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National Dairy
Development
Board

DAIRYING IN KARNATAKA

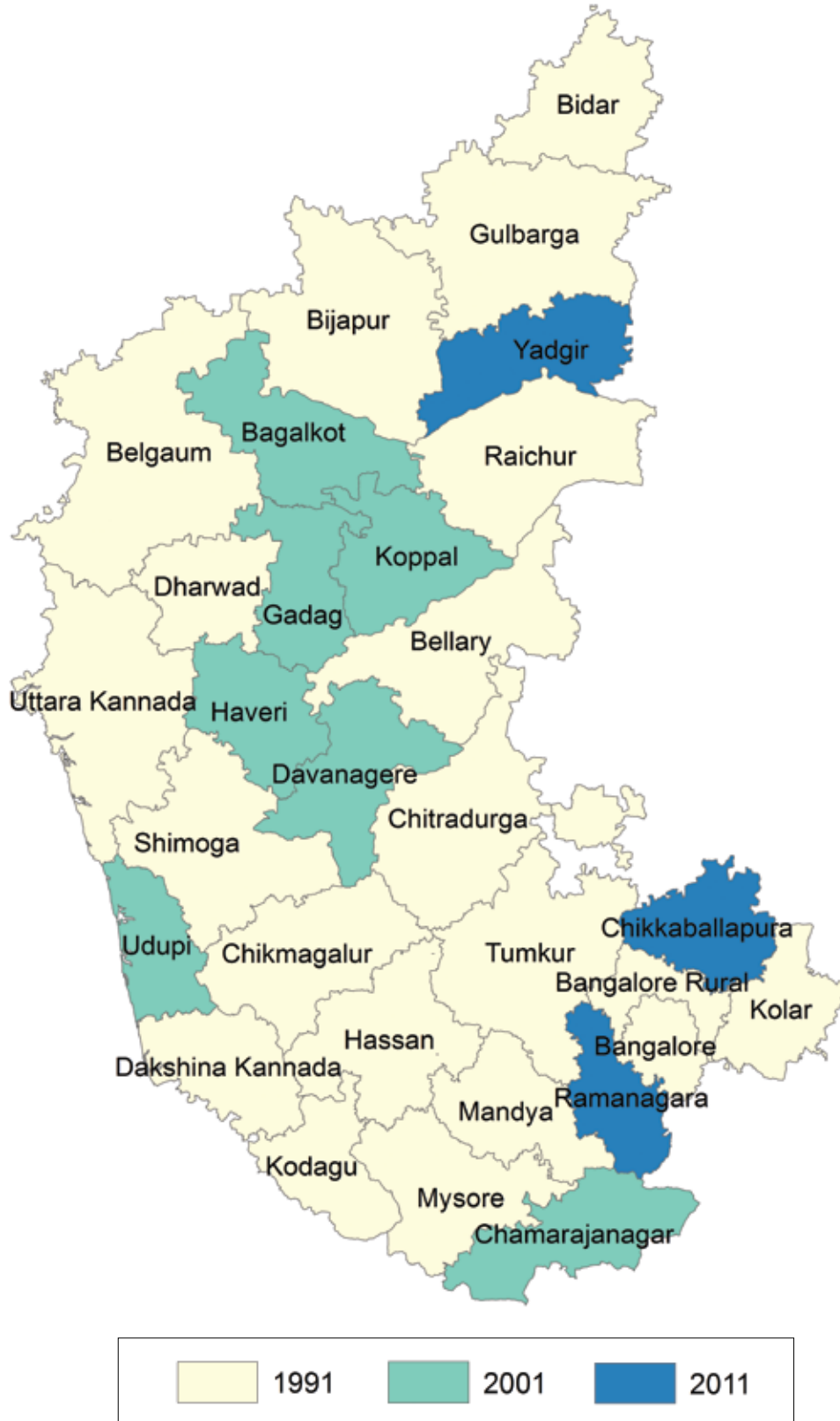


A STATISTICAL PROFILE 2015



Karnataka

Formation of districts: Census 1991 to 2011





FOREWORD

In this compilation of the statistical profile of the dairy sector in various States, the main landmarks or highlights are: Trends in human demographics, animal population and production; Inputs for enhancement of productivity such as breeding, health and nutrition; and Government expenditure, along with supporting resources.

This review includes statistical tables on selected parameters for each State taken as a whole, along with time-series data for districts wherever available. Since spatial presentation of data can yield insights not immediately comprehensible from tables, thematic maps for selected parameters (with data both at a point of time as well as changes over a period of time) have also been included.

The objective of this publication is to provide a detailed presentation of various parameters, underlying factors, and their inter-linkages so as to enable effective planning and implementation of development interventions. We also hope that a wide range of readers, students, researchers, veterinarians, planners, scientists, administrators, policy makers and academics, as well as other development practitioners and professionals in government and non-governmental organisations, will find this publication useful for their studies and projects.

Although a wealth of information is available on many aspects of dairying from different sources, it is not only scattered but also there are inconsistencies on the same aspect in data maintained by different agencies. While limited data could mean being less informed, extensive information could mean an overload and defeat the very purpose of organising it. This review, therefore aims at balancing the most comprehensive information with the most relevant. We sincerely thank government and non-government agencies for providing information. While extreme care has been taken in juxtaposing data, some errors cannot be ruled out.

This publication "Dairying in Karnataka – A Statistical Profile 2015" is amongst a series of similar publications for different states being brought out by National Dairy Development Board (NDDB).

Dilip Rath

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Anand, Gujarat



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PART I : GENERAL STATISTICS

Karnataka has made considerable progress across all sectors of the economy. During the 11th Plan ending 2011-12, the Gross State Domestic Product (GSDP) grew at 6.7 per cent, the “services” sector grew at 8.7 per cent, the “industrial” sector grew at 4.8 per cent and the “agriculture” sector at grew at 5.1 per cent. With about 60 per cent share, the “services” sector is the largest contributor and key driver of state’s economy followed by roughly 25 and 15 per cent contribution from the “manufacturing” and the “agriculture and allied” sectors respectively. In 2012-13, the value of exports to GSDP was 48 per cent, indicating an influence of international trade on the state’s economy as compared to the national economy.

The orientation towards the “services” sector influences urbanisation. This has increased from 22 per cent in 1951 to 38 per cent in 2011. It is the 7th most urbanised state in India. More than half of the population of the state lives in the eight districts of Bangalore, Belgaum, Mysore, Tumkur, Gulbarga, Bellary, Bijapur and Dakshina Kannada. The basic infrastructure in terms of electricity, tap water etc is good in the Bangalore division of Karnataka.

As per the 2011 census, the adult sex ratio is 947 females to 1,000 males (as against the child sex ratio of 943 female to 1,000 males). The birth rate in the state has declined at a rate faster than the death rate and these developments have created new demographic challenges and opportunities.





I.1. Karnataka at a Glance

TABLE I.1.1: General Statistics: Karnataka vs. India

Particulars	Unit	Year	Karnataka	India
State Geography & Rural Infrastructure				
Geographical area	'000 sq km	2012	191.8	3,287.3
Districts	Nos	2011	30	640
Talukas	"	"	176	5,924
Villages	'000	"	29	640.9
Households	Million	"	13.3	249.4
Rural Households				
2001	'000	2001	6,726	137,414
2011	"	2011	7,947	168,565
Rural Households with Electricity				
2001	%	2001	72	44
2011	"	2011	86	55
Rural Households with Tap water supply				
2001	%	2001	48	24
2011	"	2011	56	31
Human Population				
Population	Millions	2011	61.1	1,210.1
Urban (As % of total)	%	"	39	31.2
Rural (As % of total)	"	"	61	68.8
Density of Population	per sq. km	"	319	382
Scheduled Castes (As % of total)	%	"	17.1	16.6
Scheduled Tribes (As % of total)	"	"	7.0	8.6
Sex Ratio	Ratio	"	973	943
Literacy Rate (excluding population of 0 to 6 age group)				
Male	%	2011	82.5	80.9
Female	"	"	68.1	64.6
Urban	"	"	86.2	84.1
Rural	"	"	68.9	67.8
Per Capita Income (at current prices)	₹	2012-13	77,015	69,585
Livestock Population				
	million	2012	27.7	512.0
Bovine	"	"	13.0	299.9
Indigenous Cattle	"	"	6.6	151.2
Crossbred Cattle	"	"	2.9	39.7
Buffaloes	"	"	3.5	108.7
Small Ruminants	"	"	14.4	200.2
Poultry	"	"	53.4	729.2
Livestock Population				
	million	2007	30.8	529.7
Bovine	"	"	14.8	304.8
Indigenous Cattle	"	"	8.3	166.0
Crossbred Cattle	"	"	2.1	33.1
Buffaloes	"	"	4.3	105.3
Small Ruminants	"	"	15.7	212.1
Poultry	"	"	42.1	648.9
Number of Major Cattle Breeds	nos	2012	6	30
Number of Major Buffalo Breeds	"	"	1	12



I.1. Karnataka at a Glance

TABLE I.1.1: General Statistics: Karnataka vs. India

Particulars	Unit	Year	Karnataka	India
Livestock Production				
Milk Production - Total	'000 MT	2013-14	5,997	137,686
Crossbred Cattle	"	"	2,703	33,154
Indigenous Cattle	"	"	1,439	28,104
Buffaloes	"	"	1,795	70,109
Goats	"	"	60	4,983
Per Capita Milk Availability (estimated)	grams/day	"	261	302
Egg Production	million	"	4,130	73,438
Estimated Meat Production	'000 MT	"	170	6,235
Marine & Inland Fish Production	"	"	492	9,426
Wool Production	'000 Kg	"	7,754	47,909
Veterinary Infrastructure#				
Veterinary Institutes	nos	2012-13	3,680	59,159
Semen Stations	"	2011-12	5	54
AI Centers (Govt)	"	2012-13	3,910	77,765
Veterinary Services				
AI Done (Govt)	'000	2012-13	2,368	41,165
Vaccination Done				
H.S. Vaccination	"	2012-13	8,859	
B.Q. Vaccination	"	"	534	
FMD Vaccination	"	"	19,208	
Total Bovine	"	"	28,601	
Treatment	"	"	6,806	
Castration	"	"	223	
Agricultural Resources				
Forest Cover	%	2011-12	16.1	21.30
Pasture and Grazing Land	'000 ha	"	908	10,296
As % of total reporting area	%	"	4.8	3.4
Area Under Fodder Crops	'000 ha	"	33	7,736
Gross Irrigated Area As % Gross Cropped Area	%	"	29	47
Cropping Intensity	%	"	121	139
Irrigation Intensity	%	"	120	140
Production of Major Crops				
Cereals	'000 MT	2012-13	9,604	238,792
Pulses	"	"	1,259	18,342
Oilseeds	"	"	919	30,941
Sugarcane	"	"	35,732	341,199
Fodder Production	MMT	2008	35	933
Ground Water Status (2009 vs 2004)				
Safe	% of Talukas	2009 & (2004)	57 (53)	73 (71)
Semi Critical	"	"	13 (8)	9 (10)
Critical	"	"	4 (2)	3 (4)



I.1. Karnataka at a Glance

TABLE I.1.1: General Statistics: Karnataka vs. India

Particulars	Unit	Year	Karnataka	India
Over Exploited	% of Talukas	2009 & (2004)	26 (37)	14 (15)
Salinity Affected	"	"		1(1)

Figures for India are for 2011-12 except Veterinary Institutes.

SOURCES: Census 2001 & 2011, Office of the Registrar General and Census Commissioner, Govt. of India, New Delhi.

18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.

Minutes of the Meeting of Technical Committee on Direction for improvement of Animal Husbandry Statistics held during 24th to 25th July, 2014,

Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.

Dynamic Ground Water Resources of India as on 31st March, 2009, Central Ground Water Board, Ministry of Water Resources, Govt. of India.

Directorate of Economics and Statistics, Ministry of Agriculture, Govt. of India.

Ministry of Statistics and Programme Implementation, Govt. of India.

TABLE I.1.2: Formation of Districts in Karnataka

New Districts	Year of Formation	Carved Out of
Bagalkot	1997	Bijapur
Chamarajanagar	1997	Mysore
Davanagere	1997	Chitradurga, Shimoga and Bellary
Gadag	1997	Dharwad
Haveri	1997	Dharwad
Koppal	1997	Raichur
Udupi	1997	Dakshina Kannada
Chikkaballapura	2007	Kolar
Ramanagara	2007	Bangalore Rural
Yadgir	2009	Gulbarga

SOURCE: District Administration Websites of Govt. of Karnataka.

TABLE I.1.3: Change in Name of Cities

Old Name	Year of Change	New Name
Bangalore	01 st November, 2014	Bengaluru
Mangalore	01 st November, 2014	Mangaluru
Bellary	01 st November, 2014	Ballari
Bijapur	01 st November, 2014	Vijayapura
Belgaum	01 st November, 2014	Belagavi
Chikmagalur	01 st November, 2014	Chikkamagaluru
Gulbarga	01 st November, 2014	Kalaburagi
Mysore	01 st November, 2014	Mysuru
Hospet	01 st November, 2014	Hosapete
Shimoga	01 st November, 2014	Shivamogga
Hubli	01 st November, 2014	Hubballi
Tumkur	01 st November, 2014	Tumakuru

SOURCE: Revenue Department, Govt. of Karnataka.



I.2. Social Statistics: Human Population

TABLE I.2.1: Human Population by Residence and Sex –2001

Districts	Rural ('000)			Urban ('000)			Total ('000)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
KARNATAKA	17,649	17,240	34,889	9,250	8,712	17,962	26,899	25,952	52,851
Bagalkot	591	582	1,173	243	236	479	834	818	1,652
Bangalore Rural	752	722	1,474	210	197	407	962	919	1,882
Bangalore Urban	406	371	777	3,020	2,740	5,760	3,427	3,111	6,537
Belgaum	1,631	1,571	3,202	519	493	1,013	2,150	2,064	4,215
Bellary	669	652	1,320	361	346	707	1,030	997	2,027
Bidar	592	566	1,157	179	166	345	771	731	1,502
Bijapur	723	688	1,411	203	193	396	926	880	1,807
Chamarajanagar	415	403	817	75	73	148	490	476	965
Chikmagalur	461	457	918	114	109	223	575	566	1,141
Chitradurga	635	608	1,244	141	133	274	776	742	1,518
Dakshina Kannada	575	594	1,168	364	366	729	938	959	1,898
Davanagere	638	610	1,248	280	263	543	918	873	1,791
Dharwad	371	351	722	452	430	882	823	781	1,604
Gadag	320	310	630	174	168	342	494	478	972
Gulbarga	1,152	1,126	2,278	440	412	853	1,593	1,538	3,131
Hassan	704	713	1,417	155	150	305	859	863	1,722
Haveri	587	553	1,140	154	145	299	740	699	1,439
Kodagu	236	237	473	39	37	75	275	274	549
Kolar	968	942	1,911	318	308	626	1,286	1,250	2,536
Koppal	503	495	998	101	98	198	603	593	1,196
Mandya	744	737	1,481	144	139	283	888	876	1,764
Mysore	845	814	1,659	499	483	982	1,345	1,296	2,641
Raichur	627	622	1,249	215	206	421	842	828	1,670
Shimoga	540	531	1,072	290	281	571	831	812	1,643
Tumkur	1,052	1,025	2,078	262	246	507	1,314	1,271	2,585
Udupi	421	485	906	101	105	206	522	590	1,112
Uttara Kannada	490	476	966	197	191	388	687	667	1,354

SOURCE: Census 2001, Office of the Registrar General and Census Commissioner, Govt. of India, New Delhi.





I.2. Social Statistics: Human Population

TABLE I.2.2: Human Population by Residence and Sex –2011

Districts	Rural ('000)			Urban ('000)			Total ('000)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
KARNATAKA	18,929	18,540	37,469	12,037	11,589	23,626	30,967	30,129	61,095
Bagalkot	650	642	1,292	300	298	598	950	940	1,890
Bangalore Rural	371	351	722	138	131	269	509	482	991
Bangalore Urban	464	407	872	4,558	4,192	8,750	5,023	4,599	9,622
Belgaum	1,811	1,757	3,568	612	599	1,211	2,423	2,357	4,780
Bellary	774	758	1,532	463	457	920	1,237	1,216	2,453
Bidar	651	626	1,277	219	207	426	871	833	1,703
Bijapur	858	818	1,675	253	249	502	1,111	1,066	2,177
Chamarajanagar	425	421	846	87	88	175	512	509	1,021
Chikkaballapura	494	480	974	142	139	281	636	619	1,255
Chikmagalur	448	451	898	119	120	240	567	571	1,138
Chitradurga	676	654	1,330	165	164	330	841	819	1,659
Dakshina Kannada	541	552	1,094	493	503	996	1,035	1,055	2,090
Davanagere	668	648	1,316	318	311	629	986	959	1,945
Dharwad	409	388	797	528	522	1,050	937	910	1,847
Gadag	348	338	685	190	190	379	537	527	1,065
Gulbarga	877	854	1,731	425	411	836	1,302	1,265	2,566
Hassan	696	704	1,400	188	189	377	884	893	1,776
Haveri	638	604	1,242	181	175	356	819	779	1,598
Kodagu	234	239	474	40	41	81	275	280	555
Kolar	535	521	1,056	241	239	480	776	760	1,536
Koppal	583	573	1,156	117	117	234	700	690	1,390
Mandya	751	746	1,497	154	155	308	905	901	1,806
Mysore	888	868	1,756	624	621	1,245	1,512	1,490	3,001
Raichur	718	720	1,438	247	244	490	965	964	1,929
Ramanagara	412	402	815	136	132	268	548	535	1,083
Shimoga	566	563	1,129	312	312	624	877	875	1,753
Tumkur	1,049	1,031	2,080	302	297	599	1,351	1,328	2,679
Udupi	399	444	843	163	171	334	562	615	1,177
Uttara Kannada	515	503	1,018	211	208	419	726	711	1,437
Yadgir	479	475	954	111	109	221	590	584	1,174

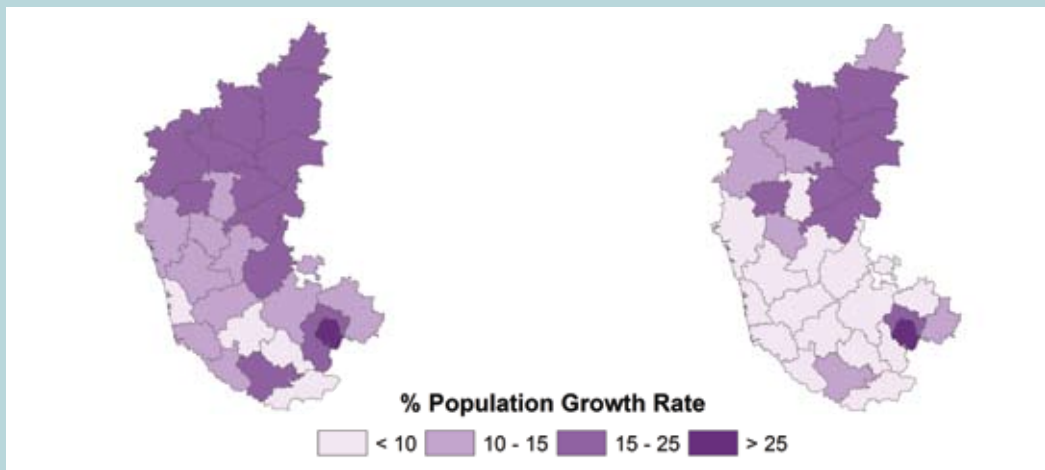
SOURCE: Census 2011, Office of the Registrar General and Census Commissioner, Govt. of India, New Delhi.



Decadal Growth Rate of Population

1991-2001

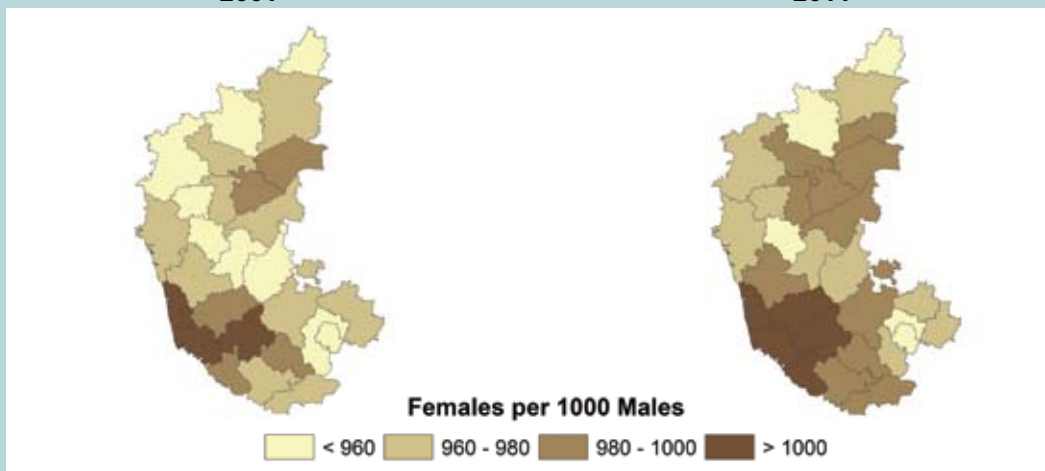
2001-2011



Sex Ratio (all age groups)

2001

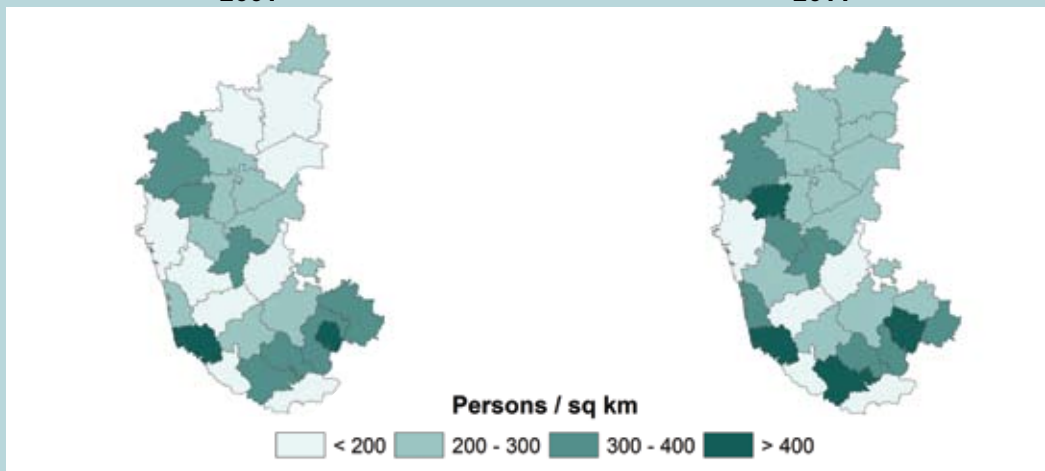
2011



Population Density

2001

2011





I.2. Social Statistics: Human Population

TABLE I.2.3: Rural Households, Electricity and Tap Water Supply - 2001 and 2011

Districts	Rural Households ('000)		Rural Households with Electricity ('000)		Rural Households with Tap Water (inclusive – treated & untreated) ('000)	
	2001	2011	2001	2011	2001	2011
KARNATAKA	6,726	7,947	4,817	6,820	3,236	4,432
Bagalkot	207	243	136	196	100	141
Bangalore Rural	307	165	256	154	198	101
Bangalore Urban	168	213	145	199	104	141
Belgaum	591	719	425	565	243	319
Bellary	238	295	158	259	166	209
Bidar	197	240	136	201	98	116
Bijapur	246	310	153	237	74	118
Chamarajanagar	173	204	106	174	69	120
Chikkaballapura		221		197		153
Chikmagalur	197	218	142	184	93	135
Chitradurga	242	284	183	240	126	171
Dakshina Kannada	217	225	124	187	30	57
Davanagere	233	275	181	246	144	170
Dharwad	131	161	103	143	76	107
Gadag	118	140	92	127	72	87
Gulbarga	391	313	243	260	148	145
Hassan	300	342	242	313	140	193
Haveri	207	257	150	229	141	185
Kodagu	113	122	61	95	29	51
Kolar	379	227	314	209	249	138
Koppal	174	218	114	181	100	147
Mandya	314	355	241	322	194	267
Mysore	339	407	234	360	199	297
Raichur	221	268	132	227	91	134
Ramanagara		200		181		155
Shimoga	218	259	153	224	93	133
Tumkur	441	498	340	428	210	304
Udupi	171	178	109	156	17	25
Uttara Kannada	193	229	144	202	32	49
Yadgir		162		121		67

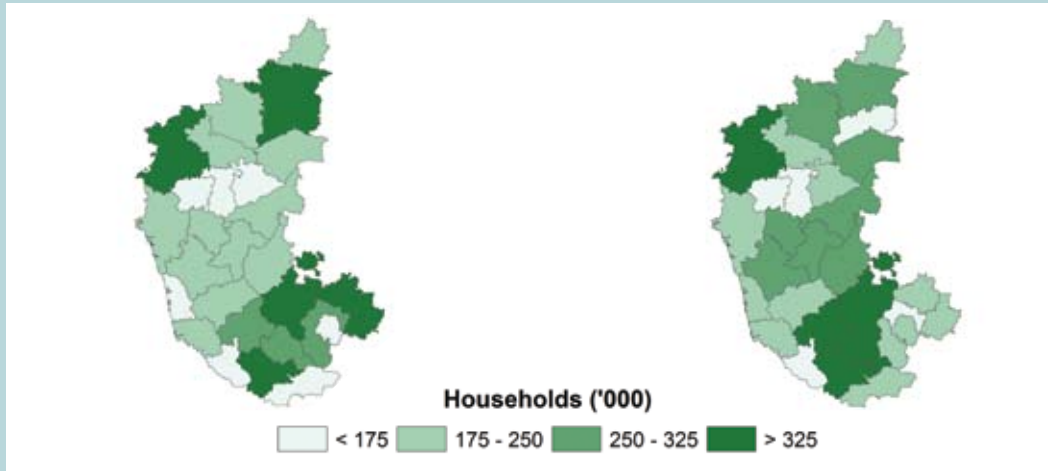
SOURCE: Census 2001 and 2011, Office of the Registrar General and Census Commissioner, Govt. of India, New Delhi.



Rural Households

2001

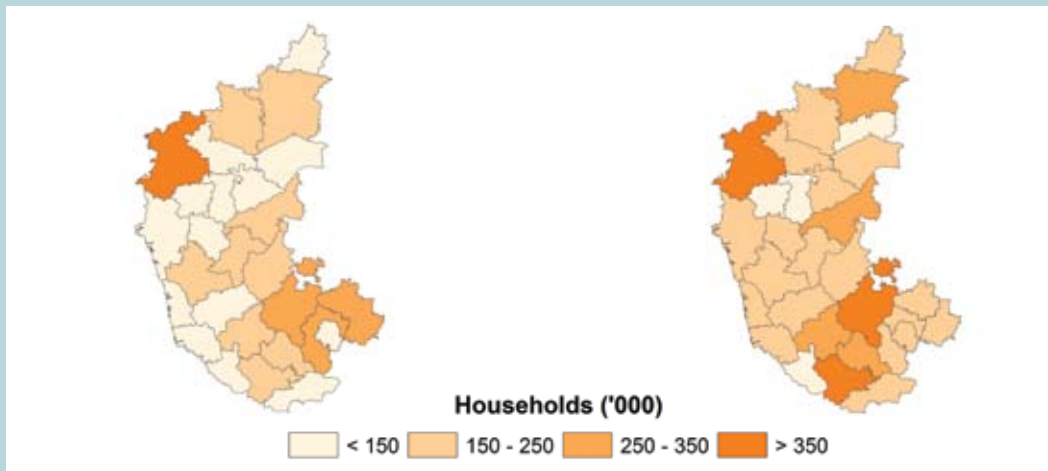
2011



Rural Households with Electricity

2001

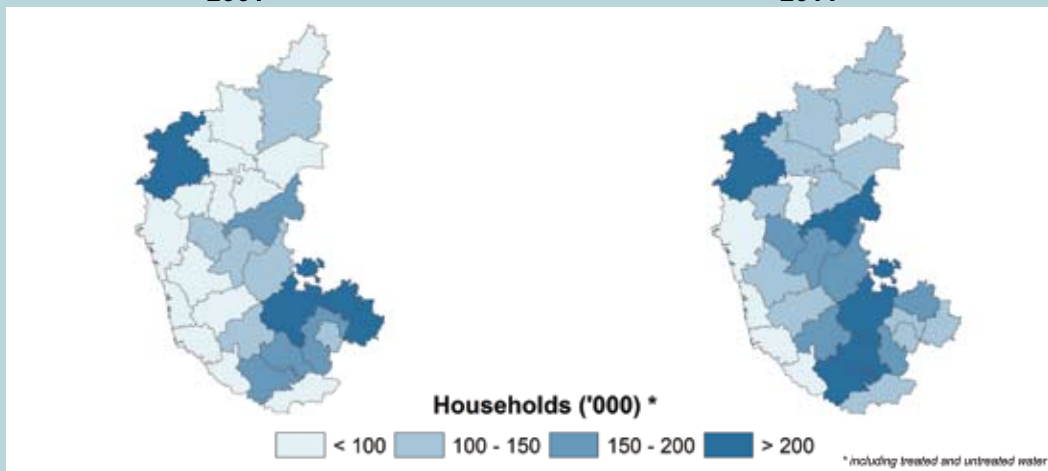
2011



Rural Households with Tap Water

2001

2011





I.2. Social Statistics: Human Population

TABLE I.2.4: District-wise SC and ST Population – 2001 and 2011

Districts	SC Population ('000)		ST Population ('000)	
	2001	2011	2001	2011
KARNATAKA	8,564	10,475	3,464	4,249
Bagalkot	251	319	80	97
Bangalore Rural	378	214	62	53
Bangalore Urban	851	1,198	86	190
Belgaum	462	577	243	297
Bellary	374	517	365	451
Bidar	299	400	182	236
Bijapur	334	443	30	39
Chamarajanagar	238	259	106	120
Chikkaballapura		313		156
Chikmagalur	233	254	41	45
Chitradurga	336	389	266	303
Dakshina Kannada	131	148	63	82
Davanagere	333	393	210	233
Dharwad	132	178	70	88
Gadag	137	174	54	62
Gulbarga	718	649	154	65
Hassan	312	345	26	32
Haveri	175	220	127	141
Kodagu	67	74	46	58
Kolar	672	466	206	79
Koppal	185	259	139	164
Mandya	247	265	17	22
Mysore	468	537	271	335
Raichur	317	401	303	367
Ramanagara		204		23
Shimoga	270	308	56	65
Tumkur	474	507	194	210
Udupi	68	75	42	53
Uttara Kannada	102	116	24	34
Yadgir		273		147

SC: Scheduled Caste, ST: Scheduled Tribe

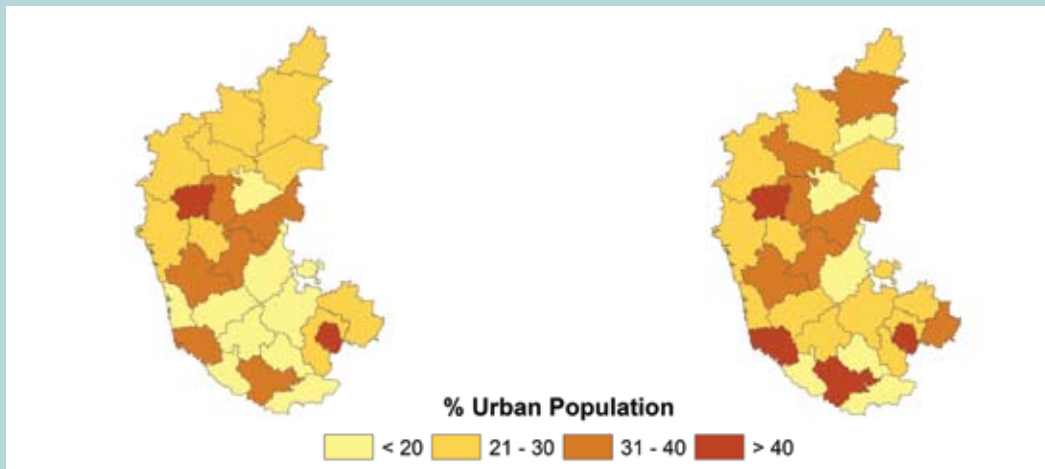
Source: Census 2001 and 2011, Office of the Registrar General and Census Commissioner, Govt. of India, New Delhi.



Urbanisation (%)

2001

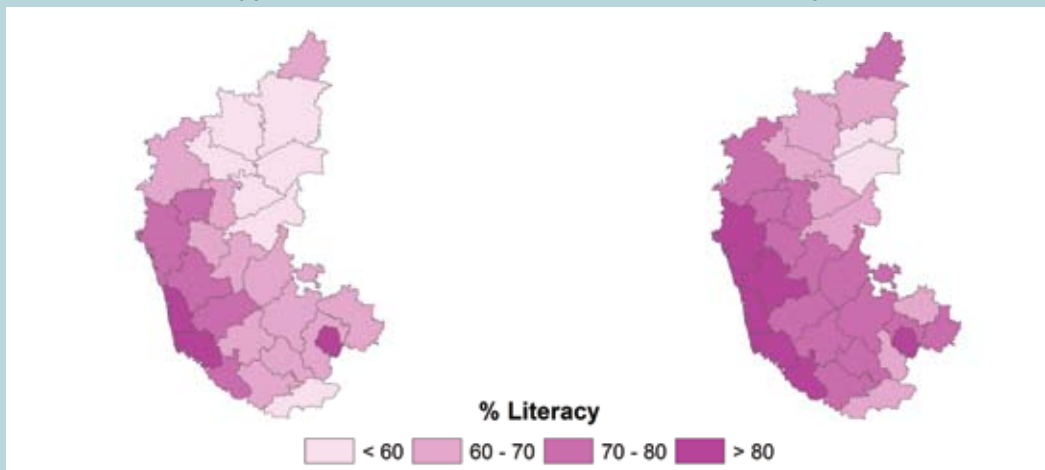
2011



Literacy Rate

2001

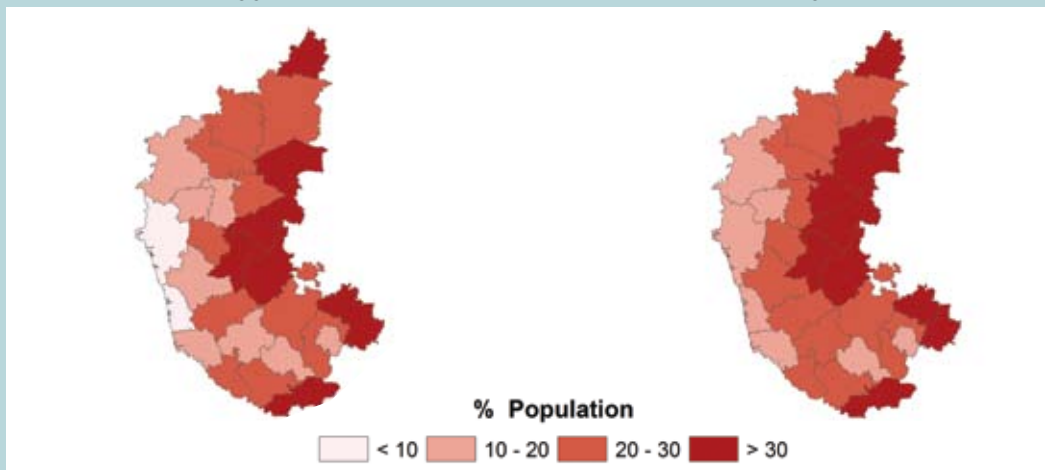
2011



Scheduled Caste and Scheduled Tribe Population (%)

2001

2011





I.3. State Economy

TABLE I.3.1: Net State Domestic Product (NSDP) and Per Capita Income

Sector	At Current Prices (₹ crores)									
	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
State Domestic Product	148,729	174,911	203,819	243,028	278,534	300,747	368,338	406,821	462,395	516,516
1. Agriculture	24,402	30,346	30,766	36,281	37,445	42,990	57,821	56,997	60,638	59,715
2. Forestry & Logging	4,051	4,816	5,114	6,103	7,023	6,022	8,742	8,537	11,349	13,253
3. Fishing	549	730	825	798	1,282	1,488	2,102	2,292	2,742	2,744
4. Agriculture & Allied (1+2+3)	29,002	35,892	36,704	43,182	45,750	50,499	68,666	67,826	74,729	75,713
As % of NSDP	19.50	20.52	18.01	17.77	16.43	16.79	18.64	16.67	16.16	14.66
Sub-total of Primary	30,595	37,778	39,086	47,588	50,007	54,064	74,780	71,040	77,818	78,931
As % of NSDP	20.57	21.60	19.18	19.58	17.95	17.98	20.30	17.46	16.83	15.28
Sub-total of Secondary	39,130	44,394	57,431	66,157	75,418	74,083	88,296	99,650	104,612	115,486
As % of NSDP	26.31	25.38	28.18	27.22	27.08	24.63	23.97	24.49	22.62	22.36
Services	79,004	92,739	107,302	129,284	153,108	172,600	205,263	236,131	279,966	322,099
As % of NSDP	53.12	53.02	52.65	53.20	54.97	57.39	55.73	58.04	60.55	62.36
Per Capita Income (₹)	26,882	31,239	35,981	42,419	48,084	51,364	62,251	68,053	76,578	84,709

Sector	At 2004-05 Prices (₹ crores)									
	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
State Domestic Product	148,729	164,031	181,086	203,810	218,309	218,363	240,817	248,040	259,500	274,531
1. Agriculture	24,402	27,224	26,095	29,997	30,276	31,376	36,579	33,287	31,869	32,236
2. Forestry & Logging	4,051	4,120	4,236	4,342	4,575	4,772	5,406	5,539	5,499	5,769
3. Fishing	549	629	553	581	735	738	957	991	876	958
4. Agriculture & Allied (1+2+3)	29,002	31,974	30,884	34,919	35,586	36,886	42,942	39,817	38,244	38,963
As % of NSDP	19.50	19.49	17.05	17.13	16.30	16.89	17.83	16.05	14.74	14.19
Sub-total of Primary	30,595	33,443	32,354	36,888	37,366	38,481	44,199	40,495	38,888	39,858
As % of NSDP	20.57	20.39	17.87	18.10	17.12	17.62	18.35	16.33	14.99	14.52
Sub-total of Secondary	39,130	41,901	50,594	55,024	57,791	54,988	60,858	62,440	60,562	64,122
As % of NSDP	26.31	25.54	27.94	27.00	26.47	25.18	25.27	25.17	23.34	23.36
Services	79,004	88,687	98,138	111,898	123,152	124,894	135,760	145,106	160,051	170,551
As % of NSDP	53.12	54.07	54.19	54.90	56.41	57.20	56.37	58.50	61.68	62.12
Per Capita Income (₹)	26,882	29,295	31,967	35,574	37,687	37,294	40,699	41,492	42,976	45,024

NOTE: This estimates are as on 01-08-2014.

