



# Livestock Population & Production Bulletin

(Data pertaining to year 2005 & earlier periods)

**Department of Livestock**  
June 2007

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## 1. Foreword

The livestock census taking has been a regular activity of the department through extension officials in the field. However, in between, this activity was included as a part of the overall RNR data collection process. The RNR census taking exercise was instituted and for the first time implemented in 2001, for the year 2000 end data. Such an exercise was huge and time & resource consuming. As a result, details of data pertaining to individual sub-sector were left out as it would be cumbersome and not necessary at the national level.

The general understanding then was to conduct RNR census every five years backed up by a random 10% survey every year. However this activity has now been decentralized to the departments since 2004, who are responsible for collecting their own data and using it for various purposes.

On the other hand livestock population figure is such an important element in the planning and day to day administration of livestock programs. Its use is varied: ranging from planning of vaccination, deworming, general health services to fodder development, breeding programs including AI & contract breeders' activities including projection of Essential Veterinary Drugs & Equipment (EVDE). Perhaps the most important aspect is the organization of marketing and allied services.

After the RNR 2000 there has been a long – over five years' – gap. During these years there was inadequate data collection efforts made mainly because of the earlier circular. Therefore there has been a considerable data gap.

The livestock data collection; more widely known as livestock census taking; has been a traditional activity of our extension colleagues. It has been so for a purpose that is so intimately linked to day to day planning and technical administration of the livestock activity.

Notwithstanding the need for a regular data collection task, a *sustainable mechanism* to maintain and manage the livestock data in a *systematic manner* has been the priority of the department.

The Department of Livestock, Ministry of Agriculture is pleased to bring out the livestock population and production statistics 2005, which is the first of its kind, after the department took over the responsibility from PPD. It presents comprehensive data on livestock population & production, trend lines and comparisons with earlier data. The data featuring earlier periods have been collected and assimilated from various sources. For 2000, the source is from RNR census 2000. For validity and accuracy, department will not be able to provide technical answers to the data pertaining to earlier periods.

The booklet is presented in two sections.

Section-I covers the

- objective,
- census design,
- methodology,
- coverage,
- the limitations,
- and the whole operational machinery involved.

Section II covers the data for 2000 & 2005, comparisons of data, illustrations by trend-lines and some explanations. Both parts are included in a single book.

The department is hopeful that the data will provide information not only for the purposes of planning of livestock programs in the field and research but also provides basis of the performance of the sub-sector.

The department would like to commend the efforts put on by the colleagues in the Dzongkhag livestock sector for data collection and consolidation. We would also like to extend appreciation to all those colleagues who have contributed in designing the questionnaires and software package.

The department is in constant endeavor to the development and implementation of the Livestock information management systems and databases. With the support of all the users of this information, we hope to improve on our service and reach out to everyone involved in the development of the sub-sector.

**( Tenzin Dhendup )**  
**Director**

## 2. Section - I

### 2.1 Objectives

The objective of this publication is to:

- a) Provide consistent and reliable livestock population, production and other data particularly for the year 2005 and earlier periods which can be used for planning of livestock based programmes in the field.
- b) To serve as the baseline for preparation of the 10FYP.
- c) Serve as a basis to improve upon the questionnaire for data collection; strengthen the information management services in Dzongkhags and at the centre; improve upon the software package for processing the data.
- d) To assist and encourage Geogs, Dzongkhags and central program in obtaining and standardized maintenance of information for day to day use and to publish their own data.
- e) To provide spontaneous, appropriate and accurate information at the right time, to support decision and policy making of the livestock Sector
- f) To train the users in the use of data collection forms, database and data transfer mechanism.
- g) To institutionalize the process of data collection and maintenance for longer term sustainability

### 2.2 Ground work for the data collection

Any data and information collection exercise should be need based. The users or the clients for the information use should be clearly identified. In terms of usage of information pertaining to livestock sector, it was envisaged that there would be four categories of users or clients, which were:

- a) Gewog/Dzongkhag
- b) Central units (Farms/Laboratories)
- c) HQ/Ministry
- d) DoP/NSB

As a result of detailed need assessment, it was known that detailed *livestock population* and *production data* was absolutely required at each *Geog centre*. Semi aggregated information would be required at the Dzongkhag for the same data set. In practice planning on the livestock activities are done together with geog staff. Therefore the same data set will be required at the Dzongkhag. In terms of database and maintenance of detailed information, for some times to come, it will be done at Dzongkhag for geogs.

The details of data and information required at the Geog level are illustrated below:

<b>S/No</b>	<b>Information type</b>
1.	Demographic (along-with map) and service infrastructure
1.	Land use patterns in relation to fodder and pasture development
2.	Livestock population (numbers with additional info. On Births, deaths, migrating, sedentary herds etc )
3.	Livestock production, (production, used imports, sales etc.)
4.	Livestock diseases (types, number affected, no. died etc.)
5.	Breeding animal information (types, services done, progeny born: both free and cost etc.)
6.	Improved livestock distributed (types, numbers etc.
7.	Farmers groups/ associations/ co-operatives
8.	Infrastructure
9.	Materials at EC/LECs
10.	Staff (including training availed)
11.	Commodity potentials and opportunities
12.	Details on Backyard units
13.	Feed & fodder development
14.	Display of main events
15.	Farmers trained
16.	Difficulties and constraints
	Livelihood dependency

### 2.3 What information or information systems already exist!

S/No	Data type	Updated
1.	Progress data of all 26 central units under DoL	Monthly, Quarterly
2.	Progress data of all 20 Dzongkhags	Quarterly
3.	Database on Vaccine production & distribution	Quarterly
4.	Database on Pasture development	Quarterly
5.	Database on Artificial Insemination program	Quarterly
6.	Database on CBB program	Quarterly
7.	Database on Breeding animals in the field	Six monthly
8.	Database on Budget & Expenditure	Monthly/Quarterly
9.	Database on Staff (Central & Dzongkhag)	As & when
10.	Database on Dz progress report	Quarterly
11.	Database on treatment/prescription writing/ drug store management	In the making
12.	Database on Ram breeding	Bi-annual
13.	Published annually fiscal year basis	

## 2.4 Additional data that is needed to collect and manage

S/No	Information type	Additional required or not
1.	<b>Demographic (along-with map) and service infrastructure</b>	<b>Demographic data needed. Data submission on infrastructure to be regularized</b>
2.	<b>Land use patterns in relation to fodder and pasture development</b>	<b>Required</b>
3.	<b>Livestock population (numbers with additional info. On Births, deaths, migrating, sedentary herds etc )</b>	<b>Required</b>
4.	<b>Livestock production, (production, used imports, sales etc.)</b>	<b>Required</b>
5.	Livestock diseases (types, number affected, no. died etc.)	RVEC compiles as part of regular progress reporting
6.	Breeding animal information (types, services done, progeny born: both free and cost etc.)	Data existing. Needs refining and regular updating
7.	Improved livestock distributed (types, numbers etc.	Data existing. Needs refining and regular updating
8.	<b>Farmers groups/ associations/ co-operatives</b>	<b>Required</b>
9.	Infrastructure	Data existing. Needs refining and regular updating
10.	<b>Materials at EC/LECs</b>	<b>Required</b>
11.	Staff (including training availed)	Data existing. Needs refining and regular updating
12.	<b>Commodity potentials</b>	<b>Required</b>
13.	<b>Details on Backyard units</b>	<b>Comes as a part of Dz PR but no details</b>
14.	Feed & fodder development	Data existing. Needs refining and regular updating
15.	<b>Difficulties and constraints</b>	<b>Required</b>

After the information to be collected through survey was identified, an access based database system was designed with the help of a local IT firm. This was necessary as the user units (Dzongkhags & central programs) did not have a package to systematically compile and consolidate time series data. This would also help user units to store data, process it and publish it through excel or word package. Any other user, including head quarter, could receive the publication electronically for their use.

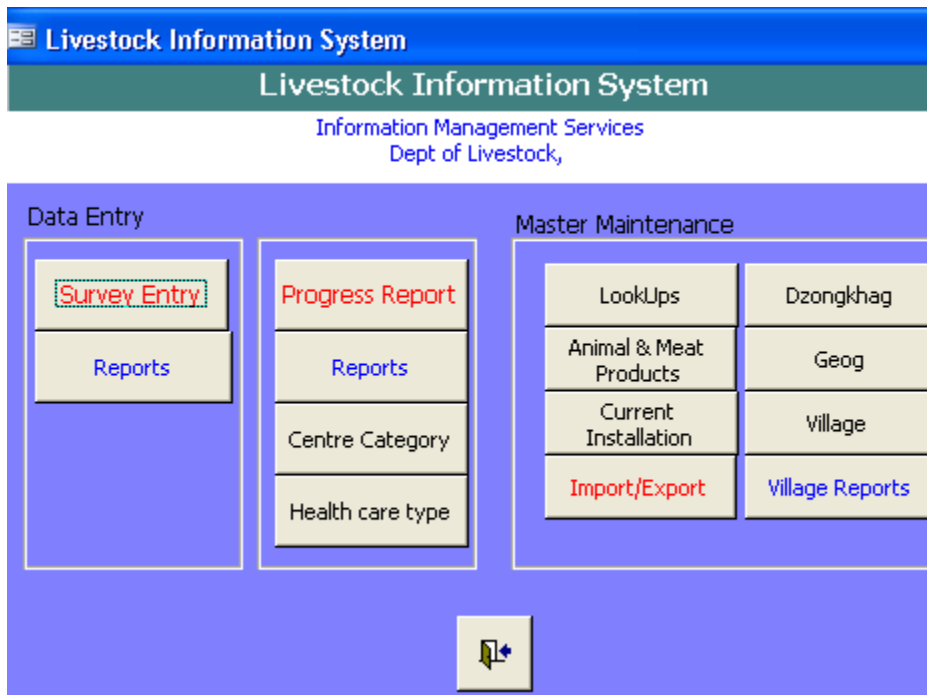
A well structured questionnaire was then prepared with the involvement of main stakeholders and divisions in the department. More than 65000 copies of the questionnaires were printed and distributed to the Dzongkhags to cover all the livestock owning household of the country for the enumeration. The enumeration was done by extension agents in the first half of 2006.

A week-long training was provided to two key officials of the Dzongkhags both on the operation of the software and in the use of the questionnaire. The copy of the software was also deployed through the participants.

The software itself is an integrated package which captures livestock population & production data as well as progress data of all the programs that Dzongkhags implements and reports to the department. For the livestock population & production data the software is the exact copy of the contents of the questionnaire. The report generation function is arranged to provide compiled data, the excel copy of which is already included in the software package. The progress reporting part processes the progress and generates into quarterly sheets.

## 2.5 Contents of the questionnaire and software

The contents of the package is organized in the following



The survey module contains the following information

A. Introduction	C. Livestock
Enumerator's information	Livestock population
Background of the respondent (farmer)	Livestock migration
Respondent's identity	Livestock production
Land holding as per thram	Livestock disposal
Land use (w.r.t pasture development)	HH food security in relation to livestock
B. Fodder	Farmers group information
Fodder Tree	Satisfaction with services
Fodder resource type	Disease information
Fodder production type	
Pastureland available	
Feed & fodder development	

The progress report module contains:

D. Service information	E. Progress record
Information on Extension centre	Breeding animals
Personnel information incl: training	Farmers training
Constraints	Animal health
Office equipment	Backyard farms
Reference material	Distribution of fodder seeds
Potential of the place	Distribution of breeding animals

## 2.6 Data processing, compilation & submission

Data processing was done using the Livestock Information System (LIS) package by all Dzongkhags in their working stations. LIS is access-based software developed locally. Although Dzongkhags have compiled the data for all the components in the questionnaire, submissions have been restricted to livestock population & production only due to limited capacity to handle the huge amount of data at the head quarter.

## 2.7 Constraints & limitations

The livestock population & production data has been collated using structured questionnaire for the year 2005. It was attempted to cover all the livestock owning households (estimated to be about 66,500 households based on 2000 census). Since this was the first attempt by the department, there are some inherent weaknesses.

The collection was a very lengthy process due to detailed nature of questionnaire and also due to migration of livestock. There were also some absentee households which needed re-surveys.

Although efforts were made to make the dzongkhag colleagues fully conversant with the LIS software, there were undue delays in processing the data due to hardware problems, installation of software, non-availability of computing sets, staff not confident to use the software etc.

There were also undue delays in revisiting the software from the headquarter and providing back-up services. Due to this data were reported in different formats by Dzongkhags.

Precise data also depends on the memory of the farmers during enumeration. Variations in data between 2000 & 2005 is therefore as reported by farmers in both occasions; which provide little scope for validation.

### 3. Section II

This section presents the livestock population & production data for the year 2000, 2005 and comparative statistics from earlier periods.

#### 3.1 Data pertaining to year 2000

Dzongkhag	Cattle	Buffalo	Yak	Horses	Mules	Donkey	Sheep	Goats	Pigs	Poultry
Thimphu	6,990	0	8,699	968	75	2	18	6	762	3,151
Paro	12,102	0	3,158	1,084	146	7	15	58	2,511	5,162
Haa	9,639	47	5,629	810	530	25	173	12	1,179	3,832
Chhukha	24,870	67	12	591	56	10	1,375	5,739	3,154	19,551
Samtse	29,341	743	0	209	100	2	4,659	10,916	1,885	38,510
<b>Subtotal W</b>	<b>82,942</b>	<b>857</b>	<b>17,498</b>	<b>3,662</b>	<b>907</b>	<b>46</b>	<b>6,240</b>	<b>16,731</b>	<b>9,491</b>	<b>70,206</b>
Punakha	12,125	0	24	1,019	42	3	0	15	2,640	6,372
Wangdue	20,893	0	3,057	1,722	78	21	3,884	139	3,304	6,794
Gasa	863	0	4,051	380	264	4	196	0	38	465
Tsirang	14,695	382	0	339	9	1	1,189	5,441	1,451	21,909
Dagana	14,296	107	0	383	33	10	732	3,612	2,378	17,171
<b>Subtotal WC</b>	<b>62,872</b>	<b>489</b>	<b>7,132</b>	<b>3,843</b>	<b>426</b>	<b>39</b>	<b>6,001</b>	<b>9,207</b>	<b>9,811</b>	<b>52,711</b>
Bumthang	10,002	0	2,672	1,299	107	8	2,147	28	30	2,142
Trongsa	11,336	0	0	390	50	6	1,337	7	350	3,105
Zhemgang	12,156	0	0	1,434	230	14	7	112	1,618	6,676
Sarpang	26,611	425	0	473	7	2	1,588	4,371	1,640	26,158
<b>Subtotal EC</b>	<b>60,105</b>	<b>425</b>	<b>2,672</b>	<b>3,596</b>	<b>394</b>	<b>30</b>	<b>5,079</b>	<b>4,518</b>	<b>3,638</b>	<b>38,081</b>
Mongar	26,635	0	46	2,123	505	27	105	341	4,398	17,564
Lhuentse	14,089	0	44	1,768	160	22	279	7	1,617	9,577
Yangtse	12,505	0	115	1,753	216	18	47	48	2,793	5,890
Trashigang	30,825	0	7,369	4,264	719	42	5,047	104	5,643	19,378
Pemagatshel	8,570	0	0	479	407	37	20	91	1,414	5,189
S/Jongkhar	21,967	29	60	1,842	535	22	61	281	2,599	12,128
<b>Subtotal E</b>	<b>114,591</b>	<b>29</b>	<b>7,634</b>	<b>12,229</b>	<b>2,542</b>	<b>168</b>	<b>5,559</b>	<b>872</b>	<b>18,464</b>	<b>69,726</b>
<b>National</b>	<b>320,510</b>	<b>1,800</b>	<b>34,936</b>	<b>23,330</b>	<b>4,269</b>	<b>283</b>	<b>22,879</b>	<b>31,328</b>	<b>41,404</b>	<b>230,724</b>

