Total Sheep				Total Sheep
	Male Owned	Percentage	Female Owned	Percentage		Male Owned	Percentage	Female Owned	Percentage	
Barolong	146	1.1	236	3.3	382	1,241	0.6	3,486	4.4	4,727
Ngwaketse South	204	1.6	214	3.0	418	5,778	2.8	2,308	2.9	8,086
Ngwaketse North	900	6.9	275	3.9	1,175	8,554	4.2	3,525	4.5	12,079
Ngwaketse Central	968	7.4	431	6.1	1,399	10,967	5.4	3,367	4.3	14,334
Ngwaketse West	444	3.4	76	1.1	520	8,993	4.4	690	0.9	9,683
SOUTHERN REGION	2,662	20.5	1,232	17.4	3,894	35,533	17.4	13,376	17.0	48,909
Bamalete/Tlokwen	339	2.6	165	2.3	504	2,868	1.4	384	0.5	3,252
Kweneng South	1,381	10.6	1,547	21.9	2,928	12,022	5.9	12,750	16.2	24,772
Kweneng North	801	6.2	202	2.9	1,003	13,228	6.5	1,857	2.4	15,085
Kweneng West	835	6.4	542	7.7	1,377	10,909	5.3	3,120	4.0	14,029
Kgatleng	492	3.8	262	3.7	754	7,120	3.5	1,361	1.7	8,481
GABORONE REGION	3,848	29.6	2,718	38.4	6,566	46,147	22.6	19,472	24.7	65,619
Mahalapye East	458	3.5	225	3.2	683	9,323	4.6	2,748	3.5	12,071
Mahalapye West	864	6.6	174	2.5	1,038	13,899	6.8	2,729	3.5	16,628
Palapye	775	6.0	368	5.2	1,143	4,265	2.1	3,245	4.1	7,510
Serowe	476	3.7	186	2.6	662	13,986	6.8	2,859	3.6	16,845
Bobonong	389	3.0	194	2.7	583	7,807	3.8	4,244	5.4	12,051
Lethakane	556	4.3	197	2.8	753	7,460	3.6	2,614	3.3	10,074
Selebi-Phikwe	434	3.3	151	2.1	585	15,901	7.8	1,634	2.1	17,535
CENTRAL REGION	3,952	30.4	1,495	21.1	5,447	72,641	35.5	20,073	25.5	92,714
Tati	105	0.8	244	3.4	349	1,223	0.6	3,191	4.1	4,414
Tufume	627	4.8	411	5.8	1,038	7,068	3.5	5,919	7.5	12,987
Tonota	495	3.8	548	7.7	1,043	12,363	6.0	7,315	9.3	19,678
FRANCISTOWN REGION	1,227	9.4	1,203	17.0	2,430	20,654	10.1	16,425	20.9	37,079
Ngamiland West	38	0.3	18	0.3	56	1,085	0.5	108	0.1	1,193
Ngamiland East	487	3.7	266	3.8	753	7,564	3.7	5,443	6.9	13,007
Chobe	-	-	14	0.2	-	-	-	42	0.1	-
MAUN REGION	525	4.0	298	4.2	823	8,649	4.2	5,593	7.1	14,242
Gantsi	267	2.1	-	-	267	3,492	1.7	-	-	3,492
Hukunsi	87	0.7	-	-	87	1,152	0.6	-	-	1,152
Tsabong	442	3.4	133	1.9	575	16,128	7.9	3,740	4.8	19,868
WESTERN REGION	796	6.1	133	1.9	929	20,772	10.2	3,740	4.8	24,512
TOTAL TRADITIONAL	13,010	100.0	7,079	100.0	20,089	204,396	100.0	78,679	100.0	283,075

TABLE 7: (TRADITIONAL SECTOR) NUMBER OF HOLDINGS BY WHETHER EMPLOYED FARM WORKERS, DISTRICT AND REGION								
District/ Region	YES		NO		Total Holders	Total Labourers		Total Labourers
	Number	Percentage	Number	Percentage		Female	Male	
Barolong	368	1.5	2,210	2.2	2,578	518	71	589
Ngwaketse South	381	1.6	2,195	2.2	2,576	455	-	455
Ngwaketse North	488	2.0	4,970	4.9	5,458	380	108	488
Ngwaketse Central	1,391	5.8	4,420	4.4	5,811	1,095	374	1,469
Ngwaketse West	976	4.1	3,088	3.1	4,064	1,045	37	1,082
SOUTHERN REGION	3,604	15.0	16,883	16.7	20,487	3,493	590	4,083
								-
Bamalete/Tlokweng	127	0.5	3,892	3.9	4,019	118	-	118
Kweneng South	2,570	10.7	9,301	9.2	11,871	2,770	189	2,959
Kweneng North	1,157	4.8	4,521	4.5	5,678	1,144	91	1,235
Kweneng West	729	3.0	6,805	6.7	7,534	1,201	100	1,301
Kgalfleng	1,223	5.1	7,264	7.2	8,487	1,183	122	1,305
GABORONE REGION	5,806	24.1	31,783	31.5	37,589	6,416	502	6,918
								-
Mahalapye East	645	2.7	3,275	3.2	3,920	689	75	764
Mahalapye West	2,190	9.1	3,778	3.7	5,968	2,442	337	2,779
Palapye	1,138	4.7	8,356	8.3	9,494	1,253	196	1,449
Serowe	1,685	7.0	1,682	1.7	3,367	2,165	286	2,451
Bobonong	533	2.2	1,351	1.3	1,884	504	118	622
Lethakane	830	3.4	2,002	2.0	2,832	786	198	984
Selebi-Phikwe	597	2.5	1,175	1.2	1,772	675	113	788
CENTRAL REGION	7,618	31.6	21,619	21.4	29,237	8,514	1,323	9,837
								-
Tati	682	2.8	4,707	4.7	5,389	705	86	791
Tutume	3,311	13.8	8,731	8.6	12,042	3,380	603	3,983
Tonota	996	4.1	4,748	4.7	5,744	1,076	24	1,100
FRANCISTOWN REGION	4,989	20.7	18,186	18.0	23,175	5,161	713	5,874
								-
Ngamiland West	245	1.0	3,627	3.6	3,872	265	-	265
Ngamiland East	841	3.5	4,532	4.5	5,373	880	69	949
Chobe	119	0.5	183	0.2	302	86	35	121
MAUN REGION	1,205	5.0	8,342	8.3	9,547	1,231	104	1,335
								-
Gantsi	530	2.2	1,588	1.6	2,118	515	66	581
Hukuntsi	27	0.1	975	1.0	1,002	26	6	32
Tsabong	294	1.2	1,568	1.6	1,862	322	5	327
WESTERN REGION	851	3.5	4,131	4.1	4,982	863	77	940
								-
TOTAL TRADITIONAL	24,073	100.0	100,944	100.0	125,017	25,678	3,309	28,987