SOURCE: Ministry of Statistics and Programme Implementation, Govt. of India.





I.3. State Economy

TABLE I.3.2: Value of Output: Agriculture and Livestock

Item	At Current Prices						
	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Value of Output (₹ billion)							
Agriculture & Allied	399	471	488	551	606	717	901
Agriculture	269	325	332	376	372	487	637
Livestock	74	79	84	92	113	139	155
Milk	45.1	47.2	49.5	53.8	65.3	82.0	90.9
Meat	11.8	13.4	13.8	14.2	21.6	24.0	25.0
Egg	2.3	2.3	2.7	2.9	5.4	6.8	8.4
Dung	4.9	4.5	5.5	5.8	6.1	6.8	6.5
Others^	10	11.5	12.3	15	14.9	19.0	23.8
Share of Value of Output to Agriculture and Allied (%)							
Agriculture	67.46	68.98	67.99	68.26	61.43	67.86	70.63
Livestock	18.55	16.76	17.17	16.65	18.7	19.34	17.16
Share of Value of Output to Livestock Output (%)							
Milk	60.9	59.7	59.1	58.6	57.7	59.1	58.8
Meat	15.9	17.0	16.4	15.5	19.1	17.3	16.2
Egg	3.2	3.0	3.3	3.2	4.7	4.9	5.4
Dung	6.7	5.7	6.5	6.4	5.4	4.9	4.2
Others^	13.4	14.6	14.7	16.4	13.2	13.7	15.4

Item	At Constant Prices (2004-05)						
	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Value of Output (₹ billion)							
Agriculture & Allied	399	426	419	457	429	507	583
Agriculture	269	292	282	318	312	346	415
Livestock	74	77	79	80	86	92	96
Milk	45.1	46.3	47.5	48.9	52.3	55.5	58.9
Meat	11.8	12.6	12.7	11.4	14.0	15.7	16.1
Egg	2.3	2.4	2.6	2.7	3.1	3.8	4.0
Dung	4.9	5.0	5.0	5.1	5.2	5.5	5.6
Others^	10.0	10.4	11.2	11.8	11.0	11.5	11.7
Share of Value of Output to Agriculture and Allied (%)							
Agriculture	67.46	68.55	67.27	69.53	72.63	68.26	71.17
Livestock	18.55	18.06	18.84	17.47	19.94	18.13	16.53
Share of Value of Output to Livestock Output (%)							
Milk	60.9	60.3	60.2	61.2	61.1	60.4	61.1
Meat	15.9	16.4	16.1	14.3	16.4	17.0	16.7
Egg	3.2	3.2	3.3	3.3	3.7	4.2	4.2
Dung	6.7	6.6	6.3	6.3	6.0	6.0	5.8
Others^	13.4	13.6	14.2	14.8	12.9	12.5	12.1

^ Includes Wool and Hair, Silkworm Cocoons & Honey, Increment in Stock.

SOURCE: Ministry of Statistics and Programme Implementation, Govt. of India.



I.3. State Economy

TABLE I.3.3: Fund Utilisation for Animal Husbandry under Rashtriya Krishi Vikas Yojana (RKVY) in Karnataka

Parameters	Fund Utilisation (₹ crores)							Grand Total
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	
Fodder Development			2.00	1.00	30.00	38.11	3.00	74.11
Animal Health and Extension Services		8.12	8.00	6.00	2.80	10.16	6.18	41.26
Animal Vaccine Production and Diagnostic		19.47	7.00	4.50	3.00		4.50	38.47
Poultry Development		7.15	6.48	5.00	0.60	11.25		30.48
National Mission of Protein Supplements					18.50		6.75	25.25
Infrastructure and Research Development in Veterinary University					8.84	4.21	13.05	3.00
Genetic Upgradation of Cattle and Buffaloes			5.00	1.00	5.10			11.10
Piggery Development		3.88	2.69		1.50			8.07
Sheep and Goat Development		2.75	2.70	1.00				6.45
Establishment/ Modernization of Veterinary hospital			2.11	2.00	1.50			5.61
Others							4.95	4.95
Establishment/ Improvement of Nandini Semen Station			4.50					4.50
Animal Disease Surveillance			1.44	0.50				1.94
Farmers' training			1.70					1.70
Augmenting Livestock Productivity Through Efficient Fodder					1.00			1.00
Grand Total		41.37	43.62	21.00	64.00	68.36	29.59	267.94

SOURCE: RKVY, Department of Agriculture and Cooperation, Ministry of Agriculture, Govt. of India ([http://rkvymis.dacnet.nic.in/\(S\(d10uvnk3z1e3umnob4nuzt1o\)\)/reports/sectoryearProjects.aspx](http://rkvymis.dacnet.nic.in/(S(d10uvnk3z1e3umnob4nuzt1o))/reports/sectoryearProjects.aspx)) Accessed on 30th January, 2015.



I.3. State Economy

TABLE I.3.4: Fund Utilisation for Dairying under Rashtriya Krishi Vikas Yojana (RKVY) in Karnataka

Parameters	Fund Utilisation (₹ crores)							Grand Total
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	
Support for Dairy Development/ Milk Production/ Procurement			3.00					3.00
Dairy Development and Dairy Infrastructure*						32.85	22.00	54.85
Grand Total			3.00			32.85	22.00	57.85

SOURCE: RKVY, Department of Agriculture and Cooperation, Ministry of Agriculture, Govt of India ([http://rkvymis.dacnet.nic.in/\(S\(d10uvnk3z1e3umnob4nuzt1o\)\)/reports/sectoryearProjects.aspx](http://rkvymis.dacnet.nic.in/(S(d10uvnk3z1e3umnob4nuzt1o))/reports/sectoryearProjects.aspx)) Accessed on 30th January, 2015.

* These expenses are mentioned under Animal Husbandry sector.

TABLE I.3.5: Plan Outlay and Expenditure on Animal Husbandry and Dairy Development

(₹ Lakh)

Plan Period	Plan Outlay			Plan Expenditure (April-March)		
	Animal Husbandry (Revised)	Dairy Development (Revised)	Total	Animal Husbandry (Revised)	Dairy Development (Revised)	Total
Annual Plan 2005-2006	6,248.68	1,051.47	7,300.15	4,999.58	980.47	5,980.05
Annual Plan 2006-2007	7,008.67	1,990.00	8,998.67	7,129.47	679.98	7,809.45
Annual Plan 2007-2008	8,921.89	2,300.00	11,221.89	8,337.21	208.89	8,546.10
Annual Plan 2008-2009	17,407.57	13,135.00	30,542.57	16,122.56	11,503.61	27,626.17
Annual Plan 2009-2010	20,888.92	30,225.00	51,113.92	18,210.95	24,977.00	43,187.95
Annual Plan 2010-2011	24,112.84	33,495.00	57,607.84	21,358.98	31,402.04	52,761.02
Annual Plan 2011-2012	35,571.06	39,100.00	74,671.06	31,403.70	36,708.56	68,112.26
Annual Plan 2012-2013	36,024.80	35,535.00	71,559.80	27,689.17	34,086.44	61,775.61
Annual Plan 2013-2014	48,413.21	95,950.00	144,363.21	42,733.46	85,362.69	128,096.15

SOURCE: Animal Husbandry and Dairying Statistics, Directorate of Animal Husbandry, Government of Karnataka.



I.3. State Economy

TABLE I.3.6: Non Plan Outlay and Expenditure on Animal Husbandry and Dairy Development

Plan Period	Non Plan (Apr-Mar) (₹ lakh)	
	Budget	Expenditure
Annual Plan 2005-2006	13,733.1	13,405.98
Annual Plan 2006-2007	15,750.00	13,501.00
Annual Plan 2007-2008	16,660.08	16,810.51
Annual Plan 2008-2009	18,737.24	19,263.15
Annual Plan 2009-2010	19,294.53	19,346.15
Annual Plan 2010-2011	21,678.85	21,996.41
Annual Plan 2011-2012	25,191.95	25,894.17
Annual Plan 2012-2013	28,515.47	29,970.37
Annual Plan 2013-2014	35,353.11	34,383.57

SOURCE: Animal Husbandry and Dairying Statistics, Directorate of Animal Husbandry, Government of Karnataka.



PART II : LIVESTOCK CENSUS

Karnataka is the 9th largest state in cattle and buffalo population in the country, accounting for 4.3 per cent of the total population as per the latest Livestock Census, 2012. About half of the total bovine population is indigenous cattle and the rest is almost equally shared by crossbred cattle and buffalo population. The share of crossbreds to bovine population has increased from 4 per cent in 1992 to 22 per cent in 2012, while that of buffalo has marginally increased from 24 per cent to 27 per cent.

Both indigenous cattle and buffalo population registered an annual decline of 4.5 per cent and 4.3 per cent respectively between 2007 and 2012 census periods, while that of crossbred cattle increased by 5.8 per cent. Farmers in the districts of Bangalore, Kolar, Chikkaballapura, Dakshina Kannada, Chamarajanagar, Mandya, Ramanagara etc have more than 40 per cent crossbred animals in their herds, which have helped them generate substantial income through dairying.





II.1. Animal Population

TABLE II.1.1: Summary of Livestock Census (1992-2012) - Karnataka

Population	Livestock Census				
	1992	1997	2003	2007	2012
Total Bovine	17,425,616	15,198,318	13,529,900	14,829,500	12,986,989
Total Cattle	13,174,714	10,831,134	9,538,967	10,502,520	9,516,484
Total Exotic/Crossbred Cattle	626,677	1,292,508	1,602,471	2,193,042	2,912,517
Female	478,242	1,137,963	1,463,300	2,000,107	2,707,335
under 1 year	88,298	217,591	278,158	377,952	524,390
1 to 2.5 years	92,102	178,617	233,239	288,655	353,977
In-milk	184,052	522,553	681,751	955,787	1,304,367
Dry	73,866	167,350	221,473	303,136	427,870
Milch	257,918	689,903	903,224	1,258,923	1,732,237
Not Calved Even Once	19,017	38,567	41,361	58,564	88,119
Others	20,907	13,285	7,318	16,013	8,612
Males	148,435	154,545	139,171	192,935	205,182
Total Indigenous Cattle	12,548,037	9,538,626	7,936,496	8,309,478	6,603,967
Female	6,392,141	5,027,367	4,259,808	4,546,230	3,832,093
under 1 year	931,967	904,808	767,703	804,864	700,377
1 to 3 years	1,171,853	759,919	686,485	713,811	591,298
In-milk	1,697,674	1,757,415	1,407,289	1,551,688	1,292,254
Dry	1,698,606	1,220,615	1,093,164	1,104,189	908,274
Milch	3,396,280	2,978,030	2,500,453	2,655,877	2,200,528
Not Calved Even Once	208,464	314,896	258,450	290,213	308,258
Others	683,577	69,714	46,717	81,465	31,632
Males	6,155,896	4,511,259	3,676,688	3,763,248	2,771,874
Total Buffaloes	4,250,902	4,367,184	3,990,933	4,326,980	3,470,505
Female	3,510,947	3,735,606	3,526,720	3,828,648	3,110,131
under 1 year	560,146	728,177	682,658	716,221	641,309
1 to 3 years	589,704	502,824	484,050	512,120	413,078
In-milk	1,219,744	1,596,829	1,445,928	1,583,979	1,295,061
Dry	985,118	738,344	769,563	789,920	602,843
Milch	2,204,862	2,335,173	2,215,491	2,373,899	1,897,904
Not Calved Even Once	110,060	139,806	124,573	173,577	143,346
Others	46,175	29,626	19,948	52,831	14,494
Males	739,955	631,578	464,213	498,332	360,374

SOURCE: 15th, 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.1. Animal Population

TABLE II.1.2: District-wise Total Bovine Population

Districts	Indigenous Cattle ('000)				Crossbred Cattle ('000)				Buffalo ('000)			
	1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
KARNATAKA	9,538	7,936	8,309	6,604	1,293	1,602	2,193	2,913	4,367	3,991	4,327	3,471
Bagalkot	261	220	274	237	11	18	31	43	198	201	253	235
Bangalore Rural	553	257	51	36	201	156	115	122	195	76	29	24
Bangalore Urban	78	44	29	21	107	115	98	116	27	15	11	8
Belgaum	445	444	488	416	55	64	111	177	651	702	860	829
Bellary	398	359	374	313	28	9	17	31	186	187	208	142
Bidar	253	248	264	220	24	13	13	15	161	170	176	131
Bijapur	249	230	279	248	4	2.2	1.2	5	152	146	191	157
Chamarajanagar	276	184	171	120	42	84	103	143	45	37	28	21
Chikmagalur	370	333	336	258	21	32	50	80	115	106	98	71
Chikkaballapura			106	84			131	163			48	47
Chitradurga	309	298	317	241	10	16	24	35	173	179	194	153
Dakshina Kannada	291	231	230	114	64	109	167	140	58	26	15	4
Davanagere	331	275	284	208	49	74	111	124	221	219	223	176
Dharwad	192	166	178	150	29	28	42	44	89	90	100	80
Gadag	190	125	143	119	22	14	15	24	93	61	80	61
Gulbarga	810	806	893	460	14	13	14	13	218	224	249	91
Hassan	558	451	473	337	56	90	160	269	208	194	191	141
Haveri	307	267	255	225	31	37	56	60	128	123	120	98
Kodagu	121	93	87	56	17	23	33	33	44	32	27	15
Kolar	366	228	89	55	166	239	152	174	147	123	50	46
Koppal	250	216	228	235	10	13	17	26	90	97	109	78
Mandya	274	210	198	153	68	108	151	214	192	170	169	146
Mysore	499	425	472	316	67	96	145	233	84	69	67	45
Raichur	390	347	394	337	11	13	12	22	152	176	210	137
Ramanagara			178	134			88	125			41	31
Shimoga	534	481	499	456	43	59	81	112	224	194	191	149
Tumkur	560	440	448	303	38	62	141	224	269	216	242	181
Udupi	316	247	239	155	70	91	80	97	86	49	27	9
Uttara Kannada	360	310	332	290	35	28	35	47	160	109	118	88
Yadgir				308				3				77

SOURCE: 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.1. Animal Population

TABLE II.1.3: District-wise Female Population

Districts	Indigenous Cattle ('000)				Crossbred Cattle ('000)				Buffalo ('000)			
	1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
KARNATAKA	5,027	4,260	4,546	3,832	1,138	1,463	2,000	2,707	3,736	3,527	3,829	3,110
Bagalkot	127	109	145	135	9	16	28	40	180	183	229	212
Bangalore Rural	374	184	30	24	186	152	113	120	182	73	28	24
Bangalore Urban	50	29	18	15	100	109	94	111	25	14	10	8
Belgaum	161	181	211	202	46	56	96	159	594	645	788	762
Bellary	192	175	185	162	22	8	15	28	163	169	185	127
Bidar	127	126	141	128	17	11	11	12	142	150	156	115
Bijapur	107	98	130	131	3	2	1	4	136	131	168	139
Chamarajanagar	158	105	95	75	38	73	91	130	39	33	25	19
Chikmagalur	200	185	191	161	18	28	45	72	91	88	82	61
Chikkaballapura			56	48			129	159			47	45
Chitradurga	126	121	138	111	9	15	22	32	151	162	173	134
Dakshina Kannada	211	181	184	100	55	96	142	127	18	8	5	2
Davanagere	152	127	137	94	42	66	96	110	193	196	198	154
Dharwad	69	59	66	62	23	23	35	39	79	82	90	72
Gadag	73	51	58	53	17	12	13	22	81	56	71	55
Gulbarga	416	424	487	252	10	9	11	10	187	199	217	81
Hassan	323	277	290	224	49	81	144	250	183	175	171	128
Haveri	117	96	91	72	26	32	49	53	114	111	107	88
Kodagu	62	50	47	36	14	18	25	27	26	21	17	10
Kolar	177	118	43	26	155	233	148	169	138	119	48	44
Koppal	121	110	120	136	8	10	14	23	82	88	98	69
Mandya	174	139	130	105	64	105	148	211	180	163	162	141
Mysore	281	237	267	192	61	84	128	209	75	63	61	41
Raichur	191	181	217	195	8	11	10	20	131	158	187	124
Ramanagara			137	110			84	121			39	29
Shimoga	281	261	285	275	36	51	71	99	172	154	152	120
Tumkur	316	264	267	214	34	59	136	216	238	197	223	168
Udupi	250	205	195	134	61	82	72	88	18	9	4	2
Uttara Kannada	194	167	185	174	30	24	30	42	117	81	88	68
Yadgir				186				2				69

SOURCE: 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.1. Animal Population

TABLE II.1.4: District-wise Breedable Population

Districts	Indigenous Cattle ('000)				Crossbred Cattle ('000)				Buffalo ('000)			
	1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
KARNATAKA	3,743	3,149	3,382	2,836	831	1,069	1,478	2,006	2,756	2,602	2,856	2,262
Bagalkot	88	79	107	98	6	12	20	29	130	133	169	151
Bangalore Rural	281	144	23	19	132	114	86	91	139	55	22	18
Bangalore Urban	39	23	13	11	75	84	72	84	19	11	8	6
Belgaum	120	138	164	155	35	42	73	121	443	489	608	570
Bellary	140	127	133	118	16	6	11	21	120	124	136	92
Bidar	88	87	98	88	12	7	8	9	99	103	108	79
Bijapur	78	71	94	96	2	1	1	3	97	94	122	100
Chamarajanagar	114	79	70	56	28	52	64	94	30	25	19	13
Chikmagalur	147	133	141	120	13	20	32	52	68	64	61	44
Chikkaballapura			44	38			104	122			37	33
Chitradurga	93	89	101	84	6	10	16	24	110	118	127	98
Dakshina Kannada	147	123	128	72	38	66	98	87	13	6	3	1
Davanagere	112	94	100	69	30	47	69	79	142	146	148	111
Dharwad	50	42	48	44	17	17	25	28	59	60	67	51
Gadag	55	37	42	39	13	8	10	16	60	42	52	39
Gulbarga	293	298	348	173	7	7	8	7	132	142	156	55
Hassan	254	215	227	173	35	59	106	186	134	129	128	92
Haveri	85	70	65	52	19	23	35	38	83	82	78	63
Kodagu	45	36	34	25	9	12	18	19	20	15	13	7
Kolar	141	92	34	20	119	178	114	130	106	90	38	33
Koppal	90	78	89	95	6	7	10	16	61	63	71	49
Mandya	153	122	116	95	49	79	114	164	139	125	124	107
Mysore	220	185	212	153	44	60	94	155	56	47	46	30
Raichur	137	128	155	139	6	7	7	13	95	112	134	86
Ramanagara			110	83			65	91			29	21
Shimoga	205	190	211	201	26	36	51	72	126	114	113	88
Tumkur	250	210	211	172	24	43	101	164	176	147	167	124
Udupi	177	143	130	93	43	57	49	61	13	6	3	1
Uttara Kannada	142	119	134	125	22	17	21	30	87	60	65	49
Yadgir				131				1				48

SOURCE: 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.





II.1. Animal Population

TABLE II.1.5: District-wise In-milk Population

Districts	Indigenous Cattle ('000)				Crossbred Cattle ('000)				Buffalo ('000)			
	1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
KARNATAKA	1,757	1,407	1,552	1,292	523	682	956	1,304	1,597	1,446	1,584	1,295
Bagalkot	53	43	58	51	4	9	13	16	81	76	92	82
Bangalore Rural	113	52	12	9	80	78	57	62	87	34	14	12
Bangalore Urban	21	12	8	6	54	57	52	60	13	7	5	4
Belgaum	70	80	92	80	22	27	46	76	276	301	361	337
Bellary	69	59	67	55	9	3	6	13	64	62	73	48
Bidar	54	52	58	51	7	5	5	6	64	65	69	51
Bijapur	47	40	54	51	1	1	1	2	61	55	70	57
Chamarajanagar	49	31	29	27	18	31	41	58	17	12	9	7
Chikmagalur	73	62	68	53	7	12	20	33	36	32	30	23
Chikkaballapura			17	17			68	80			20	20
Chitradurga	44	38	47	36	4	6	10	15	59	58	64	51
Dakshina Kannada	79	62	62	35	23	41	58	53	7	3	2	1
Davanagere	59	44	49	34	18	26	41	48	79	70	75	62
Dharwad	29	24	26	24	10	11	15	18	36	35	39	30
Gadag	27	18	24	19	7	5	6	9	32	22	30	22
Gulbarga	154	146	168	86	4	4	5	5	73	73	78	31
Hassan	95	80	88	68	21	37	68	121	71	71	71	55
Haveri	43	33	34	26	11	13	21	23	46	39	43	35
Kodagu	22	16	16	12	6	7	10	10	9	7	6	4
Kolar	65	34	14	10	81	119	78	91	68	53	22	22
Koppal	52	43	45	53	3	4	6	10	35	35	38	29
Mandya	30	16	12	8	33	51	75	110	87	75	73	66
Mysore	81	70	78	57	29	39	64	105	31	26	25	19
Raichur	72	66	80	66	3	4	4	8	49	60	70	45
Ramanagara			43	39			43	63			18	13
Shimoga	93	81	88	80	16	22	31	44	61	56	55	43
Tumkur	94	75	85	70	15	27	67	107	95	82	97	75
Udupi	100	80	72	52	27	37	33	41	8	4	1	1
Uttara Kannada	72	51	58	60	13	10	13	18	52	34	35	28
Yadgir				57				1				23

SOURCE: 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.1. Animal Population

TABLE II.1.6: District-wise Milch Population

Districts	Indigenous Cattle ('000)				Crossbred Cattle ('000)				Buffalo ('000)			
	1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
KARNATAKA	2,978	2,500	2,656	2,201	690	903	1,259	1,732	2,335	2,215	2,374	1,898
Bagalkot	72	65	86	78	5	10	16	23	109	111	135	120
Bangalore Rural	222	113	20	16	108	100	73	80	120	48	18	16
Bangalore Urban	31	18	11	9	65	71	63	75	16	9	7	5
Belgaum	100	117	134	125	29	36	62	104	376	421	509	477
Bellary	112	108	109	96	14	5	9	18	97	106	113	77
Bidar	73	75	81	74	9	6	7	7	84	91	93	68
Bijapur	68	61	80	79	2	1	1	3	85	82	104	84
Chamarajanagar	85	59	53	43	23	43	55	79	25	20	15	11
Chikmagalur	121	108	116	99	10	16	28	46	57	54	51	38
Chikkaballapura			37	31			90	104			32	27
Chitradurga	76	73	83	68	5	9	14	21	93	100	106	83
Dakshina Kannada	117	94	96	55	30	53	77	71	10	4	3	1
Davanagere	92	77	81	57	25	39	58	67	120	122	120	94
Dharwad	41	35	39	37	14	14	21	24	50	51	56	43
Gadag	45	31	34	31	10	7	8	13	49	35	43	33
Gulbarga	245	251	287	143	6	6	6	6	113	122	129	47
Hassan	193	165	173	125	29	51	93	163	115	111	109	79
Haveri	69	57	54	43	15	19	30	33	70	69	66	54
Kodagu	37	29	28	20	8	10	14	16	17	12	10	6
Kolar	113	71	26	16	102	152	99	114	92	76	32	29
Koppal	76	65	72	78	5	6	9	14	53	54	59	42
Mandya	86	54	49	28	41	67	98	142	121	107	106	90
Mysore	169	142	161	106	38	51	82	136	49	41	38	25
Raichur	113	105	122	114	5	6	5	11	78	93	105	71
Ramanagara			88	65			57	81			26	18
Shimoga	163	150	163	152	21	30	42	61	103	94	91	71
Tumkur	205	168	170	135	21	37	87	144	151	127	143	108
Udupi	140	114	101	74	35	47	40	51	11	5	2	1
Uttara Kannada	115	95	103	98	18	14	17	24	74	51	53	40
Yadgir				107				1				40

SOURCE: 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.1. Animal Population

TABLE II.1.7: District-wise Male Population

Districts	Indigenous Cattle ('000)				Crossbred Cattle ('000)				Buffalo ('000)			
	1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
KARNATAKA	4,511	3,677	3,763	2,772	155	139	193	205	631	464	498	360
Bagalkot	134	111	129	101	2	2	3	3	18	18	24	23
Bangalore Rural	179	73	21	12	15	4	2	3	13	3	1	1
Bangalore Urban	28	15	11	6	7	6	4	5	2	1	1	1
Belgaum	284	263	277	214	9	8	15	18	57	57	72	68
Bellary	206	184	189	151	6	1	2	3	23	18	23	15
Bidar	126	122	123	92	7	2	2	2	19	20	20	15
Bijapur	142	132	149	117	1	0.2	0.2	1	16	15	23	18
Chamarajanagar	118	79	76	45	4	11	12	13	6	4	3	2
Chikmagalur	170	148	145	97	3	4	5	7	24	18	16	10
Chikkaballapura			50	35			2	3			1	2
Chitradurga	183	177	179	130	1	1	2	3	22	17	21	18
Dakshina Kannada	80	50	46	14	9	13	25	13	40	18	10	2
Davanagere	179	148	147	114	7	8	15	14	28	23	25	22
Dharwad	123	107	112	87	6	5	7	5	10	8	10	8
Gadag	117	74	85	66	5	2	2	3	12	5	9	5
Gulbarga	394	382	406	209	4	4	3	2	31	25	32	11
Hassan	235	174	183	113	7	9	16	19	25	19	20	13
Haveri	190	171	164	152	5	5	7	7	14	12	13	11
Kodagu	59	43	40	20	3	5	8	6	18	11	10	4
Kolar	189	110	46	29	11	6	4	4	9	4	2	2
Koppal	129	106	108	99	2	3	3	3	8	9	11	9
Mandya	100	71	68	48	4	3	3	3	12	7	7	5
Mysore	218	188	205	124	6	12	17	24	9	6	6	5
Raichur	199	166	177	142	3	2	2	2	21	18	23	13
Ramanagara			41	25			4	5			2	1
Shimoga	253	220	214	181	7	8	10	13	52	40	39	29
Tumkur	244	176	181	89	4	3	5	8	31	19	19	13
Udupi	66	42	44	21	9	9	8	9	68	40	23	7
Uttara Kannada	166	143	147	115	5	4	5	6	43	28	30	20
Yadgir				122				0				8

SOURCE: 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.
Zero denotes either nil or negligible.



II.2. Sex Ratio in Dairy Animals

TABLE II.2.1: District-wise Male - Female Ratio

Districts	Indigenous Cattle (%)				Crossbred Cattle (%)				Buffalo (%)			
	1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
KARNATAKA	47	46	45	42	12	9	9	7	14	12	12	10
Bagalkot	51	50	47	43	20	10	11	7	9	9	10	10
Bangalore Rural	32	28	41	33	8	2	1	2	7	4	3	4
Bangalore Urban	36	33	39	29	7	5	4	4	9	6	7	11
Belgaum	64	59	57	51	16	12	13	10	9	8	8	8
Bellary	52	51	51	48	22	12	14	10	12	10	11	11
Bidar	50	49	47	42	30	18	17	14	12	12	12	12
Bijapur	57	57	53	47	29	17	15	20	10	10	12	11
Chamarajanagar	43	43	44	38	9	13	11	9	12	11	11	10
Chikmagalur	46	44	43	38	16	12	10	9	21	17	16	14
Chikkaballapura			47	42			2	2			2	4
Chitradurga	59	59	56	54	15	9	8	9	13	9	11	12
Dakshina Kannada	28	22	20	12	15	12	15	9	69	70	67	50
Davanagere	54	54	52	55	14	11	14	11	13	10	11	13
Dharwad	64	65	63	58	22	16	16	11	12	9	10	10
Gadag	62	59	59	55	23	14	13	12	13	8	12	8
Gulbarga	49	47	45	45	29	30	23	17	14	11	13	12
Hassan	42	39	39	34	13	10	10	7	12	10	11	9
Haveri	62	64	64	68	15	14	13	12	11	10	11	11
Kodagu	49	46	46	36	19	22	24	18	40	35	38	29
Kolar	52	48	52	53	7	2	3	2	6	4	4	4
Koppal	52	49	47	42	20	22	15	12	9	9	10	12
Mandya	36	34	34	31	6	2	2	1	6	4	4	3
Mysore	44	44	43	39	9	12	12	10	11	9	9	11
Raichur	51	48	45	42	26	14	14	9	14	10	11	9
Ramanagara			23	19			5	4			4	3
Shimoga	47	46	43	40	16	14	12	12	23	21	20	19
Tumkur	44	40	40	29	10	5	3	4	12	9	8	7
Udupi	21	17	19	14	13	10	10	9	79	82	86	78
Uttara Kannada	46	46	44	40	14	13	14	13	27	26	26	23
Yadgir				40				17				10

SOURCE: Estimated from 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.3. Wet-Dry Ratio of Dairy Animals

TABLE II.3.1: District-wise Wet-Dry Ratio

Districts	Indigenous Cattle (%)				Crossbred Cattle (%)				Buffalo (%)			
	1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
KARNATAKA	59	56	58	59	76	76	76	75	68	65	67	68
Bagalkot	72	66	67	65	77	85	81	71	74	68	68	68
Bangalore Rural	51	46	60	58	74	78	78	78	73	71	78	75
Bangalore Urban	68	67	73	68	83	80	83	81	81	78	71	78
Belgaum	70	68	69	64	76	75	74	73	73	71	71	71
Bellary	62	55	61	57	68	67	67	71	66	58	65	63
Bidar	74	69	72	70	74	70	71	76	76	71	74	74
Bijapur	69	66	68	64	69	69	69	68	72	67	67	67
Chamarajanagar	58	53	55	63	78	72	75	73	68	60	60	66
Chikmagalur	60	57	59	53	73	73	71	70	63	59	59	61
Chikkaballapura			46	54			76	76			63	73
Chitradurga	58	52	57	53	71	71	71	71	63	58	60	61
Dakshina Kannada	68	66	65	63	74	76	75	74	70	65	67	64
Davanagere	64	57	60	61	72	67	71	72	66	57	63	66
Dharwad	71	69	67	65	74	74	71	73	72	69	70	69
Gadag	60	58	70	60	68	67	75	70	65	61	70	67
Gulbarga	63	58	59	60	71	68	73	77	65	60	60	65
Hassan	49	48	51	54	72	73	73	74	62	64	65	69
Haveri	62	58	63	61	71	68	70	69	66	57	65	65
Kodagu	59	55	57	58	71	70	71	66	53	55	60	60
Kolar	58	48	54	63	79	78	79	80	74	70	69	77
Koppal	68	66	63	69	72	69	67	70	66	65	64	70
Mandya	35	30	24	29	80	76	77	77	72	70	69	73
Mysore	48	49	48	54	76	76	78	77	63	63	66	73
Raichur	64	63	66	58	60	71	65	76	63	65	67	63
Ramanagara			49	59			75	78			69	73
Shimoga	57	54	54	52	74	73	74	73	59	60	60	61
Tumkur	46	45	50	52	72	73	77	74	63	65	68	70
Udupi	71	70	71	70	76	79	82	80	73	72	66	64
Uttara Kannada	63	54	56	62	73	74	76	74	70	67	66	70
Yadgir				54				62				59

SOURCE: Estimated from 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.4. Livestock Density

TABLE II.4.1: District-wise Density of Total Livestock and Bovine

Districts	Livestock (No. per sq km)					Bovine (No. per sq km)				
	1992	1997	2003	2007	2012	1992	1997	2003	2007	2012
KARNATAKA	155	149	134	161	144	91	79	71	77	68
Bagalkot		172	175	256	244		71	67	85	78
Bangalore Rural	217	332	160	188	172	123	164	84	85	80
Bangalore Urban	207	176	130	120	130	124	96	79	63	66
Belgaum	179	188	198	224	204	94	86	90	109	106
Bellary	179	182	140	181	170	96	72	65	70	57
Bidar	141	122	120	139	115	93	81	80	84	67
Bijapur	133	100	95	123	106	58	39	36	45	39
Chamarajanagar		109	94	98	92		65	54	54	51
Chikmagalur	122	88	81	91	76	93	70	65	67	57
Chikkaballapura				209	207				68	70
Chitradurga	117	171	171	220	191	61	59	59	64	51
Dakshina Kannada	128	93	80	91	59	121	84	75	84	53
Davanagere		164	151	189	162		102	96	105	86
Dharwad	142	102	89	105	96	83	72	66	74	63
Gadag		136	109	155	123		65	43	51	43
Gulbarga	129	131	129	155	96	74	64	64	71	51
Hassan	208	167	146	171	149	143	121	108	121	110
Haveri		180	158	178	161		97	89	90	80
Kodagu	80	57	44	44	32	63	44	36	36	25
Kolar	210	194	177	187	203	99	83	72	73	69
Koppal		123	128	186	188		63	58	63	61
Mandya	333	228	208	231	225	144	107	98	104	103
Mysore	175	160	152	181	157	109	103	94	109	94
Raichur	135	141	143	186	171	73	66	64	73	59
Ramanagara				200	162				88	83
Shimoga	168	109	95	101	96	143	94	86	91	85
Tumkur	211	200	183	230	199	99	82	68	78	67
Udupi		133	109	97	75		131	108	96	73
Uttara Kannada	63	56	46	49	43	60	54	43	47	41
Yadgir					216					74

SOURCE: Estimated from 15th, 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.4. Livestock Density

TABLE II.4.2: District-wise Density of Small Ruminants and Poultry

Districts	Small Ruminants (No. per sq km)					Poultry (No. per sq km)			
	1992	1997	2003	2007	2012	1997	2003	2007	2012
KARNATAKA	61	67	61	82	75	112	133	219	279
Bagalkot		98	102	167	160	88	127	169	208
Bangalore Rural	92	167	75	103	89	407	671	1773	3550
Bangalore Urban	81	75	47	55	55	650	291	657	1101
Belgaum	84	98	105	113	96	71	63	99	204
Bellary	82	106	73	109	111	189	244	412	320
Bidar	44	38	36	51	43	122	109	139	75
Bijapur	73	58	56	75	64	41	35	33	29
Chamarajanagar		44	40	44	41	36	41	50	67
Chikmagalur	25	16	15	24	19	56	61	197	164
Chikkaballapura				140	136			260	395
Chitradurga	56	111	111	155	139	72	107	210	287
Dakshina Kannada	4	5	3	5	5	220	177	268	351
Davanagere		61	54	83	76	138	258	341	541
Dharwad	58	28	22	30	32	71	71	102	210
Gadag		70	66	103	78	41	30	36	33
Gulbarga	53	65	63	82	43	44	45	56	33
Hassan	63	45	37	49	38	105	111	181	379
Haveri		82	68	87	80	110	107	128	184
Kodagu	3	2	1	2	2	82	65	78	51
Kolar	106	108	102	114	133	122	232	859	1069
Koppal		59	69	120	126	136	375	654	631
Mandya	133	119	109	125	121	187	146	325	259
Mysore	65	56	57	72	61	167	284	522	487
Raichur	61	73	78	111	111	33	64	44	44
Ramanagara				111	78			250	367
Shimoga	24	14	9	10	11	114	67	196	205
Tumkur	110	117	114	150	131	75	60	116	199
Udupi			1	1	2	269	234	306	332
Uttara Kannada	2	2	3	1	1	70	55	66	52
Yadgir					138				53

SOURCE: Estimated from 15th, 16th, 17th, 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.