Table 1: Total Livestock Population by Type in 2000

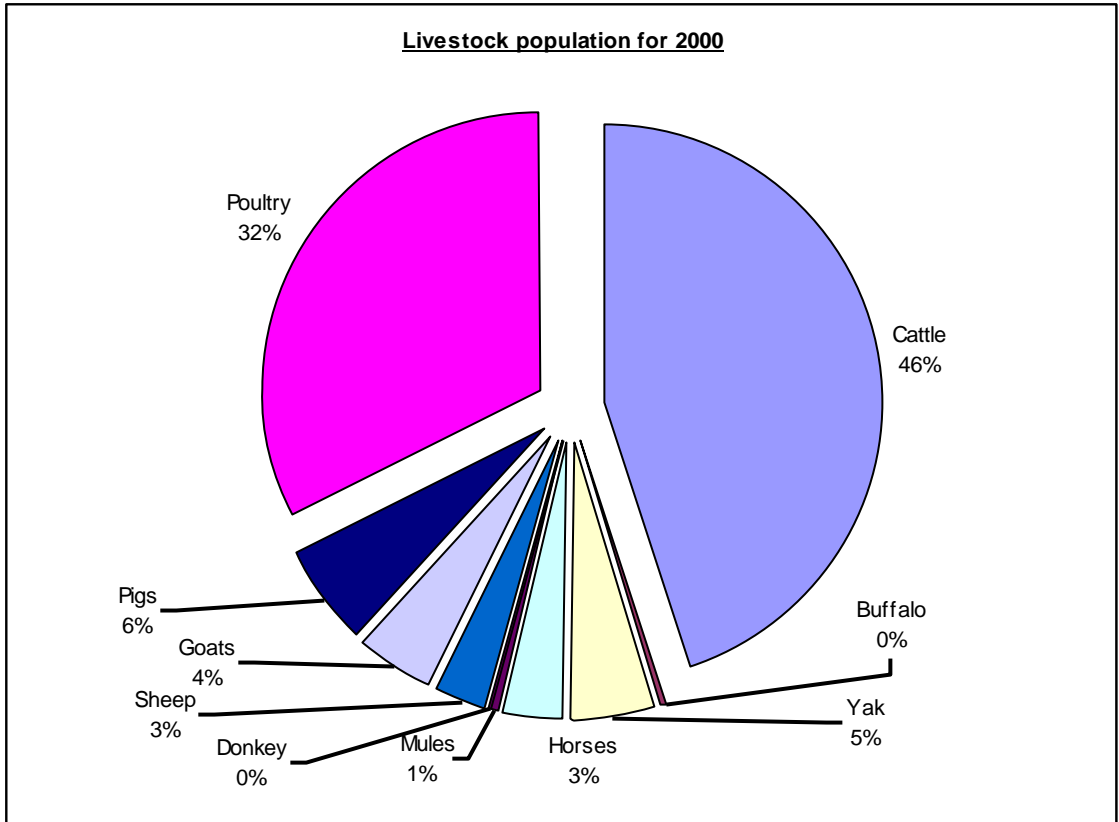


Chart 1: Livestock population in 2000

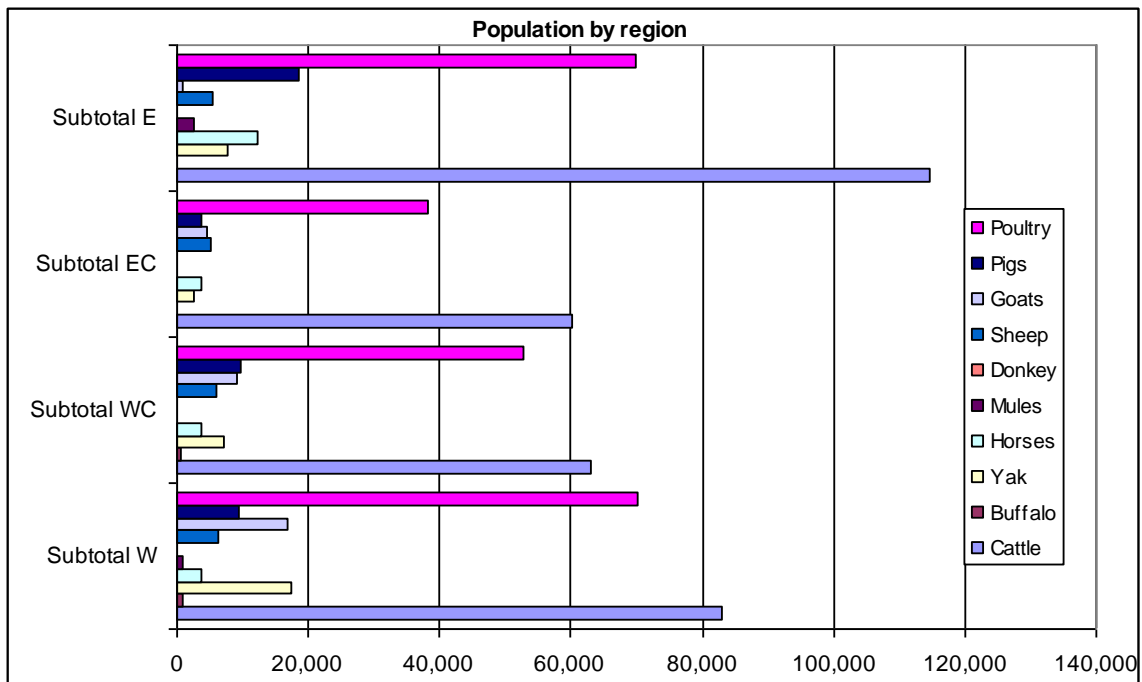


Chart 2: Livestock population in 2000 by region

Dzongkhag	Local Cattle				LTotal	Improved Cattle				Itotal	% Imp cattle
	Adult		Calf			Adult		Calf			
	Male	Female	Male	Female		Male	Female	Male	Female		
Thimphu	2,003	2,888	575	566	<b>6,032</b>	172	539	126	121	<b>958</b>	<b>14</b>
Paro	3,408	4,286	873	757	<b>9,324</b>	538	1,655	278	307	<b>2778</b>	<b>23</b>
Haa	2,030	4,230	816	855	<b>7,931</b>	204	1,034	223	246	<b>1707</b>	<b>18</b>
Chhukha	6,073	9,793	3,082	3,620	<b>22,568</b>	397	1,164	316	425	<b>2302</b>	<b>9</b>
Samtse	9,163	10,713	4,129	4,488	<b>28,493</b>	145	412	133	160	<b>850</b>	<b>3</b>
<b>Subtotal W</b>	<b>22,677</b>	<b>31,910</b>	<b>9,475</b>	<b>10,286</b>	<b>74,348</b>	<b>1,456</b>	<b>4,804</b>	<b>1,076</b>	<b>1,259</b>	<b>8,595</b>	<b>10</b>
Punakha	4,318	4,476	984	968	<b>10,746</b>	359	720	137	163	<b>1379</b>	<b>11</b>
Wangdue	6,094	8,505	1,900	2,151	<b>18,650</b>	630	1,147	225	241	<b>2243</b>	<b>11</b>
Gasa	303	367	46	51	<b>767</b>	16	57	11	12	<b>96</b>	<b>11</b>
Tsirang	4,774	4,834	1,574	1,818	<b>13,000</b>	321	849	224	302	<b>1696</b>	<b>12</b>
Dagana	4,546	4,766	1,582	1,710	<b>12,604</b>	230	918	210	333	<b>1691</b>	<b>12</b>
<b>Subtotal WC</b>	<b>20,035</b>	<b>22,948</b>	<b>6,086</b>	<b>6,698</b>	<b>55,767</b>	<b>1,556</b>	<b>3,691</b>	<b>807</b>	<b>1,051</b>	<b>7,105</b>	<b>11</b>
Bumthang	2,181	3,280	625	645	<b>6,731</b>	841	1,697	321	413	<b>3272</b>	<b>33</b>
Trongsa	3,290	4,547	941	1,055	<b>9,833</b>	307	789	178	229	<b>1503</b>	<b>13</b>
Zhemgang	3,081	5,833	1,202	1,200	<b>11,316</b>	180	455	84	121	<b>840</b>	<b>7</b>
Sarpang	8,376	10,172	2,932	3,115	<b>24,595</b>	273	1,162	271	310	<b>2016</b>	<b>8</b>
<b>Subtotal EC</b>	<b>16,928</b>	<b>23,832</b>	<b>5,700</b>	<b>6,015</b>	<b>52,475</b>	<b>1,601</b>	<b>4,103</b>	<b>854</b>	<b>1,073</b>	<b>7,631</b>	<b>13</b>
Mongar	5,351	14,073	2,189	2,361	<b>23,974</b>	265	1,819	219	357	<b>2660</b>	<b>10</b>
Lhuentse	2,471	7,280	1,304	1,411	<b>12,466</b>	318	950	125	229	<b>1622</b>	<b>12</b>
Yangtse	2,144	6,856	897	1,085	<b>10,982</b>	346	881	119	178	<b>1524</b>	<b>12</b>
Trashigang	7,331	16,237	2,138	2,298	<b>28,004</b>	342	1,882	253	345	<b>2822</b>	<b>9</b>
Pemagatshel	1,614	3,554	568	656	<b>6,392</b>	356	1,337	208	276	<b>2177</b>	<b>25</b>
S/Jongkhar	5,793	10,309	1,803	2,029	<b>19,934</b>	243	1,324	209	258	<b>2034</b>	<b>9</b>
<b>Subtotal E</b>	<b>24,704</b>	<b>58,309</b>	<b>8,899</b>	<b>9,840</b>	<b>101,752</b>	<b>1,870</b>	<b>8,193</b>	<b>1,133</b>	<b>1,643</b>	<b>12,839</b>	<b>11</b>
<b>National</b>	<b>84,344</b>	<b>136,999</b>	<b>30,160</b>	<b>32,839</b>	<b>284,342</b>	<b>6,483</b>	<b>20,791</b>	<b>3,870</b>	<b>5,026</b>	<b>36,170</b>	<b>11</b>

Table 2: Local &amp; improved cattle by age &amp; sex in 2000

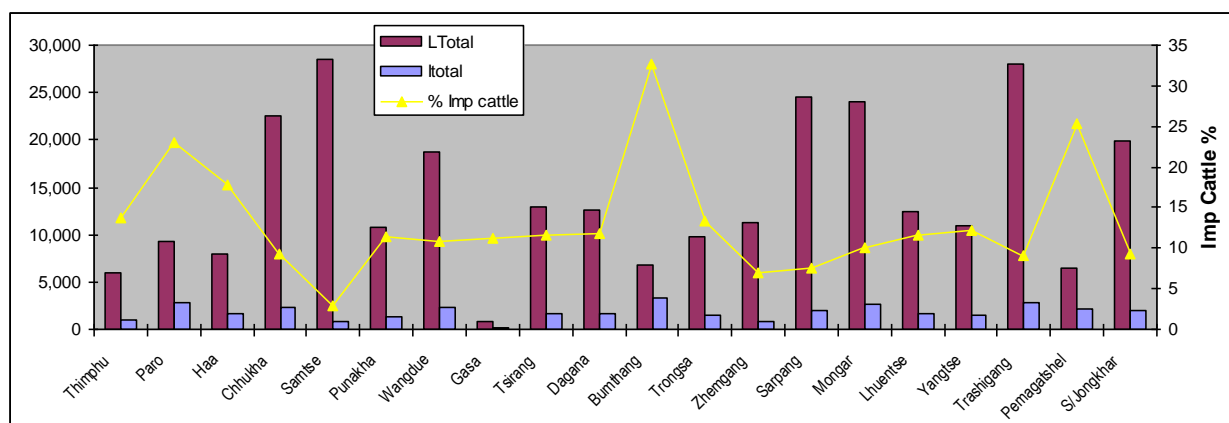


Chart 3: Local &amp; improved cattle by Dzongkhag in 2000

Dzongkhag	Jersey					Brown Swiss				
	Adult		Calf		JTotal	Adult		Calf		BSTotal
	Male	Female	Male	Female		Male	Female	Male	Female	
Thimphu	78	339	83	84	584	0	15	3	5	23
Paro	276	887	164	181	1508	47	254	15	15	331
Haa	113	694	140	140	1087	20	60	6	19	105
Chhukha	282	717	215	305	1519	4	33	4	5	46
Samtse	95	286	92	105	578	2	4	8	0	14
<b>Subtotal W</b>	<b>844</b>	<b>2923</b>	<b>694</b>	<b>815</b>	<b>5276</b>	<b>73</b>	<b>366</b>	<b>36</b>	<b>44</b>	<b>519</b>
Punakha	146	397	87	90	720	23	56	12	15	106
Wangdue	280	571	116	134	1101	93	178	35	47	353
Gasa	15	29	9	11	64	0	1	0	0	1
Tsirang	185	538	128	197	1048	3	1	2	5	11
Dagana	143	682	136	246	1207	2	11	3	4	20
<b>Subtotal WC</b>	<b>769</b>	<b>2217</b>	<b>476</b>	<b>678</b>	<b>4140</b>	<b>121</b>	<b>247</b>	<b>52</b>	<b>71</b>	<b>491</b>
Bumthang	55	170	33	55	313	401	866	177	203	1647
Trongsa	83	372	79	101	635	80	177	35	51	343
Zhemgang	99	264	43	63	469	2	13	5	7	27
Sarpang	158	866	186	217	1427	5	8	0	3	16
<b>Subtotal EC</b>	<b>395</b>	<b>1672</b>	<b>341</b>	<b>436</b>	<b>2844</b>	<b>488</b>	<b>1064</b>	<b>217</b>	<b>264</b>	<b>2033</b>
Mongar	81	411	47	61	600	8	59	0	7	74
Lhuentse	34	238	20	65	357	11	55	10	10	86
Yangtse	20	106	12	24	162	6	19	1	1	27
Trashigang	51	364	44	67	526	6	23	3	0	32
Pemagatshel	16	201	18	34	269	2	14	4	1	21
S/Jongkhar	38	404	62	66	570	3	15	3	2	23
<b>Subtotal E</b>	<b>240</b>	<b>1724</b>	<b>203</b>	<b>317</b>	<b>2484</b>	<b>36</b>	<b>185</b>	<b>21</b>	<b>21</b>	<b>263</b>
<b>National</b>	<b>2248</b>	<b>8536</b>	<b>1714</b>	<b>2246</b>	<b>14744</b>	<b>718</b>	<b>1862</b>	<b>326</b>	<b>400</b>	<b>3306</b>

Table 3: Improved Cattle by Age and Sex in 2000

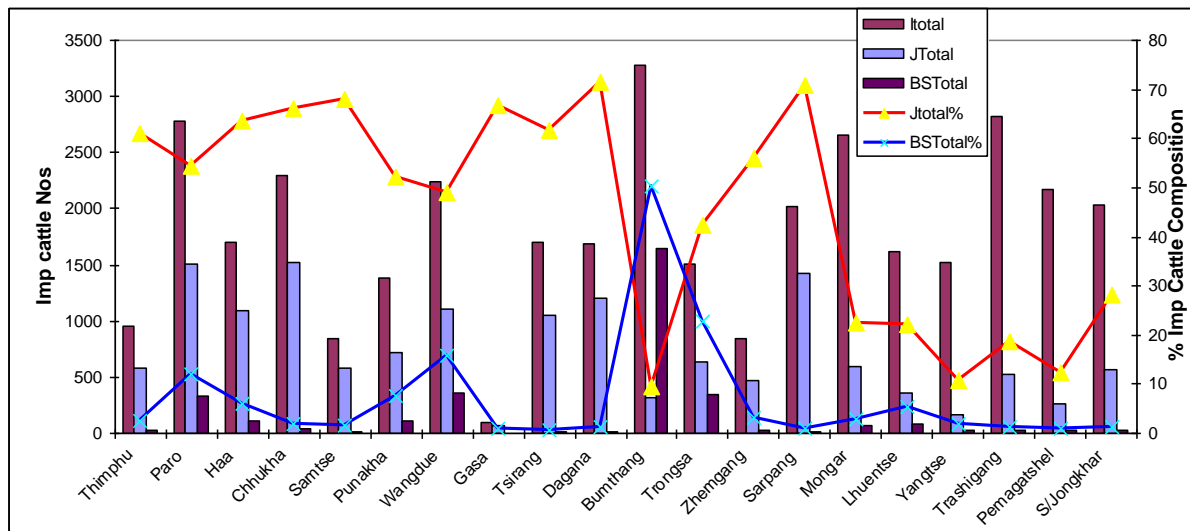


Chart 4: Composition of improved cattle in 2000

	Local Buffalo				Improved Buffalo				Total
	Adult		Calf		Adult		Calf		
	Male	Female	Male	Female	Male	Female	Male	Female	
Dzongkhag									
Haa	13	22	5	5	1	0	0	0	46
Chhukha	11	37	10	9	0	0	0	0	67
Samtse	222	264	105	93	11	30	7	10	742
Tsirang	54	183	46	56	5	25	9	5	383
Dagana	15	59	20	13	0	0	0	0	107
Sarpang	44	201	38	68	60	13	0	0	424
S/Jongkhar	5	8	0	2	3	8	1	1	28
National	363	774	225	248	81	77	18	16	1802