TABLE 8: (COMMERCIAL SECTOR) NUMBER OF HOLDINGS BY WHETHER EMPLOYED FARM WORKERS AND BLOCK				
BLOCK	Farm Workers Employment		Total Number of Farms	Total Number of Farm Workers
	Yes	No		
Tuli Block	36	9	45	278
Tati Block	12	3	15	23
Gantsi Freehold	65	23	88	345
Molopo Freehold	4	1	5	54
Gaborone Freehold	-	-	-	-
Pandamatenga	34	8	42	191
Lobatse Freehold	13	5	18	77
Sand Veld TGLP	44	9	53	113
Ngwaketse TGLP	58	6	64	176
Kgalagadi TGLP	18	11	29	65
Kweneng TGLP	65	30	95	131
Gantsi TGLP	105	61	166	213
Haina Veldt TGLP	38	10	48	87
Nata TGLP	4	-	4	7
Lepasha TGLP	-	-	-	-
Barolong Farms	20	6	26	97
Lethakane TGLP	20	-	20	63
TOTAL COMMERCIAL	536	182	718	1,920

TABLE 9: TOTAL PRODUCTION TRENDS (METRIC TONNES) BY CROP (Traditional & Commercial)						
YEAR	SORGHUM	MAIZE	MILLET	PULSES	SUNFLOWER	GROUNDNUTS
1979	5,000	3,000	1,000	1,000	900	200
1980	29,000	12,000	3,000	2,000	1,400	1,400
1981	28,000	22,000	2,000	3,000	1,200	2,000
1982	4,000	13,000	500	500	7,000	300
1983	5,000	9,000	500	300	200	800
1984	6,000	500	700	400	400	600
1985	15,000	1,500	1,800	400	500	800
1986	16,000	3,600	1,300	600	200	200
1987	18,000	3,300	400	100	100	100
1988	94,000	7,300	3,700	2,300	200	200
1989	53,000	20,000	2,000	2,500	200	500
1990	38,200	12,000	1,700	2,000	240	540
1993	10,797	2,976	1,624	530	113	126
1995	113,547	18,953	19,390	10,181	962	951
1996	59,200	24,629	2,508	3,914	39	551
1997	13,450	22,647	1,357	4,467	444	1,040
1998	3,743	2,344	507	1,198	1,267	121
1999	6,658	3,796	860	1,348	2,829	217
2000	12,671	19,962	439	4,102	163	545
2001	1,583	4,976	472	1,280	150	147
2002	15,805	16,447	54	1,907	2,250	137
2003	23,501	1,633	91	460	960	15
2004	6,095	4,291	958	1,093	479	119
2006	12,369	14,896	3,201	4,918	133	558
2007	11,774	2,158	532	805	2,558	76
2008	23,632	8,969	1,636	2,305	8,140	161
2009	29,379	19,247	2,757	4,317	1,765	1,538
2010	31,326	16,575	3,368	3,617	3,843	1,828
2011	32,591	35,322	2,511	4,700	15,837	833

Figures for 1991 -1992, 1994 not available and those for 2001 are traditional sector only while for 2005 are commercial sector only.

TABLE 10: TRADITIONAL SECTOR: YIELD PER HECTARE PLANTED TRENDS (KG/HA) BY CROP						
YEAR	SORGHUM	MAIZE	MILLET	PULSES	SUNFLOWER	GROUNDNUTS
1979	74	58	77	37	150	50
1980	197	150	176	83	200	280
1981	199	253	100	115	400	400
1982	43	203	31	25	350	150
1983	40	148	29	14	200	800
1984	53	10	41	24	200	150
1985	120	31	113	27	167	400
1986	99	82	74	33	211	129
1987	86	70	26	20	175	33
1988	338	141	225	128	200	282
1989	199	224	97	83	200	232
1990	185	147	135	98	300	257
1993	78	36	108	20	51	90
1995	685	220	1,708	394	197	856
1996	310	180	227	109	65	240
1997	67	189	129	58	147	193
1998	55	25	55	38	32	10
1999	47	30	109	36	69	73
2000	119	162	82	116	178	146
2001	68	104	141	87	156	100
2002	89	75	15	63	86	64
2003	37	42	36	41	24	23
2004	213	134	329	134	97	250
2006	211	191	444	218	313	442
2007	42	45	61	34	7	25
2008	82	95	132	69	158	49
2009	118	108	267	99	191	447
2010	101	96	301	111	180	429
2011	93	192	195	133	437	334

Figures for 1991 -1992, 1994 not available and those for 2001 are traditional sector only while for 2005 are commercial sector only.