II.5. Breed-wise Population

TABLE II.5.1: District and Breed-wise Population of Indigenous Cattle in Karnataka - 2007

Districts	Breed-wise Population of Indigenous Cattle ('000)							Total Indigenous Cattle
	Amritmahal	Deoni	Hallikar	Khilari	Krishna Valley	Malnad Gidda	Non-descript Cattle	
KARNATAKA	96	69	1,999	453	2	1,282	4,409	8,309
Bagalkot	0	0	0	36	1	0	236	274
Bangalore Rural	0	0	40	0	0	0	10	51
Bangalore Urban	1	0	23	0	0	0	4	29
Belgaum	0	0	2	152	0	10	325	488
Bellary	1	1	37	0	0	0	335	374
Bidar	0	38	0	2	0	0	224	264
Bijapur	0	0	0	81	0	0	197	278
Chamarajanagar	3	0	120	0	0	1	47	171
Chikmagalur	39	0	21	0	0	139	137	336
Chikkaballapura	0	0	17	0	0	0	89	106
Chitradurga	9	4	58	0	0	0	246	317
Dakshina Kannada	0	0	0	0	0	201	29	230
Davanagere	12	0	74	3	0	2	192	284
Dharwad	1	0	27	37	0	14	99	179
Gadag	0	0	18	10	0	0	115	143
Gulbarga	0	24	1	60	0	0	808	893
Hassan	5	0	338	0	0	43	88	473
Haveri	2	0	97	49	0	46	60	255
Kodagu	0	0	6	0	0	75	6	87
Kolar	0	0	9	0	0	0	79	89
Koppal	0	0	4	2	0	0	222	229
Mandya	0	0	189	0	0	0	9	198
Mysore	1	0	371	0	0	0	100	471
Raichur	0	0	0	5	0	0	387	394
Ramanagara	0	0	158	0	0	0	19	178
Shimoga	14	0	71	3	0	295	116	499
Tumkur	4	0	305	0	0	0	138	448
Udupi	0	0	0	0	0	202	36	239
Uttara Kannada	2	0	10	10	0	255	55	332

SOURCE: 18th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India. Zero denotes either nil or negligible.



II.5. Breed-wise Population

TABLE II.5.2: District-wise Male, Female and Milch Animals of Amritmahal, Deoni and Hallikar Breeds - 2007

Districts	Amritmahal			Deoni			Hallikar		
	Male	Female	Milch	Male	Female	Milch	Male	Female	Milch
KARNATAKA	57,778	38,243	21,289	45,695	23,125	13,212	924,640	1,074,461	621,769
Bagalkot	42	30	16	19	45	29	262	149	81
Bangalore Rural	196	68	60	0	0	0	16,127	24,357	16,311
Bangalore Urban	276	231	145	191	224	120	9,323	14,354	8,864
Belgaum	20	23	17	80	94	69	1,238	263	160
Bellary	337	255	132	432	277	142	29,012	7,992	4,313
Bidar	0	0	0	21,576	16,163	9,366	57	74	52
Bijapur	17	110	89	0	3	0	34	55	36
Chamarajanagar	1,963	1,429	562	5	7	5	56,187	64,011	34,944
Chikmagalur	24,063	15,332	8,630	0	3	1	14,237	7,108	4,377
Chikkaballapura	8	41	33	0	5	3	10,016	6,694	4,279
Chitradurga	5,653	3,697	2,054	1,919	1,635	890	37,364	20,845	11,964
Dakshina Kannada	34	106	30	16	83	29	114	349	161
Davanagere	7,336	5,065	2,967	134	84	22	44,545	29,406	17,449
Dharwad	910	111	56	266	172	101	21,044	6,015	3,550
Gadag	87	96	58	85	89	53	14,760	3,134	1,830
Gulbarga	23	66	28	20,385	3,876	2,196	759	349	184
Hassan	1,984	2,521	1,411	0	0	0	128,748	209,269	122,269
Haveri	1,979	411	255	113	46	24	72,133	24,606	14,994
Kodagu	8	5	2	22	37	17	2,468	3,437	2,099
Kolar	40	26	12	0	0	0	7,360	1,646	994
Koppal	18	15	5	27	11	4	2,693	1,177	681
Mandya	117	105	30	0	1	0	63,362	125,888	46,163
Mysore	337	473	264	4	13	7	164,788	205,766	126,973
Raichur	13	10	0	186	129	62	126	131	82
Ramanagara	89	290	144	0	0	0	37,705	120,741	77,248
Shimoga	9,111	4,794	2,816	185	68	44	53,903	16,947	9,147
Tumkur	1,777	2,182	1,117	19	28	14	128,513	176,801	110,994
Udupi	52	169	111	0	0	0	162	259	62
Uttara Kannada	1,288	582	245	31	32	14	7,600	2,638	1,508

SOURCE: 18th Livestock Census, Directorate of Animal Husbandry, Govt. of Karnataka, Bangalore.



II.5. Breed-wise Population

TABLE II.5.3: District-wise Male, Female and Milch Animals of Khilari and Krishna Valley Breeds - 2007

Districts	Khilari			Krishna Valley		
	Male	Female	Milch	Male	Female	Milch
KARNATAKA	269,652	182,906	111,537	1,193	1,121	590
Bagalkot	17,254	19,162	11,658	325	461	196
Bangalore Rural	0	0	0	2	0	0
Bangalore Urban	32	93	30	36	81	20
Belgaum	78,259	73,275	47,766	85	22	18
Bellary	281	138	67	65	65	47
Bidar	1,645	413	244	8	12	5
Bijapur	44,571	36,174	21,318	35	6	4
Chamarajanagar	0	0	0	2	0	0
Chikmagalur	2	0	0	0	0	0
Chikkaballapura	0	0	0	2	0	0
Chitradurga	4	1	0	23	23	22
Dakshina Kannada	18	93	52	14	3	2
Davanagere	1,916	1,557	988	15	6	2
Dharwad	26,617	10,358	6,055	31	39	23
Gadag	7,334	2,820	1,622	1	1	1
Gulbarga	41,609	17,992	9,852	9	20	12
Hassan	0	0	0	6	3	2
Haveri	33,045	16,403	9,715	142	42	27
Kodagu	0	0	0	9	14	9
Kolar	8	10	3	27	6	3
Koppal	2,049	444	261	0	0	0
Mandya	0	0	0	0	0	0
Mysore	4	0	0	4	12	8
Raichur	3,361	1,932	913	204	121	76
Ramanagara	0	0	0	0	0	0
Shimoga	2,576	527	250	24	45	31
Tumkur	18	47	37	67	120	71
Udupi	23	19	0	0	2	0
Uttara Kannada	9,026	1,448	706	57	17	11

SOURCE: 18th Livestock Census, Directorate of Animal Husbandry, Govt. of Karnataka, Bangalore.



II.5. Breed-wise Population

TABLE II.5.4: District-wise Male, Female and Milch Animals of Malnad Gidda and Non-Descript Cattle - 2007

Districts	Malnad Gidda			Non-Descript Cattle		
	Male	Female	Milch	Male	Female	Milch
KARNATAKA	415,629	866,492	481,747	2,048,682	2,359,938	1,405,743
Bagalkot	12	0	0	111,079	125,392	74,221
Bangalore Rural	0	0	0	4,520	5,385	3,081
Bangalore Urban	10	32	16	1,314	2,760	1,601
Belgaum	5,647	4,272	2,668	191,728	132,809	83,650
Bellary	46	43	24	159,109	176,236	104,684
Bidar	0	0	0	99,795	124,092	71,708
Bijapur	0	0	0	104,203	93,242	58,297
Chamarajanagar	255	603	379	17,533	29,124	16,777
Chikmagalur	46,887	91,892	56,222	59,818	76,844	46,754
Chikkaballapura	0	0	0	39,873	49,333	32,291
Chitradurga	58	14	10	133,677	111,924	67,680
Dakshina Kannada	39,314	161,276	84,454	6,121	22,497	10,905
Davanagere	655	1,208	856	91,923	99,945	58,191
Dharwad	6,162	7,641	4,545	57,434	41,751	25,081
Gadag	6	0	0	62,749	52,031	30,766
Gulbarga	13	13	7	342,759	465,082	274,865
Hassan	16,124	26,471	15,738	36,456	51,814	33,818
Haveri	25,483	20,459	11,671	31,530	28,767	17,698
Kodagu	34,606	40,123	23,420	2,455	3,498	2,007
Kolar	8	0	0	38,519	40,888	24,866
Koppal	0	0	0	103,575	118,498	70,889
Mandya	22	66	36	4,521	4,284	2,878
Mysore	193	162	96	39,643	60,084	33,494
Raichur	97	259	141	172,879	214,429	120,803
Ramanagara	2	0	0	3,644	15,794	10,128
Shimoga	100,348	194,499	110,284	48,237	67,671	40,637
Tumkur	14	24	14	50,387	88,042	57,717
Udupi	38,497	163,839	84,588	5,652	30,750	16,154
Uttara Kannada	101,170	153,596	86,578	27,549	26,972	14,102

SOURCE: 18th Livestock Census, Directorate of Animal Husbandry, Govt. of Karnataka, Bangalore.



II.5. Breed-wise Population

TABLE II.5.5: District and Breed-wise Population of Exotic and Crossbred Animals in Karnataka - 2007

Districts	Crossbred Cattle Population ('000)					
	Exotic Cattle	Jersey Crossbred	Holstein Friesian Crossbred	Other Crossbred	Total Crossbred	Total Exotic & Crossbred
KARNATAKA	1	890	1,185	117	2,192	2,193
Bagalkot	0	13	16	2	31	31
Bangalore Rural	0	20	93	1	114	114
Bangalore Urban	0	20	76	2	98	98
Belgaum	0	48	55	7	111	111
Bellary	0	7	9	1	17	17
Bidar	0	7	6	1	14	14
Bijapur	0	1	1	0	1	1
Chamarajanagar	0	41	61	0	103	103
Chikmagalur	0	23	20	7	50	50
Chikkaballapura	0	33	95	3	131	131
Chitradurga	0	7	16	0	24	24
Dakshina Kannada	0	123	26	18	167	167
Davanagere	0	41	60	10	111	111
Dharwad	0	28	11	3	41	41
Gadag	0	10	4	1	15	15
Gulbarga	0	9	4	1	14	14
Hassan	0	57	84	19	160	160
Haveri	0	34	21	2	57	57
Kodagu	0	24	5	3	33	33
Kolar	0	37	114	0	152	152
Koppal	0	10	6	1	17	17
Mandya	0	44	105	2	151	152
Mysore	1	61	74	9	144	145
Raichur	0	5	6	1	11	11
Ramanagara	0	18	69	1	88	88
Shimoga	0	43	29	8	81	81
Tumkur	0	42	95	4	141	141
Udupi	0	54	16	10	79	79
Uttara Kannada	0	30	6	0	35	35

SOURCE: 18th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.

Zero denotes either nil or negligible.



II.5. Breed-wise Population

TABLE II.5.6: District-wise Male, Female and Milch Animals of Jersey and Holstein Friesian Exotic and Crossbreds - 2007

Districts	Jersey Crossbred			Holstein Friesian Crossbred			Other Crossbred		
	Male	Female	Milch	Male	Female	Milch	Male	Female	Milch
KARNATAKA	100,617	790,546	482,642	74,578	1,110,464	717,464	17,740	99,103	58,823
Bagalkot	1,709	10,986	6,629	1,443	14,700	8,591	228	1,881	960
Bangalore Rural	582	19,628	12,569	861	92,244	60,055	113	775	503
Bangalore Urban	1,726	18,700	12,133	2,553	73,429	49,385	119	1,614	1,163
Belgaum	6,185	41,735	27,122	6,867	48,537	31,288	1,775	5,614	3,496
Bellary	1,054	6,273	3,790	1,015	7,535	4,489	248	843	455
Bidar	1,148	5,382	3,088	1,035	5,084	2,937	156	830	476
Bijapur	81	487	293	95	490	313	6	45	27
Chamarajanagar	4,921	36,470	21,795	6,722	54,240	32,579	12	169	105
Chikmagalur	2,376	20,629	12,547	1,914	17,720	10,976	672	6,688	3,936
Chikkaballapura	459	32,712	22,017	541	94,243	66,681	515	2,163	1,498
Chitradurga	751	6,748	4,062	1,231	14,999	9,227	66	419	268
Dakshina Kannada	19,125	103,875	55,994	3,741	22,443	12,923	2,187	15,654	8,455
Davanagere	5,871	35,245	21,428	7,369	52,961	31,728	1,908	8,022	4,488
Dharwad	4,140	23,782	14,384	1,573	9,176	5,498	1,024	1,660	1,043
Gadag	1,137	8,906	5,421	598	3,782	2,316	236	753	361
Gulbarga	2,191	7,040	4,025	960	3,393	1,928	201	663	369
Hassan	6,270	50,921	32,811	7,620	75,888	49,426	2,020	17,235	10,595
Haveri	4,125	29,431	17,808	2,797	18,600	11,491	337	1,342	828
Kodagu	5,769	18,297	10,874	1,079	4,316	2,346	1,121	2,098	1,174
Kolar	1,723	35,400	23,620	2,289	111,983	74,598	64	415	265
Koppal	1,400	8,105	5,074	1,098	5,388	3,289	61	610	418
Mandya	1,405	42,998	27,819	1,955	103,313	68,420	41	1,856	1,374
Mysore	8,374	52,974	33,983	7,226	67,166	43,256	1,621	7,875	4,965
Raichur	723	3,921	2,163	530	5,222	2,910	300	578	341
Ramanagara	944	17,119	10,955	2,986	66,290	45,329	120	412	259
Shimoga	5,265	38,077	22,635	3,157	26,157	15,643	1,489	6,566	4,033
Tumkur	1,619	40,879	25,793	3,120	92,021	58,974	190	3,399	2,168
Udupi	5,394	48,379	27,259	1,404	14,389	8,070	835	8,741	4,706
Uttara Kannada	4,150	25,447	14,551	799	4,755	2,798	75	183	94

SOURCE: 18th Livestock Census, Directorate of Animal Husbandry, Govt. of Karnataka, Bangalore.



II.5. Breed-wise Population

TABLE II.5.7: District and Breed-wise Population of Buffalo in Karnataka - 2007

Districts	Buffalo Breed Population ('000)						
	Mehsana	Murrah	Pandharpuri	Surti	Total Graded	Non-descript	Total Buffalo
KARNATAKA	1	109	11	362	53	3,790	4,327
Bagalkot	0	4	0	14	0	235	254
Bangalore Rural	0	1	0	5	0	23	29
Bangalore Urban	0	1	0	4	0	6	11
Belgaum	1	29	4	38	21	767	860
Bellary	0	10	0	8	0	190	208
Bidar	0	3	1	6	0	167	177
Bijapur	0	2	2	6	0	181	191
Chamarajanagar	0	0	0	8	0	20	28
Chikmagalur	0	1	0	7	3	88	98
Chikkaballapura	0	1	0	2	0	44	48
Chitradurga	0	1	0	13	0	179	193
Dakshina Kannada	0	1	0	2	1	12	15
Davanagere	0	7	0	18	2	197	224
Dharwad	0	4	2	17	1	76	100
Gadag	0	2	0	9	0	68	80
Gulbarga	0	6	1	6	1	236	249
Hassan	0	1	0	21	1	168	191
Haveri	0	4	0	34	1	80	120
Kodagu	0	0	0	4	8	14	27
Kolar	0	1	0	5	0	44	50
Koppal	0	10	0	3	0	96	109
Mandya	0	2	0	31	1	135	169
Mysore	0	0	0	12	0	54	66
Raichur	0	8	0	5	2	196	211
Ramanagara	0	1	0	6	0	34	40
Shimoga	0	4	0	9	1	177	191
Tumkur	0	5	0	57	7	172	242
Udupi	0	0	0	2	0	25	27
Uttara Kannada	0	2	0	10	1	106	119

SOURCE: 18th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.5. Breed-wise Population

TABLE II.5.8: District-wise Male, Female and Milch Animals of Mehsana, Murrah and Pandharpuri Buffalo Breeds - 2007

Districts	Mehsana			Murrah			Pandharpuri		
	Male	Female	Milch	Male	Female	Milch	Male	Female	Milch
KARNATAKA	153	735	470	14,255	95,026	56,624	1,168	10,283	6,580
Bagalkot	4	67	30	424	3,619	1,903	16	232	124
Bangalore Rural	0	0	0	70	561	365	0	0	0
Bangalore Urban	4	29	19	77	558	370	13	87	49
Belgaum	84	511	345	3,735	24,907	15,742	434	3,591	2,525
Bellary	0	0	0	1,085	9,032	5,250	2	19	12
Bidar	0	0	0	426	2,479	1,415	81	492	313
Bijapur	1	16	7	264	2,212	1,379	111	1,620	866
Chamarajanagar	0	0	0	64	90	33	0	0	0
Chikmagalur	0	2	1	113	900	583	73	366	203
Chikkaballapura	0	0	0	34	1,315	742	0	0	0
Chitradurga	0	0	0	174	1,296	790	0	16	3
Dakshina Kannada	7	6	3	278	224	128	11	0	0
Davanagere	0	10	6	777	6,172	3,493	1	11	4
Dharwad	0	1	0	486	3,259	2,001	166	1,690	1,084
Gadag	0	0	0	325	1,876	1,072	17	191	143
Gulbarga	0	0	0	897	4,672	2,608	146	1,238	792
Hassan	0	0	0	103	601	358	0	0	0
Haveri	8	72	49	485	3,028	1,882	15	144	93
Kodagu	1	1	1	101	259	170	0	0	0
Kolar	0	0	0	52	673	464	0	22	13
Koppal	0	0	0	1,125	8,422	4,944	32	372	229
Mandya	0	0	0	62	1,681	1,103	0	0	0
Mysore	0	0	0	16	126	84	2	2	2
Raichur	0	18	8	1,002	7,241	4,101	12	28	19
Ramanagara	0	0	0	30	484	300	0	0	0
Shimoga	3	0	0	1,229	2,308	1,299	3	15	10
Tumkur	0	0	0	375	5,122	3,011	1	31	23
Udupi	40	1	1	19	3	2	0	0	0
Uttara Kannada	1	1	0	427	1,906	1,032	32	116	73

SOURCE: 18th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



II.5. Breed-wise Population

TABLE II.5.9: District-wise Male, Female and Milch Animals of Surti, Graded and Non-Descript Buffalo Breeds - 2007

Districts	Surti			Total Graded			Non-Descript Buffalo		
	Male	Female	Milch	Male	Female	Milch	Male	Female	Milch
KARNATAKA	38,868	323,037	198,777	8,546	44,608	28,767	435,342	3,354,966	2,082,687
Bagalkot	1,461	12,437	6,946	13	75	44	22,438	212,832	125,834
Bangalore Rural	147	4,974	3,498	14	302	133	502	22,126	14,341
Bangalore Urban	323	3,809	2,446	29	265	155	343	5,665	3,702
Belgaum	3,971	33,915	21,790	1,976	19,420	13,126	61,983	705,496	455,551
Bellary	741	6,903	4,120	7	135	71	21,109	168,491	103,119
Bidar	806	5,211	2,971	8	92	51	19,031	148,153	88,239
Bijapur	793	4,950	3,050	16	92	58	22,022	159,327	98,635
Chamarajanagar	789	7,584	4,414	0	19	7	2,282	17,606	10,874
Chikmagalur	1,296	5,259	3,100	480	2,042	1,061	13,891	73,868	46,179
Chikkaballapura	89	2,397	1,589	5	339	228	1,002	43,279	29,397
Chitradurga	1,437	11,428	6,493	36	235	152	19,018	159,528	98,063
Dakshina Kannada	1,515	955	497	434	174	99	7,949	3,569	1,821
Davanagere	1,801	16,238	9,717	152	1,683	1,002	22,546	174,203	106,075
Dharwad	1,776	15,433	9,593	158	986	643	7,717	68,420	42,859
Gadag	1,033	8,207	4,498	10	61	37	7,947	60,517	36,977
Gulbarga	839	4,664	2,516	140	863	422	30,302	205,507	122,638
Hassan	1,845	19,395	12,557	199	940	496	18,004	150,263	95,447
Haveri	3,271	30,931	18,865	211	1,204	701	9,264	71,198	44,264
Kodagu	1,203	2,456	1,475	2,814	5,659	3,620	5,982	8,314	4,883
Kolar	131	4,891	3,111	1	77	57	1,573	42,332	28,501
Koppal	330	2,686	1,748	2	38	16	9,586	86,265	52,205
Mandya	888	30,307	19,983	14	521	371	6,136	129,212	84,491
Mysore	1,112	10,918	6,987	15	81	50	4,616	49,339	30,832
Raichur	569	4,005	2,202	270	1,484	899	21,449	174,623	98,048
Ramanagara	225	5,416	3,386	2	90	60	1,439	32,610	22,023
Shimoga	1,357	7,940	4,620	230	767	460	36,231	141,107	84,986
Tumkur	5,043	52,383	32,365	843	6,472	4,410	12,800	158,786	102,896
Udupi	1,447	156	98	199	101	65	21,205	3,543	2,003
Uttara Kannada	2,630	7,189	4,142	268	391	273	26,975	78,787	47,804

SOURCE: 18th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Govt. of India.



PART III : CATTLE AND BUFFALO BREEDS

Karnataka has six indigenous cattle breeds of which the Deoni cattle breed is the only dual breed. Deoni male animals are used for ploughing and transportation, whereas cows yield up to 1,500 kg of milk per lactation. As the state does not have any prominent milch breed, the dairy farmers use crossbred cattle for milk production.

The balance five registered breeds are Amritmahal, Hallikar, Khilari, Krishna Valley and Malnad Gidda which are draught breeds. The male animal of these breeds is excellent for ploughing and transportation, whereas cows are poor milk yielders with an average milk yield of less than 500 kg per lactation. These animals are sturdy and can withstand adverse climatic conditions. Historically, Amritmahal cattle was used by Nawab Hyder Ali and Tipu Sultan for carrying ammunition into the battlefield on rough roads and across difficult terrains. Both Amritmahal and Krishna Valley breeds are being considered for conservation under recently launched 'Rashtriya Gokul Mission'.

Pandharpuri buffaloes are reared mostly in northern Karnataka. The breed is popular due to rapid reproductive ability. Normally, this buffalo yields 6-7 liters of milk per day. But under good management, the yield can go up to 15 liters.





III.1. Distribution of Native Breeds of Karnataka

TABLE III.1.1: Distribution of Cattle Breeds of Karnataka

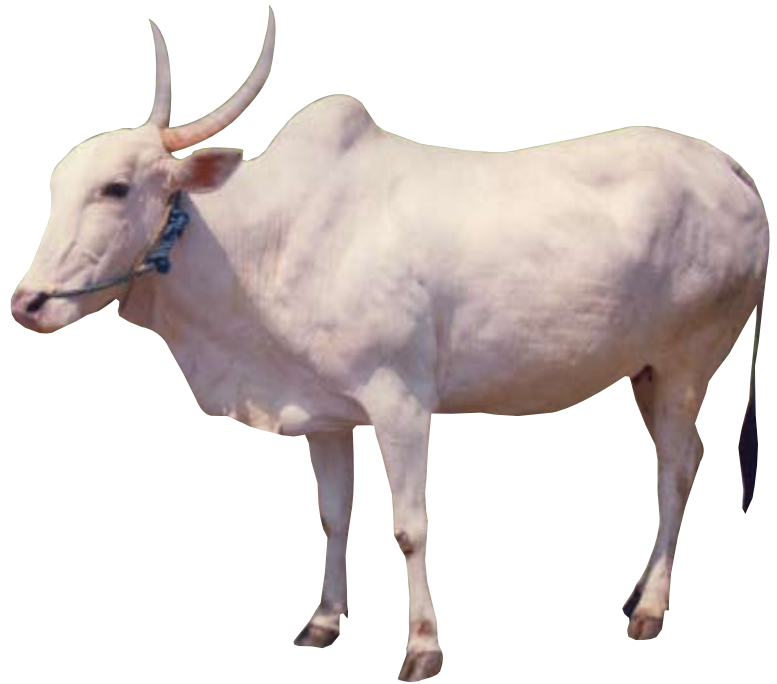
Breeds	Breeding Tract	Utility	Distribution
Amritmahal	Southern Karnataka (Chikmagalur, Hassan, Chitradurga districts)	Draught	Mainly in Chikmagalur, Davanagere, Shimoga, Hassan, Chitradurga, Tumkur districts
Deoni	Marathwada region of Maharashtra and adjoining parts of Karnataka and Andhra Pradesh	Dual	Primarily in Bidar, Gulbarga districts
Hallikar	Mysore, Mandya, Bangalore, Kolar, Tumkur Hassan and Chitradurga districts of Karnataka	Draught	Hassan, Mysore, Mandya, Tumkur, Ramanagara, Chamarajanagar districts. Scattered distribution in other districts also.
Khilari	Southern Maharashtra (Solapur, Sangli, Kolhapur and Satara district) and Bijapur, Belgaum and Dharwad districts of Karnataka	Draught	Mainly Belgaum, Bijapur, Bagalkot, Dharwad, Haveri and Gulbarga districts
Krishna Valley	Belgaum, Raichur and Bijapur districts of Karnataka and Satara, Sangli and Solapur districts of Maharashtra	Draught	Mainly in Bagalkot, Raichur districts
Malnad Gidda	Malnad region of Karnataka	Draught	Primarily in Uttara Kannada, Dakshina Kannada, Udupi, Shimoga, Chikmagalur, Haveri and Hassan, Kodagu districts

SOURCE: AE Nivsarkar et al., (2000), *Animal Genetic Resources of India, Cattle and Buffalo*, ICAR publication and Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, GoI (http://www.dahd.nic.in/dahd/WriteReadData/large%20ruminants%20guidelines/Conservation_indigenous_breeds_Cattle%20and%20Buffalo.pdf accessed on 29th August, 2014).





Distribution of Indigenous Cattle Breeds



Amritmahal



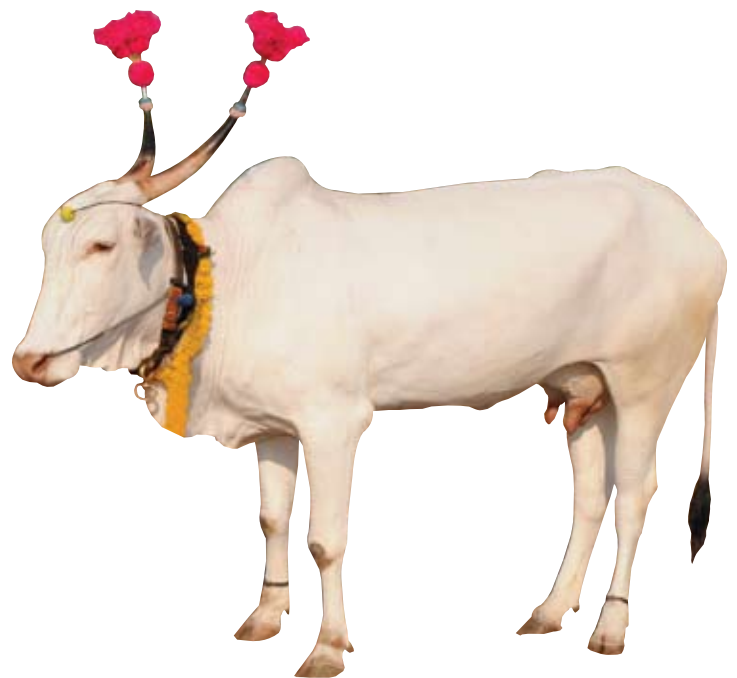
Deoni



Distribution of Indigenous Cattle Breeds



 **Hallikar**



 **Khilari**



Distribution of Indigenous Cattle Breeds



 **Krishna Valley**



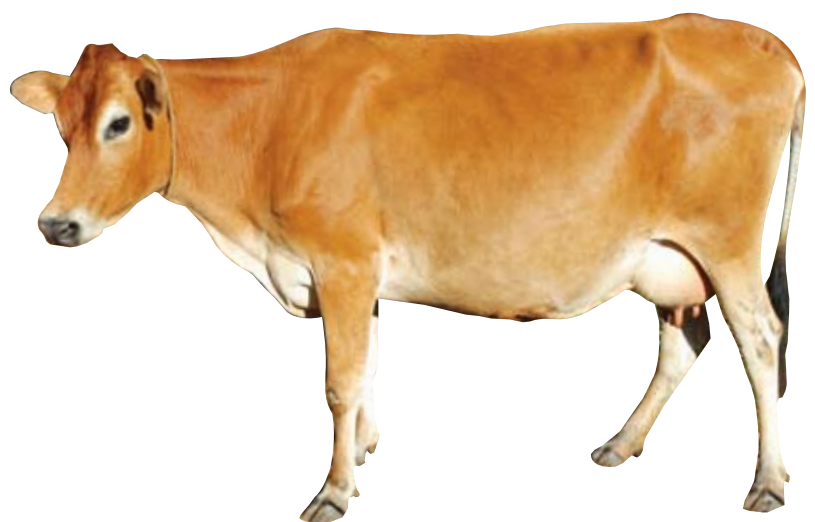
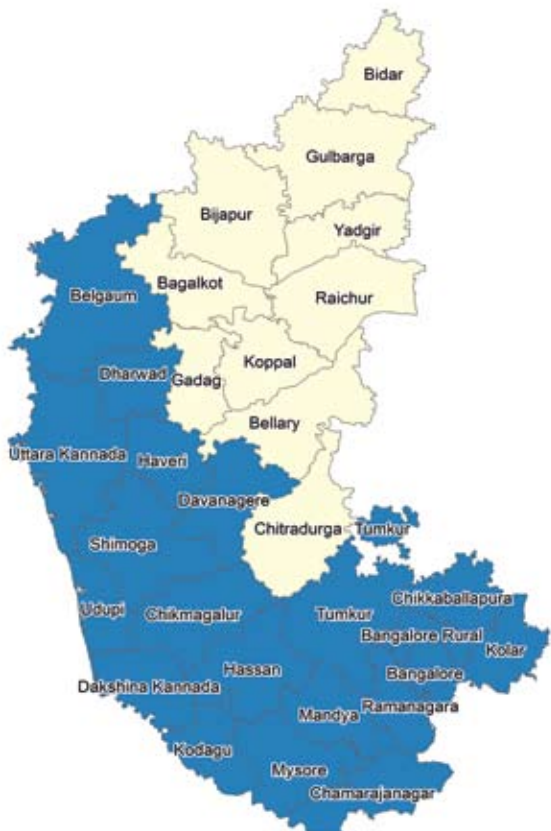
 **Malnad Gidda**



Distribution of Holstein Friesian and Jersey Crossbred



■ Holstein Friesian Crossbred



■ Jersey Crossbred



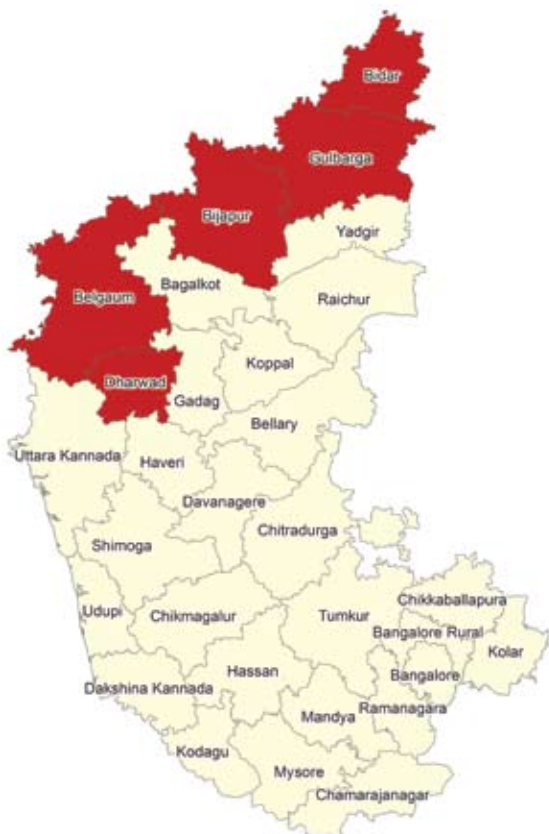
III.1. Distribution of Native Breed of Karnataka

TABLE III.1.2: Distribution of Buffalo Breed of Karnataka

Breeds	Breeding Tract	Utility	Distribution
Pandharpuri	Maharashtra (Kolhapur, Sangli and Solapur districts)	Milch	Belgaum, Bidar, Bijapur, Dharwad and Gulbarga

SOURCE: AE Nivsarkar et al., (2000), Animal Genetic Resources of India, Cattle and Buffalo, ICAR publication and Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, GoI (http://www.dahd.nic.in/dahd/WriteReadData/large%20ruminants%20guidelines/Conservation_indigenous_breeds_Cattle%20and%20Buffalo.pdf accessed on 29th August, 2014).

Distribution of Buffalo Breed



■ Pandharpuri



III.2. Performance of Breeds

TABLE III.2.1: Performance of Cattle and Buffalo Breeds

Parameters	Cattle					Buffalo
	Amritmahal	Deoni	Hallikar	Khilari	Malnad Gidda	Pandharpuri
Breed Population ('000)	96	69	1,999	453	1,282	11
Average Adult Body Weight (Kg)	Male: 500 Female: 318	Male: 590 Female: 340	Male: 340 Female: 227	Male: 499 Female: 334		Male: 550 Female: 416
Lactation Yield (Kg)	572±24	940	542±61	384	218	1,502±69
Lactation Length (days)	299±10	299±7	285±10	228	250	330
Calving Interval (days)	577±24	447±8	598±27	450	510	465
Age at First Calving (days)	1,337±115	1,391±26	1,370±45	1,428	1,350	1,255

SOURCE: AE Nivsarkar et al., (2000), Animal Genetic Resources of India, Cattle and Buffalo, ICAR publication and Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



PART IV : MILK PRODUCTION

The “Integrated Sample Survey” report for 2012-13 highlights that the bovine milk production system in Karnataka is predominantly cattle based. The number of in-milk bovine population increased by 6 lakh from 40 lakh in 1997-98 to 46 lakh in 2012-13 wherein the indigenous cattle population declined, that of crossbred increased and the buffaloes population remained constant. Species wise, the state had 16.6 lakh in-milk indigenous cattle, 11.4 lakh crossbred and 18 lakh buffaloes, respectively. Of the total 57 lakh tonnes (LMT) of milk produced, indigenous cattle produced 14 LMT, crossbred cattle produced 25 LMT and buffaloes accounted for 17.4 LMT.