Table 4: Local and Improved Buffalo by Age and Sex in 2000

Dzongkhag	Male	Female	Male	Female	YP Total	Male	Female	Male	Female	YX Total	All Total	%YP	%YX
Thimphu	3,381	4,245	526	477	8,629	23	22	13	12	70	8,699	99	1
Paro	854	1,751	265	197	3,067	24	43	13	10	90	3,157	97	3
Haa	1,625	3,133	406	450	5,614	5	5	5	1	16	5,630	100	0
Chhukha	4	2	3	3	12	0	0	0	0	0	12	100	0
Punakha	4	13	0	0	17	4	2	1	0	7	24	71	29
Wangdue	1,007	1,401	290	269	2,967	27	43	5	14	89	3,056	97	3
Gasa	1,599	1,704	391	356	4,050	0	1	0	0	1	4,051	100	0
Bumthang	906	1,235	231	233	2,605	30	33	2	1	66	2,671	98	2
Mongar	9	27	0	0	36	5	5	0	0	10	46	78	22
Lhuentse	8	12	7	14	41	1	2	0	0	3	44	93	7
Yangtse	20	54	13	8	95	6	10	2	1	19	114	83	17
T/gang	961	2,083	147	202	3,393	1,586	2,282	50	58	3976	7,369	46	54
S/J	1	16	0	0	17	8	24	5	5	42	59	29	71
<b>National</b>	<b>10,379</b>	<b>15,676</b>	<b>2,279</b>	<b>2,209</b>	<b>30,543</b>	<b>1,719</b>	<b>2,472</b>	<b>96</b>	<b>102</b>	<b>4,389</b>	<b>34,932</b>	<b>87</b>	<b>13</b>

Table 5: Pure and Cross Yak by Age and Sex in 2000

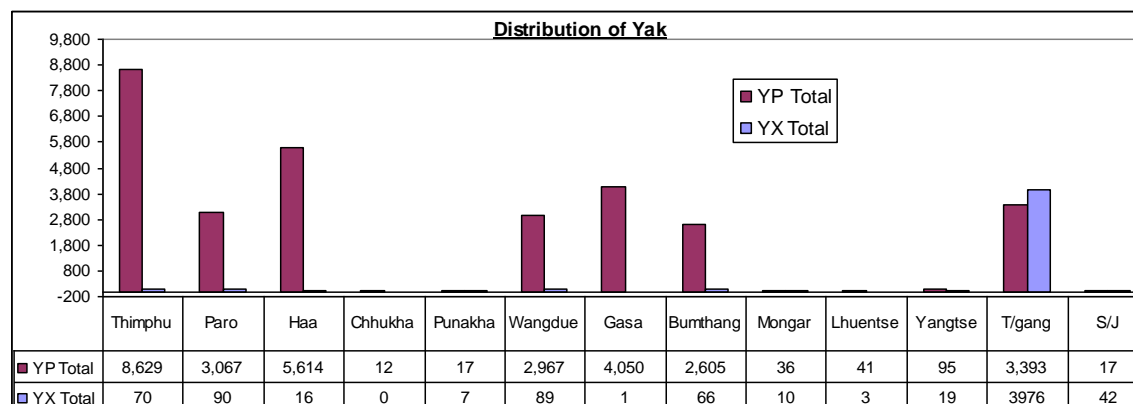


Chart 5: Distribution of yaks in 2000

Dzongkhag	Local Horse					Improved Horse				
	Adult		Foal		LHTotal	Adult		Foal		IHTotal
	Male	Female	Male	Female		Male	Female	Male	Female	
T/phu	495	399	21	22	937	11	13	6	1	31
Paro	492	520	24	14	1050	16	14	1	1	32
Haa	442	306	23	22	793	12	5	0	0	17
C/kha	281	251	20	22	574	8	8	0	1	17
Samtse	105	79	14	10	208	1	0	0	0	1
<b>SubtotalW</b>	<b>1815</b>	<b>1555</b>	<b>102</b>	<b>90</b>	<b>3562</b>	<b>48</b>	<b>40</b>	<b>7</b>	<b>3</b>	<b>98</b>
P/kha	476	493	24	11	1004	13	3	0	0	16
W/due	855	717	42	40	1654	32	33	2	1	68
Gasa	290	69	7	5	371	7	1	0	0	8
Tsirang	143	172	12	7	334	1	1	0	1	3
Dagana	168	170	18	23	379	0	3	0	0	3
<b>SubtotalWC</b>	<b>1932</b>	<b>1621</b>	<b>103</b>	<b>86</b>	<b>3742</b>	<b>53</b>	<b>41</b>	<b>2</b>	<b>2</b>	<b>98</b>
B/thang	419	551	68	68	1106	56	112	15	11	194
T/sa	116	196	19	17	348	13	24	0	4	41
Z/gang	763	592	31	25	1411	13	8	1	0	22
S/pang	215	220	22	11	468	1	4	0	0	5
<b>SubtotalEC</b>	<b>1513</b>	<b>1559</b>	<b>140</b>	<b>121</b>	<b>3333</b>	<b>83</b>	<b>148</b>	<b>16</b>	<b>15</b>	<b>262</b>
Mongar	974	998	60	32	2064	28	25	4	2	59
L/tse	681	879	59	49	1668	47	46	3	4	100
Y/tse	523	1,060	50	30	1663	38	38	10	4	90
T/gang	2,112	1,957	69	62	4200	38	20	3	3	64
P/gatshel	148	315	3	8	474	3	1	0	0	4
S/khar	927	806	45	34	1812	21	8	1	1	31
<b>SubtotalE</b>	<b>5365</b>	<b>6015</b>	<b>286</b>	<b>215</b>	<b>11881</b>	<b>175</b>	<b>138</b>	<b>21</b>	<b>14</b>	<b>348</b>
<b>National</b>	<b>10625</b>	<b>10750</b>	<b>631</b>	<b>512</b>	<b>22518</b>	<b>359</b>	<b>367</b>	<b>46</b>	<b>34</b>	<b>806</b>

Table 6:Local and Improved Horse by Age and Sex in 2000

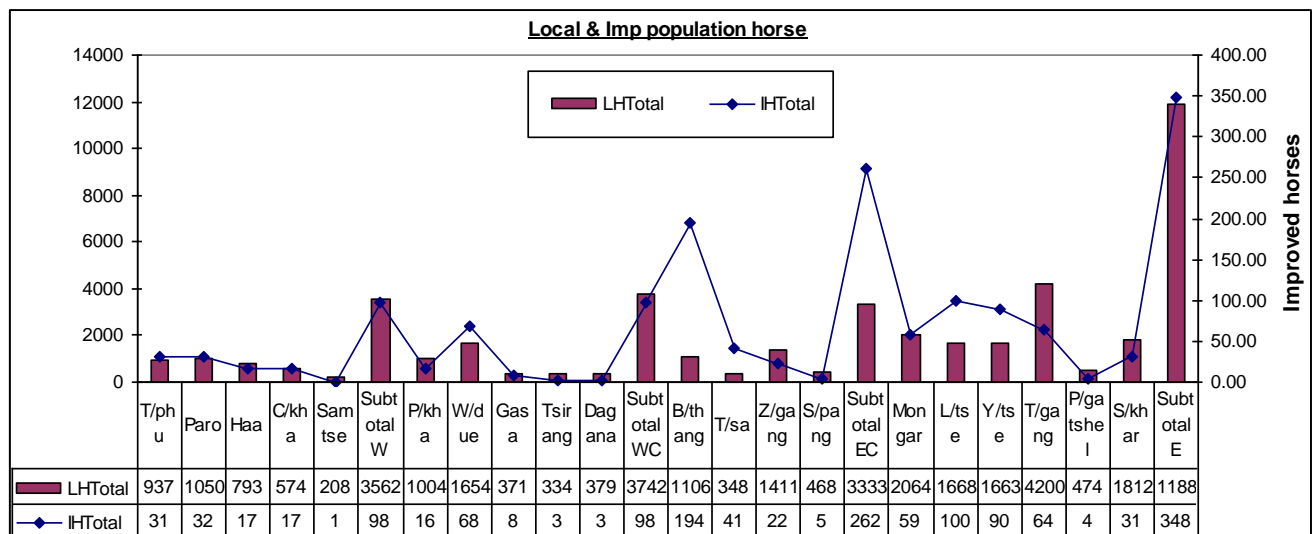


Chart 6:Local & Improved Horse distribution in 2000

	<b>Donkey</b>					
	<b>Mule</b>		<b>Local</b>		<b>Improved</b>	
	Local	Improved	Male	Female	Male	Female
<b>Dzongkhag</b>						
T/phu	75	0	0	2	0	0
Paro	145	1	3	4	0	0
Haa	502	28	13	13	0	0
C/kha	40	16	6	4	0	0
Samtse	100	0	2	0	0	0
<b>SubtotalW</b>	<b>862</b>	<b>45</b>	<b>24</b>	<b>23</b>	<b>0</b>	<b>0</b>
P/kha	38	4	1	2	0	0
W/due	74	4	10	10	0	0
Gasa	259	5	3	0	0	1
Tsirang	9	0	0	1	0	0
Dagana	33	0	6	2	1	0
<b>SubtotalWC</b>	<b>413</b>	<b>13</b>	<b>20</b>	<b>15</b>	<b>1</b>	<b>1</b>
B/thang	105	2	6	2	0	0
T/sa	44	6	5	0	1	0
Z/gang	222	8	7	5	2	0
S/pang	7	0	0	2	0	0
<b>SubtotalEC</b>	<b>378</b>	<b>16</b>	<b>18</b>	<b>9</b>	<b>3</b>	<b>0</b>
Mongar	473	32	3	15	5	5
L/tse	140	20	15	4	3	0
Y/tse	215	1	7	9	3	0
T/gang	703	15	15	26	1	0
P/gatshel	401	7	18	17	2	0
S/khar	527	9	10	12	0	0
<b>SubtotalE</b>	<b>2459</b>	<b>84</b>	<b>68</b>	<b>83</b>	<b>14</b>	<b>5</b>
<b>National</b>	<b>4112</b>	<b>158</b>	<b>130</b>	<b>130</b>	<b>18</b>	<b>6</b>

Table 7: Local and Improved Mules and Donkeys by Sex in 2000

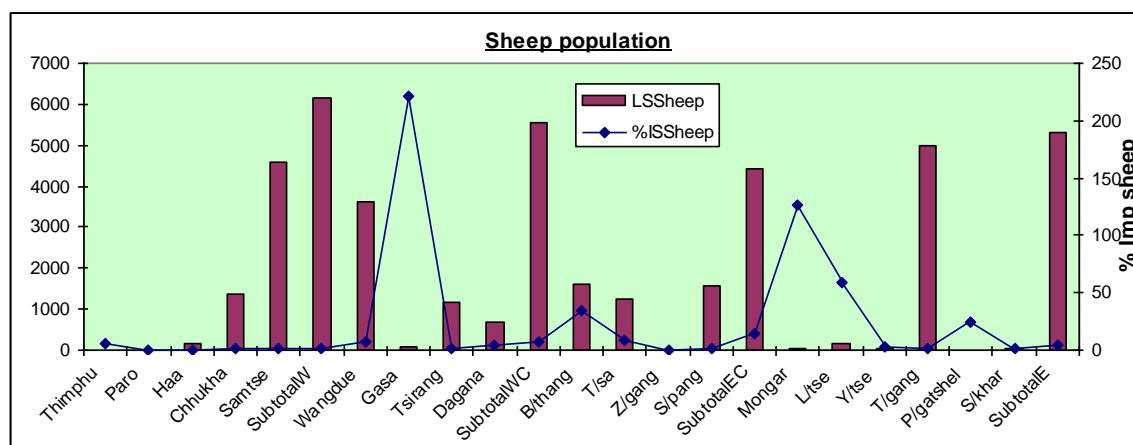


Chart 7: Local &amp; Improved Sheep distribution in 2000

	Local Sheep				LSSheep	Improved Sheep				ISSheep	%ISSheep
	Adult		Lamb			Adult		Lamb			
Dzongkhag	Male	Female	Male	Female		Male	Female	Male	Female		
Thimphu	8	6	1	2	17	1	0	0	0	1	6
Paro	9	7	0	0	16	0	0	0	0	0	0
Haa	64	109	0	0	173	0	0	0	0	0	0
Chhukha	211	702	227	223	1363	4	4	0	3	11	1
Samtse	767	2,614	611	601	4593	6	33	16	11	66	1
<b>SubtotalW</b>	<b>1059</b>	<b>3438</b>	<b>839</b>	<b>826</b>	<b>6162</b>	<b>11</b>	<b>37</b>	<b>16</b>	<b>14</b>	<b>78</b>	<b>1</b>
Wangdue	1,280	2,010	155	189	3634	86	150	2	12	250	7
Gasa	17	31	11	2	61	55	52	21	7	135	221
Tsirang	301	652	113	100	1166	3	13	6	1	23	2
Dagana	147	415	79	61	702	16	14	1	0	31	4
<b>SubtotalWC</b>	<b>1,745</b>	<b>3,108</b>	<b>358</b>	<b>352</b>	<b>5,563</b>	<b>160</b>	<b>229</b>	<b>30</b>	<b>20</b>	<b>439</b>	<b>8</b>
B/thang	724	710	77	86	1597	230	261	25	34	550	34
T/sa	585	537	61	51	1234	48	43	5	7	103	8
Z/gang	4	3	0	0	7	0	0	0	0	0	0
S/pang	289	878	180	230	1577	6	3	0	3	12	1
<b>SubtotalEC</b>	<b>1602</b>	<b>2128</b>	<b>318</b>	<b>367</b>	<b>4415</b>	<b>284</b>	<b>307</b>	<b>30</b>	<b>44</b>	<b>665</b>	<b>15</b>
Mongar	20	25	1	0	46	23	29	1	5	58	126
L/tse	65	89	11	11	176	17	76	2	8	103	59
Y/tse	18	27	1	0	46	1	0	0	0	1	2
T/gang	1,346	2,910	367	353	4976	25	27	8	13	73	1
P/gatshel	7	9	0	0	16	2	2	0	0	4	25
S/khar	16	39	2	2	59	1	0	0	0	1	2
<b>SubtotalE</b>	<b>1472</b>	<b>3099</b>	<b>382</b>	<b>366</b>	<b>5319</b>	<b>69</b>	<b>134</b>	<b>11</b>	<b>26</b>	<b>240</b>	<b>5</b>
<b>National</b>	<b>5877</b>	<b>11774</b>	<b>1902</b>	<b>1911</b>	<b>21464</b>	<b>525</b>	<b>706</b>	<b>87</b>	<b>103</b>	<b>1421</b>	<b>7</b>

Table 8: Local and Improved Sheep by Age and Sex in 2000

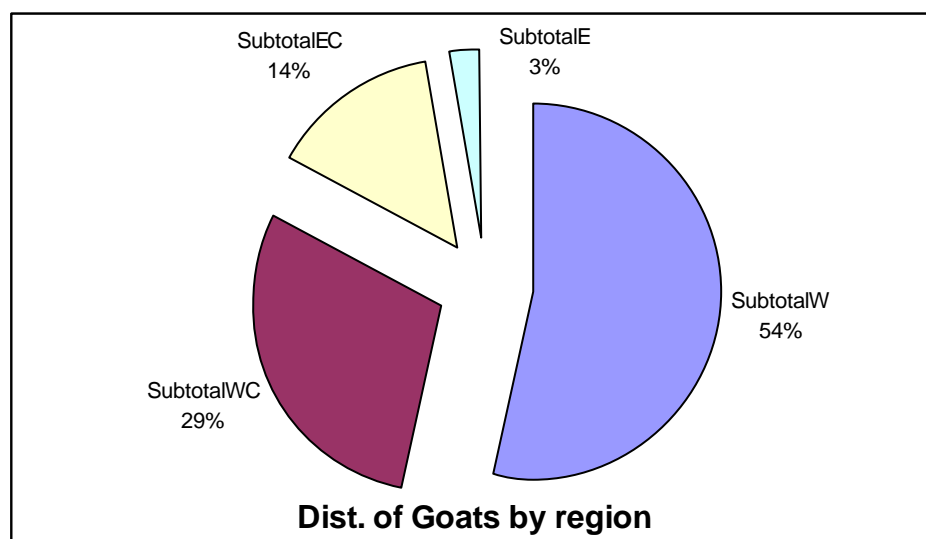


Chart 8: Local and Improved Goat distribution

	Local Goat				Improved Goat				Total
	Adult		Kid		Adult		Kid		
	Male	Female	Male	Female	Male	Female	Male	Female	
<b>Dzongkhag</b>									
T/phu	1	4	0	1	0	0	0	0	6
Paro	15	37	6	1	0	0	0	0	59
Haa	5	4	2	0	0	0	0	0	11
C/kha	1,378	2,623	978	723	6	17	10	4	5739
Samtse	2,048	5,318	1,869	1,514	21	88	41	17	10916
<b>SubtotalW</b>	<b>3447</b>	<b>7986</b>	<b>2855</b>	<b>2239</b>	<b>27</b>	<b>105</b>	<b>51</b>	<b>21</b>	<b>16731</b>
P/kha	8	7	0	0	0	0	0	0	15
W/due	36	79	14	9	0	2	0	0	140
Tsirang	1,717	2,560	666	472	13	8	4	1	5441
Dagana	777	1,855	520	458	0	1	0	1	3612
<b>SubtotalWC</b>	<b>2538</b>	<b>4501</b>	<b>1200</b>	<b>939</b>	<b>13</b>	<b>11</b>	<b>4</b>	<b>2</b>	<b>9208</b>
B/thang	8	20	0	0	0	0	0	0	28
T/sa	1	4	1	1	0	0	0	0	7
Z/gang	18	78	8	7	0	0	0	0	111
S/pang	1,143	2,118	623	458	7	12	5	3	4369
<b>SubtotalEC</b>	<b>1170</b>	<b>2220</b>	<b>632</b>	<b>466</b>	<b>7</b>	<b>12</b>	<b>5</b>	<b>3</b>	<b>4515</b>
Mongar	113	182	17	29	0	0	0	0	341
L/tse	1	4	1	0	0	0	0	0	6
Y/tse	9	26	2	10	0	0	0	0	47
T/gang	34	53	6	11	0	0	0	0	104
P/gatshel	27	52	2	9	0	0	0	0	90
S/khar	70	121	48	42	0	0	0	0	281
<b>SubtotalE</b>	<b>254</b>	<b>438</b>	<b>76</b>	<b>101</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>869</b>
<b>National</b>	<b>7411</b>	<b>15145</b>	<b>4765</b>	<b>3745</b>	<b>48</b>	<b>128</b>	<b>61</b>	<b>27</b>	<b>31330</b>

Table 9: Local and Improved Goat by Age and Sex in 2000

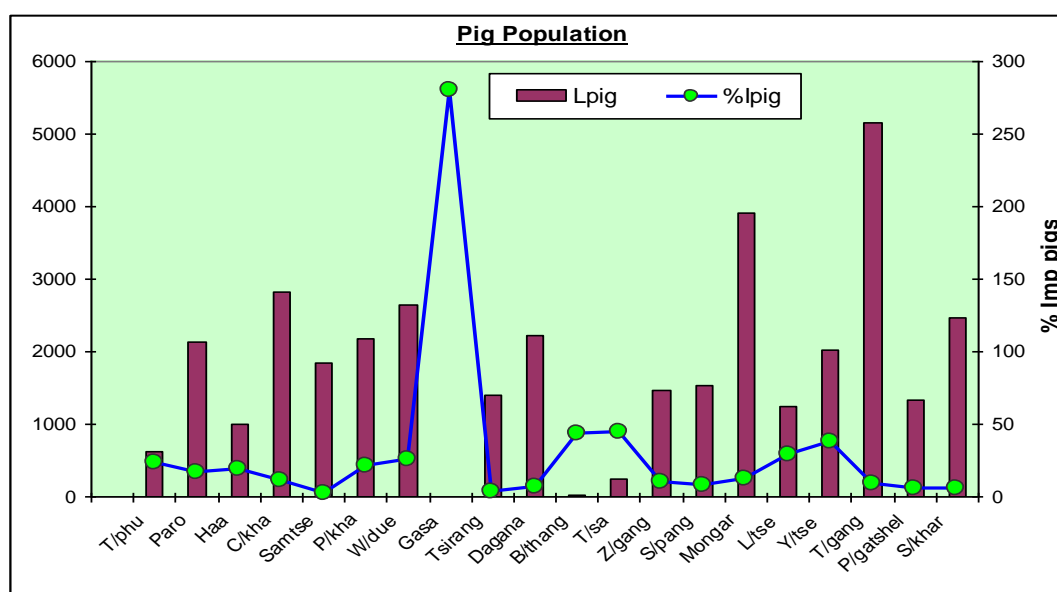


Chart 9: Local and Improved Pig distribution in 2000

<i>Dzongkhag</i>	<i>Local Pig</i>				<i>Improved Pig</i>				<i>%lpig</i>
	<i>Adult</i>		<i>Piglets</i>	<i>Lpig</i>	<i>Adult</i>		<i>Piglets</i>	<i>lpig</i>	
	<i>Male</i>	<i>Female</i>			<i>Male</i>	<i>Female</i>			
T/phu	260	297	62	619	71	65	5	141	23
Paro	868	1,128	147	2143	125	205	37	367	17
Haa	417	485	88	990	73	86	29	188	19
C/kha	1,326	1,000	505	2831	160	105	58	323	11
Samtse	969	537	331	1837	24	15	9	48	3
P/kha	899	1,125	152	2176	171	232	61	464	21
W/duie	1,040	1,320	276	2636	262	336	70	668	25
Gasa	4	5	1	10	11	17	0	28	280
Tsirang	717	514	174	1405	19	22	5	46	3
Dagana	826	953	447	2226	50	81	21	152	7
B/thang	7	14	0	21	4	5	0	9	43
T/sa	88	120	34	242	40	61	6	107	44
Z/gang	636	602	235	1473	62	54	29	145	10
S/pang	859	403	261	1523	84	24	8	116	8
Mongar	1,672	1,826	408	3906	243	206	42	491	13
L/tse	556	564	132	1252	148	173	44	365	29
Y/tse	886	1,045	101	2032	339	353	68	760	37
T/gang	2,097	2,487	574	5158	203	257	25	485	9
P/gatshel	487	663	186	1336	41	36	2	79	6
S/khar	909	1,217	348	2474	54	66	6	126	5
<b><i>National</i></b>	15,523	16,305	4,462	36290	2,184	2,399	525	5,108	14

Table 10: Local and Improved Pig by Age and Sex in 2000

<i>Dzongkhag</i>	<i>Local Poultry</i>				<i>Improved Poultry</i>				<i>Tpoultry</i>	<i>%lpoultry</i>
	<i>Cock</i>	<i>Hen</i>	<i>Chicks</i>	<i>Lpoultry</i>	<i>Cock</i>	<i>Hen</i>	<i>Chicks</i>	<i>lpoultry</i>		
Thimphu	607	1,709	97	<b>2413</b>	53	686	0	<b>739</b>	<b>3152</b>	<b>23</b>
Paro	613	3,052	77	<b>3742</b>	111	1,212	97	<b>1420</b>	<b>5162</b>	<b>28</b>
Haa	523	2,358	263	<b>3144</b>	22	657	8	<b>687</b>	<b>3831</b>	<b>18</b>
Chhukha	3,135	6,491	9,706	<b>19332</b>	15	139	65	<b>219</b>	<b>19551</b>	<b>1</b>
Samtse	5,456	10,002	22,757	<b>38215</b>	20	101	175	<b>296</b>	<b>38511</b>	<b>1</b>
Punakha	1,631	3,691	420	<b>5742</b>	40	520	70	<b>630</b>	<b>6372</b>	<b>10</b>
Wangdue	1,875	3,832	617	<b>6324</b>	48	353	68	<b>469</b>	<b>6793</b>	<b>7</b>
Gasa	46	183	14	<b>243</b>	9	191	22	<b>222</b>	<b>465</b>	<b>48</b>
Tsirang	3,061	5,699	12,998	<b>21758</b>	23	81	47	<b>151</b>	<b>21909</b>	<b>1</b>
Dagana	3,023	5,769	8,317	<b>17109</b>	7	28	27	<b>62</b>	<b>17171</b>	<b>0</b>
Bumthang	293	1,062	65	<b>1420</b>	48	623	51	<b>722</b>	<b>2142</b>	<b>34</b>
Trongsa	636	1,922	198	<b>2756</b>	25	320	4	<b>349</b>	<b>3105</b>	<b>11</b>
Zhemgang	1,350	4,399	861	<b>6610</b>	15	50	0	<b>65</b>	<b>6675</b>	<b>1</b>
Sarpang	3,354	7,906	14,771	<b>26031</b>	22	82	23	<b>127</b>	<b>26158</b>	<b>0</b>
Mongar	4,095	11,147	1,024	<b>16266</b>	190	1,001	106	<b>1297</b>	<b>17563</b>	<b>7</b>
Lhuentse	2,200	5,971	491	<b>8662</b>	90	670	154	<b>914</b>	<b>9576</b>	<b>10</b>
Yangtse	1,587	3,543	195	<b>5325</b>	52	465	47	<b>564</b>	<b>5889</b>	<b>10</b>
Trashigang	4,665	13,325	464	<b>18454</b>	77	779	68	<b>924</b>	<b>19378</b>	<b>5</b>
Pemagatshel	1,000	3,288	462	<b>4750</b>	50	376	13	<b>439</b>	<b>5189</b>	<b>8</b>
S/Jongkhar	2,161	8,678	1,059	<b>11898</b>	52	164	14	<b>230</b>	<b>12128</b>	<b>2</b>
<b>National</b>	<b>41,311</b>	<b>104,027</b>	<b>74,856</b>	<b>220,194</b>	<b>969</b>	<b>8,498</b>	<b>1,059</b>	<b>10,526</b>	<b>230,720</b>	<b>5</b>

Table 11: Local and Improved Poultry by Age and Sex in 2000

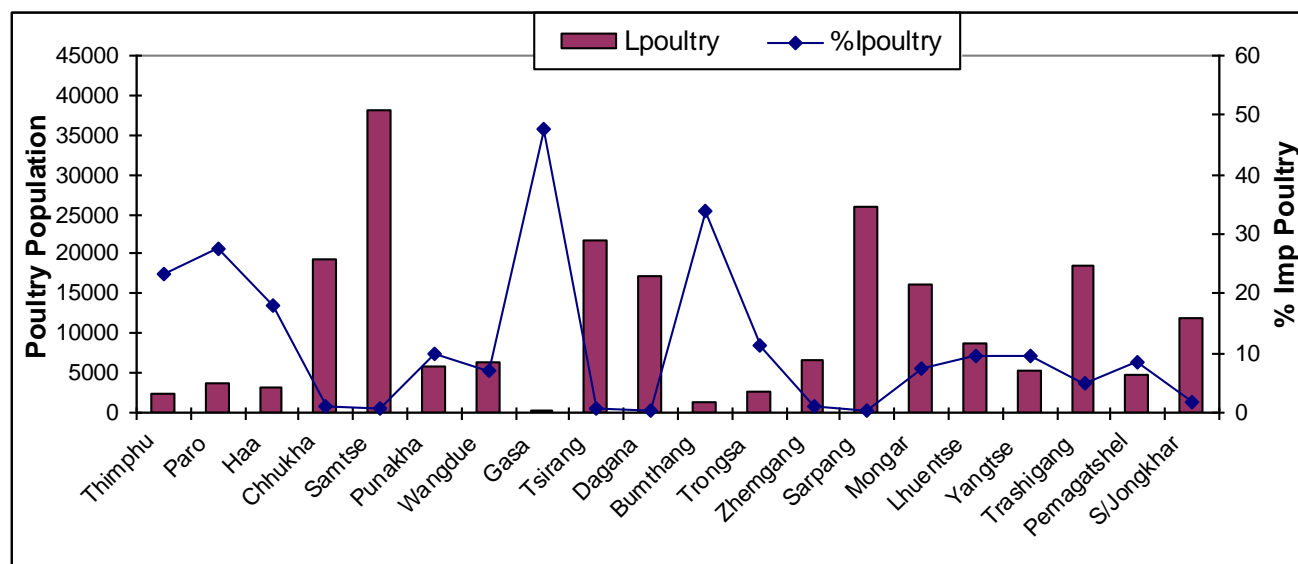


Chart 10: Local and Improved poultry distribution in 2000

Dzongkhag	Cattle	Buffalo	Yak	Horse	Sheep	Goat	Pig	Poultry
Thimphu	69.4	0	7.3	17.1	0.1	0.3	27.6	46.1
Paro	79.6	0	3.4	19.4	0.4	1	52.1	49.6
Haa	91.5	0.4	19.8	41.7	0.5	0.5	47.2	73.6
Chhukha	77.7	0.6	0.1	8.8	6.3	38.2	45.5	77.5
Samtse	75.1	2.7	0	2.2	15.3	48.4	21.8	78
Punakha	87.4	0	0.4	24.3	0	0.6	60.2	67.7
Wangdue	88.5	0	5.7	32	10.2	2.3	56.6	62.8
Gasa	56.8	0	40.9	65.2	1.5	0	10.6	37.5
Tsirang	82.3	4.5	0	8.5	11.7	63.3	34.5	77.7
Dagana	83.1	1.2	0	11.7	7.9	48.3	50.9	78.6
Bumthang	82.3	0	11	33.9	21.2	0.2	0.5	57.9
Trongsa	90	0	0	18.5	10.8	0.4	19.1	62.7
Zhemgang	87.1	0	0	50.8	0.2	3.1	45.7	73.9
Sarpang	79.9	2.7	0	8.5	8.9	33.5	25	63.3
Mongar	83.2	0	0.6	34.1	0.4	4.7	46.5	72.9
Lhuentse	78.4	0	0.8	41	1.2	0.1	40.1	78.2
Yangtse	69.7	0	0.1	37.1	0.9	0.9	49.4	47.9
Trashigang	71.4	0	5.2	31.4	6.4	0.8	39	62.1
Pemagatshel	67.3	0	0	24	0.3	2.4	25.2	50.3
S/Jongkhar	68.7	0.1	0.2	32.6	0.6	1.5	29.3	53.6
National	77.5	0.8	2.2	23.8	5.8	15.7	37.5	65.5