Despite the predominantly arid and semi-arid climatic conditions in the state and the high acquisition cost for crossbreds, the share of crossbred in total cattle population rapidly increased between 1997 and 2013. District-wise, in-milk crossbred population demonstrated a significant increase in urban and peri-urban districts of Tumkur, Mandya, Kolar, Hassan, Dakshina Karnataka etc as higher yielding milk species were preferred to cater to the increased demand for milk. Figures also revealed decline in in-milk buffalo population in the corresponding districts of Karnataka.





IV.1. Production Performance

TABLE IV.1.1: Year-wise In-milk Bovine Population, Milk Yield and Milk Production

Year	In-milk Bovine ('000)	Milk Yield (kg per day)	Bovine Milk Production ('000 MT)
1986-87	2,905	1.938	2,055
1987-88	2,985	1.994	2,173
1988-89	3,056	2.001	2,232
1989-90	3,074	2.034	2,280
1990-91	3,169	2.056	2,378
1991-92	3,279	2.059	2,464
1992-93	3,353	2.106	2,578
1993-94	3,490	2.138	2,723
1994-95	3,566	2.296	2,989
1995-96	3,737	2.323	3,168
1996-97	3,939	2.394	3,442
1997-98	4,093	2.643	3,948
1998-99	4,133	2.784	4,200
1999-00	4,271	2.850	4,443
2000-01	4,042	3.088	4,555
2001-02	4,133	3.138	4,734
2002-03	3,999	3.077	4,491
2003-04	3,552	2.945	3,818
2004-05	3,609	2.945	3,879
2005-06	3,621	3.014	3,983
2006-07	3,673	3.044	4,081
2007-08	3,784	3.087	4,264
2008-09	3,914	3.141	4,487
2009-10	4,052	3.223	4,768
2010-11	4,232	3.274	5,057
2011-12	4,443	3.324	5,390
2012-13	4,604	3.368	5,659

SOURCE: Integrated Sample Survey Reports (1986-87 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



IV.1. Production Performance: Animal Population

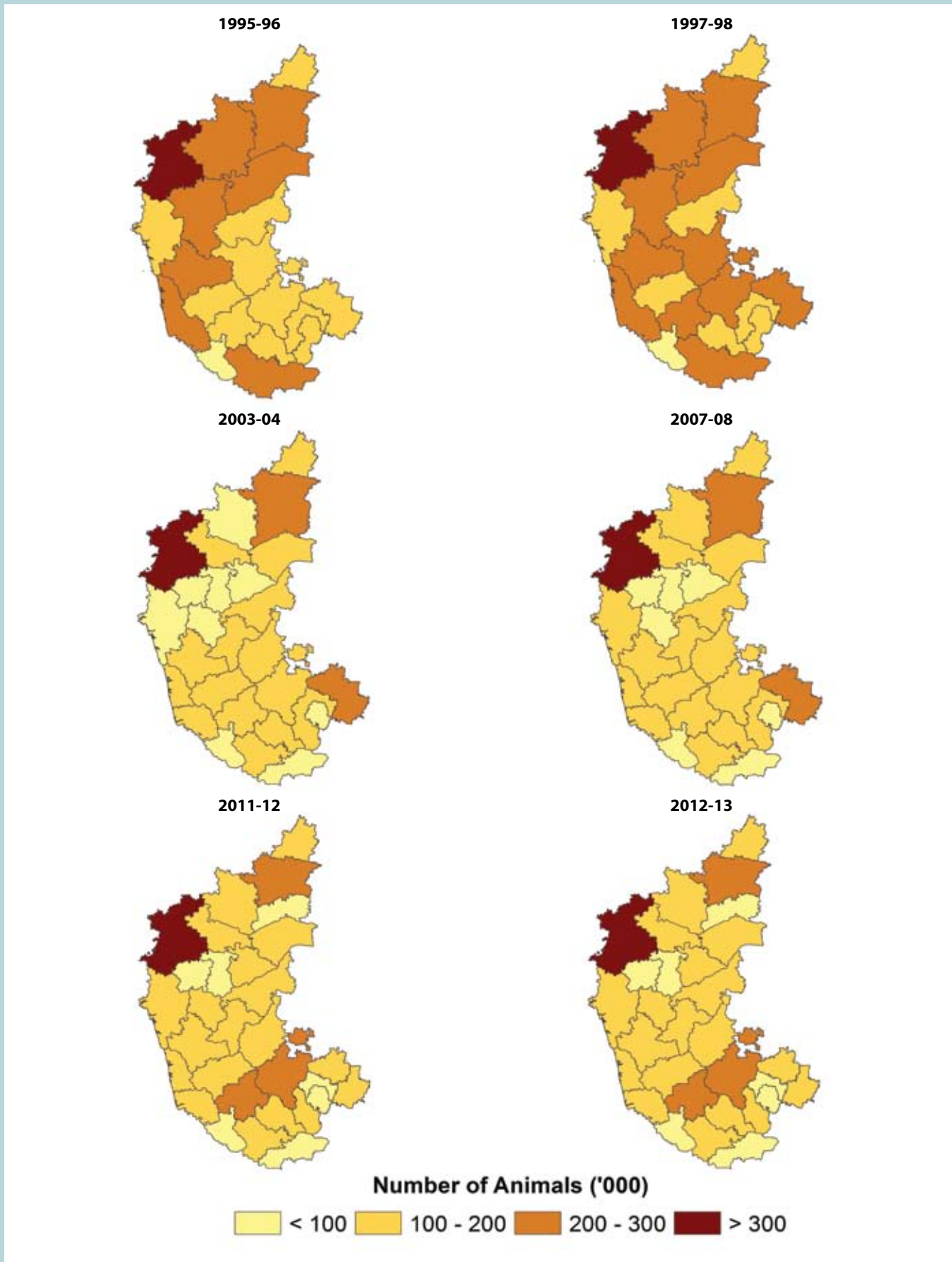
TABLE IV.1.2: Year and District-wise In-milk Bovine Population

Districts	In-milk Bovine Population ('000)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	3,737	4,093	3,552	3,784	3,914	4,053	4,232	4,443	4,604
Bagalkot			129	133	149	153	160	170	175
Bangalore Rural	190	184	164	176	82	84	88	92	99
Bangalore Urban	122	105	76	82	64	64	70	67	75
Belgaum	338	369	410	435	481	522	531	537	551
Bellary	160	168	125	136	141	142	152	153	160
Bidar	136	137	122	128	128	130	135	142	149
Bijapur	228	279	96	103	116	118	123	124	131
Chamarajanagar			75	82	78	78	83	84	88
Chikkaballapura					101	92	111	118	123
Chikmagalur	144	128	106	113	112	117	121	128	145
Chitradurga	198	208	103	110	117	119	122	130	137
Dakshina Kannada	212	265	106	111	113	120	124	126	132
Davanagere			140	149	159	165	174	179	186
Dharwad	217	237	70	75	80	81	85	92	89
Gadag			44	47	59	60	64	68	70
Gulbarga	206	248	224	230	237	240	247	238	242
Hasan	182	204	189	196	205	227	233	235	244
Haveri			85	90	97	99	105	112	116
Kodagu	39	64	30	34	32	32	35	38	41
Kolar	198	251	206	224	114	114	120	127	135
Koppal			83	88	88	89	94	105	110
Mandya	178	183	143	155	152	161	169	177	186
Mysore	232	258	136	147	154	165	172	180	187
Raichur	226	227	130	137	146	147	152	154	140
Ramanagara					93	104	112	119	123
Shimoga	219	237	159	174	172	175	179	183	189
Tumkur	186	220	184	200	231	245	252	258	264
Udupi			121	125	104	105	109	114	117
Uttara Kannada	124	122	95	103	106	107	111	118	123
Yadgir								76	80

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise In-milk Bovine Population





IV.1. Production Performance: Animal Population

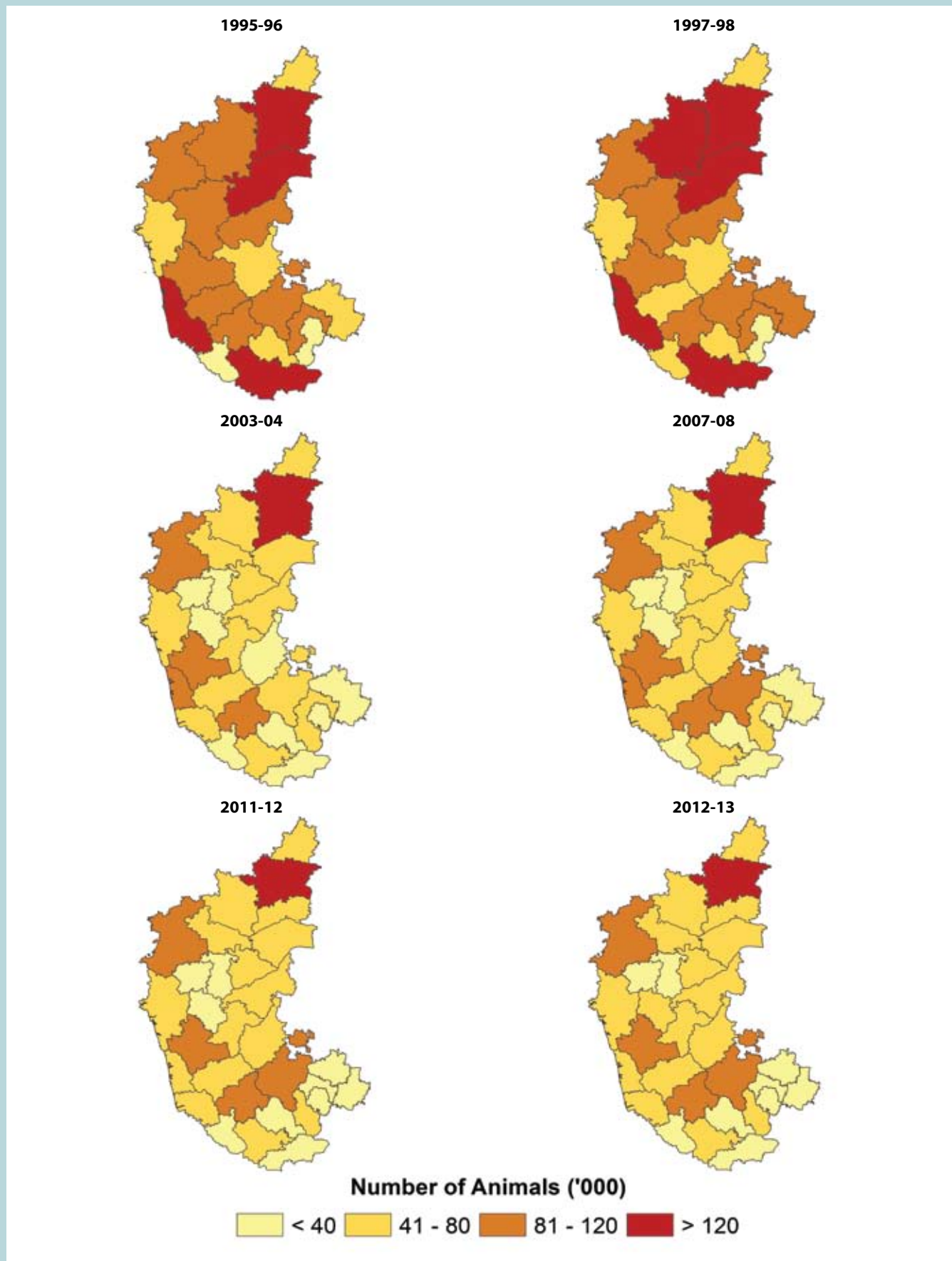
TABLE IV.1.3: Year and District-wise In-milk Indigenous Cattle Population

Districts	In-milk Indigenous Cattle Population ('000)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	1,803	1,975	1,414	1,499	1,476	1,496	1,553	1,625	1,658
Bagalkot			43.3	44.7	49.4	50.2	54.0	60.1	61.2
Bangalore Rural	94.9	95.5	52.3	56.6	11.2	11.4	12.4	14.1	15.2
Bangalore Urban	34.9	28.0	11.6	11.9	7.3	7.3	9.5	7.6	7.9
Belgaum	81.7	92.5	80.1	84.2	82.4	83.4	85.3	84.1	87.6
Bellary	81.6	84.4	59.4	62.7	63.7	64.6	71.3	71.3	72.1
Bidar	70.1	68.5	52.1	53.5	54.1	54.9	57.1	59.7	62.7
Bijapur	100.8	122.8	40.4	42.9	49.2	49.9	53.5	53.4	57.1
Chamarajanagar			31.4	35.0	28.1	28.5	30.4	33.7	33.9
Chikkaballapura					16.8	17.1	18.4	20.2	20.8
Chikmagalur	87.7	78.4	62.0	67.0	66.0	67.0	67.1	68.5	70.0
Chitradurga	80.0	78.2	38.5	40.1	42.9	43.4	45.3	48.4	51.8
Dakshina Kannada	158.0	191.1	62.5	64.5	60.8	61.7	62.5	62.9	65.5
Davanagere			43.7	45.4	48.1	48.6	50.8	51.4	52.0
Dharwad	95.9	95.5	23.9	24.7	25.7	26.1	26.8	28.0	27.4
Gadag			18.0	19.2	23.3	23.7	25.8	26.9	26.3
Gulbarga	143.5	172.3	146.5	149.4	154.2	155.9	160.2	145.7	146.2
Hasan	98.5	107.9	80.7	87.7	85.5	86.5	87.2	86.9	86.9
Haveri			33.0	34.1	33.6	34.0	36.6	39.5	42.6
Kodagu	23.7	40.2	16.2	17.9	15.8	16.0	17.3	17.9	18.9
Kolar	75.6	92.4	34.2	37.4	13.6	13.8	14.6	15.9	16.6
Koppal			43.6	45.5	43.6	44.2	46.6	48.9	49.6
Mandya	50.4	52.7	16.5	17.0	11.4	11.6	13.5	14.3	15.0
Mysore	132.3	147.1	70.6	77.1	75.6	76.8	77.8	78.5	79.9
Raichur	128.0	138.4	66.1	69.2	75.0	76.2	79.0	78.7	78.5
Ramanagara					42.3	42.8	45.2	46.4	47.5
Shimoga	110.6	113.9	80.9	88.7	85.9	87.3	87.6	89.4	90.3
Tumkur	83.4	106.6	75.5	83.3	82.6	83.9	85.1	85.1	85.4
Udupi			80.6	83.1	70.3	71.4	73.1	74.5	75.1
Uttara Kannada	71.9	68.4	50.7	56.0	57.1	57.8	59.3	62.5	62.7
Yadgir								50.5	51.0

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise In-milk Indigenous Cattle Population





IV.1. Production Performance: Animal Population

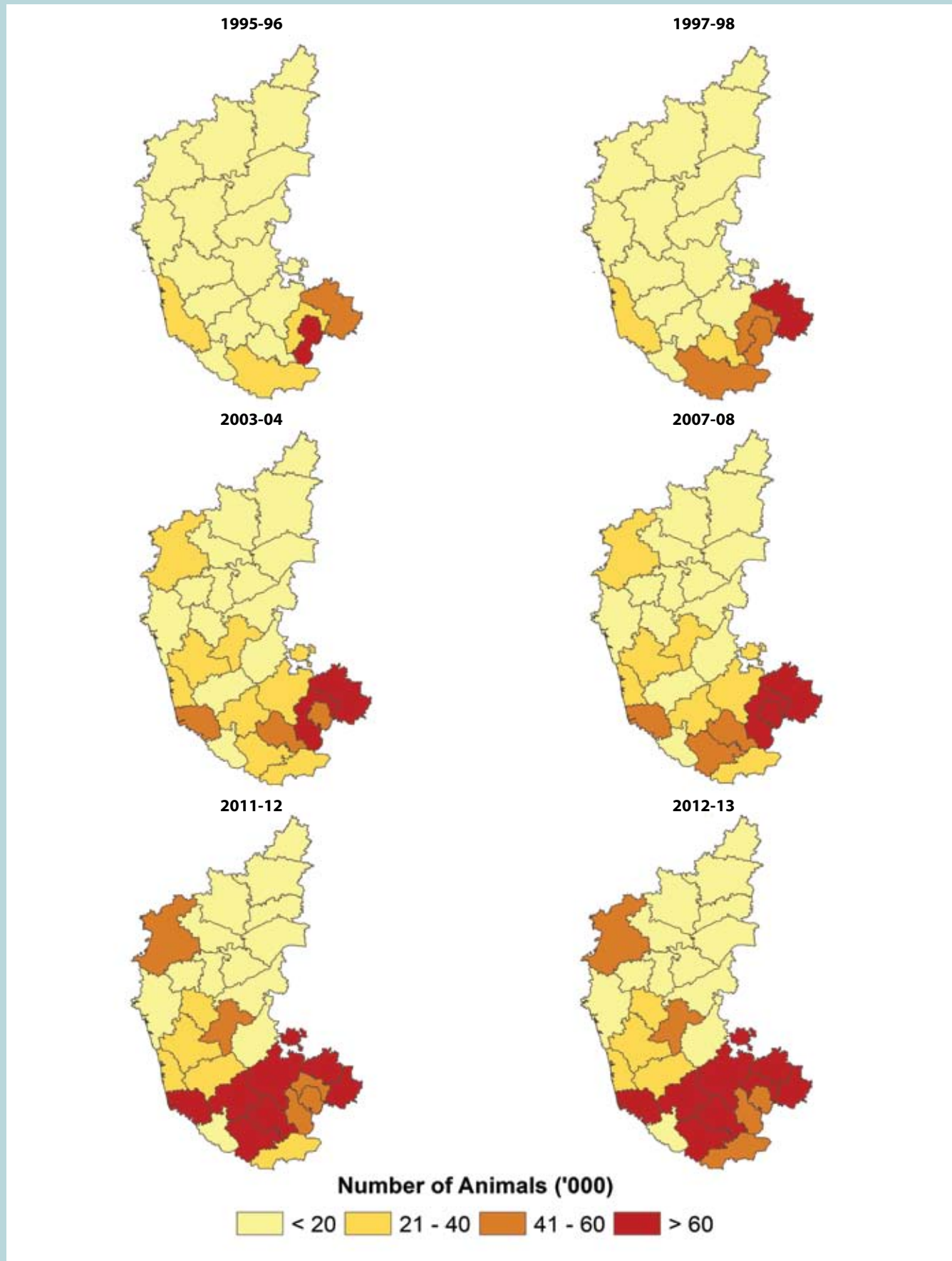
TABLE IV.1.4: Year and District-wise In-milk Crossbred Cattle Population

Districts	In-milk Crossbred Cattle Population ('000)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	306	416	685	763	865	940	1,002	1,068	1,143
Bagalkot			8.7	9.3	12.7	12.5	14.0	15.3	16.3
Bangalore Rural	33.7	53.2	78.0	86.1	57.1	56.3	58.5	59.7	64.3
Bangalore Urban	60.5	48.0	57.4	62.6	51.7	50.8	53.9	53.3	59.2
Belgaum	8.4	14.3	27.4	31.2	35.0	45.1	47.2	48.7	52.9
Bellary	2.6	4.9	3.2	6.4	5.9	5.8	6.6	8.3	9.7
Bidar	2.1	2.4	4.5	7.3	5.0	4.9	5.4	6.5	6.8
Bijapur	2.0	4.5	0.7	1.8	0.5	0.5	0.5	0.8	0.9
Chamarajanagar			31.2	34.5	41.1	40.6	42.3	39.0	41.0
Chikkaballapura					64.4	66.7	69.5	73.0	75.8
Chikmagalur	6.5	7.5	11.9	12.6	15.7	19.9	21.4	25.1	27.9
Chitradurga	6.3	9.1	6.2	7.4	10.4	10.2	11.2	13.6	15.0
Dakshina Kannada	21.5	36.8	40.9	43.4	50.8	56.8	59.5	60.3	64.3
Davanagere			26.4	28.5	35.7	40.1	44.5	47.8	51.1
Dharwad	14.0	17.3	10.6	13.0	15.2	15.0	16.9	19.1	20.0
Gadag			4.7	5.3	6.0	5.9	6.6	7.6	8.3
Gulbarga	2.9	3.3	3.8	6.1	4.6	4.5	5.6	6.3	7.1
Hasan	14.6	19.3	37.0	38.7	48.3	67.2	70.5	72.3	77.8
Haveri			12.6	13.5	20.9	20.5	22.7	24.9	25.6
Kodagu	5.7	9.1	7.2	8.4	10.1	9.8	11.1	12.9	14.1
Kolar	43.4	69.1	119.1	131.7	78.3	76.9	80.9	85.1	90.4
Koppal			3.9	6.2	5.9	5.8	6.9	12.1	13.7
Mandya	19.5	28.7	50.7	59.9	67.0	74.1	78.2	82.5	88.8
Mysore	28.0	45.5	39.4	42.4	53.4	62.4	67.1	73.4	78.1
Raichur	2.1	3.3	4.1	5.3	3.5	3.4	3.9	5.0	5.6
Ramanagara					33.0	42.9	46.3	50.2	52.0
Shimoga	10.4	14.1	21.9	22.0	31.1	30.8	33.5	36.0	38.7
Tumkur	14.8	19.0	26.7	31.2	56.2	65.3	69.0	73.4	76.1
Udupi			36.8	38.1	32.4	32.0	34.1	37.7	39.3
Uttara Kannada	6.6	6.4	10.1	10.4	13.2	12.9	13.8	15.0	18.0
Yadgir								3.4	3.8

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise In-milk Crossbred Cattle Population





IV.1. Production Performance: Animal Population

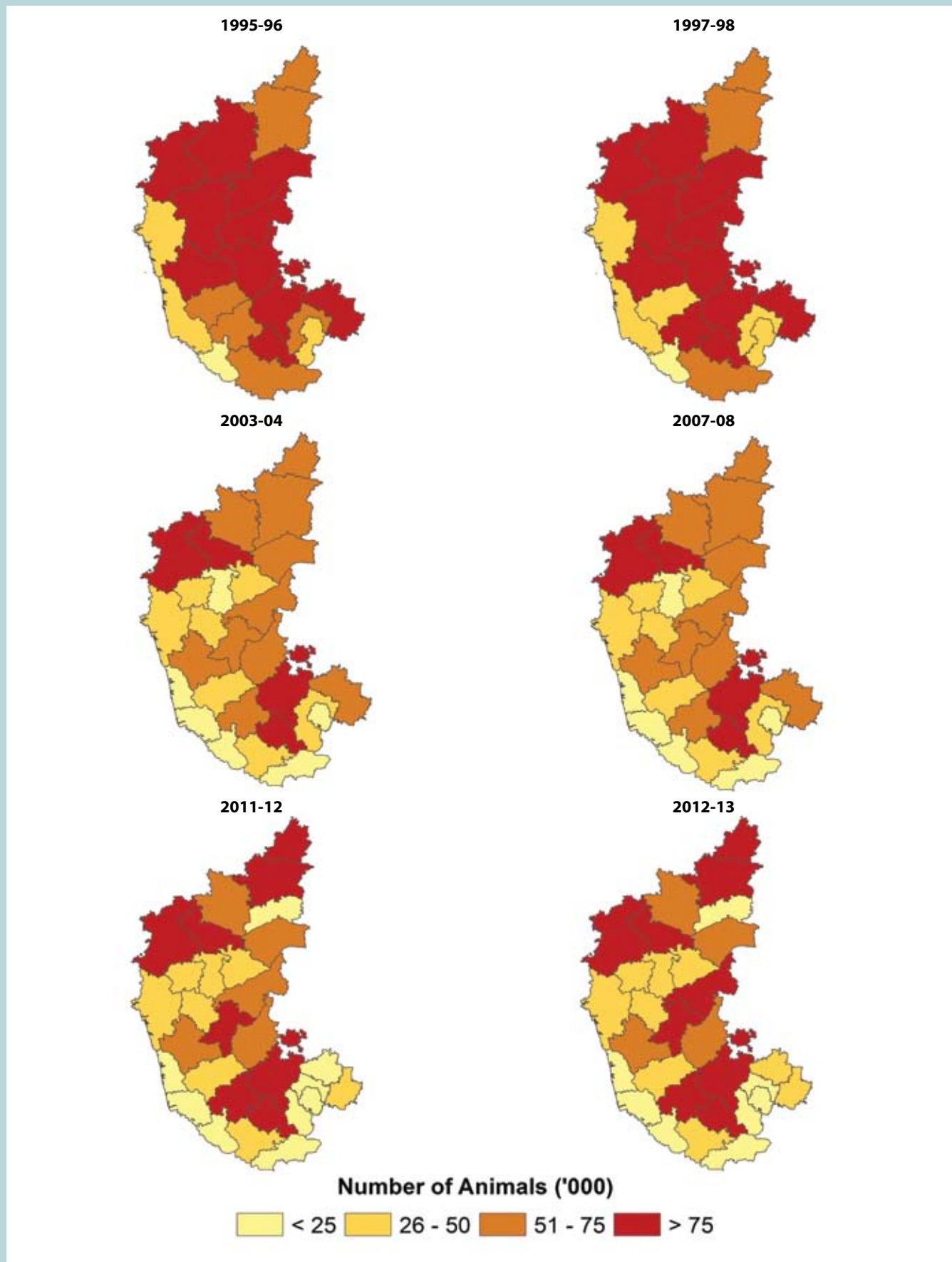
TABLE IV.1.5: Year and District-wise In-milk Buffalo Population

Districts	In-milk Buffalo Population ('000)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	1,628	1,702	1,453	1,522	1,573	1,617	1,677	1,750	1,803
Bagalkot			76.7	78.5	87.1	90.5	92.4	94.1	97.3
Bangalore Rural	61.3	35.0	33.8	33.0	14.1	16.1	17.2	18.2	19.5
Bangalore Urban	26.3	28.7	7.2	7.5	5.3	6.0	6.9	6.5	7.4
Belgaum	247.9	261.9	302.5	319.1	363.4	393.3	398.2	404.5	410.3
Bellary	76.0	78.8	62.6	66.6	71.8	71.9	73.6	73.8	78.0
Bidar	63.9	66.3	65.0	67.6	69.0	70.1	72.0	75.6	79.6
Bijapur	125.6	152.1	55.1	58.2	65.8	67.7	69.4	69.4	72.8
Chamarajanagar			12.0	12.6	9.2	9.3	10.5	11.4	12.7
Chikkaballapura					20.2	8.3	23.1	24.8	26.3
Chikmagalur	50.1	42.4	32.4	33.8	30.5	30.5	32.0	34.4	46.6
Chitradurga	111.8	120.5	58.6	62.9	63.8	65.0	65.8	67.6	70.3
Dakshina Kannada	32.8	37.2	2.9	3.1	1.7	1.8	2.0	2.4	2.6
Davanagere			70.1	74.6	75.0	76.6	78.4	79.7	82.9
Dharwad	107.3	124.1	35.6	37.3	38.7	39.8	41.3	44.5	41.3
Gadag			21.6	22.8	29.9	30.7	31.8	33.5	35.7
Gulbarga	59.7	72.2	73.6	74.9	78.2	79.1	81.4	86.2	88.7
Hasan	68.8	76.9	70.9	69.6	71.6	72.8	74.8	75.5	79.2
Haveri			39.6	42.3	42.8	44.1	45.7	47.6	47.4
Kodagu	9.8	14.9	6.8	7.2	6.1	6.2	6.7	7.3	7.6
Kolar	78.9	89.3	52.8	55.2	22.5	22.9	24.5	26.2	27.6
Koppal			35.3	36.7	38.0	38.6	40.0	44.2	46.6
Mandya	108.2	101.1	75.5	78.0	73.8	74.8	77.0	80.1	81.9
Mysore	72.0	64.9	26.0	27.9	24.6	25.7	27.0	28.1	29.3
Raichur	96.1	85.0	60.1	62.5	67.6	67.4	69.3	70.5	55.6
Ramanagara					17.6	18.6	20.1	22.5	23.8
Shimoga	97.8	109.3	56.3	63.7	55.1	56.4	58.0	57.9	60.4
Tumkur	88.2	94.1	82.2	85.9	92.5	95.3	97.6	99.4	102.3
Udupi			3.8	3.8	1.4	1.5	2.0	2.1	2.2
Uttara Kannada	45.4	46.9	34.2	36.5	35.4	36.3	38.3	40.0	41.9
Yadgir								22.3	24.8

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise In-milk Buffalo Population





IV.2. Production Performance: Milk Yield

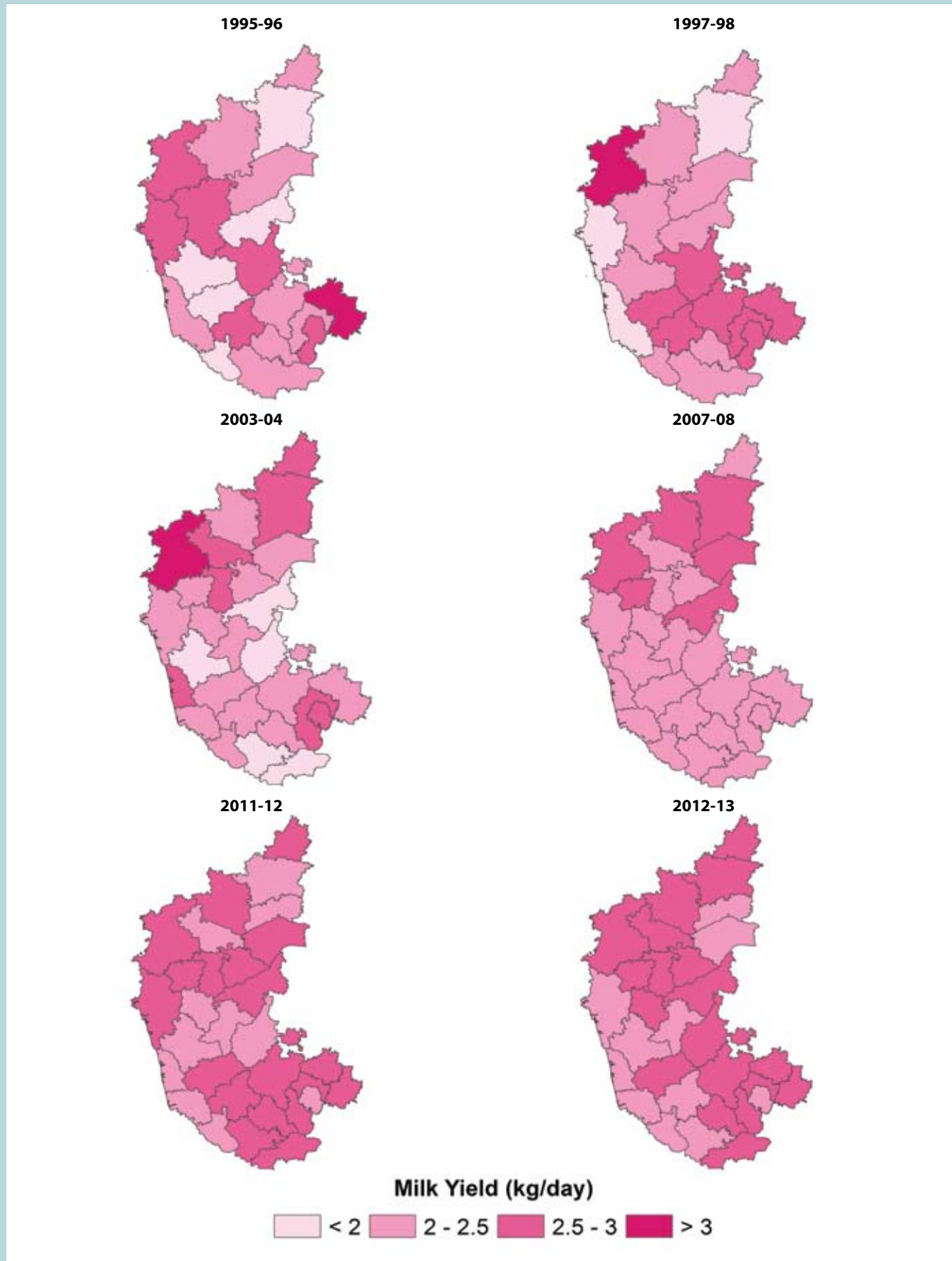
TABLE IV.2.1: Year and District-wise Bovine Milk Yield

Districts	Bovine Milk Yield (kg/day)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	2.323	2.642	2.945	3.087	3.141	3.223	3.274	3.324	3.368
Bagalkot			2.549	2.534	2.685	2.686	2.723	2.724	2.818
Bangalore Rural	2.567	3.320	3.976	4.234	4.678	4.664	4.701	4.675	4.760
Bangalore Urban	4.357	5.427	4.795	4.678	5.094	5.137	4.971	5.193	5.078
Belgaum	2.415	3.363	3.408	2.903	2.785	2.929	2.987	3.087	3.152
Bellary	1.935	2.071	1.973	2.579	2.468	2.508	2.523	2.614	2.654
Bidar	1.894	2.480	2.650	2.483	2.483	2.487	2.537	2.566	2.629
Bijapur	1.839	2.259	2.169	2.341	2.338	2.391	2.450	2.519	2.510
Chamarajanagar			3.142	3.608	4.145	4.145	4.159	4.012	4.016
Chikkaballapura					5.235	5.628	5.208	5.224	5.123
Chikmagalur	1.617	2.312	2.585	2.740	2.789	2.927	2.944	3.104	3.118
Chitradurga	2.477	2.516	2.234	2.590	2.693	2.694	2.762	2.803	2.820
Dakshina Kannada	1.422	1.478	3.179	3.579	3.685	3.744	3.867	3.827	3.923
Davanagere			2.720	2.942	3.084	3.238	3.228	3.337	3.373
Dharwad	2.323	2.300	2.622	2.959	3.048	3.010	3.127	3.127	3.201
Gadag			2.802	2.623	2.740	2.740	2.740	2.861	2.857
Gulbarga	1.756	2.077	2.226	2.347	2.381	2.409	2.474	2.475	2.479
Hasan	2.634	2.847	2.957	2.921	3.181	3.464	3.469	3.532	3.548
Haveri			2.579	2.770	3.079	2.989	3.105	3.131	3.094
Kodagu	1.545	1.884	2.831	2.981	3.168	3.168	3.053	3.172	3.341
Kolar	3.930	4.181	4.721	5.247	5.528	5.576	5.616	5.609	5.662
Koppal			2.344	2.522	2.553	2.586	2.652	2.870	2.914
Mandya	2.555	2.859	3.065	3.624	3.893	4.016	4.053	4.117	4.169
Mysore	2.716	2.750	2.699	3.262	3.487	3.686	3.727	3.866	3.868
Raichur	2.061	2.172	2.466	2.520	2.439	2.460	2.523	2.562	2.505
Ramanagara					3.535	3.767	3.841	3.891	4.009
Shimoga	1.664	1.988	2.464	2.740	2.931	2.943	3.015	3.084	3.131
Tumkur	2.416	2.802	2.650	2.890	3.202	3.321	3.446	3.483	3.518
Udupi			3.351	3.200	3.082	3.053	3.217	3.389	3.442
Uttara Kannada	2.364	1.976	2.480	2.633	2.507	2.432	2.444	2.508	2.539
Yadgir								2.415	2.500

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise In-milk Bovine Milk Yield