Table 12: Percentage of Farm HHs Owning Different Types of Livestock in 2000

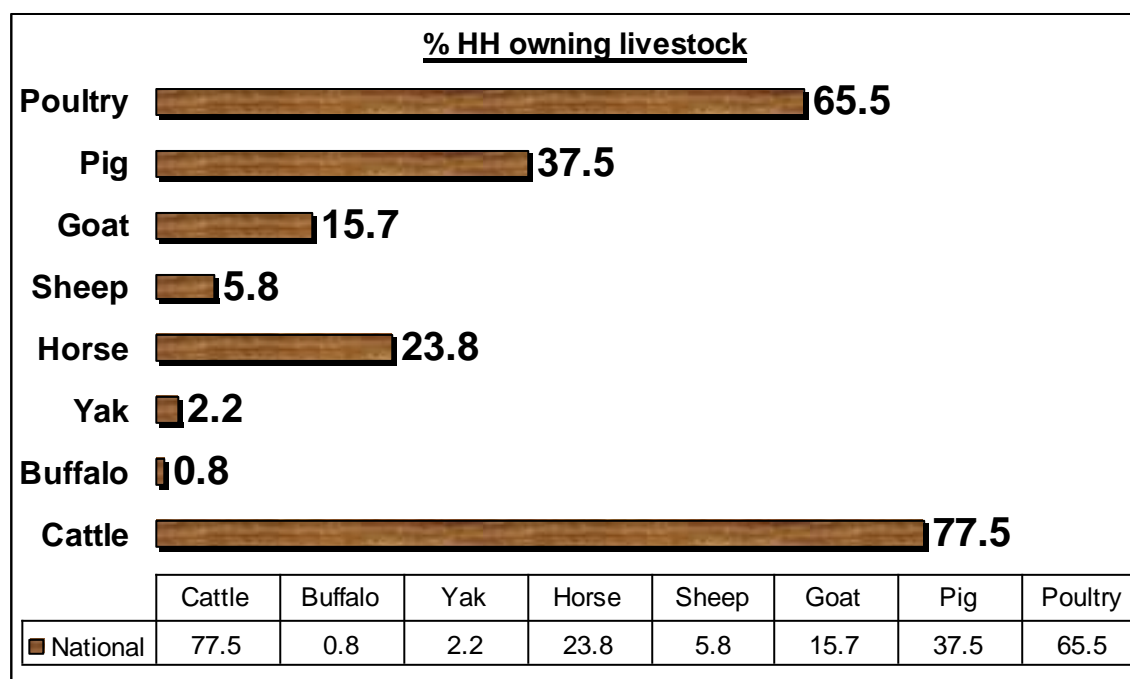


Chart 11: Percentage of Farm HHs Owning Different Types of Livestock in 2000

Dzongkhag	Local Cattle					Improved Cattle					TCMort	LTotal	Itotal	Tcattle	%LCMort	%ICMort	%AllMort
	Adult		Calf		LCMort	Adult		Calf		ICMort							
	Male	Female	Male	Female		Male	Female	Male	Female								
Thimphu	252	387	111	68	<b>818</b>	26	59	23	12	<b>120</b>	<b>938</b>	<b>6,032</b>	<b>958</b>	<b>6,990</b>	<b>14</b>	<b>13</b>	<b>13</b>
Paro	295	278	81	53	<b>707</b>	35	99	41	26	<b>201</b>	<b>908</b>	<b>9,324</b>	<b>2778</b>	<b>12,102</b>	<b>8</b>	<b>7</b>	<b>8</b>
Haa	201	309	104	80	<b>694</b>	33	51	36	37	<b>157</b>	<b>851</b>	<b>7,931</b>	<b>1707</b>	<b>9,638</b>	<b>9</b>	<b>9</b>	<b>9</b>
Chhukha	428	782	253	224	<b>1687</b>	24	72	42	36	<b>174</b>	<b>1861</b>	<b>22,568</b>	<b>2302</b>	<b>24,870</b>	<b>7</b>	<b>8</b>	<b>7</b>
Samtse	586	884	324	290	<b>2084</b>	15	37	15	13	<b>80</b>	<b>2164</b>	<b>28,493</b>	<b>850</b>	<b>29,343</b>	<b>7</b>	<b>9</b>	<b>7</b>
Punakha	601	540	194	102	<b>1437</b>	52	71	20	15	<b>158</b>	<b>1595</b>	<b>10,746</b>	<b>1379</b>	<b>12,125</b>	<b>13</b>	<b>11</b>	<b>13</b>
Wangdue	728	856	247	226	<b>2057</b>	80	106	48	52	<b>286</b>	<b>2343</b>	<b>18,650</b>	<b>2243</b>	<b>20,893</b>	<b>11</b>	<b>13</b>	<b>11</b>
Gasa	52	57	11	7	<b>127</b>	1	5	0	1	<b>7</b>	<b>134</b>	<b>767</b>	<b>96</b>	<b>863</b>	<b>17</b>	<b>7</b>	<b>16</b>
Tsirang	249	280	98	85	<b>712</b>	22	62	13	11	<b>108</b>	<b>820</b>	<b>13,000</b>	<b>1696</b>	<b>14,696</b>	<b>5</b>	<b>6</b>	<b>6</b>
Dagana	294	395	161	141	<b>991</b>	22	96	27	21	<b>166</b>	<b>1157</b>	<b>12,604</b>	<b>1691</b>	<b>14,295</b>	<b>8</b>	<b>10</b>	<b>8</b>
Bumthang	192	269	66	68	<b>595</b>	69	154	72	66	<b>361</b>	<b>956</b>	<b>6,731</b>	<b>3272</b>	<b>10,003</b>	<b>9</b>	<b>11</b>	<b>10</b>
Trongsa	270	410	134	117	<b>931</b>	27	41	23	17	<b>108</b>	<b>1039</b>	<b>9,833</b>	<b>1503</b>	<b>11,336</b>	<b>9</b>	<b>7</b>	<b>9</b>
Zhemgang	465	806	197	187	<b>1655</b>	8	43	10	9	<b>70</b>	<b>1725</b>	<b>11,316</b>	<b>840</b>	<b>12,156</b>	<b>15</b>	<b>8</b>	<b>14</b>
Sarpang	460	674	221	169	<b>1524</b>	34	104	26	33	<b>197</b>	<b>1721</b>	<b>24,595</b>	<b>2016</b>	<b>26,611</b>	<b>6</b>	<b>10</b>	<b>6</b>
Mongar	706	1,724	345	289	<b>3064</b>	37	166	35	39	<b>277</b>	<b>3341</b>	<b>23,974</b>	<b>2660</b>	<b>26,634</b>	<b>13</b>	<b>10</b>	<b>13</b>
Lhuentse	231	682	171	166	<b>1250</b>	40	80	23	40	<b>183</b>	<b>1433</b>	<b>12,466</b>	<b>1622</b>	<b>14,088</b>	<b>10</b>	<b>11</b>	<b>10</b>
Yangtse	205	835	195	184	<b>1419</b>	15	61	16	13	<b>105</b>	<b>1524</b>	<b>10,982</b>	<b>1524</b>	<b>12,506</b>	<b>13</b>	<b>7</b>	<b>12</b>
Trashigang	817	2,026	364	292	<b>3499</b>	56	191	52	42	<b>341</b>	<b>3840</b>	<b>28,004</b>	<b>2822</b>	<b>30,826</b>	<b>12</b>	<b>12</b>	<b>12</b>
Pemagatshel	123	292	70	86	<b>571</b>	22	99	21	25	<b>167</b>	<b>738</b>	<b>6,392</b>	<b>2177</b>	<b>8,569</b>	<b>9</b>	<b>8</b>	<b>9</b>
S/Jongkhar	451	824	199	183	<b>1657</b>	24	102	19	19	<b>164</b>	<b>1821</b>	<b>19,934</b>	<b>2034</b>	<b>21,968</b>	<b>8</b>	<b>8</b>	<b>8</b>
<b>National</b>	<b>7,605</b>	<b>13,308</b>	<b>3,546</b>	<b>3,018</b>	<b>27477</b>	<b>641</b>	<b>1,698</b>	<b>563</b>	<b>528</b>	<b>3430</b>	<b>30907</b>	<b>284,342</b>	<b>36,170</b>	<b>320,512</b>	<b>10</b>	<b>9</b>	<b>10</b>

Table 13: Mortalities of Local and Improved Cattle by Age and Sex in 2000

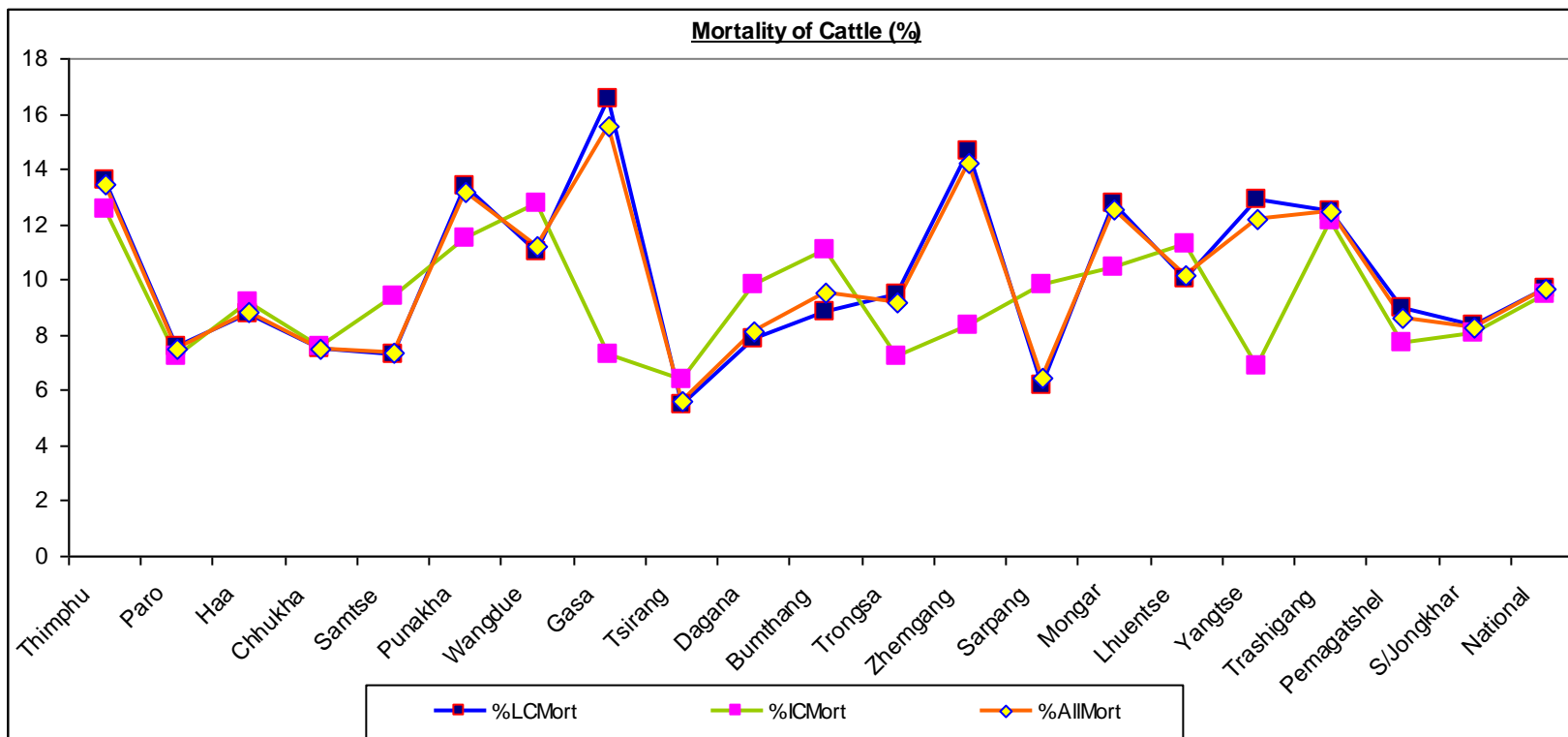


Chart 12: Mortality of cattle (%) in 2000

	Pure Yak					Cross Yak					TotalMort
	Adult		Calf		PYakMort	Adult		Calf		XYakMort	
	Male	Female	Male	Female		Male	Female	Male	Female		
Dzongkhag											
Thimphu	231	101	11	10	353	0	0	0	0	0	353
Paro	31	35	12	8	86	0	0	0	0	0	86
Haa	87	125	24	22	258	4	1	1	0	6	264
Punakha	1	1	0	0	2	0	0	0	0	0	2
Wangdue	141	139	25	20	325	9	7	0	0	16	341
Gasa	149	268	58	52	527	0	0	0	0	0	527
Bumthang	79	96	15	18	208	4	6	5	5	20	228
Mongar	0	2	0	0	2	0	0	0	0	0	2
Trashigang	83	137	26	17	263	44	75	143	100	362	625
S/Jongkhar	0	1	0	0	1	0	0	6	0	6	7
National	802	906	170	146	2024	61	88	156	105	410	2434

Table 14: Mortalities of Pure and Cross Yak by Age and Sex in 2000

Dzongkhag	Local Horse					Improved Horse					LHTotal	IHTotal	%LHMort	%IHMort
	Adult		Foal		LHMort	Adult		Foal		IHMort				
	Male	Female	Male	Female		Male	Female	Male	Female					
T/phu	14	11	3	2	30	0	0	0	0	0	937	31	3	0
Paro	9	20	8	2	39	0	0	0	0	0	1050	32	4	0
Haa	41	20	2	0	63	0	0	0	0	0	793	17	8	0
C/kha	27	18	4	1	50	2	3	0	0	5	574	17	9	29
Samtse	18	17	1	1	37	0	0	0	0	0	208	1	18	0
<b>SubtotalW</b>	<b>109</b>	<b>86</b>	<b>18</b>	<b>6</b>	<b>219</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>3562</b>	<b>98</b>	<b>6</b>	<b>5</b>
P/kha	25	37	0	7	69	0	0	2	0	2	1004	16	7	13
W/due	39	51	18	14	122	2	0	4	0	6	1654	68	7	9
Gasa	25	9	2	0	36	0	0	0	0	0	371	8	10	0
Tsirang	9	9	1	0	19	0	0	0	0	0	334	3	6	0
Dagana	33	27	4	1	65	0	0	0	0	0	379	3	17	0
<b>SubtotalWC</b>	<b>131</b>	<b>133</b>	<b>25</b>	<b>22</b>	<b>311</b>	<b>2</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>8</b>	<b>3742</b>	<b>98</b>	<b>8</b>	<b>8</b>
B/thang	36	51	24	12	123	2	8	1	2	13	1106	194	11	7
T/sa	17	29	9	3	58	1	0	0	0	1	348	41	17	2
Z/gang	72	52	9	10	143	0	0	0	0	0	1411	22	10	0
S/pang	6	15	4	1	26	0	0	0	0	0	468	5	6	0
<b>SubtotalEC</b>	<b>131</b>	<b>147</b>	<b>46</b>	<b>26</b>	<b>350</b>	<b>3</b>	<b>8</b>	<b>1</b>	<b>2</b>	<b>14</b>	<b>3333</b>	<b>262</b>	<b>11</b>	<b>5</b>
Mongar	44	54	13	5	116	5	1	1	1	8	2064	59	6	14
L/tse	30	31	9	2	72	2	3	0	0	5	1668	100	4	5
Y/tse	19	39	8	4	70	0	1	0	1	2	1663	90	4	2
T/gang	107	106	11	9	233	3	3	2	0	8	4200	64	6	13
P/gatshel	7	24	0	3	34	0	0	0	0	0	474	4	7	0
S/khar	37	24	1	0	62	2	0	0	0	2	1812	31	3	6
<b>SubtotalE</b>	<b>244</b>	<b>278</b>	<b>42</b>	<b>23</b>	<b>587</b>	<b>12</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>25</b>	<b>11881</b>	<b>348</b>	<b>5</b>	<b>7</b>
<b>National</b>	<b>615</b>	<b>645</b>	<b>131</b>	<b>79</b>	<b>1470</b>	<b>20</b>	<b>19</b>	<b>11</b>	<b>5</b>	<b>55</b>	<b>22518</b>	<b>806</b>	<b>7</b>	<b>7</b>

Table 15: Mortalities of Local and Improved Horse by Age and Sex in 2000

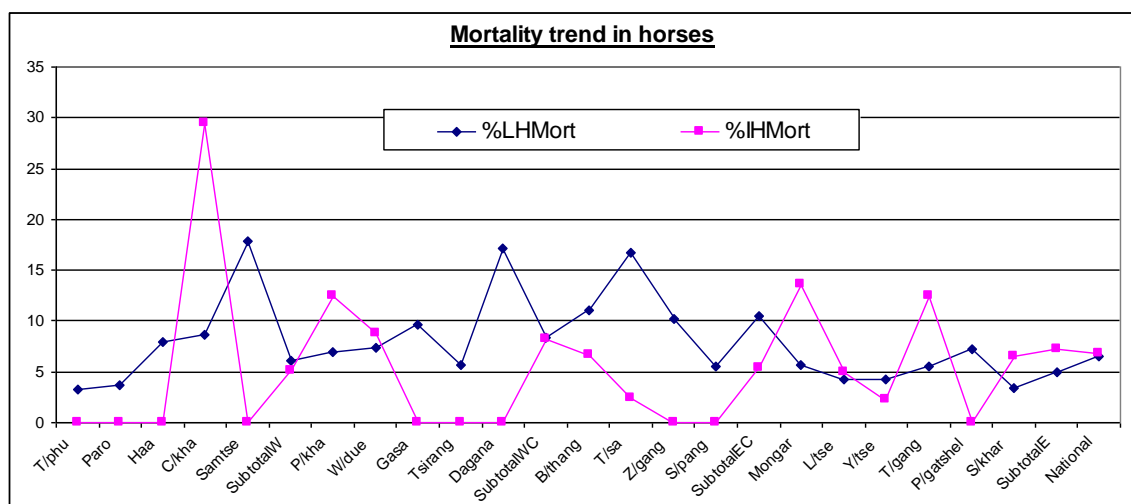


Chart 13: Mortality in horses in 2000

Dzongkhag	Local Pig				Improved Pig				AllDeath	Lpig	Ipig	%Lpig Mort	%Ipig Mort
	Adult		Piglets	LPDead	Adult		Piglets	IPDead					
	Male	Fem			Male	Fem							
T/phu	24	17	0	41	6	2	5	13	54	619	141	7	9
Paro	87	55	13	155	23	15	1	39	194	2143	367	7	11
Haa	55	33	5	93	9	13	3	25	118	990	188	9	13
C/kha	174	69	44	287	20	4	16	40	327	2831	323	10	12
Samtse	124	59	17	200	5	0	1	6	206	1837	48	11	13
P/kha	69	59	16	144	14	20	16	50	194	2176	464	7	11
W/duie	54	52	21	127	19	4	19	42	169	2636	668	5	6
Gasa	0	2	0	2	0	1	0	1	3	10	28	20	4
Tsirang	109	75	8	192	3	3	0	6	198	1405	46	14	13
Dagana	81	59	47	187	6	8	4	18	205	2226	152	8	12
B/thang	0	0	0	0	4	2	2	8	8	21	9	0	89
T/isa	8	6	2	16	1	5	0	6	22	242	107	7	6
Z/gang	106	117	18	241	7	2	1	10	251	1473	145	16	7
S/pang	84	20	9	113	0	2	0	2	115	1523	116	7	2
Mongar	122	124	23	269	23	21	0	44	313	3906	491	7	9
L/tse	33	15	13	61	4	6	0	10	71	1252	365	5	3
Y/tse	28	42	7	77	6	7	10	23	100	2032	760	4	3
T/gang	312	217	115	644	33	28	11	72	716	5158	485	12	15
P/gatshel	39	29	19	87	14	11	0	25	112	1336	79	7	32
S/khar	63	63	1	127	2	4	0	6	133	2474	126	5	5
<b>National</b>	<b>1574</b>	<b>1113</b>	<b>378</b>	<b>3065</b>	<b>200</b>	<b>158</b>	<b>92</b>	<b>450</b>	<b>3515</b>	<b>36290</b>	<b>5,108</b>	<b>8</b>	<b>9</b>