IV.2. Production Performance: Milk Yield

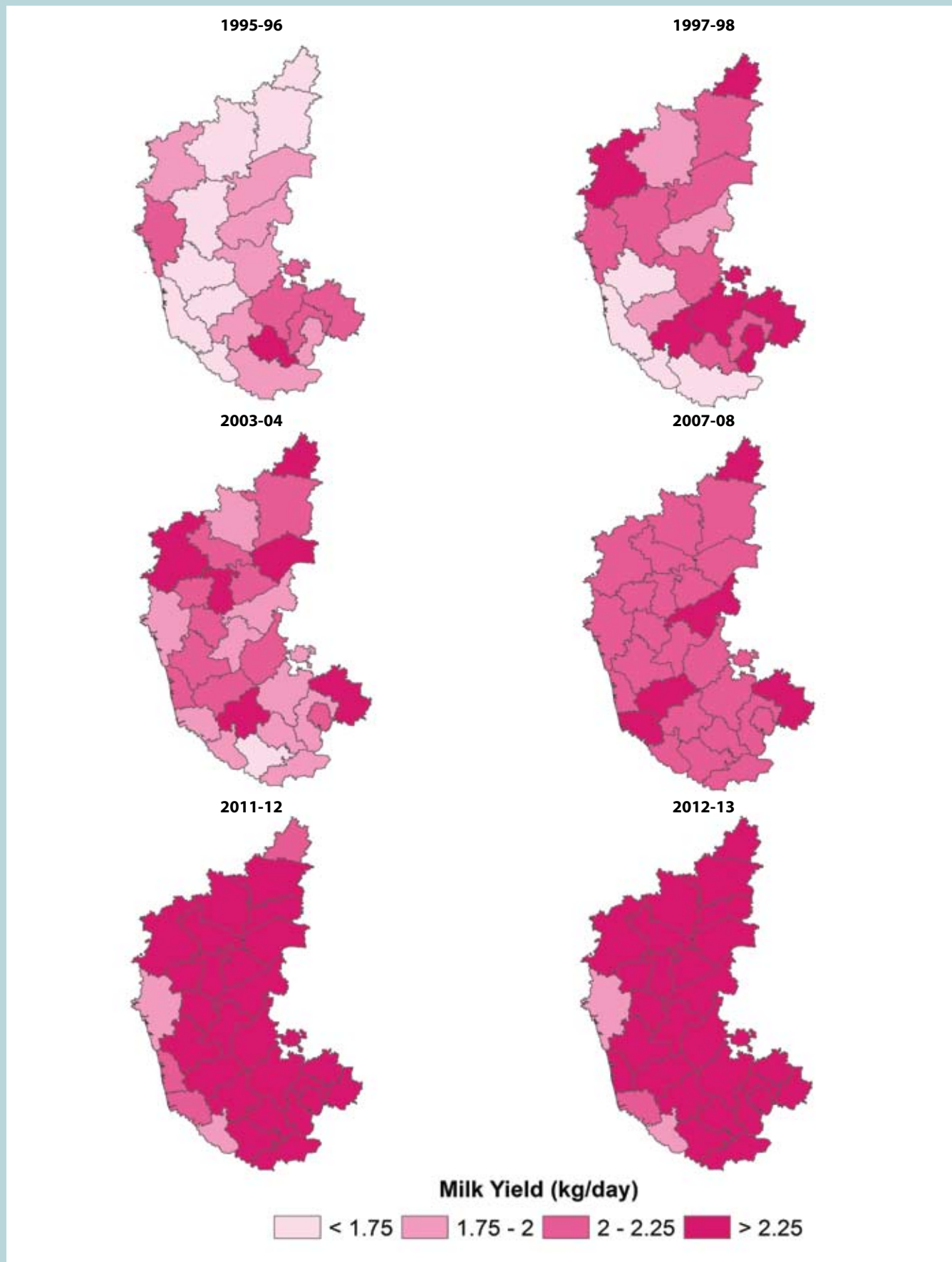
TABLE IV. 2.2: Year and District-wise Indigenous Cattle Milk Yield

Districts	Indigenous Cattle Milk Yield (kg/day)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	1.710	1.979	2.067	2.241	2.227	2.240	2.279	2.301	2.319
Bagalkot			2.180	2.225	2.317	2.315	2.339	2.356	2.358
Bangalore Rural	2.022	2.037	1.895	2.181	2.268	2.292	2.316	2.344	2.355
Bangalore Urban	1.800	2.446	2.158	2.138	2.220	2.241	2.263	2.343	2.357
Belgaum	1.959	2.399	2.358	2.212	2.217	2.237	2.255	2.316	2.339
Bellary	1.827	1.753	1.866	2.254	2.244	2.262	2.267	2.285	2.279
Bidar	1.395	2.440	2.255	2.257	2.210	2.216	2.220	2.242	2.315
Bijapur	1.119	1.919	1.771	2.157	2.253	2.272	2.269	2.292	2.303
Chamarajanagar			1.784	2.220	2.267	2.342	2.397	2.426	2.438
Chikkaballapura					2.277	2.299	2.323	2.404	2.407
Chikmagalur	1.237	1.817	2.140	2.315	2.224	2.285	2.299	2.335	2.395
Chitradurga	1.932	2.102	2.048	2.207	2.248	2.343	2.385	2.386	2.388
Dakshina Kannada	1.139	1.075	1.975	2.298	1.973	1.995	2.051	2.073	2.140
Davanagere			1.969	2.192	2.307	2.336	2.389	2.418	2.426
Dharwad	1.340	2.094	2.123	2.223	2.257	2.298	2.312	2.325	2.340
Gadag			2.316	2.177	2.315	2.349	2.382	2.383	2.393
Gulbarga	1.623	2.115	2.012	2.179	2.234	2.240	2.316	2.291	2.303
Hasan	1.761	2.285	2.348	2.206	2.298	2.355	2.376	2.410	2.435
Haveri			2.046	2.201	2.285	2.281	2.294	2.320	2.335
Kodagu	1.608	1.636	1.892	2.098	1.940	1.616	1.754	1.765	1.822
Kolar	2.244	2.817	2.372	3.165	2.241	2.311	2.367	2.411	2.333
Koppal			2.144	2.209	2.336	2.358	2.379	2.391	2.398
Mandya	2.337	2.028	1.821	2.175	2.278	2.311	2.288	2.360	2.397
Mysore	1.946	1.658	1.703	2.237	2.305	2.348	2.381	2.420	2.389
Raichur	1.949	2.039	2.313	2.161	2.307	2.310	2.348	2.364	2.351
Ramanagara					2.282	2.306	2.386	2.381	2.393
Shimoga	1.408	1.563	2.032	2.223	2.286	2.309	2.324	2.360	2.388
Tumkur	2.155	2.544	1.996	2.224	2.293	2.307	2.343	2.343	2.336
Udupi			2.165	2.201	1.981	2.009	2.130	2.214	2.254
Uttara Kannada	2.006	2.083	1.930	2.177	1.932	1.680	1.758	1.764	1.807
Yadgir								2.262	2.316

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise Indigenous Cattle Milk Yield





IV.2. Production Performance: Milk Yield

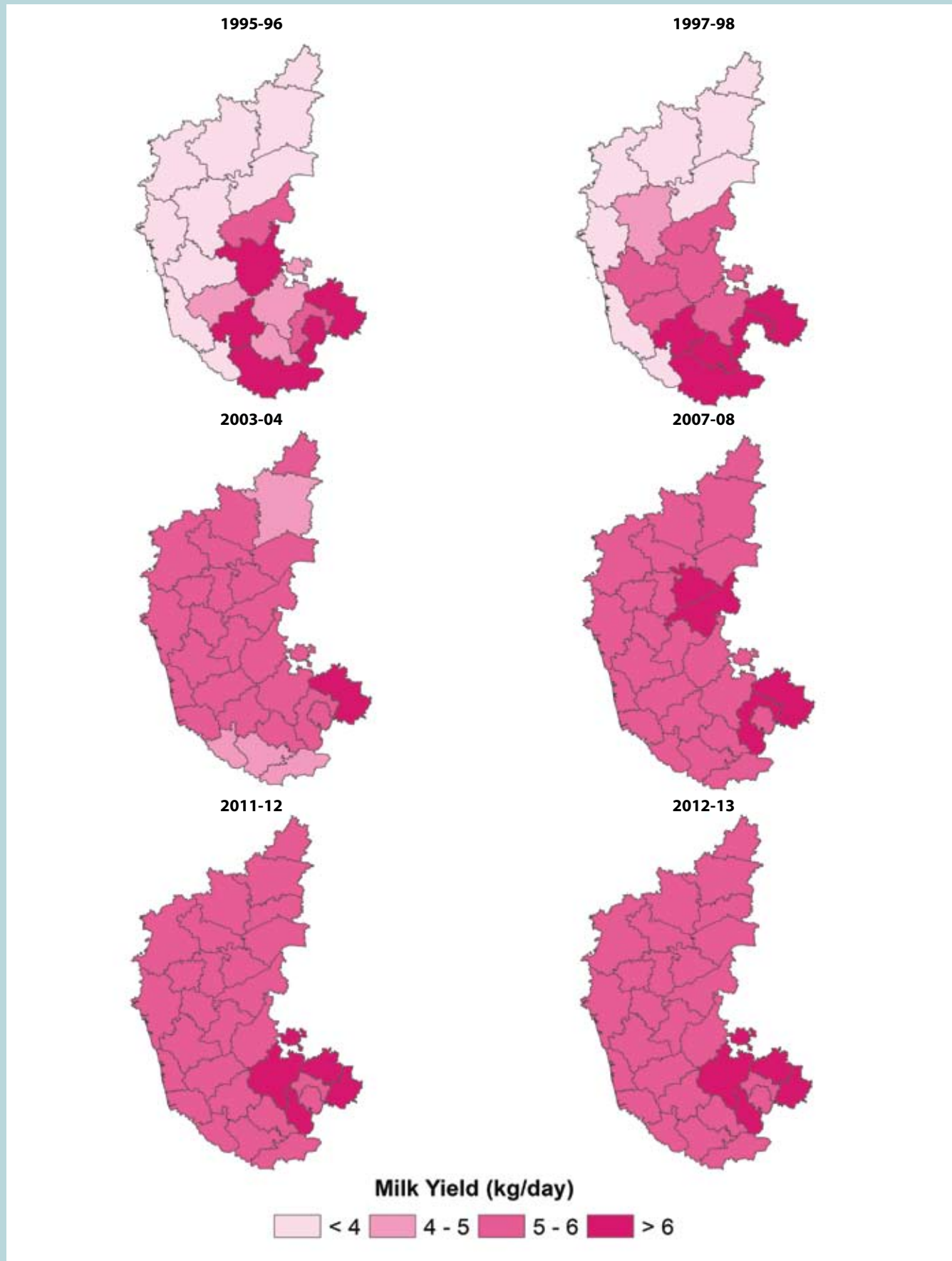
TABLE IV.2.3: Year and District-wise Crossbred Cattle Milk Yield

Districts	Crossbred Cattle Milk Yield (kg/day)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	5.555	6.060	5.575	5.899	5.908	5.948	5.970	6.000	6.030
Bagalkot			5.012	5.895	5.714	5.724	5.728	5.810	5.779
Bangalore Rural	5.010	6.128	5.906	6.340	5.723	5.792	5.833	5.881	5.948
Bangalore Urban	6.548	8.847	5.600	5.488	5.685	5.775	5.811	5.885	5.941
Belgaum	2.637	3.640	5.755	5.784	5.715	5.738	5.749	5.795	5.854
Bellary	5.145	5.591	5.054	6.392	5.762	5.730	5.733	5.764	5.770
Bidar	2.652	3.425	5.143	5.592	5.632	5.625	5.647	5.693	5.682
Bijapur	2.918	3.653	5.691	5.929	5.729	6.341	6.391	5.682	5.694
Chamarajanagar			4.926	5.599	5.742	5.777	5.787	5.824	5.823
Chikkaballapura					6.791	6.827	6.828	6.880	6.698
Chikmagalur	4.109	5.479	5.749	5.592	5.738	5.763	5.687	5.727	5.774
Chitradurga	7.002	5.720	5.023	5.998	5.701	5.718	5.748	5.717	5.763
Dakshina Kannada	2.318	3.127	5.024	5.595	5.566	5.654	5.731	5.692	5.729
Davanagere			5.005	5.695	5.752	5.789	5.793	5.824	5.798
Dharwad	3.994	4.118	5.239	5.665	5.719	5.722	5.712	5.650	5.704
Gadag			5.527	5.729	5.722	5.729	5.735	5.724	5.711
Gulbarga	3.600	3.643	4.865	5.992	5.785	5.738	5.787	5.731	5.781
Hasan	6.996	7.097	5.559	5.476	5.800	5.860	5.876	5.913	5.938
Haveri			5.179	5.565	5.632	5.628	5.666	5.724	5.728
Kodagu	1.454	2.409	4.989	5.665	5.463	5.569	5.610	5.680	5.729
Kolar	8.483	7.692	6.419	6.987	6.925	7.014	7.061	7.085	7.154
Koppal			5.318	6.432	5.561	5.664	5.673	5.656	5.614
Mandya	4.998	6.396	5.055	5.562	5.826	5.917	5.937	5.948	5.993
Mysore	6.874	6.684	4.978	5.699	5.798	5.814	5.842	5.868	5.874
Raichur	2.860	3.540	5.654	5.995	5.548	5.542	5.619	5.636	5.674
Ramanagara					5.769	5.794	5.807	5.866	6.072
Shimoga	2.987	5.052	5.224	5.657	5.714	5.732	5.804	5.887	5.909
Tumkur	4.642	5.047	5.638	5.982	5.849	5.906	5.927	5.963	6.058
Udupi			5.886	5.365	5.469	5.495	5.512	5.652	5.751
Uttara Kannada	3.646	2.997	5.281	5.798	5.517	5.546	5.588	5.607	5.611
Yadgir								5.496	5.530

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise Crossbred Cattle Milk Yield





IV.2. Production Performance: Milk Yield

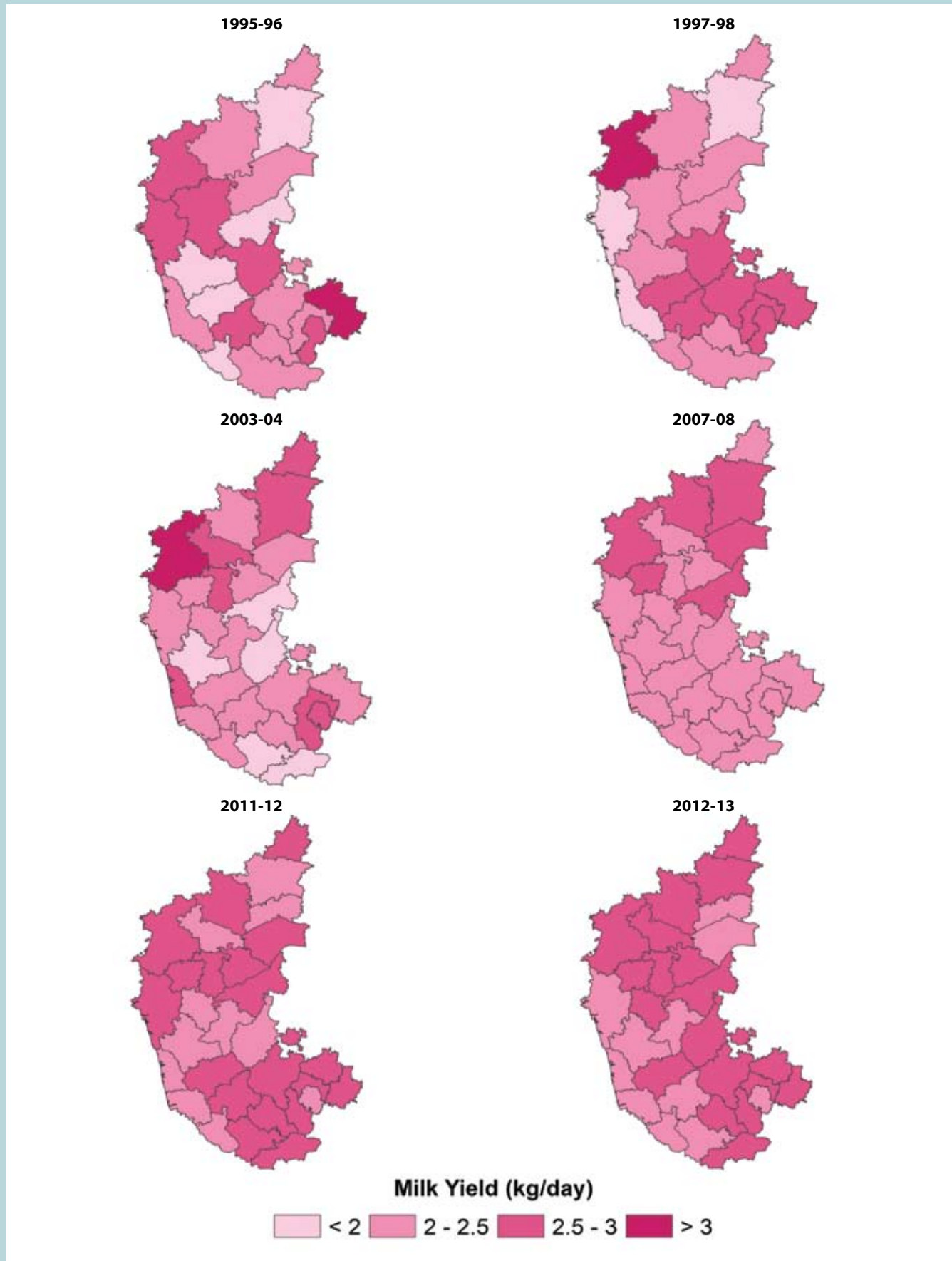
TABLE IV.2.4: Year and District-wise Buffalo Milk Yield

Districts	Buffalo Milk Yield (kg/day)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	2.391	2.577	2.538	2.490	2.475	2.551	2.586	2.614	2.645
Bagalkot			2.511	2.479	2.410	2.469	2.479	2.498	2.529
Bangalore Rural	2.053	2.583	2.720	2.478	2.444	2.443	2.477	2.519	2.570
Bangalore Urban	2.765	2.673	2.672	2.427	2.384	2.399	2.447	2.480	2.492
Belgaum	2.554	3.693	3.457	2.729	2.634	2.752	2.832	2.910	2.991
Bellary	1.932	2.190	1.942	2.697	2.387	2.420	2.525	2.570	2.589
Bidar	2.419	2.479	2.772	2.408	2.458	2.509	2.538	2.561	2.568
Bijapur	2.373	2.486	2.447	2.541	2.421	2.515	2.534	2.558	2.574
Chamarajanagar			1.752	2.446	2.431	2.551	2.580	2.604	2.549
Chikkaballapura					2.512	2.517	2.561	2.559	2.708
Chikmagalur	1.965	2.649	2.332	2.443	2.510	2.539	2.555	2.624	2.638
Chitradurga	2.589	2.546	1.997	2.484	2.445	2.463	2.508	2.493	2.512
Dakshina Kannada	2.157	1.915	2.138	2.388	2.408	2.384	2.417	2.470	2.486
Davanagere			2.243	2.412	2.341	2.461	2.368	2.412	2.479
Dharwad	2.769	2.208	2.191	2.638	2.450	2.523	2.547	2.541	2.562
Gadag			2.709	2.459	2.428	2.451	2.475	2.510	2.517
Gulbarga	1.980	1.897	2.534	2.647	2.535	2.583	2.578	2.496	2.559
Hasan	2.965	2.565	2.327	2.479	2.483	2.518	2.527	2.564	2.477
Haveri			2.237	2.500	2.334	2.418	2.436	2.479	2.508
Kodagu	1.533	2.206	2.334	2.354	2.388	2.408	2.401	2.424	2.465
Kolar	3.031	2.884	2.316	2.473	2.454	2.711	2.749	2.802	2.897
Koppal			2.244	2.494	2.391	2.438	2.454	2.553	2.623
Mandya	2.124	2.303	2.004	2.453	2.406	2.484	2.492	2.532	2.542
Mysore	2.485	2.491	1.966	2.422	2.411	2.460	2.489	2.504	2.489
Raichur	2.202	2.385	2.382	2.742	2.451	2.495	2.540	2.556	2.489
Ramanagara					2.448	2.485	2.520	2.529	2.615
Shimoga	1.798	2.030	1.988	2.445	2.378	2.429	2.372	2.380	2.445
Tumkur	2.268	2.649	2.261	2.375	2.449	2.526	2.617	2.606	2.613
Udupi			2.646	2.370	2.330	2.391	2.413	2.440	2.484
Uttara Kannada	2.736	1.694	2.321	2.455	2.341	2.404	2.472	2.502	2.410
Yadgir								2.301	2.498

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise Buffalo Milk Yield





IV.3. Production Performance: Milk Production

TABLE IV.3.1: Year and District-wise Total Milk Production (Bovine and Goat)

Districts	Total Milk Production ('000 MT)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	3,168	3,969	3,857	4,313	4,538	4,821	5,113	5,448	5,718
Bagalkot			120	126	150	154	163	174	185
Bangalore Rural	178	223	239	273	141	144	152	157	172
Bangalore Urban	194	208	133	140	119	120	129	127	139
Belgaum	298	457	516	469	497	566	586	613	641
Bellary	113	129	93	131	129	133	143	149	158
Bidar	94	126	120	117	118	120	127	136	146
Bijapur	153	234	79	92	103	107	114	118	124
Chamarajanagar			87	109	119	118	127	123	129
Chikkaballapura					194	190	213	228	233
Chikmagalur	85	108	100	113	115	125	130	145	165
Chitradurga	179	191	86	106	118	120	126	136	144
Dakshina Kannada	110	145	124	145	152	164	175	176	189
Davanagere			140	161	180	196	206	219	230
Dharwad	184	203	68	82	90	90	98	105	104
Gadag			46	46	61	62	66	74	76
Gulbarga	132	189	186	202	213	216	229	221	225
Hasan	175	212	205	210	239	288	296	303	316
Haveri			81	93	110	109	121	130	133
Kodagu	22	44	31	37	37	37	39	44	50
Kolar	284	383	357	431	231	234	247	260	279
Koppal			72	83	84	86	93	113	120
Mandya	166	191	161	207	218	238	252	269	287
Mysore	230	259	135	176	197	223	235	255	266
Raichur	170	182	119	129	133	135	143	148	132
Ramanagara					120	144	158	170	180
Shimoga	133	172	143	175	185	188	197	206	216
Tumkur	164	226	180	215	270	300	321	331	342
Udupi			148	146	117	117	128	141	147
Uttara Kannada	107	88	86	99	97	95	99	108	114
Yadgir								70	76

NOTE: For 1995-96, goat milk is not included.

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.





IV.3. Production Performance: Milk Production

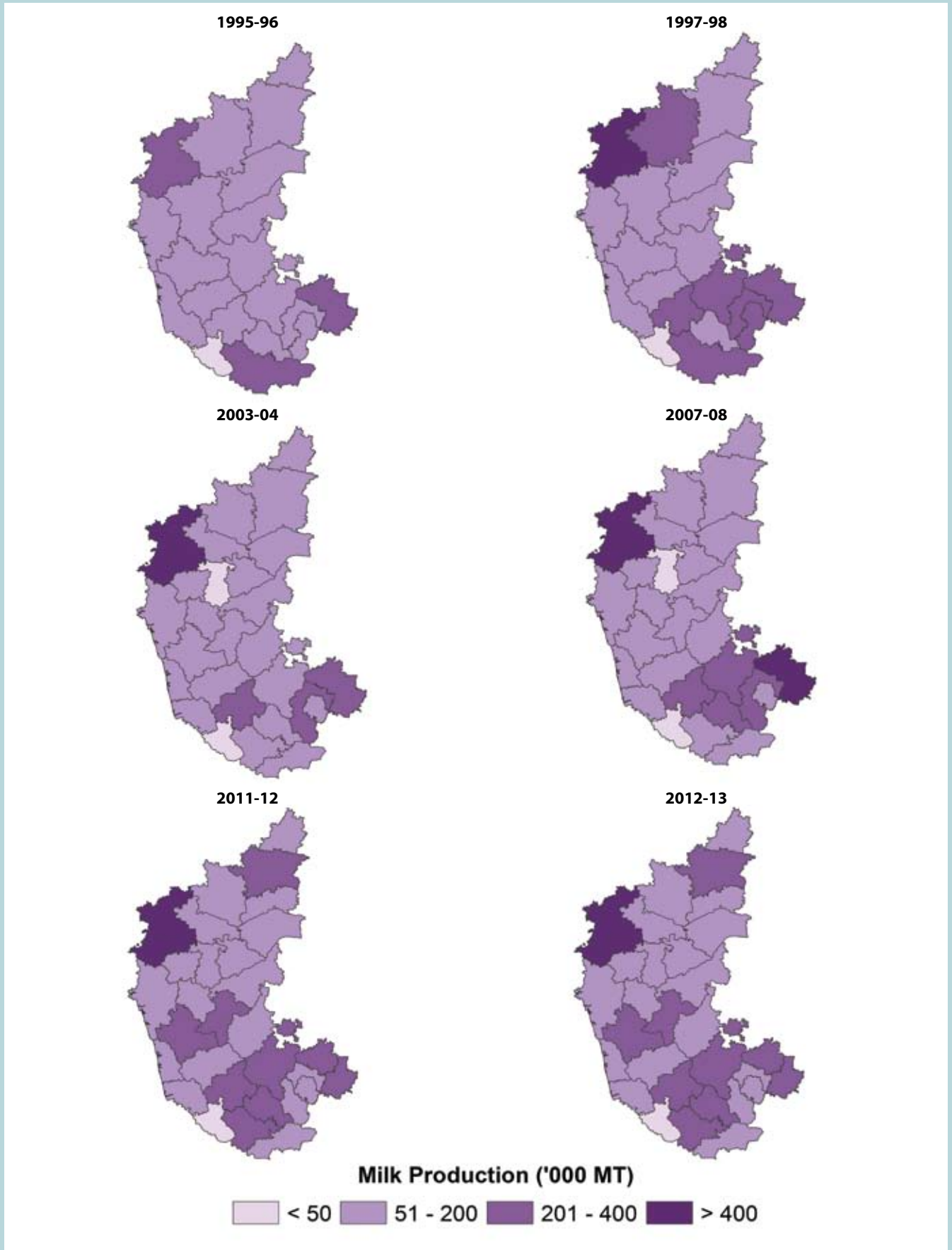
TABLE IV.3.2: Year and District-wise Bovine Milk Production

Districts	Bovine Milk Production ('000 MT)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	3,168	3,947	3,818	4,264	4,487	4,768	5,057	5,390	5,659
Bagalkot			120	123	146	150	159	169	180
Bangalore Rural	178	223	238	272	140	143	151	157	172
Bangalore Urban	194	208	133	140	119	120	127	127	139
Belgaum	298	453	510	461	489	558	579	605	634
Bellary	113	127	90	128	127	130	140	146	155
Bidar	94	124	118	116	116	118	125	133	143
Bijapur	153	230	76	88	99	103	110	114	120
Chamarajanagar			86	108	118	118	126	123	129
Chikkaballapura					193	189	211	225	230
Chikmagalur	85	108	100	113	114	125	130	145	165
Chitradurga	179	191	84	104	115	117	123	133	141
Dakshina Kannada	110	143	123	145	152	164	175	176	189
Davanagere			139	160	179	195	205	218	229
Dharwad	184	199	67	81	89	89	97	105	104
Gadag			45	45	59	60	64	71	73
Gulbarga	132	188	182	197	206	211	223	215	219
Hasan	175	212	204	209	238	287	295	303	316
Haveri			80	91	109	108	119	128	131
Kodagu	22	44	31	37	37	37	39	44	50
Kolar	284	383	355	429	230	232	246	260	279
Koppal			71	81	82	84	91	110	117
Mandya	166	191	160	205	216	236	250	266	283
Mysore	230	259	134	175	196	222	234	254	264
Raichur	170	180	117	126	130	132	140	144	128
Ramanagara					120	143	157	169	180
Shimoga	133	172	143	174	184	188	197	206	216
Tumkur	164	225	178	211	270	297	317	328	339
Udupi			148	146	117	117	128	141	147
Uttara Kannada	107	88	86	99	97	95	99	108	114
Yadgir								67	73

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise Bovine Milk Production





IV.3. Production Performance: Milk Production

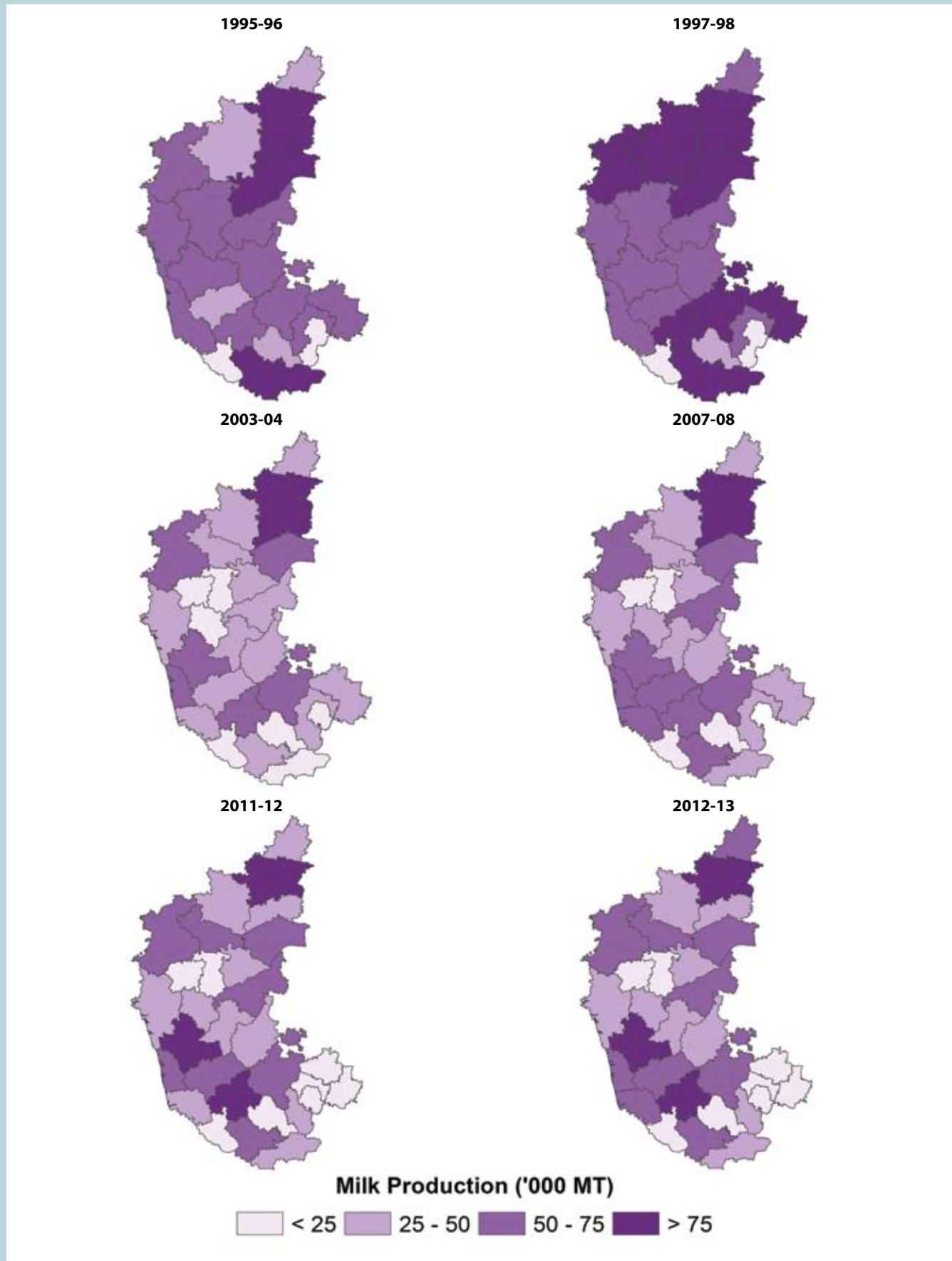
TABLE IV.3.3: Year and District-wise Indigenous Cattle Milk Production

Districts	Indigenous Cattle Milk Production ('000 MT)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	1,127	1,427	1,070	1,229	1,200	1,223	1,292	1,369	1,404
Bagalkot			35.0	36.0	42.0	42.0	47.0	51.0	55.0
Bangalore Rural	70.1	71.0	36.0	44.0	9.0	9.0	11.0	12.0	13.0
Bangalore Urban	22.9	25.0	9.0	9.0	6.0	6.0	7.0	6.0	6.0
Belgaum	58.4	81.0	69.0	68.0	67.0	68.0	70.0	72.0	75.0
Bellary	54.4	54.0	40.0	52.0	52.0	54.0	59.0	59.0	60.0
Bidar	35.6	61.0	43.0	44.0	44.0	45.0	46.0	49.0	54.0
Bijapur	41.2	86.0	26.0	34.0	40.0	41.0	45.0	45.0	49.0
Chamarajanagar			21.0	28.0	23.0	24.0	26.0	29.0	30.0
Chikkaballapura					15.0	15.0	16.0	18.0	19.0
Chikmagalur	39.5	52.0	48.0	57.0	54.0	56.0	56.0	59.0	61.0
Chitradurga	56.6	60.0	29.0	33.0	36.0	37.0	39.0	43.0	45.0
Dakshina Kannada	65.9	75.0	45.0	54.0	45.0	45.0	47.0	48.0	51.0
Davanagere			32.0	36.0	40.0	42.0	44.0	46.0	46.0
Dharwad	54.7	73.0	18.0	21.0	21.0	22.0	23.0	24.0	23.0
Gadag			15.0	15.0	20.0	21.0	23.0	24.0	23.0
Gulbarga	85.1	133.0	108.0	119.0	125.0	127.0	135.0	123.0	122.0
Hasan	63.3	90.0	69.0	71.0	72.0	75.0	75.0	77.0	77.0
Haveri			24.0	27.0	29.0	28.0	31.0	33.0	35.0
Kodagu	13.9	24.0	11.0	14.0	10.0	10.0	11.0	12.0	13.0
Kolar	61.7	95.0	30.0	44.0	12.0	12.0	13.0	13.0	13.0
Koppal			34.0	36.0	37.0	38.0	41.0	43.0	44.0
Mandya	43.0	39.0	11.0	14.0	9.0	9.0	11.0	12.0	13.0
Mysore	94.0	89.0	45.0	64.0	63.0	66.0	67.0	70.0	69.0
Raichur	91.0	103.0	56.0	55.0	63.0	64.0	67.0	67.0	67.0
Ramanagara					35.0	35.0	40.0	40.0	42.0
Shimoga	57.0	65.0	60.0	73.0	71.0	74.0	74.0	78.0	79.0
Tumkur	65.5	99.0	56.0	68.0	68.0	70.0	73.0	73.0	74.0
Udupi			64.0	68.0	52.0	52.0	57.0	61.0	62.0
Uttara Kannada	52.7	52.0	36.0	45.0	40.0	36.0	38.0	40.0	41.0
Yadgir								42.0	43.0

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise Indigenous Cattle Milk Production