Table 16: Mortalities of Local and Improved Pig by Age and Sex in 2000

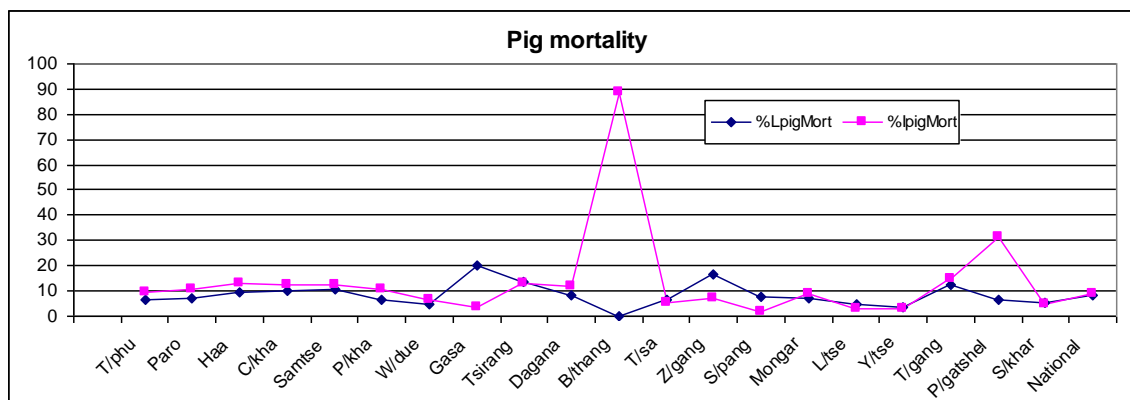


Chart 14: Mortalities of Local and Improved Pig in 2000

Dzongkhag	Mule	Donkey		Sheep		Total
		Male	Female	Male	Female	
Thimphu	4	0	0	0	0	
Paro	2	0	0	0	0	
Haa	7	0	0	0	0	
Chhukha	0	0	0	45	39	
Samtse	12	0	8	202	296	
Punakha	4	1	1	0	0	
Wangdue	0	0	1	89	91	
Gasa	7	0	0	11	27	
Tsirang	0	0	0	46	25	
Dagana	3	0	1	27	37	
Bumthang	4	0	1	174	161	
Trongsa	5	0	0	32	32	
Zhemgang	7	0	0	2	1	
Sarpang	0	3	2	61	101	
Mongar	17	4	1	11	8	
Lhuentse	3	2	0	42	72	
Yangtse	5	0	0	6	6	
Trashigang	10	0	0	172	246	
Pemagatshel	9	3	1	0	0	
S/Jongkhar	6	0	0	2	2	
National	105	13	17	923	1,147	

Table 17: Death of Mule, Donkey, Sheep in 2000

PoultryMort	Tpoultry	%PoulMort
298	3152	9
389	5162	8
386	3831	10
4,297	19551	22
7,511	38511	20
626	6372	10
464	6793	7
58	465	12
3,070	21909	14
2,371	17171	14
235	2142	11
443	3105	14
1,032	6675	15
5,674	26158	22
1,677	17563	10
526	9576	5
293	5889	5
1,237	19378	6
285	5189	5
674	12128	6
31,544	230720	14

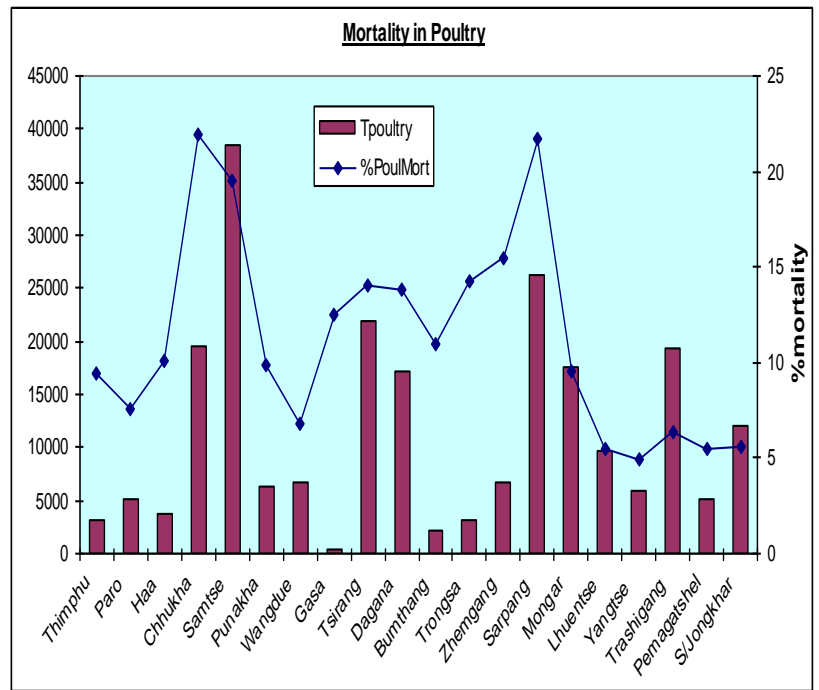


Chart 15 : Mortality in poultry

Table 18: Mortality in poultry in 2000

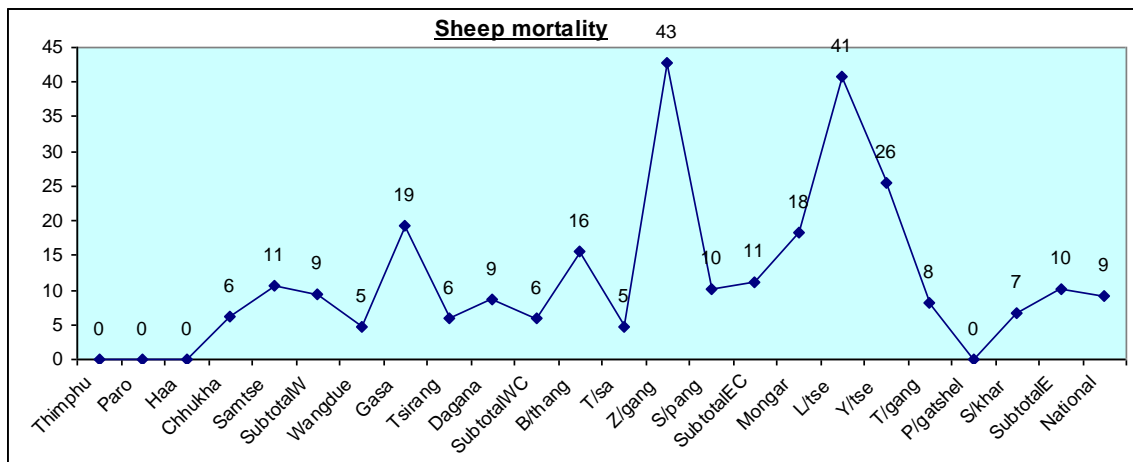


Chart 16: Mortality in sheep in 2000

	Tsadrok		Improved Pasture		Fodder Collected	
	%holders	Tsa AC	%holders	Imp AC	%holders	Amount collected (HLs)
Dzongkhag						
Thimphu	3.5	75,303	1.4	42	11.2	46,614
Paro	3.5	4,366	2.5	42	24.3	125,653
Haa	12.2	13,632	19.4	117	64.1	133,984
Chhukha	13.7	28,943	1.7	101	88.1	959,533
Samtse	8.7	7,543	0.9	228	67.3	995,252
Punakha	2.7	5,121	0.9	10	22.7	52,200
Wangdue	11.8	48,025	3.1	38	26.6	97,378
Gasa	22	5,123	5.7	8	48.5	20,602
Tsirang	1.2	<100	0.3	6	51	300,094
Dagana	2.9	1,706	0.2	5	56.5	368,118
Bumthang	10.6	14,726	21.3	217	2.4	3,495
Trongsa	11.8	3,800	10.3	86	25.6	60,981
Zhemgang	6.6	7,335	0.6	14	25.3	56,350
Sarpang	0.9	138	0.2	22	36.8	335,564
Mongar	3.4	907	0.6	17	51.8	280,185
Lhuentse	7.5	1,953	0.2	3	24.9	20,224
Yangtse	2.1	355			15.2	16,561
Trashigang	4.8	209,105	0	0	37.1	412,214
Pemagatshel	0.6	<100	0.8	10	43.1	159,401
S/Jongkhar	0.4	<100	0.1	2	34	308,765
National	5.3	428,242	1.7	967	41.5	4,753,170

Table 19: Fodder situation in 2000

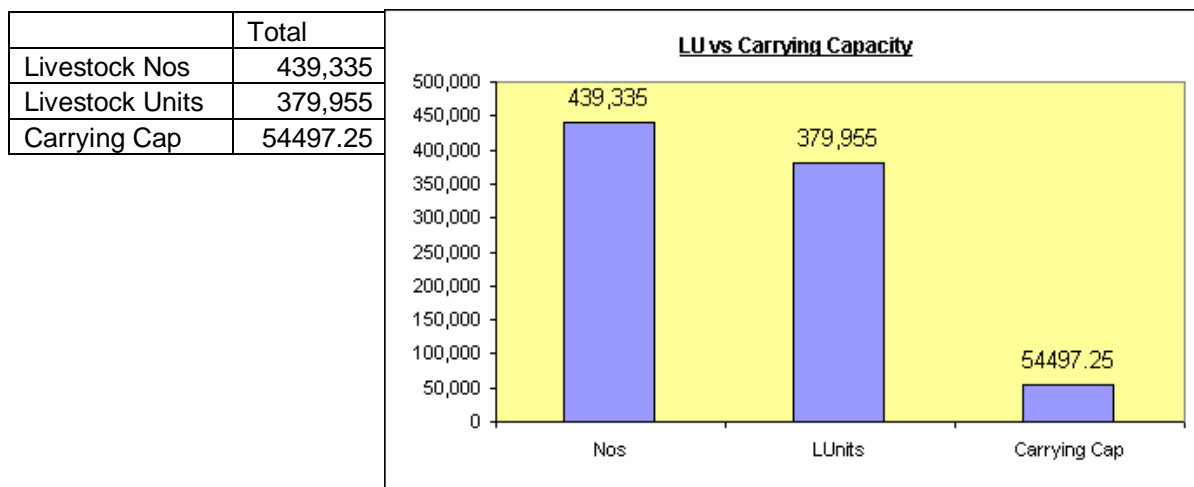


Chart 17: Livestock units Vs carrying capacity in 2000

## 3.2 Data pertaining to year 2005

S.No	Number of geogs	Dzongkhag	Local cattle (Nublang)						
			Young		Heifer	Milch	Dry	BrBull	Bullock
			M	F					
1	12	Tsirang	919	805	1296	967	1341	8	3593
2	16	Mongar	2219	1542	2948	2195	3118	296	2467
3	4	Bumthang	413	514	700	783	1693	77	1295
4	8	Lhuentse	1279	1012	1505	1639	2076	97	1294
5	11	Chukha	2622	2758	3286	3520	5312	807	5261
6	5	Ha	828	1019	1078	2036	1052	31	1702
7	8	Zhemgang	554	494	1943	1005	1714	977	1060
8	16	Samtse	5291	5464	5471	4972	4341	3436	4759
9	11	Dagana	2425	4922		1858			
10	11	S/Jongkhar	1333	912	2435	2194	2591	232	3103
11	10	Paro	996	1146	1487	1851	2170	996	2171
12	15	Wangdue	1902	1665	2497	2941	3247	324	3083
13	9	Punakha	991	758	1078	1149	1369	332	2332
14	7	P/gatshel	277	175	571	294	510	24	635
15	4	Gasa	7	13	22	19	14	0	4305
16	15	Sarpang	1944	1846	3562	2466	3909	321	6563
17	16	T/gang	1582	1492	2635	2553	2620	238	1410
18	8	Yangtse	929	886	1506	1418	2133	146	1121
19	5	Trongsa	650	659	862	1217	1395	572	1380
20	10	Thimphu	706	1179	371	466	460	108	648
<b>Total</b>	<b>201</b>	<b>20</b>	<b>27867</b>	<b>29261</b>	<b>35253</b>	<b>35543</b>	<b>41065</b>	<b>9022</b>	<b>48182</b>
							Total		226193

Table 20: Local cattle - Nublang in 2005

Dzongkhag	Mithun Pure							Mithun cross (SX)						
	Young		Heifer	Milch	Dry	BrBull	Bullock	Young		Heifer	Milch	Dry	BrBull	Bullock
	M	F						M	F					
Tsirang								4	7	9	7	6		10
Mongar	6	10	11	18	18	19	5	658	560	1125	2184	1633	51	2090
Bumthang	0	0	0	0	0	4	0	56	100	197	283	294	6	140
Lhuentse					2	36	3	201	191	349	693	694		847
Chukha	5	9	7	6	2	11	7	334	345	397	577	728	30	565
Ha	0	0	0	0	0	0	0	216	338	208	547	215	0	408
Zhemgang								195	199	471	727	1303		1079
Samtse	2444	0	0	0	0	1	0	0	0	0	0	0	1	0
Dagana								552	688					
S/Jongkhar	110	14	122	231	147	95	0	332	212	705	825	803	0	948
Paro	0	3	0	4	7	2	0	208	219	317	429	461	8	602
Wangdue						9		279	355	406	812	651	64	917
Punakha	0	0	0	0	0	5	0	142	112	181	244	256	86	482
P/gatshel	9	0	1	0	0	3	0	137	133	236	285	293	9	548
Gasa														
Sarpang	0	0	0	0	0	0	0	165	126	187	240	241	40	190
T/gang	0	1	7	7	5	31	14	649	825	1410	1618	1303	200	1976
Yangtse	1	1	0	0	0	18	1	117	127	258	396	440	26	645
Trongsa						354		284	223	251	342	333		450
Thimphu	0	0	0	0	0	0	3	41	89	26			42	38
<b>20</b>	<b>2575</b>	<b>38</b>	<b>148</b>	<b>266</b>	<b>181</b>	<b>588</b>	<b>33</b>	<b>4570</b>	<b>4849</b>	<b>6733</b>	<b>10209</b>	<b>9654</b>	<b>563</b>	<b>11935</b>
								3829						48513

Table 21: Local cattle - Mithun in 2005

Number of geogs	Dzongkhag	Yak						Bullock
		Young		Heifer	Milch	Dry	Bulls	
		M	F					
4	Bumthang	356	359	353	875	605	939	
8	Lhuentse	30	56	53	112	106	99	
5	Ha	821	952	1156	2240	1178	1401	
11	S/Jongkhar	9	10	20	17	34	8	
10	Paro	721	1056	718	1321	824	183	
15	Wangdue	267	293	251	411	442	52	
4	Gasa	800	742	892	1683	789	29	
16	T/gang	1119	1163	1808	4108	691	3064	
8	Yangtse	50	47	62	144	90	12	190
10	Thimphu	1495	2567	499	2408	1148	1581	29
<b>91</b>	<b>10</b>	<b>5668</b>	<b>7245</b>	<b>5812</b>	<b>13319</b>	<b>5907</b>	<b>7368</b>	<b>219</b>
						Total		45538