IV.3. Production Performance: Milk Production

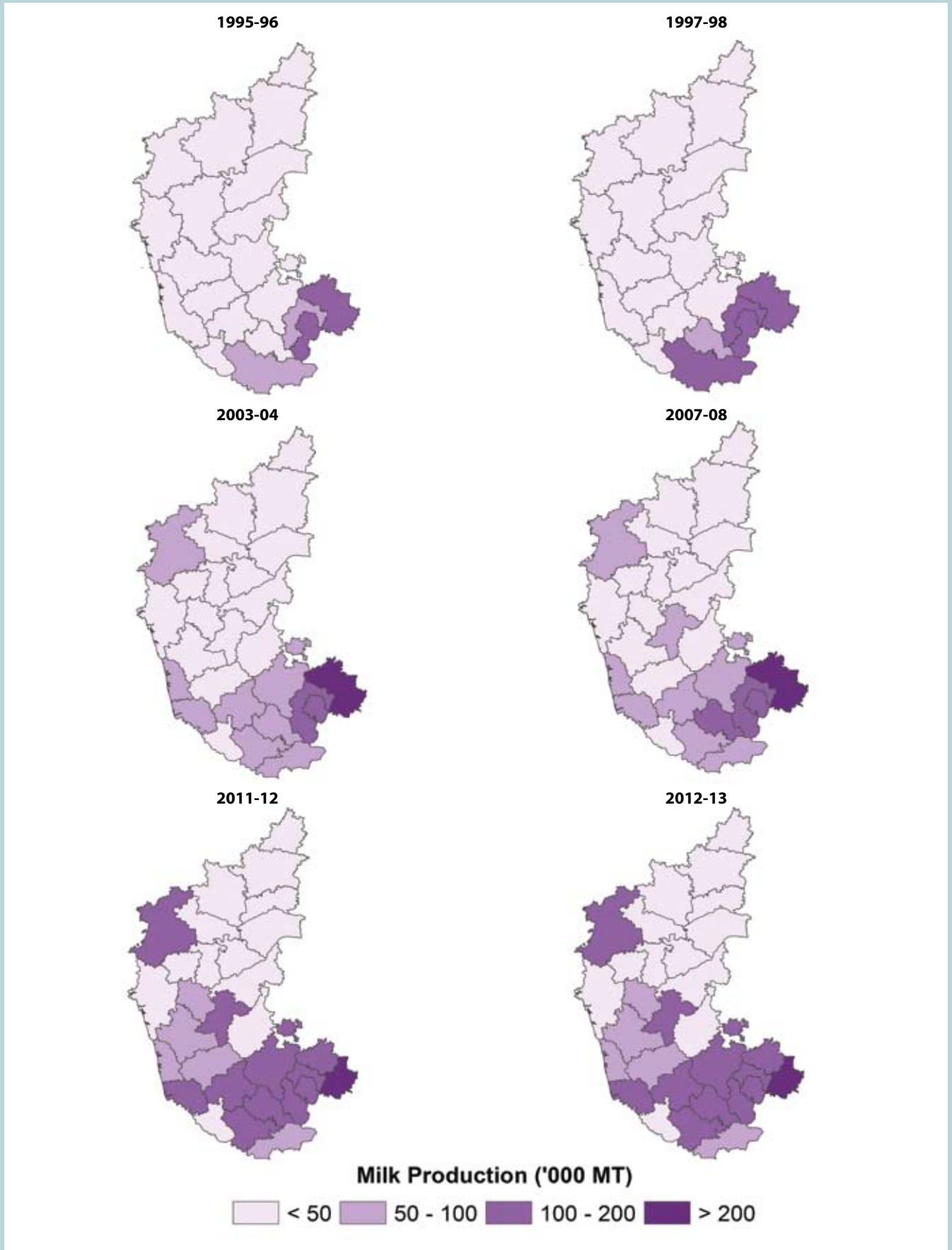
TABLE IV.3.4: Year and District-wise Crossbred Cattle Milk Production

Districts	Crossbred Cattle Milk Production ('000 MT)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	620	920	1,398	1,648	1,866	2,040	2,182	2,346	2,515
Bagalkot			15.0	19.0	27.0	26.0	29.0	33.0	35.0
Bangalore Rural	61.6	119.0	168.0	199.0	119.0	119.0	125.0	128.0	140.0
Bangalore Urban	144.7	155.0	117.0	125.0	108.0	108.0	114.0	115.0	127.0
Belgaum	8.1	19.0	58.0	65.0	73.0	95.0	99.0	103.0	112.0
Bellary	4.9	10.0	6.0	15.0	12.0	12.0	13.0	17.0	21.0
Bidar	2.0	3.0	9.0	15.0	10.0	9.0	11.0	14.0	14.0
Bijapur	2.1	6.0	1.0	3.0	0	0	1.0	3.0	3.0
Chamarajanagar			57.0	70.0	86.0	85.0	90.0	83.0	87.0
Chikkaballapura					160.0	166.0	173.0	184.0	185.0
Chikmagalur	9.7	15.0	24.0	26.0	33.0	41.0	44.0	53.0	58.0
Chitradurga	16.3	19.0	12.0	15.0	21.0	21.0	24.0	28.0	32.0
Dakshina Kannada	18.2	42.0	75.0	88.0	104.0	117.0	125.0	125.0	135.0
Davanagere			49.0	59.0	75.0	85.0	94.0	102.0	108.0
Dharwad	20.5	26.0	21.0	27.0	33.0	31.0	35.0	39.0	42.0
Gadag			9.0	11.0	12.0	12.0	13.0	16.0	17.0
Gulbarga	3.8	5.0	6.0	12.0	9.0	10.0	12.0	13.0	15.0
Hasan	37.2	50.0	75.0	76.0	102.0	144.0	151.0	156.0	168.0
Haveri			24.0	27.0	43.0	41.0	47.0	52.0	53.0
Kodagu	3.0	8.0	14.0	17.0	21.0	21.0	22.0	26.0	30.0
Kolar	134.6	194.0	280.0	337.0	198.0	198.0	208.0	220.0	237.0
Koppal			8.0	14.0	12.0	12.0	15.0	25.0	28.0
Mandya	35.7	67.0	94.0	122.0	143.0	160.0	169.0	180.0	194.0
Mysore	70.5	111.0	71.0	87.0	112.0	133.0	143.0	158.0	168.0
Raichur	2.2	3.0	9.0	9.0	6.0	6.0	9.0	11.0	12.0
Ramanagara					70.0	91.0	98.0	108.0	115.0
Shimoga	11.3	26.0	42.0	46.0	65.0	65.0	72.0	78.0	83.0
Tumkur	25.2	35.0	54.0	68.0	120.0	140.0	150.0	160.0	168.0
Udupi			80.0	75.0	65.0	65.0	69.0	78.0	83.0
Uttara Kannada	8.9	7.0	20.0	21.0	27.0	27.0	27.0	31.0	37.0
Yadgir								7.0	8.0

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka. Zero denotes either nil or negligible.



District-wise Crossbred Cattle Milk Production





IV.3. Production Performance: Milk Production

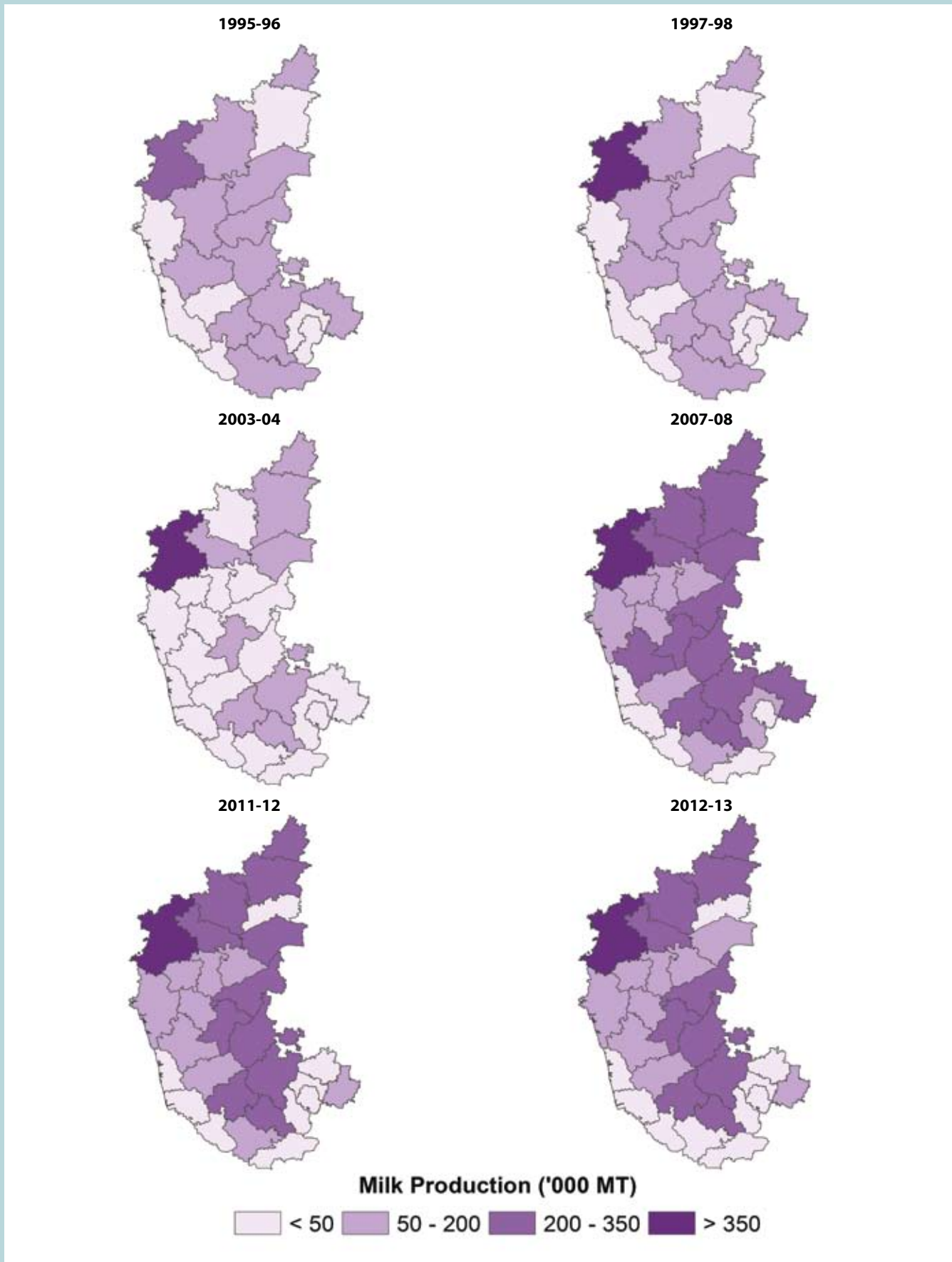
TABLE IV.3.5: Year and District-wise Buffalo Milk Production

Districts	Buffalo Milk Production ('000 MT)								
	1995-96	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	1,421	1,601	1,350	1,387	1,421	1,505	1,583	1,675	1,740
Bagalkot			70.0	68.0	77.0	82.0	83.0	85.0	90.0
Bangalore Rural	46.0	33.0	34.0	29.0	12.0	15.0	15.0	17.0	19.0
Bangalore Urban	26.5	28.0	7.0	6.0	5.0	6.0	6.0	6.0	6.0
Belgaum	231.0	353.0	383.0	328.0	349.0	395.0	410.0	430.0	447.0
Bellary	53.7	63.0	44.0	61.0	63.0	64.0	68.0	70.0	74.0
Bidar	56.4	60.0	66.0	57.0	62.0	64.0	68.0	70.0	75.0
Bijapur	109.2	138.0	49.0	51.0	59.0	62.0	64.0	66.0	68.0
Chamarajanagar			8.0	10.0	9.0	9.0	10.0	11.0	12.0
Chikkaballapura					18.0	8.0	22.0	23.0	26.0
Chikmagalur	35.9	41.0	28.0	30.0	27.0	28.0	30.0	33.0	46.0
Chitradurga	105.7	112.0	43.0	56.0	58.0	59.0	60.0	62.0	64.0
Dakshina Kannada	25.8	26.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0
Davanagere			58.0	65.0	64.0	68.0	67.0	70.0	75.0
Dharwad	108.4	100.0	28.0	33.0	35.0	36.0	39.0	42.0	39.0
Gadag			21.0	19.0	27.0	27.0	28.0	31.0	33.0
Gulbarga	43.1	50.0	68.0	66.0	72.0	74.0	76.0	79.0	82.0
Hasan	74.5	72.0	60.0	62.0	64.0	68.0	69.0	70.0	71.0
Haveri			32.0	37.0	37.0	39.0	41.0	43.0	43.0
Kodagu	5.5	12.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0
Kolar	87.3	94.0	45.0	48.0	20.0	22.0	25.0	27.0	29.0
Koppal			29.0	31.0	33.0	34.0	35.0	42.0	45.0
Mandya	86.9	85.0	55.0	69.0	64.0	67.0	70.0	74.0	76.0
Mysore	65.3	59.0	18.0	24.0	21.0	23.0	24.0	26.0	27.0
Raichur	77.1	74.0	52.0	62.0	61.0	62.0	64.0	66.0	49.0
Ramanagara					15.0	17.0	19.0	21.0	23.0
Shimoga	64.4	81.0	41.0	55.0	48.0	49.0	51.0	50.0	54.0
Tumkur	73.0	91.0	68.0	75.0	82.0	87.0	94.0	95.0	97.0
Udupi			4.0	3.0	0	0	2.0	2.0	2.0
Uttara Kannada	45.3	29.0	30.0	33.0	30.0	32.0	34.0	37.0	36.0
Yadgir								18.0	22.0

SOURCE: Integrated Sample Survey Reports (1995-96 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka. Zero denotes either nil or negligible.



District-wise Buffalo Milk Production





IV.3. Production Performance: Milk Production

TABLE IV.3.6: Year and District-wise Goat Milk Production

Districts	Goat Milk Production ('000 MT)							
	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	22	39	49	51	53	56	58	59
Bagalkot			3	4	4	4	5	5
Bangalore Rural		1	1	1	1	1		0
Bangalore Urban			0	0		2		0
Belgaum	4	6	8	8	8	7	8	7
Bellary	2	3	3	2	3	3	3	3
Bidar	2	2	1	2	2	2	3	3
Bijapur	4	3	4	4	4	4	4	4
Chamarajanagar	0	1	1	1		1		0
Chikkaballapura				1	1	2	3	3
Chikmagalur			0	1		0		0
Chitradurga		2	2	3	3	3	3	3
Dakshina Kannada	2	1	0	0		0		0
Davanagere		1	1	1	1	1	1	1
Dharwad	4	1	1	1	1	1	0	0
Gadag		1	1	2	2	2	3	3
Gulbarga	1	4	5	7	5	6	6	6
Hasan		1	1	1	1	1	0	0
Haveri		1	2	1	1	2	2	2
Kodagu	0	0	0	0	0	0	0	0
Kolar		2	2	1	2	1		0
Koppal		1	2	2	2	2	3	3
Mandya		1	2	2	2	2	3	4
Mysore		1	1	1	1	1	1	2
Raichur	2	2	3	3	3	3	4	4
Ramanagara					1	1	1	0
Shimoga			1	1		0		0
Tumkur	1	2	4	0	3	4	3	3
Udupi	0	0	0	0	0	0	0	0
Uttar Kannada			0	0		0		0
Yadgir							3	3

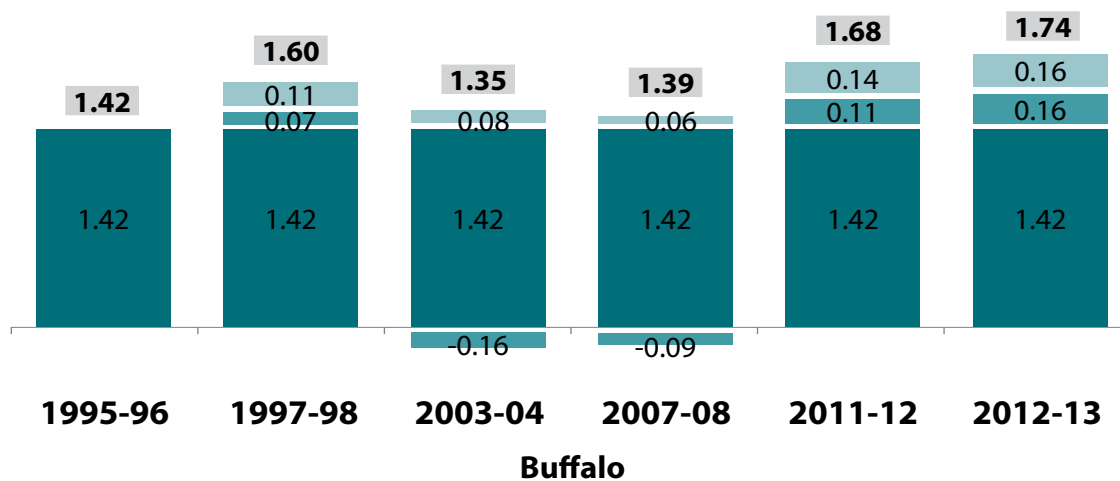
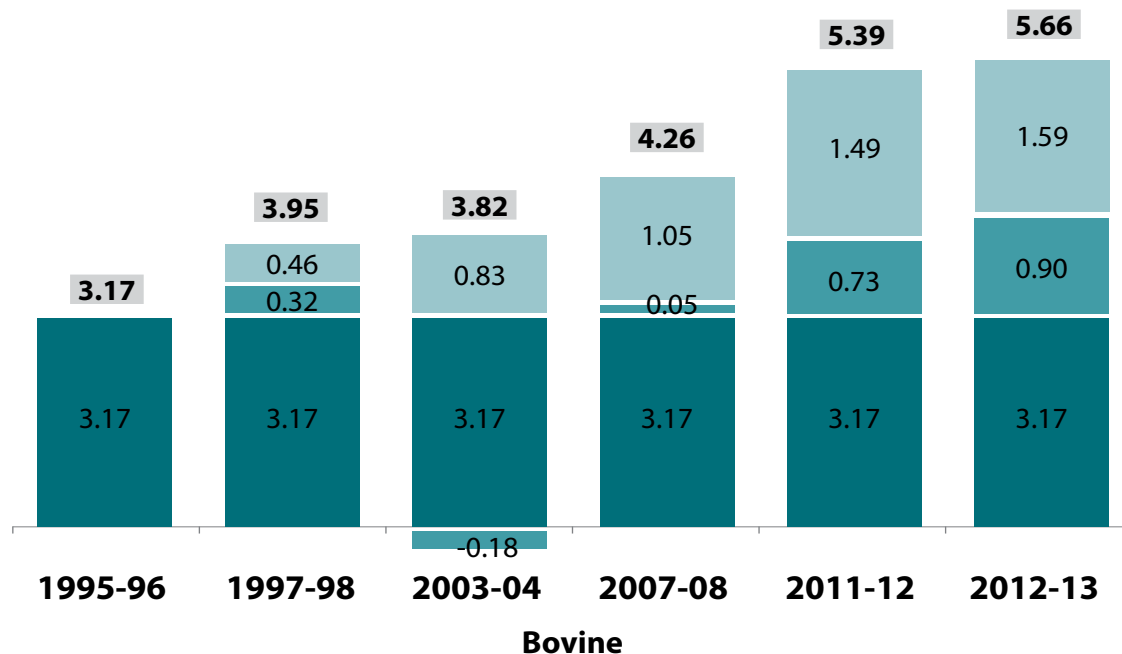
SOURCE: Integrated Sample Survey Reports (1997-98 to 2012-13), Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.





Karnataka's Milk Production (MMT)

(Change due to no. of in-milk animals & average yield)



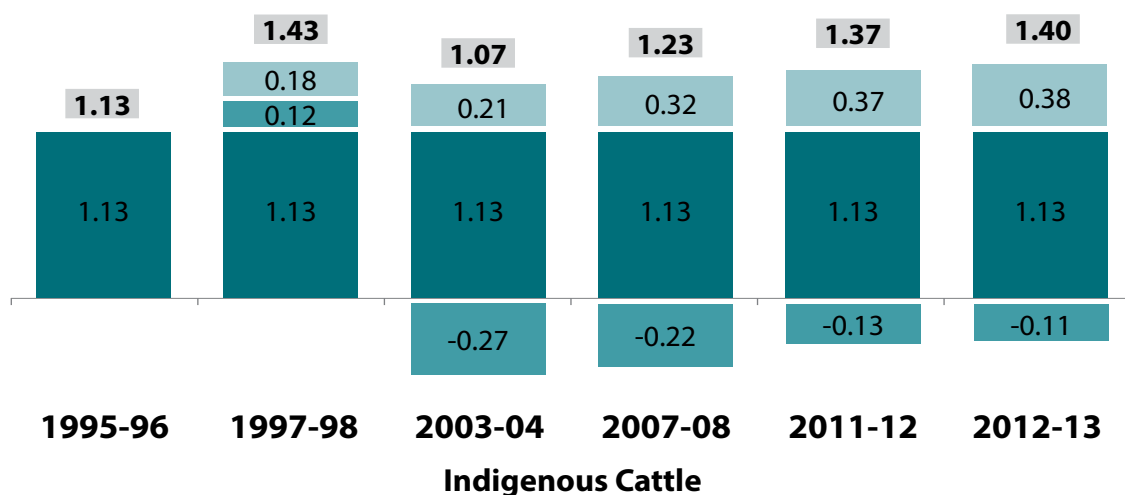
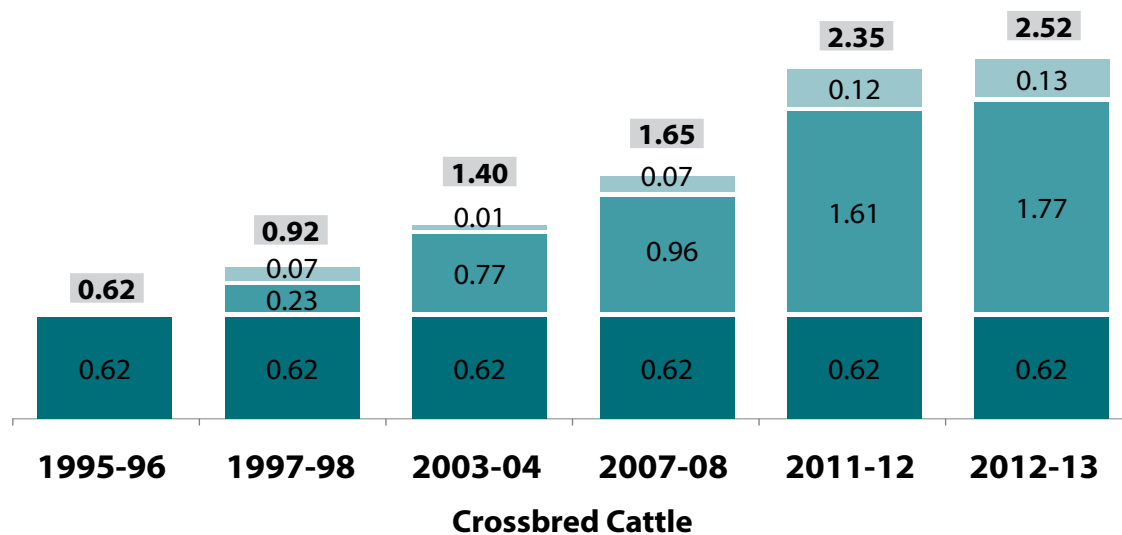
- Milk production in base year - 1995-1996 - million tonnes.
- Total milk production.
- Increase in total production due to change in numbers of in-milk animals - million tonnes.
- Increase in total milk production due to change in average yield - kg/in-milk animal per day - million tonnes.





Karnataka's Milk Production (MMT)

(Change due to no. of in-milk animals & average yield)



- Milk production in base year - 1995-1996 - million tonnes.
- Total milk production.
- Increase in total production due to change in numbers of in-milk animals - million tonnes.
- Increase in total milk production due to change in average yield - kg/in-milk animal per day - million tonnes.





IV.3. Production Performance: Milk Production

TABLE IV.3.7: Year and District-wise Total Milk Production Density

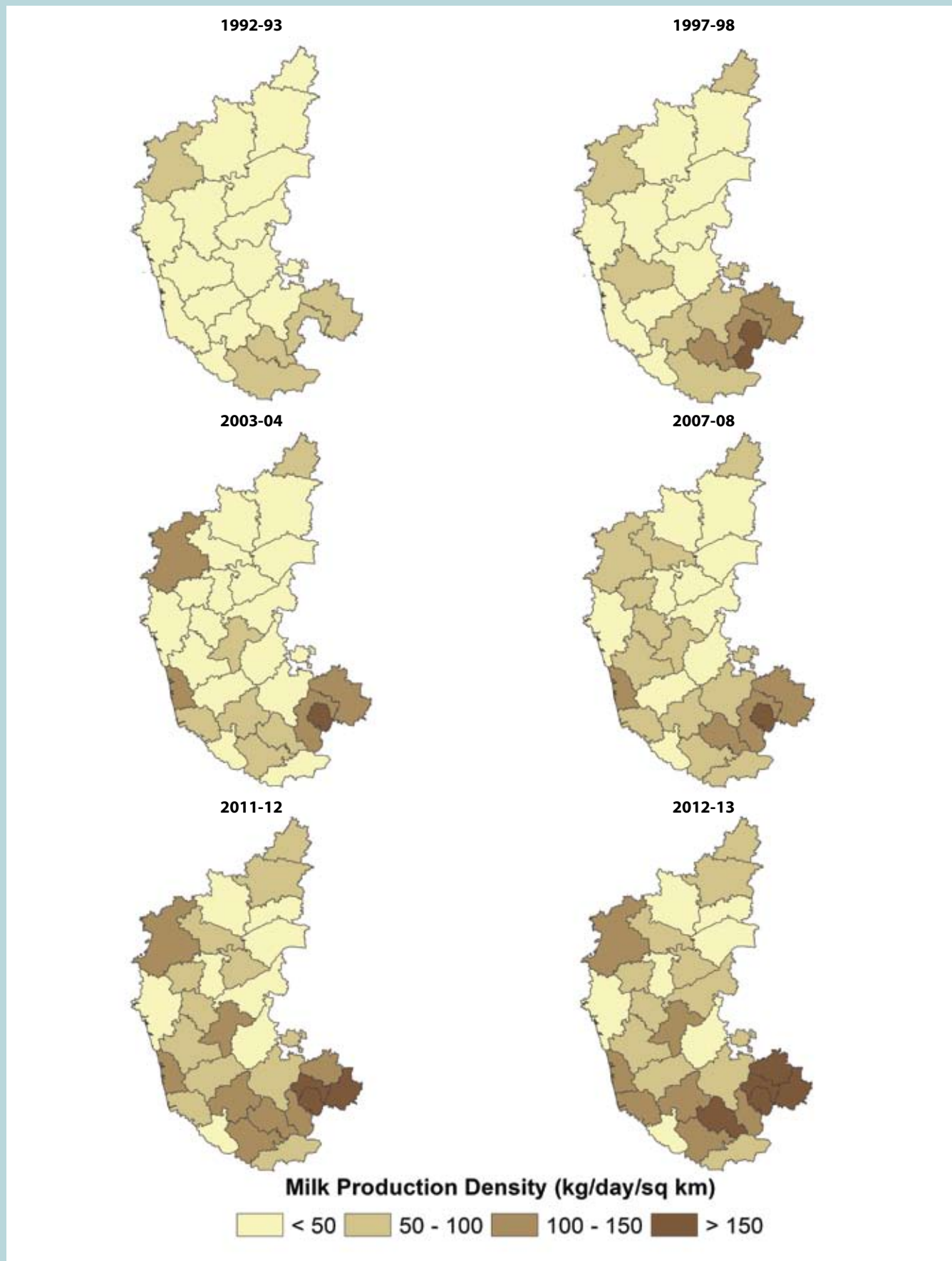
Districts	Milk Production Density (kg/day/sq km)								
	1992-93	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	37	57	55	62	65	69	73	78	82
Bagalkot			50	52	62	64	68	72	77
Bangalore Rural	73	105	113	129	168	172	181	187	205
Bangalore Urban		259	166	174	148	149	161	158	173
Belgaum	56	93	105	96	102	116	120	125	131
Bellary	27	42	30	42	42	43	46	48	51
Bidar	48	64	61	59	60	61	64	69	74
Bijapur	18	37	21	24	27	28	30	31	32
Chamarajanagar			43	53	58	58	62	60	63
Chikkaballapura					127	124	139	149	152
Chikmagalur	18	41	38	43	44	48	49	55	63
Chitradurga	25	37	28	35	38	39	41	44	47
Dakshina Kannada	34	47	69	81	85	92	98	98	106
Davanagere			65	75	84	91	96	102	107
Dharwad	45	40	43	52	57	57	62	67	66
Gadag			27	27	36	36	38	43	44
Gulbarga	22	32	31	34	36	36	38	55	56
Hasan	38	85	83	85	96	116	119	122	127
Haveri			46	53	63	62	69	74	76
Kodagu	16	29	21	25	25	25	26	29	33
Kolar	80	128	119	144	158	160	169	178	191
Koppal			35	41	41	42	45	55	59
Mandya	92	105	88	113	119	130	138	147	157
Mysore	53	60	59	77	86	97	102	111	116
Raichur	26	36	39	42	43	44	47	48	43
Ramanagara					94	113	124	133	141
Shimoga	24	55	46	56	60	61	63	66	70
Tumkur	35	58	47	56	70	78	83	86	88
Udupi			113	111	89	89	97	107	112
Uttara Kannada	17	23	23	26	26	25	26	29	30
Yadgir								36	39

NOTE: Bangalore Rural district includes Bangalore Urban district for 1992-93.

SOURCE: Estimated from various reports of Integrated Sample Survey, Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise Milk Production Density





IV.4. Production Performance: Milk Availability

TABLE IV.4.1: Year and District-wise Per Capita Milk Availability

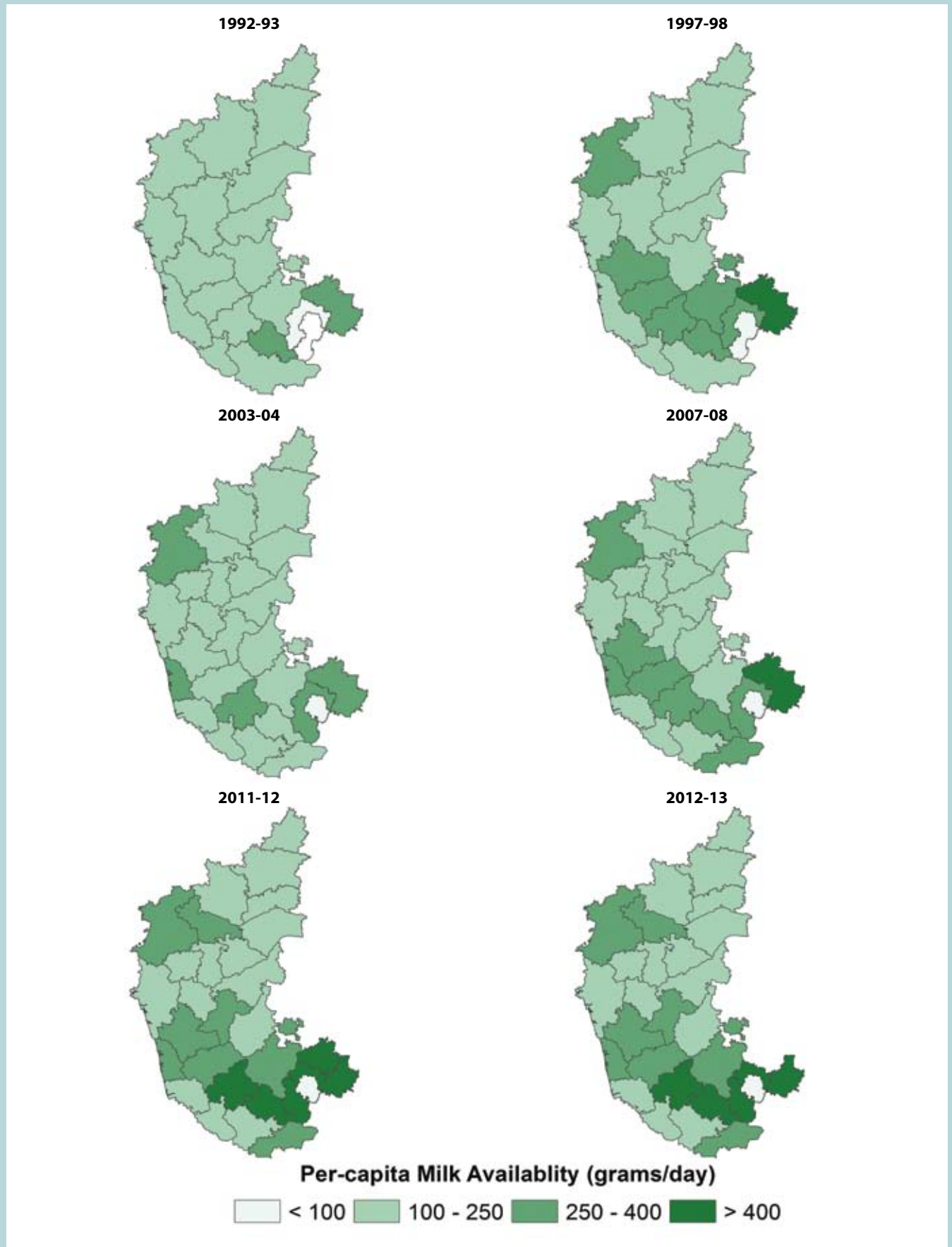
Districts	Per Capita Availability of Milk (grams/day)								
	1992-93	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	155	219	194	205	213	223	233	244	253
Bagalkot			194	193	226	229	239	252	265
Bangalore Rural	88	340	341	375	401	406	424	434	471
Bangalore Urban		98	52	47	38	37	38	36	38
Belgaum	208	317	327	283	296	333	340	351	363
Bellary	121	179	121	158	153	154	163	166	173
Bidar	201	247	213	198	197	198	207	219	232
Bijapur	106	198	115	125	137	140	146	149	153
Chamarajanagar			244	299	325	320	343	330	344
Chikkaballapura					436	423	470	498	509
Chikmagalur	125	272	240	272	277	301	313	349	397
Chitradurga	155	187	152	181	200	202	210	225	236
Dakshina Kannada	108	138	176	198	205	219	232	231	245
Davanagere			211	234	260	281	293	308	321
Dharwad	176	146	113	129	139	137	147	156	152
Gadag			127	123	161	162	171	190	194
Gulbarga	135	179	157	159	165	239	249	236	236
Hasan	164	350	324	328	372	447	458	467	486
Haveri			151	166	195	191	210	223	226
Kodagu	133	230	154	183	183	183	193	217	247
Kolar	293	437	378	440	424	425	445	464	493
Koppal			160	174	173	175	186	223	233
Mandya	278	305	249	317	333	363	383	408	434
Mysore	197	207	137	169	187	209	217	233	240
Raichur	154	190	190	194	197	197	206	210	185
Ramanagara					313	372	404	430	455
Shimoga	109	270	235	281	295	298	310	322	335
Tumkur	161	251	189	223	279	309	329	339	349
Udupi			361	348	277	275	300	328	340
Uttara Kannada	142	186	172	193	188	183	190	206	216
Yadgir								163	177

NOTE: Bangalore Rural district includes Bangalore Urban district for 1992-93.

SOURCE: Estimated from various reports of Integrated Sample Survey, Department of Animal Husbandry & Veterinary Services, Government of Karnataka.



District-wise Per Capita Milk Availability





IV.5. Production Performance: Milk Utilisation

TABLE IV.5.1: Milk Utilisation Pattern in Households (2000-01 to 2012-13)

(In Percent)

Items	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Milk Sold as Fluid	62	62	60	66	70	73	72	72
Milk Consumed as Fluid	26	27	27	25	21	21	18	18
Milk Converted to Products	13	12	13	9	9	6	10	10

SOURCE: Reports on Integrated Sample Survey, Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka, Bangalore.





PART V : VETERINARY INFRASTRUCTURE AND SERVICE DELIVERY SYSTEM

In Karnataka, the Department of Animal Husbandry & Veterinary Services (AH&VS) oversees veterinary and health care services. Four institutions supplement efforts of the department in dairy sector viz., “Karnataka Veterinary Council”, “Karnataka Veterinary Animal and Fisheries Sciences University, Bidar”, “Institute of Animal Health & Veterinary Biologicals, Bangalore” and “Karnataka Milk Federation, Bangalore”. In addition, the government has also formed “Karnataka Livestock Development Agency” in 2002 to implement a national project on cattle and buffalo breeding. The implementation of AH&VS department has devolved the functions to the Panchayati Raj Institutions (PRIs) at district (Zilla Panchayat [ZP]), block (Taluka Panchayat [TP]), and Gram Panchayat (GP) levels.

The government has set-up 3,680 veterinary hospitals, dispensaries, clinics, mobile units or veterinary centres and 3,910 Artificial Insemination (AI) centres. During 2012-13, the government agencies have performed about 23.7 lakh AIs on bovines.