Table 22: Yaks in 2005

Dzongkhag	Jersey (Pure)						Jersey (cross)							
	Young		Heifer	Milch	Dry	BrBull	Bullock	Young		Heifer	Milch	Dry	BrBull	Bullock
Tsirang								575	657	833	821	753	9	874
Mongar	15	23	30	24	18	14	5	481	580	979	1014	566	67	62
Bumthang	0	0	1	1	0	1	0	151	165	259	236	211	43	162
Lhuentse	3	6	14	8	15	4	4	201	283	353	445	376	27	164
Chukha	7	5	10	8	2	2	1	492	462	454	776	655	97	357
Ha	0	0	0	0	0	0	0	280	329	298	650	321	0	276
Zhemgang								135	167	329	227	266	116	79
Samtse	0	0	0	0	0	1	0	293	283	509	365	354	26	55
Dagana	685		1623											
S/Jongkhar	7	5	8	15	5	2	1	213	281	776	758	464	158	203
Paro	7	14	10	19	14	13	7	483	569	719	1037	1002	105	554
Wangdue	2	4	3	11		5		276	296	400	594	363	73	311
Punakha	1	5	21	6	23	2	0	179	176	275	333	275	69	272
P/gatshel	0	0	0	0	0	2	0	202	298	434	501	365	82	68
Gasa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sarpang								407	473	573	618	641	76	288
T/gang	2	2	7	3	3	7	1	596	850	1962	1466	861	507	152
Yangtse	13	12	35	32	10	13	2	224	266	361	443	366	143	145
Trongsa								267	297	352	375	297	95	264
Thimphu	51	78	71	112	61	5	56	311	706	138	187	120	34	70
<b>20</b>	<b>793</b>	<b>154</b>	<b>1833</b>	<b>239</b>	<b>151</b>	<b>71</b>	<b>77</b>	<b>5766</b>	<b>7138</b>	<b>10004</b>	<b>10846</b>	<b>8256</b>	<b>1727</b>	<b>4356</b>
						Total	3318							48093

Table 23: Improved cattle - Jersey in 2005

Dzongkhag	BS pure						BS cross						Others									
	Young	Heifer	Milch	Dry	BrBull	Bullock	Young	Heifer	Milch	Dry	BrBull	Bullock	Young	Heifer	Milch	Dry	BrBull	Bullock				
Tsirang							1	1	2	2	7			37	16	27	40	30	3	14		
Mongar	13	6	14	2	4	2	1	19	39	43	27	12	4	4	0	0	0	0	0	0		
Bumthang	0	0	0	4	2	0	0	22	0	215	381	505	461	44	476	424	0	0	0	0		
Lhuentse								40	34	44	36	50	3	29								
Chukha															3	5	2	7	3	3		
Ha	0	0	0	0	0	0	0	10	15	12	14	11	7	0	0	0	0	0	0	0		
Zhemgang								22	16	4	2	2	2	14								
Samtse	333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Dagana															18	57						
S/Jongkhar																						
Paro	51	3	0	0	0	2	0	16	20	2	2	0	2	0	0	0	0	0	0	0		
Wangdue								13	8	191	252	389	171		156					434		
Punakha	0	0	0	0	0	0	0	8	7	12	2	6	0	10	0	0	0	0	0	0		
P/gatshel	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Gasa	6	20	18	16	12	4	0	8	28	28	36	16	0	0	20	42	22	36	38	4		
Sarpang	0	0	0	0	0	0	0	41	23	23	22	2	0	1	10	9	8	26	23	0		
T/gang	0	0	0	0	0	4	0	31	20	6	46	5	2	0	0	0	0	0	0	0		
Yangtse	6	4	2	0	0	1	1	16	27	28	1	1	5	2	18	31	13	62	14	0		
Trongsa								90	118	126	127	112	21	120								
Thimphu	2	2		4	4																	
<b>20</b>	<b>424</b>	<b>35</b>	<b>34</b>	<b>26</b>	<b>22</b>	<b>13</b>	<b>2</b>	<b>66</b>	<b>0</b>	<b>754</b>	<b>963</b>	<b>1211</b>	<b>856</b>	<b>90</b>	<b>812</b>	<b>530</b>	<b>160</b>	<b>72</b>	<b>171</b>	<b>108</b>	<b>10</b>	<b>1948</b>
							556								5346							2999

Table 24: Improved cattle - BS &amp; others in 2005

Dzongkhag	Horse						Pig				Poultry			
	Local		Imp.		Mule	Donk	Local pig		Imp Pigs		Local poultry		Imp poultry	
	M	F	M	F			M	F	M	F	M	F	M	F
Tsirang	89	91	4	11	4		648	520	186	239	4069	10130	1397	2590
Mongar	972	949	68	98	531	24	1016	1141	242	319	3351	8607	184	2974
Bumthang	461	542	90	174	124	7	0	0	0	0	87	263	152	859
Lhuentse	788	915	36	37	177	15	255	278	180	255	1624	4048	117	1593
Chukha	406	312	36	28	113	17	1537	1181	315	416	4006	12764	91	460
Ha	410	0	0	0	194	0	20	27	14	23	224	0	836	0
Zhemgang	718	558	39	30	347	0	0	732	8	857	0	6769	0	901
Samtse	8	12			5	2	616	606	1	2	13834	15072	119	126
Dagana	134	150	9	4	28	0	768	687	206	284	5744	5744	236	236
S/Jongkhar	808	710	63	45	504	18	491	618	197	191	1766	6223	175	488
Paro	407	436	117	81	288	5	375	415	379	389	255	964	113	2673
Wangdue	604	457	127	106	88	11	576	618	389	445	1393	2788		36
Punakha	246	278	101	109	37	18	511	476	330	399	901	2847	54	1845
P/gatshel	75	149	3	8	275	6	281	423	23	37	603	2088	75	804
Gasa	321	134	8	6	498	4	0	2	12	14	40	39	312	382
Sarpang	241	195	69	45	250	46	635	723	458	387	1056	1500	289	196
T/gang	1116	1568	55	51	596	13	941	910	321	409	2825	8717	140	2966
Yangtse	672	826	56	43	222	18	352	323	341	419	498	1204	23	383
Trongsa	130	130	38	37	56		20	52	50	130	200	905	500	833
Thimphu	604	413	48	29	117	6	158	113	194	55	258	988	108	1448
<b>20</b>	<b>9210</b>	<b>8825</b>	<b>967</b>	<b>942</b>	<b>4454</b>	<b>210</b>	<b>9200</b>	<b>9845</b>	<b>3846</b>	<b>5270</b>	<b>42734</b>	<b>91660</b>	<b>4921</b>	<b>21793</b>
					Total	24608								189269

Table 25: Horse, Pig &amp; poultry in 2005

Number of geogs	Dzongkhag										
		Sheep		Goat		Dog				Cat	
		M	F	M	F	Pet		Stray		M	F
						M	F	M	F	M	F
12	Tsirang	376	597	2916	2752	942	506	125	193	775	1333
16	Mongar	34	28	162	137	421	288	370	280	1457	1481
4	Bumthang	571	626	0	0	591	350	38	54	301	427
8	Lhuentse	55	96	17	16	254	275	279	287	646	885
11	Chukha	646	1299	2046	3102	1356	848	86	126	787	1278
5	Ha	0	0	0	0	174	0	126	0	281	0
8	Zhemgang			0	200	457	468			0	0
16	Samtse	1354	1180	2256	2369	669	417	389	365	322	285
11	Dagana	151	299	1221	1857	662	662			909	909
11	S/Jongkhar	49	71	77	102	1265	734	174	139		
10	Paro	0	0	24	33	673	712	344	429	735	804
15	Wangdue	2191	1617	42	94	134	135	355	258	654	649
9	Punakha	0	0	11	5	175	127	317	285	607	504
7	P/gatshel	2	0	46	60	255	191	105	62	374	305
4	Gasa	23	48	0	0	47	26	32	28	61	63
15	Sarpang	345	240	317	301	529	471	419	391	255	218
16	T/gang	1388	3554	39	86	1163	1168	602	594	980	1344
8	Yangtse	23	14	67	108	534	325	249	224	407	749
5	Trongsa	365	365	2	3			200	549		534
10	Thimphu	4	1	21	18	504	334	106	75	462	354
<b>201</b>	<b>20</b>	<b>7577</b>	<b>10035</b>	<b>9264</b>	<b>11243</b>	<b>10805</b>	<b>8037</b>	<b>4316</b>	<b>4339</b>	<b>10013</b>	<b>12122</b>
			17612		20507		18842		8655		22135

Table 26: Sheep, Goat, Dog &amp; cat in 2005

Number of geogs	Dzongkhag	Dairy Products Produced per Year (Kg)			Dairy Products consumed per Year (Kg)		
		Milk	Butter	Cheese	Milk	Butter	Cheese
12	Tsirang	765757	28096	24187	395782	19498	10458
16	Mongar	1628206	137799.5	245518	196883	47643	78648.5
4	Bumthang	546452	39372	152820	7445	19594	105123
8	Lhuentse	1058187	42422.6	66935.7		20025.2	23685.1
11	Chukha	206418	9747	189309	93607	4219	57442
5	Ha	358258.3	21123.63	38903	173686.5	11219.9	19713.9
8	Zhemgang	1114815	43268	399394	0	27177	215809
16	Samtse	92849	8280.5	11912.5	77626	5575.5	9449.5
11	Dagana	746780.32	49319.4	248224.6	289315	36826.4	144601.6
11	S/Jongkhar	1164027.5	57732.5	66865	9316	35507	39516
10	Paro	1763528	122086	965909	423339	44724.2	405891
15	Wangdue	1775896	109901	1132110	284798	63405	420338
9	Punakha	598207	55117	85674	54225	32748	56011
7	P/gatshel	1636625.4	421879.75	307150.8	201085.9	66119.45	108835.8
4	Gasa	596966	63783	16234	12506	1675	1365
15	Sarpang	28369	1364	11764	13564	826	3424
16	T/gang	2097964	154455	308909	106371	46863	88155
8	Yangtse	918690.75	76923.5	153404.1	6807	40038	83041
5	Trongsa	1131806.5	54189	168331	158452.91	19508.04	70699.02
10	Thimphu	1697811.8	55750.34	197158.75	224577	19287.25	164047.75
<b>201</b>	<b>20</b>	<b>19927614</b>	<b>1552609.25</b>	<b>4790713.52</b>	<b>2729385.96</b>	<b>562479.2</b>	<b>2106254.458</b>

Table 27: Dairy products produced &amp; consumed in 2005

Geogs	Dzongkhag	Animal Products Sold per Year (Kg)									
		Milk		Butter		Cheese		Chugo		Whey	Total income
		Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
12	Tsirang	3683	73660	10347	1532880	13158	1296235				2902775
16	Mongar	2688	39270	44343.5	6811810	87456	4748080			864	11600024
4	Bumthang	19620	88740	3490	50850	10420	51560.03	11227	489715	0	680865
8	Lhuentse			25226	3784920	40422	1616880				5401800
11	Chukha	4933	99398	5742	9924600	131646	1802102				11826100
5	Ha	137303.5	357750	9906.085	285841	17036.25	48200	0	0	0	691790.99
8	Zhemgang	8365	167300	16091	4022750	183585	1835850	0	0	0	6025900
16	Samtse	15904	239143	2705	562682.5	2463	25810				827635.5
11	Dagana	457465.3		12493	1873950	103623	5181150				7055100
11	S/Jongkhar	69934	1049010	22391.5	3138318	27349	1496020	0	0	0	5683347.5
10	Paro	315712	5380631	102329.3	11047320	517746	15899602	5657	236050	0	32563603
15	Wangdue	22066	411915	51730	8979140	2129504	7472980	6284	1077920		17941955
9	Punakha	110	2750	22065	4413000	33115	3226360	0	0	0	7642110
7	P/gatshel	87364	1297380	69968.6	1815816	152565.9	7912989	0	0	0	11026185
4	Gasa	556431	11119915	61325	14714820	14111	1620984	73739	14495029		41950748
15	Sarpang	2888	57760	935	158950	8348	584360				801070
16	T/gang	103900	2062671	83396.41	10919477	78019.75	4537283	56401	6768120	0	24287550.21
8	Yangtse	17182	355430	31689.5	4722170	65496.8	4072978	1800	223296	0	9373874
5	Trongsa	871491	10457892	16256.7	2438505	26932.96	1615978				14512375
10	Thimphu	110405	1367320	8737.5	1046030	223687	2177580	160860	0	0	4590930
<b>201</b>	<b>20</b>	<b>2807445</b>	<b>34627935</b>	<b>601168.1</b>	<b>92243829</b>	<b>3866685</b>	<b>67222980</b>	<b>315968</b>	<b>23290130</b>	<b>864</b>	<b>217385737.9</b>

Table 28: Livestock products sold in 2005

Feogs	Dzongkhag	Meat Products Produced per Year (Kg/No)							
		Pork	Beef	Yak meat	Mutton	Chicken	Egg	Wool	Fish
12	Tsirang	21767	10853		11675	60387	271368	669	
16	Mongar	21186	88707		20	51	1520279		
4	Bumthang	0	0	0	0	0	7360	103	
8	Lhuentse	20427	15132				74848		
11	Chukha	22433	32283		6109	9284	17812	450	1622
5	Ha	69775	29540	30015	0	25	116519	0	
8	Zhemgang	19020	16671				167544		
16	Samtse	17080	9706	0	17897	24066	68959	424	
11	Dagana	19736.5	9726		9058	12928.5	16729	326	209
11	S/Jongkhar	1168943	25564	0	0	10207.5	88366.5	0	
10	Paro	40240	12060	6000	0	0	262213	0	
15	Wangdue	66574	54478		575	990	240617		
9	Punakha	36987	0	0	9	9	412956	0	
7	P/gatshel	4788	16746	0	40	130	786957	0	
4	Gasa	7025	568	18963	0	125	57872		
15	Sarpang	22056	49289	0	7222	32540	31858	352	1375
16	T/gang	39090	69236	14835	45	0	996419	28233	
8	Yangtse	22004	14964	0	150	59	116694	218	
5	Trongsa	11982	87737		1430		73023	540	
10	Thimphu	18073	4530	13435	460	603	68770	425	
<b>201</b>	<b>20</b>	<b>1649186.5</b>	<b>547790</b>	<b>83248</b>	<b>54690</b>	<b>151405</b>	<b>5397163.5</b>	<b>31740</b>	<b>3206</b>

Table 29: Meat Products Produced in 2005

Dzongkhag	Meat Products Sold per Year (Kg)																Total Income
	Pork		Beef		Yak meat		Mutton		Chicken		Egg		Wool		Fish		
	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amt	Qty	Amt	
Tsirang	12781	1060550	9167	342465			3034	370145	6790.5	679050	116093	392585.5	57	5205			2850000.5
Mongar	12812	1298896	52572	2793830			20	4000	14	2080	518098	2383002					6481808
Bumthang	0	0	0	0	0	0	0	0	0	0	2270	9080	10	1600			10680
Lhuentse	18242	1823600	9920	297600							593844	2969220					5090420
Chukha	10502	1404660	23165	1488780			3741	623830	1353	114365	5855	22472	13	2550	266	18950	3675607
Ha	1410	169200	1725	138000	22126	2440920	0	0	0	0	71039.95	463254	0	0			3211374
Zhemgang	9756	975600	23983	1199150							49308	197232					2371982
Samtse	12184	852900	3235	97050			7579	1136900	111	7760	2314	9848		3500			2107958
Dagana	5982	418740					1281	192150	1651	115570	2601	169065	202	20200	155	10850	926575
S/Jongkhar	722	48090	2552	61460							355	710					110260
Paro	15045	1754000	4645	364875	4100	492000	0	0	0	0	384928	2720840	0	0			5331715
Wangdue	24003	2969200	23859	1477080	4145	1040600	575	69000	825	82500	74716	345765					5984145
Punakha	15090	1429000	0	0	0	0	0	0	0	0	186675	933150	0	0			2362150
P/gatshel	2249	196060	16350	528500	0	0	40	4000	130	13000	347710	1745400	0	0			2486960
Gasa					15023	600920					34792	150445					751365
Sarpang	15767	1261360	47108	1884320	0	0	3252	487800	9232	646240	11455	57275	0	0	1129	90320	4427315
T/gang	23850.5	2342290	28160.5	1235775	11065	1294000	0	0	18	2700	388975	2121548	0	0			6996313
Yangtse	14129	1303800	7604	372460	0	0	52	4160	59	8850	7329	36645	0	0			1725915
Trongsa	900	63000	13256	397680			632	94800			12300	30750	360	36000			622230
Thimphu	1610	29110	1310	60290	987860	668400	3	259	46620	2331000	10400	445708	71000	157400			3692167
<b>20</b>	<b>197034.5</b>	<b>19400056</b>	<b>268611.5</b>	<b>12739315</b>	<b>1044319</b>	<b>6536840</b>	<b>20209</b>	<b>2987044</b>	<b>66803.5</b>	<b>4003115</b>	<b>2821057.95</b>	<b>15203994.5</b>	<b>71642</b>	<b>226455</b>	<b>1550</b>	<b>120120</b>	<b>61216939.5</b>

Table 30: Meat Products sold in 2005

### 3.3 Data pertaining to earlier periods (>1986 ≤ 2005)

Species	Category	Yr 1986	Yr 1987	Yr 1988	Yr 1989	Yr 1990	Yr 1992
Cattle	Local	328879	387247	288704	293118	286063	218524
	Improved	10389	14199	16553	20503	22210	22071
	Mithun	0	0	49841	46573	51644	46824
	<b>Stotal1</b>	<b>339268</b>	<b>401446</b>	<b>355098</b>	<b>360194</b>	<b>359917</b>	<b>287419</b>
Yaks		32911	30065	35639	37039	34652	30241
Buffalo		5029	5412	4340	4746	3722	895
Sheep	Local	41307	33482	46734	45003	38291	26963
	Improved	1773	1583	0	3041	5407	5160
	<b>Stotal2</b>	<b>43080</b>	<b>35065</b>	<b>46734</b>	<b>48044</b>	<b>43698</b>	<b>32123</b>
Goat		31757	40006	32213	32565	36716	14500
Horse	Local	22777	26092	25768	23833	21069	18575
	Improved	408	863	0	622	1033	2649
	Mule	0	0	0	2334	3767	3310
	Donkey	0	0	0	196	220	171
	<b>Stotal3</b>	<b>23185</b>	<b>26955</b>	<b>25768</b>	<b>26985</b>	<b>26089</b>	<b>24705</b>
Pig	Local	85932	69521	62067	59386	55335	38445
	Improved	2055	2810	3824	2899	4263	3045
	<b>Stotal4</b>	<b>87987</b>	<b>72331</b>	<b>65891</b>	<b>62285</b>	<b>59598</b>	<b>41490</b>
Poultry	Local	202195	214980	237048	195950	188141	107279
	Improved	6743	13253	0	2365	12431	11292
	<b>Stotal5</b>	<b>208938</b>	<b>228233</b>	<b>237048</b>	<b>198315</b>	<b>200572</b>	<b>118571</b>

Table 31: Livestock population data from 1986 to 1992

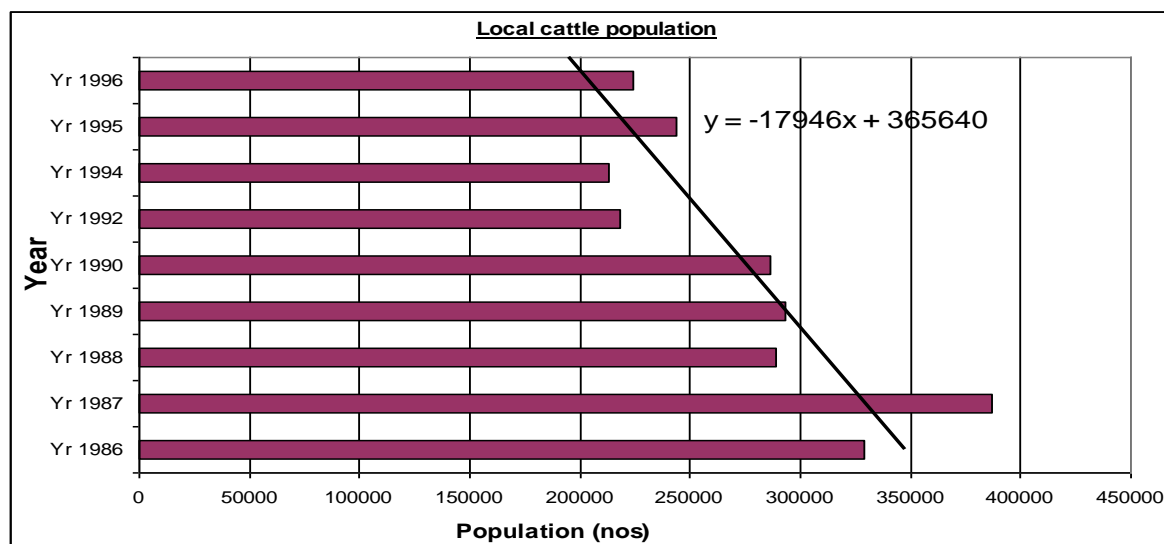


Chart 18: Local cattle population trend from '86 to '96

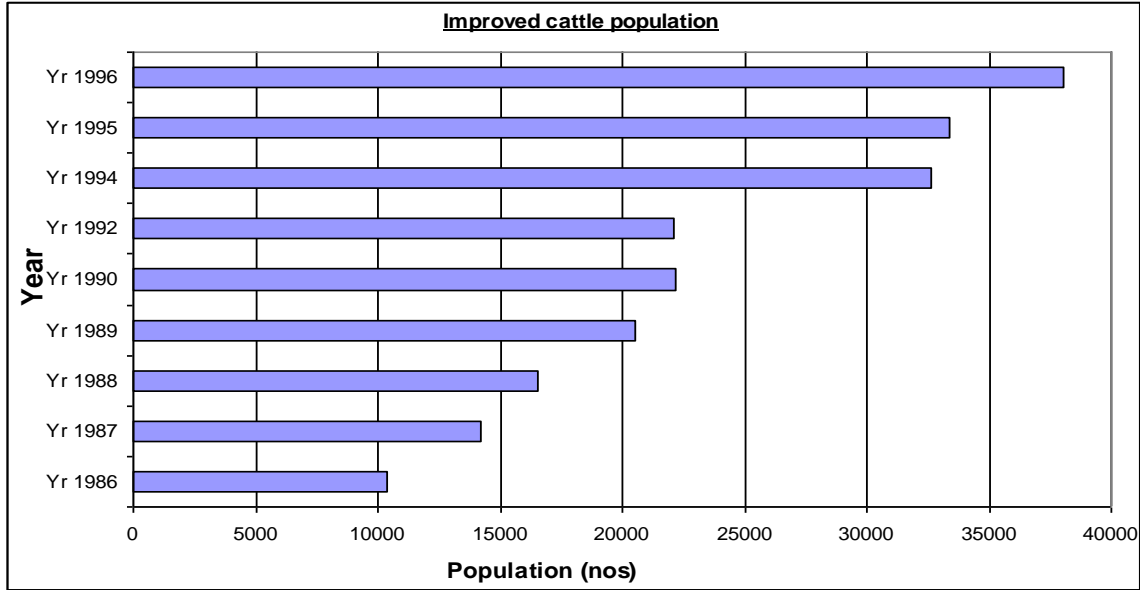


Chart 19: Improved cattle population trend from '86 to '96

Year	Cattle	Yak	Equine	Pig	Poultry	Sheep	Goat
1994	299807	36,761	27,209	45,968	157,663	26667	18432
1995	332427	39,668	29,545	47,691	177,994	26278	19387
1996	315884	37,871	28,995	61,010	169,208	22857	22044
1997	315734	37,782	28,995	61,010	161,487	23036	22239
2000	320510	34,928	21,222	42,271	184,114	19811	23467
2001	287052	38,892	21,588	40,829	184,874	22199	22950
2002	294787	31,223	21,511	40,088	191,931	20099	24071
2003	293990	38,724	23,448	38,548	165,708	24515	22950
2004	295922	41,628	24,692	35,255	195,286	20803	23850
2005	338847	45,538	24,608	28,161	189,269	17612	20507

Table 32 : Livestock population data from 1994 to 2005

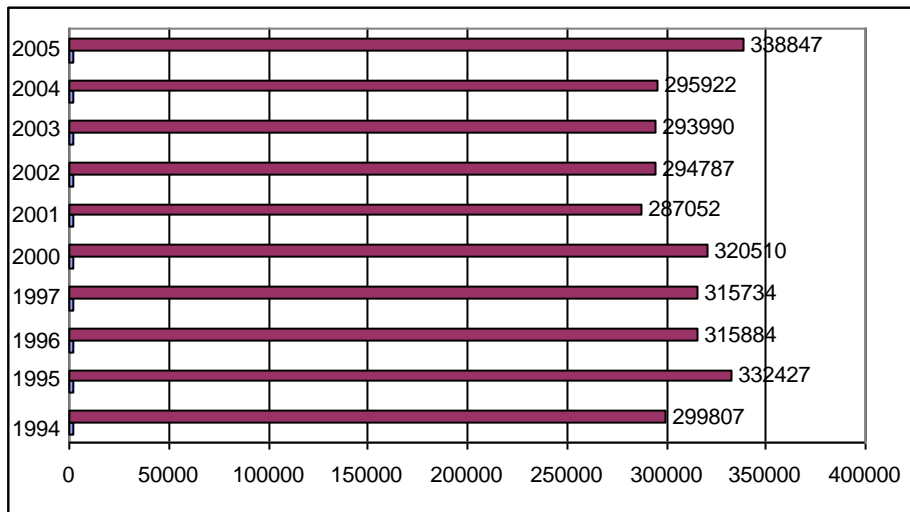


Chart 20: Cattle population 1994 to 2005

Year	Siri	% Siri	Exotic crossbred	% Exotic Crossbred	Mithun cross	% Mithun Cross	Total Cattle
2000	224685	70.10	33373	10.41	38939	12.15	320510
2001	213650	74.43	35157	12.25	38245	13.32	287052
2002	218446	74.10	35559	12.06	40782	13.83	294787
2003	210617	71.64	42608	14.49	40765	13.87	293990
2004	208876	70.58	44162	14.92	42884	14.49	295922
2005	226193	66.75	60312	17.80	52342	15.45	338847

Table 33: Composition of cattle from 2000 to 2005

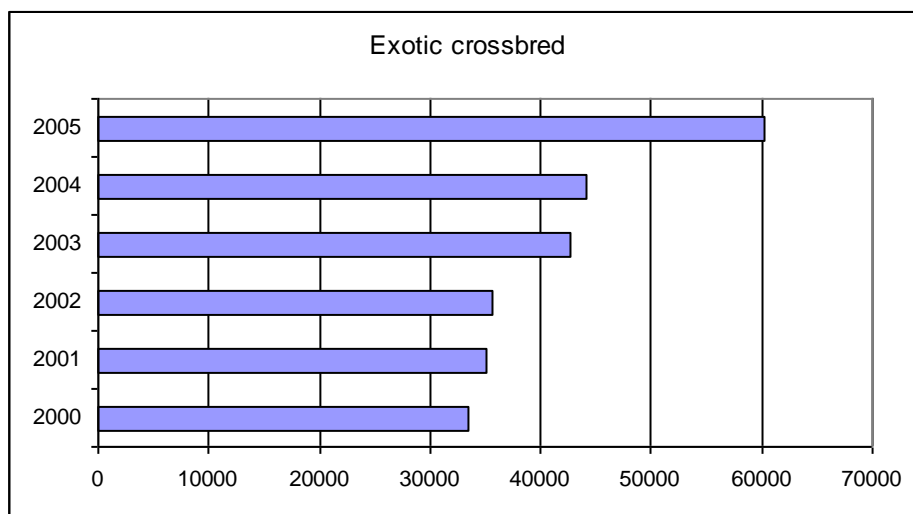


Chart 21: Crossbred cattle population trend 2000 to 2005

Quantity	Import	Local	%Import	%Local	Import	Local	%Import	%Local
	2000-01	2000-01	2000-01	2000-01	2001-02	2001-02	2001-02	2001-02
Beef	1034.5	340.8	75.22	24.78	1060	512.43	67.41	32.59
Pork	485.3	40.6	92.28	7.72	779.54	40.7	95.04	4.96
Chicken	271.9	32.62	89.29	10.71	478.02	49.6	90.60	9.40
Chevon	7.11	2.9	71.03	28.97	14.14	8.11	63.55	36.45
Fresh Fish	246.1	125.2	66.28	33.72	264.41	93.8	73.81	26.19
Dry Fish	689.97	4.34	99.37	0.63	619.14	14.62	97.69	2.31
Egg ('00cartoons)	436.45	9.5	97.87	2.13	976.32	36.05	96.44	3.56

Table 34: Meat &amp; Meat Products import &amp; local 2000 to 2002 (MT)

Quantity	Import	Local	%Import	%Local	Import	Local	%Import	%Local
	2002-03		2002-03		2003-04		2003-04	
Beef	2538.81	206.01	92.49	7.51	2493.7	194.52	92.76	7.24
Pork	1102.51	54.67	95.28	4.72	980	50.01	95.14	4.86
Chicken	913.82	81.74	91.79	8.21	964.6	20.23	97.95	2.05
Chevon	18.4	2.93	86.26	13.74	12.3	2.53	82.94	17.06
Fresh Fish	454.5	63.22	87.79	12.21	501.24	66.83	88.24	11.76
Dry Fish	761.3	17.05	97.81	2.19	1159.2	16.97	98.56	1.44
Egg (‘000cartoons)	258.9	57.16	81.91	18.09	243.4	33.53	87.89	12.11

Table 35: Meat &amp; Meat Products import &amp; local 2003 to 2004 (MT)

Quantity	Import	Local	%Import	%Local	Value (miln nu.)	
					Import	Local
	2004-05		2004-05			
Beef	1837.5	234.23	88.7	11.3	49.62	16.396
Pork	1579.41	49.35	97.0	3.0	126.353	5.922
Chicken	1334.616	18.61	98.6	1.4	106.769	1.488
Chevon	16.987	4.3	79.8	20.2	3.058	0.774
Fresh Fish	656.42	0	100.0	0.0	39.385	
Yak meat		73.69	0.0	100.0		8.843
Butter		60.395	0.0	100.0		12.073
Cheese		67.21	0.0	100.0		8.0652
Dry Fish	1218.52	0	100.0	0.0	97.482	
Egg (‘000cartoons)	232.392		100.0	0.0	90.633	

Table 36: Meat &amp; Meat Products import &amp; local 2004-05 (MT)

Value (Miln. Nu.)	2000-01	2000-01	2001-02	2001-02	2002-03	2002-03	2003-04	2003-04
	Import	Local	Import	Local	Import	Local	Import	Local
Beef	46.8	19.1	36.08	18.74	152.32	16.48	49.62	15.56
Pork	46.659	2.9	27.54	2.45	88.44	5.47	78.4	5
Chicken	28.786	3.72	16.4	2.284	73.1	8.17	77.17	1.72
Chevon	0.897	0.941	0.63	0.34	2.76	0.52	2.09	0.48
Fresh Fish	13.22	10.334	11.22	15.02	31.81	12.64	30.07	8.02
Dry Fish	34.157	2.998	33.66	0.781	68.51	3.07	92.73	2.71
Egg	29.852	3.595	16.15	0.95	98.42	5.72	70.58	4.02

Table 37: Value of meat products 2001 to 2004

	2000		2001		2002		2003		2004	
	Qty	Value (Nu.)	Qty	Value (Nu.)	Qty	Value (Nu.)	Qty	Value (Nu.)	Qty	Value (Nu.)
Liquid Milk (Lit)	94.50	1,062,485.00	171.37	2,219,008.00	139.62	1,833,070.00	481.19	2,924,930.00	606.82	16,900,784.00
Powdered Milk (Kg)	726.32	79,922,541.00	757.10	91,254,261.00	1,388.86	95,591,641.00	1,750.91	90,003,143.00	1,189.45	147350648.00
Processed Milk			16.20	321,300.00	89.19	1,725,725.00				
Condensed Milk (Kg)	5.81	434,114.00	30.43	752,485.00	61.43	4,050,241.00	31.75	452,246.00	0.54	64,636.00
Preserved Butter (Kg)	199.01	22,007,443.00	194.00	24,663,032.00	125.46	15,223,976.00	240.41	26,481,450.00	235.74	33,485,445.00
Cheese (Kg)	79.20	9,419,155.00	127.13	12,226,259.00	75.97	7,953,259.00	191.34	24,830,959.00	249.60	36,165,110.00
Other Milk Products (Yoghurt) (Kg)	18.54	1,837,579.00	14.11	1,782,956.00	12.46	1,050,799.00	5.64	442,190.00	10.29	649,102.00

**Table 38: Milk & Milk Products Import from India (in MT) and value 2000 to 2004**