Of late, both the government as well as Cooperatives in Karnataka are facing shortages of veterinary doctors in the state. It has effected vaccination programmes. In 2013, the state had experienced an out-break of Foot-and-Mouth disease. The state government has issued an order re-organising the Department of Animal Husbandry and Veterinary Sciences in a bid to streamline its services. The cooperatives are actively envisaging to finance the children of the farmer members to study the five-year course in veterinary science and serve as veterinarians.





V.1. Veterinary Infrastructure

TABLE V.1.1: Year and District-wise Veterinary Institutes

Districts	Number of Veterinary Institutes								
	1994-95	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	2,732	3,238	3,374	3,680	3,677	3,677	3,680	3,680	3,680
Bagalkot		108	111	128	130	130	130	131	131
Bangalore Rural	120	148	150	172	76	76	76	76	76
Bangalore Urban	94	96	99	104	104	104	104	104	104
Belgaum	176	200	206	234	234	234	234	234	234
Bellary	100	89	93	107	107	107	108	108	108
Bidar	75	92	94	105	106	106	106	106	106
Bijapur	161	104	115	123	124	124	124	124	124
Chamarajanagar		59	63	69	69	69	69	69	69
Chikkaballapura					88	88	88	88	88
Chikmagalur	99	123	131	132	133	133	133	133	133
Chitradurga	168	116	122	126	127	127	127	127	127
Dakshina Kannada	149	77	88	101	101	101	101	101	101
Davanagere		137	142	152	154	154	154	154	154
Dharwad	201	67	64	72	73	73	73	73	73
Gadag		69	71	78	78	78	78	78	78
Gulbarga	169	255	261	285	289	289	198	198	198
Hassan	146	170	175	185	186	186	186	186	186
Haveri		113	115	123	121	121	122	122	122
Kodagu	50	55	56	58	58	58	58	58	58
Kolar	135	150	158	201	93	93	93	93	93
Koppal		80	69	75	75	75	75	75	75
Mandya	182	186	190	194	194	194	194	194	194
Mysore	164	157	164	168	168	168	168	168	168
Raichur	105	64	83	94	96	96	96	96	96
Ramanagara					97	97	97	97	97
Shimoga	172	140	145	158	158	158	158	158	158
Tumkur	167	186	206	214	216	216	216	216	216
Udupi		83	88	89	89	89	89	89	89
Uttara Kannada	99	114	115	133	133	133	133	133	133
Yadgir							91	91	91

NOTE: Veterinary institutes include Veterinary Hospitals, Veterinary Dispensaries, Primary Veterinary Centers, Mobile Veterinary Centers and Clinics, Intensive Cattle Breeding and Development Scheme.

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.1. Veterinary Infrastructure

TABLE V.1.2: District-wise AI Centres – Government Agencies

Districts	Number of AI Centres								
	1994-95	1997-98	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	3,174	3,638	3,774	3,922	3,907	3,907	3,908	3,909	3,910
Bagalkot		114	117	132	130	130	130	131	131
Bangalore Rural	166	184	186	211	96	96	96	96	96
Bangalore Urban	118	120	123	129	129	129	129	129	129
Belgaum	210	231	238	245	245	245	245	245	245
Bellary	111	92	96	107	107	107	108	108	108
Bidar	84	100	102	106	107	107	107	107	107
Bijapur	175	110	121	123	124	124	124	124	124
Chamarajanagar		71	75	69	69	69	69	69	69
Chikkaballapura					94	94	94	94	94
Chikmagalur	105	128	136	134	135	135	135	135	135
Chitradurga	193	126	133	137	136	136	136	136	136
Dakshina Kannada	158	82	93	101	101	101	101	101	101
Davanagere		161	163	176	176	176	176	176	176
Dharwad	268	106	104	109	109	109	109	109	109
Gadag		76	78	87	87	87	87	87	87
Gulbarga	191	275	284	301	302	302	210	210	210
Hassan	155	179	184	195	196	196	196	196	196
Haveri		133	135	130	129	129	129	129	129
Kodagu	70	73	74	58	58	58	58	58	58
Kolar	170	184	191	213	99	99	99	99	100
Koppal		92	71	79	79	79	79	79	79
Mandya	188	190	194	202	202	202	202	202	202
Mysore	188	166	173	168	168	168	168	168	168
Raichur	122	69	96	98	100	100	100	100	100
Ramanagara					115	115	115	115	115
Shimoga	192	150	155	168	168	168	168	168	168
Tumkur	183	204	224	222	224	224	224	224	224
Udupi		87	92	89	89	89	89	89	89
Uttara Kannada	127	135	136	133	133	133	133	133	133
Yadgir							92	92	92

NOTE: Veterinary institutes include Veterinary Hospitals, Veterinary Dispensaries, Primary Veterinary Centers, Mobile Veterinary Centers and Clinics, Intensive Cattle Breeding and Development Scheme.

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.1. Veterinary Infrastructure

TABLE V.1.3: Union-wise AI Centres – Cooperatives

Unions	Number of AI Centres								
	2001-02	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
KARNATAKA	2,338	2,326	2,328	2,342	2,437	2,565	2,629	2,684	2,741
Bangalore	434	420	345	355	360	353	355	363	381
Belgaum	124	115	152	143	154	170	169	170	175
Bijapur	78	73	97	84	94	135	144	144	155
Dakshina Kannada	276	309	350	353	349	339	336	336	354
Dharwad	188	193	232	239	272	250	250	250	250
Gulbarga	52	61	56	58	56	62	70	70	73
Hassan	209	206	96	92	101	107	107	107	106
Kolar	390	378	307	297	294	311	322	322	320
Mandya	82	76	103	113	108	111	113	125	123
Mysore	91	97	119	125	127	138	152	160	166
Raichur	101	107	120	120	126	143	151	169	169
Shimoga	172	174	215	227	230	247	259	255	254
Tumkur	141	117	136	136	166	199	201	213	215

SOURCE: Cooperative Milk Unions, Karnataka.





V.1. Veterinary Infrastructure

TABLE V.1.4: District-wise AI Centres - BAIF

Districts	Number of AI Centres				
	2010-11	2011-12	2012-13	2013-14	2014-15
KARNATAKA	182	231	244	238	196
Bagalkot	21	21	21	19	18
Bangalore Rural	0	0	0	0	0
Bangalore Urban	0	0	0	0	0
Belgaum	10	11	11	8	4
Bellary	16	25	25	25	22
Bidar	10	12	12	12	11
Bijapur	2	7	7	7	6
Chamarajanagar	2	2	2	2	1
Chikmagalur	5	2	2	2	1
Chikkaballapura	0	0	0	11	9
Chitradurga	8	8	8	6	6
Dakshina Kannada	0	0	0	0	0
Davanagere	9	5	5	2	0
Dharwad	7	4	4	4	3
Gadag	7	11	11	11	7
Gulbarga	10	24	24	24	20
Hassan	5	6	10	9	7
Haveri	8	4	4	4	3
Kodagu	0	0	0	0	0
Kolar	0	0	0	0	0
Koppal	7	15	15	15	15
Mandya	4	2	2	2	1
Mysore	16	21	30	29	25
Raichur	10	26	26	24	22
Ramanagara	0	0	0	0	0
Shimoga	0	0	0	0	0
Tumkur	8	5	5	3	2
Udupi	0	0	0	0	0
Uttara Kannada	15	11	11	12	6
Yadgir	2	9	9	7	7

NOTE: Data for 2014-15 is for April to December 2014.

SOURCE: Bharatiya Agro Industries Foundation (BAIF).



V.2. Service Delivery System - Artificial Insemination

TABLE V.2.1: District-wise AI Performed by Government Agencies – Cattle

Districts	Number of AI Performed ('000)									
	1994-95	1997-98	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	1,083.0	969.2	1,314.6	1,581.2	1,947.9	2,156.5	2,336.7	2,483.6	2,507.4	1,998.5
Bagalkot			11.4	18.1	53.8	59.0	62.7	72.6	78.8	56.3
Bangalore Rural	98.2	99.9	134.6	150.4	128.1	87.2	101.8	100.5	116.7	83.4
Bangalore Urban	141.3	122.3	146.9	113.8	110.3	115.9	125.9	141.9	125.7	65.4
Belgaum	43.4	48.4	107.9	78.6	127.5	157.3	180.5	168.2	155.2	139.3
Bellary	12.9	13.1	4.3	16.5	21.7	22.7	24.5	27.8	27.6	22.1
Bidar	16.2	11.1	7.1	13.1	16.4	16.2	19.3	21.0	22.4	13.3
Bijapur	17.9	14.8	9.0	9.9	16.0	17.8	21.2	20.0	25.8	20.0
Chamarajanagar			24.4	39.1	41.0	43.7	48.1	46.3	48.8	45.6
Chikkaballapura						104.7	106.9	143.9	168.9	126.6
Chikmagalur	26.8	25.9	36.2	38.9	71.4	75.2	83.4	87.7	52.5	56.4
Chitradurga	50.4	41.5	25.0	34.5	55.6	60.8	68.0	73.2	69.9	48.9
Dakshina Kannada	43.8	49.0	39.9	49.9	55.0	54.4	56.7	57.4	57.2	46.9
Davanagere			62.7	78.1	114.6	117.4	124.4	135.9	142.3	99.9
Dharwad	122.7	92.6	43.7	46.6	56.3	51.1	62.8	69.4	78.6	47.6
Gadag			20.7	18.1	28.2	31.6	30.3	35.0	44.8	21.0
Gulbarga	11.2	6.8	1.8	8.6	15.4	17.7	18.6	17.1	9.4	6.3
Hassan	66.2	62.5	83.0	142.1	140.3	188.8	187.7	196.7	189.7	152.7
Haveri			50.2	53.4	70.3	73.2	72.9	81.2	88.4	68.5
Kodagu	10.8	9.1	10.4	13.8	17.2	21.2	21.6	21.6	20.9	14.0
Kolar	94.3	98.6	139.0	185.3	212.9	112.6	117.3	126.4	134.8	112.0
Koppal			8.0	10.3	17.6	21.1	18.1	21.8	28.3	24.9
Mandya	58.1	62.4	85.1	126.7	115.3	107.3	118.9	144.7	154.6	142.8
Mysore	105.6	74.7	82.3	102.8	106.7	116.1	118.9	114.1	121.1	124.9
Raichur	13.0	11.5	3.1	4.2	8.6	7.8	9.2	9.7	9.2	7.7
Ramanagara						107.2	123.2	113.9	89.3	61.9
Shimoga	54.2	55.5	86.8	60.2	86.4	93.8	106.7	104.4	94.0	80.4
Tumkur	62.2	53.8	71.1	107.1	183.7	190.2	222.1	238.7	249.6	228.8
Udupi			3.6	43.1	51.8	58.5	58.1	65.2	72.4	53.1
Uttara Kannada	33.2	15.9	16.4	18.3	25.6	26.2	27.1	27.3	29.7	25.0
Yadgir									0.7	2.8

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.2. Service Delivery System - Artificial Insemination

TABLE V.2.2: District-wise AI Performed by Government Agencies – Buffaloes

Districts	Number of AI Performed ('000)									
	1994-95	1997-98	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	382.2	295.7	469.9	517.9	644.4	696.9	713.0	681.9	628.9	369.6
Bagalkot			10.1	18.7	42.8	46.9	45.7	53.8	57.7	26.2
Bangalore Rural	16.7	13.4	17.4	17.9	11.8	7.3	6.6	7.8	7.2	1.9
Bangalore Urban	9.9	5.6	6.5	5.0	4.3	3.8	3.8	3.7	2.4	0.1
Belgaum	43.0	51.3	148.8	114.9	164	196.6	212.0	170.8	177.3	108.0
Bellary	8.2	8.0	1.9	10.9	13.7	15.1	15.1	13.1	12.2	9.0
Bidar	13.4	7.7	5.0	9.4	10.7	11.4	12.5	13.9	14.8	6.0
Bijapur	15.4	10.5	8.6	10.0	15.0	16.9	16.8	13.2	18.7	13.0
Chamarajanagar			3.0	3.7	2.5	3.2	2.7	2.6	2.6	1.6
Chikkaballapura						13.7	13.4	13.0	10.7	6.2
Chikmagalur	7.9	8.6	9.8	9.9	15.0	15.1	15.0	13.6	8.8	5.1
Chitradurga	21.4	19.4	13.1	19.3	25.5	26.4	30.6	28.4	26.2	14.7
Dakshina Kannada	3.9	4.1	2.0	1.8	0.8	0.9	0.5	0.7	0.4	0.3
Davanagere			22.7	30.5	44.6	41.9	42.9	45.4	41.0	16.1
Dharwad	40.5	35.0	18.4	22.8	25.0	24.5	29.1	28.4	31.0	17.8
Gadag			9.9	11.6	17.0	17.7	17.6	17.1	17.4	6.7
Gulbarga	3.6	5.4	1.7	9.1	11.4	14.1	13.4	11.1	4.3	3.8
Hassan	20.6	17.0	24.1	32.4	29.9	33.7	31.7	33.1	21.4	10.5
Haveri			22.1	25.7	31.2	32.9	32.3	34.7	33.0	25.0
Kodagu	1.3	0.7	1.0	1.3	1.4	1.5	1.5	1.4	1.2	0.1
Kolar	13.9	13.0	19.7	25.1	23.7	10.8	10.6	12.7	11.9	5.1
Koppal			5.8	6.8	9.8	11.5	10.3	10.5	13.7	8.8
Mandya	20.9	19.6	25.8	35.9	30.6	26.6	23.8	22.8	16.9	7.8
Mysore	14.4	6.9	6.8	7.6	7.2	7.1	6.3	6.1	5.0	4.3
Raichur	16.6	13.6	5.0	6.5	9.5	10.5	11.1	11.2	8.8	4.5
Ramanagara						11.9	11.0	13.5	9.6	5.4
Shimoga	27.1	18.8	30.6	19.3	25.4	25.8	25.7	26.7	16.8	11.0
Tumkur	32.0	28.1	39.6	48.3	54.7	51.8	53.5	55.7	40.8	35.4
Udupi			0.2	1.4	1.0	0.9	1.1	0.9	0.5	0.4
Uttara Kannada	51.2	9.1	10.6	12.4	15.9	16.5	16.5	15.9	15.9	10.9
Yadgir									0.5	3.8

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.2. Service Delivery System - Artificial Insemination

TABLE V.2.3: District-wise AI Performed by Government Agencies – Bovine

Districts	Number of AI Performed ('000)									
	1994-95	1997-98	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	1,465.2	1,264.9	1,784.5	2,099.1	2,592.3	2,853.4	3,049.7	3,165.5	3,136.3	2,368.1
Bagalkot			21.5	36.8	96.6	105.9	108.4	126.4	136.5	82.5
Bangalore Rural	114.9	113.3	152.0	168.3	139.9	94.5	108.4	108.3	123.9	85.3
Bangalore Urban	151.2	127.9	153.4	118.8	114.6	119.7	129.7	145.6	128.1	65.5
Belgaum	86.4	99.7	256.7	193.5	291.5	353.9	392.5	339.0	332.5	247.3
Bellary	21.1	21.1	6.2	27.4	35.4	37.8	39.6	40.9	39.8	31.1
Bidar	29.6	18.8	12.1	22.5	27.1	27.6	31.8	34.9	37.2	19.3
Bijapur	33.3	25.3	17.6	19.9	31.0	34.7	38.0	33.2	44.5	33.0
Chamarajanagar			27.4	42.8	43.5	46.9	50.8	48.9	51.4	47.2
Chikkaballapura						118.4	120.3	156.9	179.6	132.8
Chikmagalur	34.7	34.5	46.0	48.8	86.4	90.3	98.4	101.3	61.3	61.5
Chitradurga	71.8	60.9	38.1	53.8	81.1	87.2	98.6	101.6	96.1	63.6
Dakshina Kannada	47.7	53.1	41.9	51.7	55.8	55.3	57.2	58.1	57.6	47.2
Davanagere			85.4	108.6	159.2	159.3	167.3	181.3	183.3	116.0
Dharwad	163.2	127.6	62.1	69.4	81.3	75.6	91.9	97.8	109.6	65.4
Gadag			30.6	29.7	45.2	49.3	47.9	52.1	62.2	27.7
Gulbarga	14.8	12.2	3.5	17.7	26.8	31.8	32.0	28.2	13.7	10.1
Hassan	86.8	79.5	107.1	174.5	170.2	222.5	219.4	229.8	211.1	163.2
Haveri			72.3	79.1	101.5	106.1	105.2	115.9	121.4	93.5
Kodagu	12.1	9.8	11.4	15.1	18.6	22.7	23.1	23.0	22.1	14.1
Kolar	108.2	111.6	158.7	210.4	236.6	123.4	127.9	139.1	146.7	117.1
Koppal			13.8	17.1	27.4	32.6	28.4	32.3	42.0	33.7
Mandya	79.0	82.0	110.9	162.6	145.9	133.9	142.7	167.5	171.5	150.6
Mysore	120.0	81.6	89.1	110.4	113.9	123.2	125.2	120.2	126.1	129.2
Raichur	29.6	25.1	8.1	10.7	18.1	18.3	20.3	20.9	18.0	12.2
Ramanagara						119.1	134.2	127.4	98.9	67.3
Shimoga	81.3	74.3	117.4	79.5	111.8	119.6	132.4	131.1	110.8	91.4
Tumkur	94.2	81.9	110.7	155.4	238.4	242.0	275.6	294.4	290.4	264.2
Udupi			3.8	44.5	52.8	59.4	59.2	66.1	72.9	53.5
Uttara Kannada	84.4	25.0	27.0	30.7	41.5	42.7	43.6	43.2	45.6	35.9
Yadgir									1.2	6.6

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.2. Service Delivery System - Artificial Insemination

TABLE V.2.4: Union-wise AI Performed by Cooperatives – Bovine

Unions	Number of AI Performed ('000)								
	2001-02	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
KARNATAKA	1,012.8	1,153.7	1,644.3	1,898.4	2,035.4	2,271.7	2,473.0	2,750.6	2,765.5
Bangalore	209.6	250.4	280.7	305.0	313.6	341.1	381.7	394.0	394.7
Belgaum	55.4	59.9	83.4	117.6	126.2	137.9	126.4	152.0	148.3
Bijapur	17.6	19.6	32.0	21.8	37.5	43.7	51.1	62.8	63.7
Dakshina Kannada	111.7	124.1	164.7	164.5	169.2	176.9	183.0	200.3	207.6
Dharwad	47.7	53.2	65.1	68.7	67.9	87.8	99.9	112.0	116.0
Gulbarga	7.5	9.4	11.3	11.6	12.6	14.1	15.8	19.4	21.4
Hassan	65.5	70.8	185.9	254.6	284.7	312.1	331.4	351.9	353.2
Kolar	150.6	180.0	221.2	235.4	248.3	271.1	277.4	331.9	358.4
Mandya	105.2	121.8	207.3	243.8	260.4	281.6	316.6	349.3	357.6
Mysore	114.7	118.9	177.2	210.7	231.5	273.9	315.1	344.2	337.8
Raichur	24.0	28.3	37.5	37.2	36.8	41.6	44.7	56.3	59.6
Shimoga	54.5	53.6	74.3	108.0	103.2	111.5	116.2	147.3	147.7
Tumkur	48.7	64.0	103.8	119.6	143.4	178.4	213.6	229.4	199.5

SOURCE: Cooperative Milk Unions, Karnataka.





V.2. Service Delivery System - Artificial Insemination

TABLE V.2.5: District-wise AI Performed by BAIF – Bovine

Districts	Number of AI Performed				
	2010-11	2011-12	2012-13	2013-14	2014-15
KARNATAKA	127,572	176,996	213,510	163,226	126,663
Bagalkot	14,795	23,149	24,519	22,447	17,443
Bangalore Rural	0	0	0	0	0
Bangalore Urban	0	0	0	0	0
Belgaum	5,032	6,011	7,556	4,604	2,039
Bellary	4,935	11,178	15,290	16,308	14,003
Bidar	8,912	12,923	16,592	10,524	5,960
Bijapur	2,555	4,705	6,332	6,247	4,270
Chamarajanagar	3,039	3,773	3,658	1,646	984
Chikmagalur	3,068	4,117	5,018	1,949	597
Chikkaballapura	0	0	0	2,336	3,903
Chitradurga	8,381	8,367	9,545	3,206	3,631
Dakshina Kannada	0	0	0	0	0
Davanagere	4,081	3,505	2,848	938	0
Dharwad	4,809	4,348	4,372	2,195	1,243
Gadag	5,866	9,459	11,519	9,986	4,793
Gulbarga	7,973	11,388	13,624	7,695	9,120
Hassan	4,569	5,466	9,216	4,915	3,917
Haveri	6,346	5,335	5,724	2,347	1,342
Kodagu	0	0	0	0	0
Kolar	0	0	0	0	0
Koppal	6,104	11,259	14,608	12,962	12,130
Mandya	3,535	4,046	4,264	1,595	1,798
Mysore	13,543	21,132	25,499	21,634	18,996
Raichur	3,553	9,712	13,270	16,158	10,909
Ramanagara	0	0	0	0	0
Shimoga	0	0	0	0	0
Tumkur	7,345	8,241	8,653	2,636	1,587
Udupi	0	0	0	0	0
Uttara Kannada	8,738	6,726	7,971	6,673	5,002
Yadgir	393	2,156	3,432	4,225	2,996

NOTE: Data for 2014-15 is for April to December 2014.

SOURCE: Bharatiya Agro Industries Foundation (BAIF).



V.3. Service Delivery System - Animal Health

TABLE V.3.1: District-wise Vaccination Performed for Foot-and-Mouth Disease by Government of Karnataka

Districts	Foot-and-Mouth Disease Vaccination ('000)								
	1997-98	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	792	2,662	2,758	10,083	10,924	11,050	11,131	20,880	19,208
Bagalkot		108	73	407	316	453	402	702	893
Bangalore Rural	35	110	206	404	127	159	132	260	245
Bangalore Urban	11	44	44	256	306	339	360	226	197
Belgaum	75	264	114	810	835	1,075	1,011	2,583	2,255
Bellary	54	138	124	332	253	262	348	1,740	848
Bidar	16	45	77	146	136	340	573	574	548
Bijapur	48	89	64	193	222	308	249	600	620
Chamarajanagar		43	83	308	359	360	347	452	303
Chikkaballapura					430	233	288	346	348
Chikmagalur	33	91	87	412	380	353	328	473	455
Chitradurga	53	114	82	375	430	395	464	712	717
Dakshina Kannada	24	25	46	205	260	292	287	1,863	517
Davanagere		165	121	465	349	461	478	823	778
Dharwad	59	51	50	257	170	206	196	312	539
Gadag		61	27	197	167	182	292	361	405
Gulbarga	27	156	177	398	412	421	384	651	813
Hassan	44	141	146	408	561	651	581	1,147	1,088
Haveri		89	58	256	273	263	275	754	624
Kodagu	10	34	39	239	145	147	91	94	113
Kolar	50	162	348	559	409	352	394	424	425
Koppal		81	68	141	153	162	273	390	529
Mandya	32	130	98	518	1,292	962	459	384	534
Mysore	27	78	102	710	553	444	413	687	970
Raichur	49	79	109	365	375	468	512	482	536
Ramanagara					251	354	372	319	370
Shimoga	64	135	93	690	637	397	635	1,109	1,129
Tumkur	64	150	169	667	688	589	576	888	925
Udupi		16	80	127	187	189	186	252	383
Uttara Kannada	17	64	72	241	247	236	230	527	551
Yadgir								744	551

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.3. Service Delivery System - Animal Health

TABLE V.3.2: District-wise Vaccination Performed for Haemorrhagic Septicaemia by Government of Karnataka

Districts	Haemorrhagic Septicaemia Vaccination ('000)								
	1997-98	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	2,589	3,193	1,955	6,140	6,426	6,499	5,684	5,653	8,859
Bagalkot		87	38	409	675	559	704	640	491
Bangalore Rural	18	40	20	106	77	60	25	31	97
Bangalore Urban	9	19	19	81	86	76	27	29	83
Belgaum	123	264	113	560	682	1,145	501	705	1,168
Bellary	313	272	230	313	250	422	411	394	387
Bidar	88	69	83	49	96	73	54	44	82
Bijapur	114	48	18	48	46	72	43	39	68
Chamarajanagar		19	4	12	14	9	19	11	23
Chikkaballapura					113	131	198	72	217
Chikmagalur	112	110	46	256	248	193	198	144	157
Chitradurga	311	330	183	382	405	406	426	382	546
Dakshina Kannada	7	3	0*	0*	1	1	0*	1	48
Davanagere		292	148	354	347	431	307	322	210
Dharwad	177	50	36	94	58	73	67	49	81
Gadag		91	22	181	162	192	156	133	273
Gulbarga	97	110	73	101	135	127	98	35	51
Hassan	198	125	84	356	160	131	115	111	266
Haveri		144	44	272	290	269	280	228	1,429
Kodagu	38	16	11	18	15	14	11	8	22
Kolar	32	50	23	320	108	90	126	303	61
Koppal		168	127	272	281	274	338	389	702
Mandya	26	20	9	60	42	41	34	25	51
Mysore	46	56	62	123	166	169	184	164	139
Raichur	275	116	165	182	231	219	156	120	31
Ramanagara					241	172	92	125	81
Shimoga	207	284	140	581	670	519	465	454	645
Tumkur	347	373	218	969	788	586	610	561	1,070
Udupi		4	1	5	4	3	2	48	224
Uttara Kannada	53	36	39	36	37	46	37	19	100
Yadgir								69	58

* Negligible.

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.3. Service Delivery System - Animal Health

TABLE V.3.3: District-wise Vaccination Performed for Black Quarter by Government of Karnataka

Districts	Black Quarter Vaccination ('000)								
	1997-98	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	1,566	1,482	596	938	928	854	813	547	534
Bagalkot		20	2	14	7	24	3	0*	0
Bangalore Rural	70	35	6	19	7	3	2	2	5
Bangalore Urban	13	17	15	10	7	5	2	2	3
Belgaum	65	170	29	44	74	54	34	3	4
Bellary	142	79	22	46	33	67	61	51	37
Bidar	70	54	11	32	35	38	28	22	27
Bijapur	56	40	8	11	17	12	4	5	4
Chamarajanagar		21	8	9	28	13	15	12	1
Chikkaballapura					6	10	1	5	1
Chikmagalur	84	60	27	39	54	52	51	50	30
Chitradurga	95	52	14	29	15	15	30	17	7
Dakshina Kannada	0	0	-	0	0	0	0	0	0
Davanagere		127	31	79	49	25	14	13	6
Dharwad	136	53	29	79	44	48	57	13	22
Gadag		45	8	23	16	9	13	2	4
Gulbarga	102	174	71	107	113	104	90	39	81
Hassan	212	98	64	125	144	121	108	71	54
Haveri		100	41	50	42	43	41	25	99
Kodagu	16	9	4	8	8	9	8	6	3
Kolar	30	19	16	4	0	1	0*	1	2
Koppal		37	24	13	6	10	9	8	11
Mandya	12	12	3	3	3	4	8	0	0
Mysore	86	67	65	72	90	65	114	83	26
Raichur	133	45	57	23	20	27	13	8	4
Ramanagara					4	1	7	1	0*
Shimoga	112	76	17	65	64	53	48	36	40
Tumkur	124	65	17	29	32	39	48	42	21
Udupi		0	-	0	0	0	0	0	0
Uttara Kannada	9	8	9	7	11	4	6	2	5
Yadgir								28	37

* Negligible.

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.3. Service Delivery System - Animal Health

TABLE V.3.4: District-wise Bovine Vaccination

Districts	Bovine Vaccination ('000)								
	1997-98	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	4,947	7,337	5,309	17,161	18,278	18,403	17,628	27,080	28,601
Bagalkot		215	113	830	998	1,036	1,109	1,342	1,384
Bangalore Rural	123	185	232	529	211	222	159	293	347
Bangalore Urban	33	80	78	347	399	420	389	257	283
Belgaum	263	698	256	1,414	1,591	2,274	1,546	3,291	3,427
Bellary	509	489	376	691	536	751	820	2,185	1,272
Bidar	174	168	171	227	267	451	655	640	657
Bijapur	218	177	90	252	285	392	296	644	692
Chamarajanagar		83	95	329	401	382	381	475	327
Chikkaballapura					549	374	487	423	566
Chikmagalur	229	261	160	707	682	598	577	667	642
Chitradurga	459	496	279	786	850	816	920	1,111	1,270
Dakshina Kannada	31	28	46	205	261	293	287	1,864	565
Davanagere		584	300	898	745	917	799	1,158	994
Dharwad	372	154	115	430	272	327	320	374	642
Gadag		197	57	401	345	383	461	496	682
Gulbarga	226	440	321	606	660	652	572	725	945
Hassan	454	364	294	889	865	903	804	1,329	1,408
Haveri		333	143	578	605	575	596	1,007	2,152
Kodagu	64	59	54	265	168	170	110	108	138
Kolar	112	231	387	883	517	443	520	728	488
Koppal		286	219	426	440	446	620	787	1,242
Mandya	70	162	110	581	1,337	1,007	501	409	585
Mysore	159	201	229	905	809	678	711	934	1,135
Raichur	457	240	331	570	626	714	681	610	571
Ramanagara					496	527	471	445	451
Shimoga	383	495	250	1,336	1,371	969	1,148	1,599	1,814
Tumkur	535	588	404	1,665	1,508	1,214	1,234	1,491	2,016
Udupi		20	81	132	191	192	188	300	607
Uttara Kannada	79	108	120	284	295	286	273	548	656
Yadgir								841	646

NOTE: Bovine vaccination includes BQ, HS and FMD.

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.3. Service Delivery System - Animal Health

TABLE V.3.5: District-wise Bovine Treated

Districts	Bovine Treated ('000)									
	1994-95	1997-98	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	5,956	6,151	1,219	5,937	6,398	6,605	6,995	6,955	6,998	6,806
Bagalkot			12	179	252	253	269	308	403	427
Bangalore Rural	264	308	29	263	211	143	138	151	181	136
Bangalore Urban	211	190	15	142	136	129	163	139	125	89
Belgaum	336	318	34	357	459	480	530	470	486	467
Bellary	190	248	190	200	73	209	217	227	242	241
Bidar	162	188	17	154	181	172	189	197	216	180
Bijapur	322	302	12	171	181	182	206	172	200	196
Chamarajanagar			19	106	116	116	119	114	123	101
Chikkaballapura						193	192	167	179	152
Chikmagalur	316	276	19	199	240	249	258	256	199	199
Chitradurga	411	428	22	217	238	244	246	264	233	223
Dakshina Kannada	198	212	10	118	113	113	113	111	121	113
Davanagere			35	281	347	328	352	351	345	329
Dharwad	548	584	15	208	189	168	174	174	263	266
Gadag			13	150	168	162	163	163	193	153
Gulbarga	41	61	361	400	369	362	370	313	146	199
Hassan	298	300	32	289	288	312	383	402	365	306
Haveri			25	237	294	253	260	268	332	374
Kodagu	88	102	7	95	79	90	92	81	76	68
Kolar	383	411	34	362	398	214	213	257	243	243
Koppal			8	110	132	128	115	132	126	149
Mandya	388	431	32	383	425	382	437	452	454	434
Mysore	410	405	41	269	274	266	269	260	252	253
Raichur	211	231	10	125	144	146	141	153	154	131
Ramanagara						161	164	192	130	98
Shimoga	515	489	64	258	339	366	405	361	301	349
Tumkur	421	474	34	369	391	401	401	406	414	404
Udupi			115	106	118	121	116	115	112	102
Uttara Kannada	243	194	16	192	240	262	302	301	297	280
Yadgir									93	146

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.



V.3. Service Delivery System - Animal Health

TABLE V.3.6: District-wise Bovine Castration

Districts	Bovine Castrated ('000)									
	1994-95	1997-98	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	266.4	244.0	275.5	219.1	223.1	245.6	249.4	237.7	223.8	223.1
Bagalkot			6.1	4.8	5.9	6.8	6.3	6.7	7.8	7.4
Bangalore Rural	17.0	14.7	12.5	12.1	7.5	5.7	8.8	4.8	5.3	4.2
Bangalore Urban	5.9	4.6	3.3	3.2	2.2	2.2	2.3	2.1	1.6	1.2
Belgaum	20.8	14.0	32.2	13.1	15.4	15.5	16.0	15.7	15.8	17.7
Bellary	7.1	8.7	8.0	6.4	6.4	7.1	6.4	5.6	5.9	6.9
Bidar	4.5	3.9	4.3	3.7	4.2	3.9	4.4	4.8	6.0	4.6
Bijapur	12.7	10.9	7.8	8.5	7.4	8.7	9.3	6.9	10.5	10.2
Chamarajanagar			5.9	4.7	5.0	5.8	5.5	5.6	5.7	4.5
Chikkaballapura						9.8	8.0	7.2	6.1	5.1
Chikmagalur	18.7	11.6	12.3	9.0	10.0	10.8	10.0	8.7	6.3	6.8
Chitradurga	22.9	24.7	18.8	16.6	15.9	19.1	18.4	16.2	15.2	13.4
Dakshina Kannada	2.6	3.0	1.7	1.4	0.5	0.4	0.4	0.4	1.1	1.2
Davanagere			9.9	8.8	8.8	9.6	8.8	8.8	7.6	7.4
Dharwad	15.3	13.7	4.2	3.1	3.1	2.6	3.4	2.7	3.9	3.7
Gadag			2.5	2.2	2.6	2.6	2.7	2.9	3.8	2.2
Gulbarga	8.8	9.5	7.9	7.5	9.8	9.3	10.3	11.0	3.8	5.1
Hassan	18.8	19.1	22.5	19.3	18.3	19.1	18.8	17.7	18.3	19.2
Haveri			7.2	5.8	8.3	5.8	6.0	6.5	6.2	7.2
Kodagu	3.1	2.3	1.7	1.8	1.7	2.0	2.0	2.0	2.0	1.4
Kolar	19.5	16.1	18.5	14.1	17.2	10.2	10.6	11.6	10.3	10.4
Koppal			2.9	2.8	2.8	3.3	2.9	3.2	3.4	3.7
Mandya	17.5	14.0	14.8	12.5	13.2	14.1	15.5	17.0	15.4	15.6
Mysore	18.6	17.8	12.3	9.4	9.4	10.5	10.8	11.3	9.2	10.2
Raichur	6.4	6.2	2.7	3.0	4.1	3.7	3.8	4.0	4.1	3.0
Ramanagara						8.2	7.9	7.8	4.7	3.4
Shimoga	12.9	10.7	12.1	5.7	6.2	8.7	7.8	7.5	5.1	7.4
Tumkur	28.6	33.8	35.9	33.8	32.9	35.3	36.5	34.1	29.0	29.3
Udupi			2.3	1.9	1.6	1.6	1.8	1.3	1.0	0.6
Uttara Kannada	4.6	3.3	3.0	3.0	2.8	3.2	3.7	3.6	5.1	4.8
Yadgir									3.5	5.0

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry and Veterinary Services, Govt. of Karnataka.

PART VI : FEED RESOURCES

Karnataka has the second largest arid zone in the country. Out of a net cultivable area of 99 lakh ha in the state, about 34 per cent has assured irrigation and the fodder cultivation is relegated to unproductive land which is dependent on rainfall. The total availability of feed resources in the state is lower than overall requirement.

In case of green fodder, the area under crop is practically negligible in the districts of Bellary, Chikmagalur, Chitradurga, Gadag, Kodagu, Koppal, Raichur, Shimoga. These districts face acute fodder shortage even in normal years.

Dry matter availability from crop residues in the districts of Belgaum, Dakshina Kannada, Hassan, Mandya, Tumkur and Kolar is considerably lower than the requirement due to higher density of dairy animal population in these regions.





VI.1. Feed Resources - Fodder

TABLE VI.1.1: Area under Fodder Crops and Gross Sown Area

Districts	Area Under Fodder Crops ('000 ha)							Gross Sown Area ('000 ha)						
	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12
KARNATAKA	46.6	54.2	35.5	31.3	39.1	35.3	32.9	12,284	11,450	12,893	12,368	12,873	13,062	12,059
Bagalkot	0.5	0.6	0.3	0.3	0.3	0.4	0.3	513	422	600	567	600	609	616
Bangalore Rural	6.2	6.8	4.6	3.6	3.3	3.7	3.3	325	316	134	130	131	131	131
Bangalore Urban	1.5	1.6	0.8	0.6	0.6	0.6	0.7	95	84	61	56	55	52	54
Belgaum	14.9	5.1	4.4	3.8	3.9	3.6	3.9	1,049	893	1,052	1,009	1,109	1,100	1,011
Bellary	0	0	0	0	0	0	0	558	480	602	576	570	582	532
Bidar	0.1	0.1	0.1	0	0.1	0	0.2	452	454	411	400	401	424	416
Bijapur	0.4	0	0.4	0.1	0.2	0.2	0.1	863	788	1,061	850	1,041	1,038	844
Chamarajanagar	0	0	0	0.1	0	0	0	188	184	219	231	225	225	222
Chikkaballapura			0.3	0.2	2.3	1.3	1.3			176	190	174	215	215
Chikmagalur	0	0	0	0	0	0	0	304	293	323	329	330	330	324
Chitradurga	0	0.2	0	0	0	0	0	492	470	485	481	460	524	453
Dakshina Kannada	0.6	0.6	0.5	0.5	0.5	0.5	0.5	161	162	158	158	157	157	158
Davanagere	0	0	0	0	0	0	0	462	395	423	461	478	494	487
Dharwad	2.5	0.9	0.9	1.0	0.8	0.8	0.8	502	473	529	499	553	512	477
Gadag	0	0.2	0	0	0	0	0	497	409	559	458	575	553	495
Gulbarga	0.2	0.1	0.2	0	0	0.2	0.1	1,370	1,408	1,445	1,427	1,435	1,062	973
Hassan	1.1	1.1	0.7	0.8	0.6	0.6	0.9	433	441	441	448	454	505	449
Haveri	0.2	0.1	0	0	0	0.1	0	442	442	430	424	433	422	411
Kodagu	0	0	0	0	0	0	0	149	149	179	178	179	185	186
Kolar	2.6	2.7	1.9	1.7	1.8	2.0	1.4	396	362	179	188	173	203	194
Koppal	0	0	0	0	0	0	0	436	422	508	469	508	500	433
Mandya	2.0	11.1	4.5	3.1	2.0	2.5	2.1	285	247	284	304	289	300	273
Mysore	0	0	0	0	0	0	0.4	466	448	580	524	557	549	536
Raichur	0.1	0.1	0	0	0	0	0	675	629	723	651	680	663	541
Ramanagara			2.5	2.0	2.0	4.0	4.4			164	172	174	176	169
Shimoga	0	0	0	0.1	0.1	0.1	0	252	240	256	256	263	267	268
Tumkur	12.4	22.9	13.2	13.2	20.4	14.6	12.3	661	599	664	684	624	632	576
Udupi	0	0	0	0	0	0	0	131	122	123	123	119	118	118
Uttara kannada	1.2	0.1	0.2	0.1	0.1	0.1	0.1	126	119	125	125	126	124	124
Yadgir						0	0						411	374

Zero means either zero or negligible or not reported.

SOURCE: Directorate of Economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, Govt. of India.



VI.1. Feed Resources - Fodder

TABLE VI.1.2: District-wise Area under Mulberry Cultivation

Districts	Area ('000 ha)									
	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
KARNATAKA	64.5	61.9	69.3	76.2	85.4	70.6	75.1	58	65.6	68.4
Bagalkot	0.2	0.3	0.5	0.6	0.5	0.5	0.3	0.4	0.4	0.3
Bangalore Rural	15.1	15.7	17.9	20.3	5.5	6.2	6.5	4.3	5.0	5.4
Bangalore Urban	1.9	1.6	1.8	1.7	1.6	1.2	1.3	1.0	1.1	1.0
Belgaum	0.4	0.4	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.3
Bellary	0.8	0.8	0.9	1.1	1.1	0.9	0.8	0.7	0.9	0.8
Bidar	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.3	0.3	0.3
Bijapur	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2
Chamarajanagar	8.1	8.3	8.6	8.7	8.0	4.5	4.7	1.6	1.8	1.8
Chikkaballapura					16.8	15.4	17.0	10.3	11.9	12.9
Chikmagalur	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Chitradurga	2.4	1.9	1.9	1.7	1.7	1.2	1.2	1.1	1.2	1.3
Dakshina Kannada	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Davanagere	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.2
Dharwad	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Gadag	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
Gulbarga	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2
Hassan	1.0	1.0	1.0	1.4	1.4	1.1	1.0	0.8	0.8	1.0
Haveri	0.3	0.3	0.5	0.1	0.9	0.8	0.8	0.9	1.0	0.8
Kodagu	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Kolar	25.0	26.7	30.6	35.4	20.1	12.4	13.5	11.9	13.6	14.3
Koppal	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
Mandya	9.3	10.0	11.1	12.9	15.0	15.5	16.4	12.5	13.7	14.1
Mysore	6.7	5.9	6.1	5.7	3.8	3.5	3.1	2.5	2.7	2.6
Raichur	0.2	0.3	0.4	0.5	0.3	0.2	0.2	0.3	0.3	0.3
Ramanagara					8.8	8.9	9.9	9.8	11.5	12.7
Shimoga	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3
Tumkur	6.4	3.0	3.3	3.6	2.5	2.2	2.5	1.9	2.2	2.2
Udupi	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Uttara Kannada	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Yadgir								0.2	0.2	0.3

SOURCE: Department of Sericulture, Govt. of Karnataka.





VI.2. Feed Resources - Availability vs. Requirement

TABLE VI.2.1: District-wise Dry Matter (DM) Availability, Requirement and Balance

Districts	Available/ Required/ Balance	Dry Matter Availability, Requirement and Balance ('000 MT)						
		1997	2003	2007	2008	2009	2010	2011
Bagalkot	Available		1,336	1,412	2,158	1,964	1,309	2,417
	Requirement	1,407	1,361	1,849	1,963	2,088	2,226	2,379
	Balance		-25	-436	196	-124	-917	38
Bangalore Rural	Available	878	385	416	428	433	414	505
	Requirement	2,682	1,470	784	715	661	619	586
	Balance		-1,085	-367	-288	-229	-205	-81
Bangalore Urban	Available	244	133	115	209	182	164	200
	Requirement	717	616	673	664	658	654	654
	Balance		-484	-558	-455	-476	-491	-454
Belgaum	Available	2,731	2,471	3,191	3,517	3,238	2,395	4,414
	Requirement	3,735	4,049	4,737	4,915	5,106	5,311	5,529
	Balance	-1,004	-1,578	-1,546	-1,397	-1,868	-2,916	-1,115
Bellary	Available	1,781	1,350	1,618	2,133	1,888	1,628	2,069
	Requirement	1,679	1,495	1,811	1,863	1,919	1,980	2,045
	Balance	103	-145	-193	270	-31	-352	24
Bidar	Available	737	866	807	929	799	540	1,048
	Requirement	1,195	1,179	1,286	1,304	1,322	1,341	1,362
	Balance	-458	-313	-479	-375	-523	-802	-314
Bijapur	Available	2,652	1,550	1,658	2,273	1,831	1,503	2,399
	Requirement	1,189	1,104	1,389	1,454	1,522	1,594	1,671
	Balance		446	268	820	310	-91	728
Chamarajanagar	Available		636	661	733	787	652	794
	Requirement	878	809	830	837	845	855	867
	Balance		-173	-169	-104	-58	-203	-73
Chikkaballapura	Available			197	584	768	649	936
	Requirement			1,041	1,042	1,044	1,045	1,047
	Balance			-845	-458	-275	-396	-111
Chikmagalur	Available	784	651	712	760	769	797	828
	Requirement	1,221	1,150	1,249	1,270	1,294	1,321	1,351
	Balance	-437	-499	-538	-511	-525	-524	-523
Chitradurga	Available	2,202	1,135	1,033	1,485	954	1,182	1,329
	Requirement	1,385	1,403	1,651	1,697	1,746	1,799	1,855
	Balance		-267	-618	-213	-792	-617	-526
Dakshina Kannada	Available	682	341	350	334	342	329	347
	Requirement	982	926	1,084	1,127	1,175	1,229	1,290
	Balance		-585	-734	-793	-833	-900	-943
Davanagere	Available		1,444	2,079	2,379	2,192	2,459	2,703
	Requirement	1,638	1,566	1,834	1,889	1,949	2,013	2,083
	Balance		-122	245	490	244	446	620
Dharwad	Available	2,548	558	985	921	911	922	933
	Requirement	821	764	882	906	932	959	989
	Balance		-206	103	15	-21	-38	-56
Gadag	Available		532	752	1,073	794	790	1,068
	Requirement	817	562	714	751	791	834	880
	Balance		-31	38	322	3	-44	188



Districts	Available/ Required/ Balance	Dry Matter Availability, Requirement and Balance ('000 MT)						
		1997	2003	2007	2008	2009	2010	2011
Gulbarga	Available	2,270	2,367	2,304	2,801	2,703	2,276	2,155
	Requirement	2,606	2,626	2,927	2,993	3,062	3,134	3,210
	Balance	-336	-259	-623	-192	-359	-859	-1,055
Hassan	Available	994	847	1,064	1,114	1,072	1,288	1,349
	Requirement	1,998	1,949	2,283	2,366	2,458	2,562	2,677
	Balance	-1,004	-1,101	-1,219	-1,252	-1,387	-1,274	-1,328
Haveri	Available		1,018	1,496	1,533	1,405	1,185	1,933
	Requirement	1,209	1,103	1,185	1,206	1,231	1,258	1,288
	Balance		-85	311	326	175	-72	645
Kodagu	Available	292	284	310	325	321	321	324
	Requirement	430	358	359	364	369	376	384
	Balance	-138	-74	-49	-38	-48	-55	-60
Kolar	Available		344	508	370	404	343	493
	Requirement	2,107	1,986	1,185	1,078	987	910	846
	Balance		-1,643	-677	-708	-583	-567	-353
Koppal	Available		737	819	1,326	1,128	991	1,437
	Requirement	944	906	1,094	1,128	1,166	1,208	1,255
	Balance		-169	-275	198	-38	-217	182
Mandya	Available	1,059	741	724	1,031	1,011	791	1,115
	Requirement	1,535	1,518	1,715	1,757	1,804	1,856	1,913
	Balance	-476	-777	-991	-726	-793	-1,064	-798
Mysore	Available	1,942	1,101	1,542	1,646	1,498	1,517	1,533
	Requirement	1,610	1,530	1,893	1,961	2,035	2,116	2,204
	Balance		-429	-351	-315	-537	-599	-671
Raichur	Available	1,918	1,242	1,397	1,724	1,658	1,558	1,423
	Requirement	1,434	1,469	1,721	1,772	1,825	1,881	1,940
	Balance		-228	-324	-48	-166	-322	-517
Ramanagara	Available				565	483	495	570
	Requirement			965	966	967	968	969
	Balance				-401	-483	-473	-399
Shimoga	Available	1,783	1,088	1,405	1,258	1,450	1,396	1,684
	Requirement	1,909	1,779	1,925	1,954	1,986	2,022	2,062
	Balance	-126	-691	-520	-695	-536	-626	-378
Tumkur	Available	1,261	1,078	944	1,798	1,334	1,343	1,327
	Requirement	2,372	2,092	2,640	2,784	2,949	3,141	3,362
	Balance	-1,110	-1,014	-1,696	-985	-1,615	-1,798	-2,035
Udupi	Available		320	352	340	329	326	310
	Requirement	1,159	992	878	861	846	833	822
	Balance		-672	-526	-521	-516	-507	-512
Uttara Kannada	Available	616	547	627	649	608	649	650
	Requirement	1,388	1,073	1,172	1,193	1,216	1,239	1,264
	Balance	-772	-525	-545	-544	-608	-590	-614

NOTE: For 1997 availability data of Dry Matter, Dakshina Kannada district includes Udupi, Mysore district includes Chamarajanagar district, Raichur district includes Koppal, Dharwad district includes Haveri, Gadag, Chitradurga district includes Davanagere, Bijapur district includes Bagalkot district.

SOURCE: Feedbase 2012, National Institute of Animal Nutrition and Physiology, Bangalore.



VI.2. Feed Resources - Availability vs. Requirement

TABLE VI.2.2: Availability, Requirement and Surplus/Deficit of Feed Nutrient

Year	Dry Matter ('000 MT)		
	Availability	Requirement	Surplus/Deficit
1997	28,021	41,045	-13,024
2003	25,451	38,150	-12,699
2007	29,632	43,758	-14,126
2008	36,395	44,919	-8,524
2009	33,258	46,152	-12,894
2010	30,212	47,460	-17,249
2011	38,758	48,851	-10,093

SOURCE: Feedbase 2012, National Institute of Animal Nutrition and Physiology, Bangalore.

VI.3. Feed Resources - Consumption

TABLE VI.3.1: Year-wise Feed Consumption – Cattle

(kg/animal/day)

Year	In-Milk Animal			Dry Animal		
	Green Fodder	Dry Fodder	Concentrate	Green Fodder	Dry Fodder	Concentrate
2000-01	4.712	6.045	1.344	3.298	4.232	0.941
2003-04	5.677	6.294	1.399	3.280	4.257	0.823
2007-08	6.120	7.190	2.000	5.490	6.160	1.700
2008-09	6.830	8.790	2.210	2.920	7.770	0.870
2009-10	8.280	8.520	2.440	5.390	5.070	0.730
2010-11	8.780	7.580	2.675	5.735	5.895	0.930
2011-12	8.970	8.020	2.785	7.380	5.605	1.150
2012-13*	7.760	6.695	2.180			

* Fed to adult animals

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka, Bangalore.

TABLE VI.3.2: Year-wise Feed Consumption – Buffalo

(kg/animal/day)

Year	In-Milk Animal			Dry Animal		
	Green Fodder	Dry Fodder	Concentrate	Green Fodder	Dry Fodder	Concentrate
2000-01	5.873	6.113	1.524	3.487	5.811	1.042
2003-04	6.475	5.880	1.370	3.464	5.713	0.992
2007-08	5.580	5.550	1.680	6.200	6.320	1.370
2008-09	8.440	9.720	1.990	3.420	8.720	1.240
2009-10	6.480	7.700	1.260	5.860	5.010	0.680
2010-11	9.550	8.100	1.400	5.570	7.430	0.800
2011-12	9.190	8.820	1.650	6.950	8.210	0.710
2012-13*	7.630	8.230	0.970			

* Fed to adult animals

SOURCE: Integrated Sample Survey Reports, Directorate of Animal Husbandry & Veterinary Services, Government of Karnataka, Bangalore.



PART VII : AGRICULTURE

Karnataka has long coastline, perennial rivers and varying agro-climatic zones. The climate endowment supports cultivation of cash crops like coffee, coconut, mango, spices, commercial flowers, aromatic plants, cotton, sugarcane, oilseeds, grapes, pomegranate, sapota, etc and helps/assists 65 per cent of the population of Karnataka to engage in farming activities.

However, the share of agriculture in the state GDP is around 15 per cent and performance of the sector is volatile due to a significant area being under arid zone. In order to accelerate growth of agriculture and allied sector, the government of Karnataka has put in place an 'Integrated Agribusiness Development Policy - 2011' linking production with market. Since 2011-12, Karnataka is the first state having a separate agriculture budget. In 2013, the government also envisaged an 'Agricultural Prices Commission' to fix suitable prices for commodities. During mid-2014, the State Level Bankers Committee (SLBC) was directed to enhance credit flow to farmers willing to invest in high technology for agriculture. The University of Agricultural Sciences (UAS, Bangalore) was bifurcated into two agricultural universities to facilitate localised research as per agro-climates zones. Thus, all efforts are being made towards sustainable agriculture in Karnataka.





VII.1. Agro-Climatic Zones

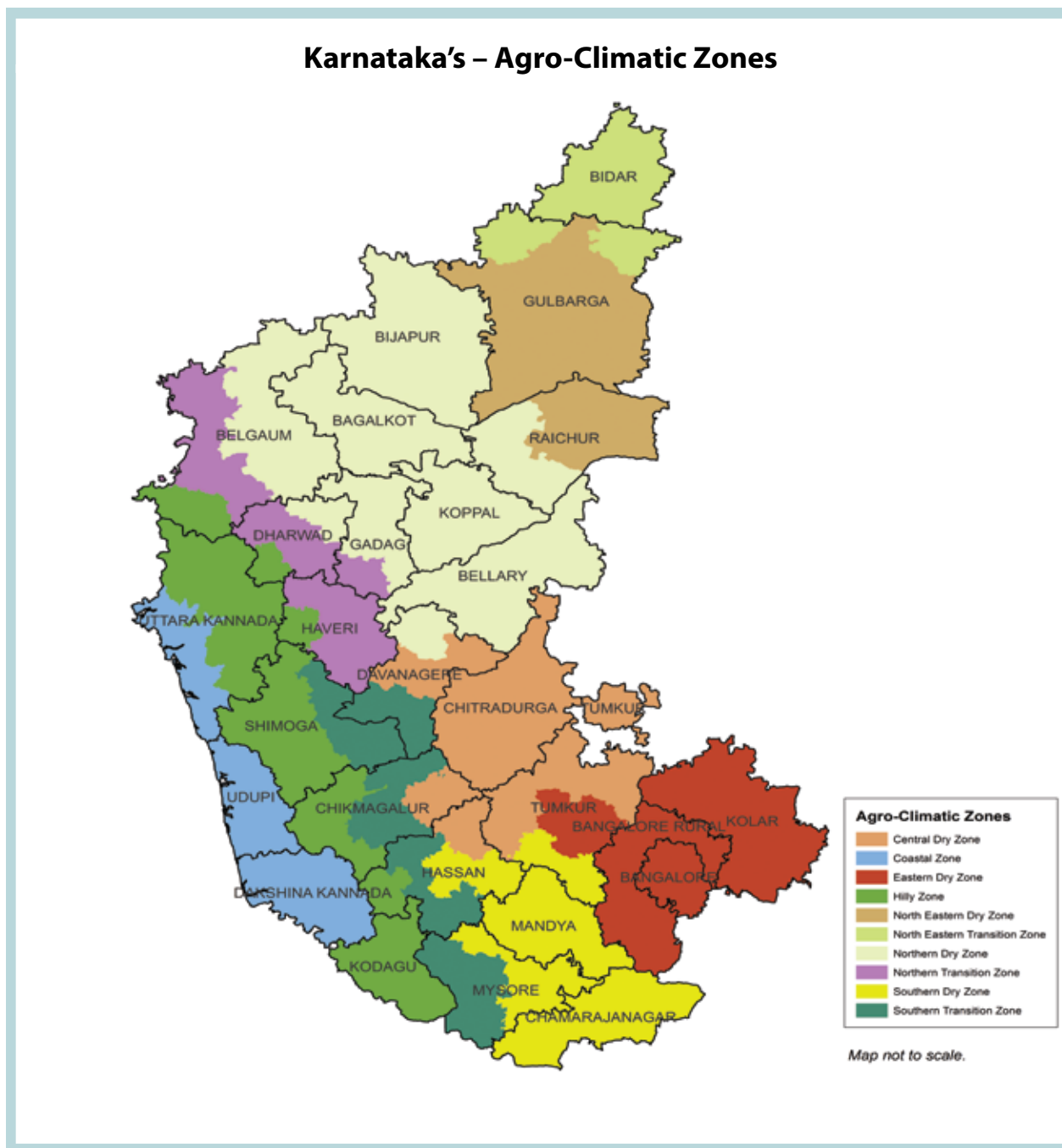


TABLE VII.1.1: Karnataka's Agro-Climatic Zones

North Eastern Transition Zone	North Eastern Dry Zone	Northern Dry Zone	Central Dry Zone
Eastern Dry Zone	Southern Dry Zone	Southern Transition Zone	Northern Transition Zone
Hill Zone	Coastal Zone		

SOURCE: Karnataka State Department of Agriculture (KSDA), Govt of Karnataka.



VII.1. Agro-Climatic Zones

TABLE VII.1.2: Details of Agro-Climatic Zones

Parameters	North Eastern Transition	North Eastern Dry Zone	Northern Dry Zone	Central Dry Zone	Eastern Dry Zone
Districts (No. of Talukas)	Bidar (5) Gulbarga (2)	Gulbarga (5) Yadgir (3) Raichur (3)	Koppal (4), Gadag (4), Dharwad (1), Belgaum (5), Bijapur (5), Bagalkot (6), Bellary (7), Davanagere (1), Raichur (2)	Chitradurga (6), Davanagere (3), Tumkur (6), Chikmagalur (1), Hassan (1)	Bangalore Rural (4), Ramanagara (4) Bangalore Urban (3), Kolar (5), Chikkaballapura (6) Tumkur (2)
Geographical Area ('000 ha)	871	1,763	4,784	1,944	1,808
Gross Cropped Area ('000 ha)	762	1,488	4,041	1,293	962
Irrigated Area (%)	7	17	28	19	23
Rainfall (mm)	829 to 919	633 to 806	464 to 785	455 to 717	679 to 888
Soil	Shallow to medium black clay soils in major areas. Red lateritic soils in remaining areas.	Deep to very deep black clay soils in major areas. Shallow to medium black soils in minor pockets.	Black clay medium and deep in major areas, sandy loams in remaining areas.	Red Sandy loams in major areas, shallow to deep black soil in remaining areas.	Red loamy soils in major areas, clay lateritic soils in remaining areas.
Crops	Jowar, Gram, Tur, Other Pulses, Small Millets, Bajra, Groundnut & Other Oilseed, Cotton, Paddy.	Jowar, Gram, Tur, Other Pulses, Small Millets, Bajra, Groundnut, & Other Oilseed, Cotton, Paddy, Chilli.	Oilseeds like Sunflower, Groundnut, Jowar, Gram, Tur, Other Pulses, Small Millets, Bajra, Cotton, Paddy, Wheat, Ragi, Sugarcane.	Jowar, Gram, Tur, Other Pulses, Small Millets, Bajra, Groundnut, & other Oilseed, Cotton, Paddy, Wheat, Ragi, Sugarcane, Maize, Plantation Crops.	Pulses, Ragi, Bajra, Groundnut, Paddy, Maize, Soybean, Mulberry, & Horticultural Crops.

SOURCE: Karnataka State Department of Agriculture (KSDA), Govt. of Karnataka (<http://raitamitra.kar.nic.in/agriprofile/zonedet.htm>, <http://raitamitra.kar.nic.in/stat/kacz.htm> accessed on 01st September, 2014).



VII.1. Agro-Climatic Zones

TABLE VII.1.2: Details of Agro-Climatic Zones

Parameters	Southern Dry Zone	Southern Transition Zone	Northern Transition Zone	Hilly Zone	Coastal Zone
Districts (No. of Talukas)	Mysore (4), Chamarajanagar(4), Mandya (7), Tumkur (2), Hassan (2)	Hassan (4), Chikmagalur (1), Shimoga (3), Mysore (3), Davanagere (2)	Belgaum (4), Dharwad (3), Haveri (6), Gadag (1)	Uttara Kannada (6), Belgaum (1), Dharwad (1), Haveri (1), Shimoga (4), Chikmagalur (5), Kodagu (3), Hassan (1)	Udupi (3), Dakshina Kannada (5), Uttara kannada (5)
Geographical Area ('000 ha)	1,739	1,218	1,195	2,561	1,167
Gross Cropped Area ('000 ha)	954	729	1,115	673	336
Irrigated Area (%)	34	31	14	20	34
Rainfall (mm)	670 to 888	611 to 1,053	618 to 1,303	904 to 3,695	3,010 to 4,694
Soil	Red sandy loams in major areas and black soils in remaining areas.	Red sandy loams in major areas and in remaining areas red loamy soils.	Shallow to medium black clay soils and red sandy loamy soils in equal proportion.	Red clay loamy soils in major areas.	Red lateritic and coastal alluvial.
Crops	Ragi, Jowar, Pulses, Small Millets, Maize, Bajra, Groundnut, & Other Oilseed, Ragi, Sugarcane, Cotton, Plantation Crops.	Jowar, Pulses, Groundnut, Cotton, Paddy, Ragi, Sugarcane, Maize, Plantain Crops.	Jowar, Pulses, Groundnut, Cotton, Paddy, Ragi, Sugarcane, Small Millets, Wheat, Horticultural Crops.	Rice, Pulses, Ragi, Sorghum.	Rice, Pulses, Groundnut.

SOURCE: Karnataka State Department of Agriculture (KSDA), Govt. of Karnataka (<http://raitamitra.kar.nic.in/agriprofile/zonedet.htm>, <http://raitamitra.kar.nic.in/stat/kacz.htm> accessed on 01st September, 2014).



VII.2. Land Use Pattern

TABLE VII.2.1: District-wise Land Use Pattern

(‘000 ha)

Districts	Reporting Area		Forest Area		Permanent Pasture and Grazing Land		Fallow land		Net Sown Area	
	2000-01	2011-12	2000-01	2011-12	2000-01	2011-12	2000-01	2011-12	2000-01	2011-12
KARNATAKA	19,050	19,050	3,068	3,072	959	908	1,776	2,210	10,410	9,941
Bagalkot	659	659	81	81	3	3	71	41	448	478
Bangalore Rural	585	230	81	11	31	4	53	21	299	126
Bangalore Urban	217	217	3	5	6	6	19	23	86	51
Belgaum	1,344	1,344	190	190	25	25	124	234	878	767
Bellary	813	813	97	97	5	5	73	104	487	414
Bidar	542	542	26	28	14	14	55	78	373	351
Bijapur	1,053	1,053	2	2	10	10	226	221	749	749
Chamarajanagar	570	570	276	276	23	23	53	29	160	184
Chikkaballapura		405		50		56		16		205
Chikmagalur	722	722	200	200	98	89	27	28	283	293
Chitradurga	771	771	74	74	89	89	88	112	411	387
Dakshina Kannada	477	477	128	128	19	19	13	12	134	131
Davanagere	598	598	90	90	20	20	27	26	387	389
Dharwad	427	427	35	35	4	4	29	70	331	289
Gadag	466	466	33	33	3	3	16	54	391	353
Gulbarga	1,610	1,094	69	35	37	26	208	53	1,151	896
Hassan	663	663	58	59	33	33	60	81	379	359
Haveri	485	485	47	47	12	12	30	18	353	363
Kodagu	411	411	135	135	18	14	13	8	147	170
Kolar	779	375	70	21	99	39	85	44	363	183
Koppal	552	552	29	29	15	15	93	100	357	350
Mandya	498	498	25	25	38	32	60	81	247	232
Mysore	676	676	63	63	56	47	30	74	387	345
Raichur	836	836	18	18	20	20	155	275	578	458
Ramanagara		356		70		25		41		164
Shimoga	848	848	277	277	166	163	42	34	217	228
Tumkur	1,065	1,065	45	45	86	76	97	197	603	510
Udupi	356	356	100	100	11	11	14	9	101	100
Uttara Kannada	1,025	1,025	815	814	20	17	15	20	112	112
Yadgir		516		34		12		106		304

SOURCE: Directorate of Economics and Statistics, Ministry of Agriculture, Govt. of India.



VII.3. Area and Production

TABLE VII.3.1: District-wise Area and Production of Cereals and Pulses

Districts	Cereals						Pulses					
	Area ('000 ha)			Production ('000 MT)			Area ('000 ha)			Production ('000 MT)		
	*2004-09	2010-11	2011-12	*2004-09	2010-11	2011-12	*2004-09	2010-11	2011-12	*2004-09	2010-11	2011-12
KARNATAKA	5,404	5,372	5,091	9,998	12,257	10,695	2,175	2,774	2,300	965	1,533	1,030
Bagalkot	262	253	253	446	534	476	77	144	130	28	66	45
Bangalore Rural	57	56	59	164	175	173	8	8	7	6	9	6
Bangalore Urban	34	27	27	82	71	79	5	4	4	4	3	4
Belgaum	491	449	428	793	946	864	105	108	85	37	55	35
Bellary	281	299	283	689	843	727	49	88	75	25	51	40
Bidar	110	99	97	115	109	129	214	208	172	85	122	83
Bijapur	413	396	355	410	511	466	192	382	242	83	221	76
Chamarajanagar	91	91	89	179	197	170	40	44	31	17	26	21
Chikkaballpura	71	95	104	156	250	254	13	19	14	8	16	9
Chikmagalur	116	122	116	219	275	240	24	26	23	11	17	11
Chitradurga	166	192	177	259	440	246	42	51	54	22	37	22
Dakshina Kannada	57	55	55	136	130	138	3	3	3	1	1	1
Davanagere	341	354	356	986	1,259	1,079	15	16	16	9	12	11
Dharwad	156	159	158	197	248	181	90	88	90	38	52	35
Gadag	149	147	154	199	218	185	137	153	128	34	53	29
Gulbarga	276	262	256	276	240	258	540	684	593	284	390	314
Hassan	185	205	188	379	595	439	38	62	54	14	31	24
Haveri	239	227	220	479	651	605	28	17	13	9	8	6
Kodagu	39	39	38	102	106	103	1	0	0	0	0	0
Kolar	66	68	66	100	131	132	17	21	20	8	24	31
Koppal	240	266	231	402	603	518	64	86	73	19	43	15
Mandya	151	159	135	395	470	387	45	39	36	17	23	19
Mysore	238	220	209	609	612	580	122	114	113	50	61	59
Raichur	335	346	278	575	741	564	74	179	116	31	69	39
Ramanagara	84	84	81	165	195	195	19	19	17	12	14	17
Shimoga	192	178	193	503	652	655	3	3	3	1	1	1
Tumkur	236	209	206	398	466	367	65	55	57	36	34	28
Udupi	62	56	55	149	142	140	8	5	5	4	2	3
Uttara Kannada	84	81	80	160	170	164	2	2	2	1	1	1
Yadgir	184	179	140	276	278	180	135	144	123	71	88	44

* Average from 2004-05 to 2008-09. Zero denotes either nil or negligible.

SOURCE: Directorate of Economics and Statistics, Govt. of Karnataka.



VII.3. Area and Production

TABLE VII.3.2: District-wise Area under Production of Food Grains and Oilseeds

Districts	Food Grains						Oilseeds					
	Area ('000 ha)			Production ('000 MT)			Area ('000 ha)			Production ('000 MT)		
	*2004-09	2010-11	2011-12	*2004-09	2010-11	2011-12	*2004-09	2010-11	2011-12	*2004-09	2010-11	2011-12
KARNATAKA	7,548	8,146	7,391	10,963	13,790	11,725	2,469	1,615	1,413	1,273	1,093	884
Bagalkot	339	397	383	474	600	521	144	68	86	86	61	60
Bangalore Rural	65	64	66	170	184	179	4	2	2	2	1	1
Bangalore Urban	39	31	31	86	74	83	2	1	1	1	1	1
Belgaum	596	557	513	830	1,001	899	201	153	139	125	125	126
Bellary	330	387	358	714	894	767	181	117	90	76	51	46
Bidar	324	307	269	200	231	212	63	74	103	43	67	104
Bijapur	605	778	597	493	732	542	325	139	115	115	63	34
Chamarajanagar	131	135	120	196	223	191	33	30	32	22	15	16
Chikkaballpura	84	114	118	164	266	263	45	39	32	33	39	20
Chikmagalur	140	148	139	230	292	251	28	18	15	18	14	9
Chitradurga	208	243	231	281	477	268	207	176	111	121	96	53
Dakshina Kannada	60	58	58	137	131	139	1	1	1	0	0	0
Davanagere	356	370	372	995	1,271	1,090	40	23	23	28	28	22
Dharwad	246	247	248	235	300	216	85	83	80	53	88	58
Gadag	286	300	282	233	271	214	152	110	92	63	72	54
Gulbarga	816	946	849	560	630	572	114	66	58	54	27	31
Hassan	223	267	242	393	626	463	26	19	12	15	15	8
Haveri	267	244	233	488	659	611	45	34	30	30	35	30
Kodagu	40	39	38	102	106	103	0	1	0	0	0	0
Kolar	83	89	86	108	155	163	11	12	11	8	11	15
Koppal	304	352	304	421	646	533	158	103	88	64	72	56
Mandya	196	198	171	412	493	406	13	11	10	10	8	6
Mysore	360	334	322	659	673	639	28	22	20	19	18	12
Raichur	409	525	394	606	810	603	254	105	102	109	65	48
Ramanagara	103	103	98	177	209	212	15	14	12	14	9	11
Shimoga	195	181	196	504	653	656	5	2	2	7	3	3
Tumkur	301	264	263	434	500	395	170	138	98	94	75	28
Udupi	70	61	60	153	144	143	2	2	2	4	4	5
Uttara Kannada	86	83	82	161	171	165	4	3	3	5	5	4
Yadgir	319	323	263	347	366	224	114	49	43	54	28	19

* Average from 2004-05 to 2008-09. Zero denotes either nil or negligible.

SOURCE: Directorate of Economics and Statistics, Govt. of Karnataka.



VII.3. Area and Production

TABLE VII.3.3: District-wise Area and Production of Sugarcane and Cotton

Districts	Sugarcane						Cotton					
	Area ('000 ha)			Production ('000 MT)			Area ('000 ha)			Production ('000 bales)		
	*2004-09	2010-11	2011-12	*2004-09	2010-11	2011-12	*2004-09	2010-11	2011-12	*2004-09	2010-11	2011-12
KARNATAKA	251.2	422.7	431.4	21,370	39,658	39,470	424.6	547.6	569.7	678.0	1,217.9	1,202.6
Bagalkot	46.1	79.9	89.4	4,238	7,669	8,065	4.2	2.4	1.8	7.4	4.4	3.4
Bangalore Rural	0.1	0	0	5	0	0	0	0	0	0	0	0
Bangalore Urban	0	0	0	0.7	0	0	0	0	0	0	0	0
Belgaum	95.2	182.4	171.2	7,762	16,808	16,265	27.1	38.3	38.0	49.1	100.9	85.6
Bellary	2.6	1.4	3.8	249	136	318	26.9	44.9	42.4	50.3	123.0	88.0
Bidar	24.9	31.3	25.5	1,646	2,200	1,745	1.5	0.8	0.6	1.4	0.9	1.3
Bijapur	18.3	41.4	44.2	1,155	3,498	3,234	3.3	10.5	11.8	8.4	28.0	30.0
Chamarajanagar	7.6	6.4	8.5	716	677	1,068	5.0	2.6	6.6	1.9	2.2	10.4
Chikkaballpura	0	0	0.2	10	25	18	0	0.2	0.2	0	0.5	0.5
Chikmagalur	1.5	0.8	0.9	125	64	69	1.9	0.9	1.0	2.2	1.9	1.2
Chitradurga	0	0	0	3	4	1	10.9	16.1	20.4	19.2	25.9	37.6
Dakshina Kannada	0	0	0	2	2	2	0	0	0	0	0	0
Davanagere	4.1	3.7	5.3	465	492	702	6.5	23.8	23.4	13.1	45.7	59.7
Dharwad	2.0	4.5	3.5	134	250	207	76.3	88.3	69.0	87.4	159.7	106.8
Gadag	0.1	0.9	4.3	8	80	393	49.0	73.4	59.7	50.3	124.6	60.2
Gulbarga	6.9	10.9	15.1	376	631	616	9.4	13.8	26.5	32.6	41.0	107.2
Hassan	3.8	3.6	2.1	386	373	213	1.6	0.1	0	1.5	0.3	0.2
Haveri	1.5	1.5	3.4	106	167	281	74.1	104.7	106.1	138.4	302.9	305.9
Kodagu	0	0	0	0	0	0	0	0	0	0	0	0
Kolar	0.2	0	0	11	0	6	0	0	0	0	0	0
Koppal	0.1	0.2	1.2	7	18	112	13.6	21.4	11.1	10.6	33.5	13.7
Mandya	18.6	31.1	31.0	2,039	4,138	4,089	0	0	0	0	0	0
Mysore	8.0	12.3	11.5	1,011	1,379	1,191	54.1	39.2	44.3	58.3	61.7	100.1
Raichur	0	0.1	0	2	13	0	23.8	27.4	38.5	49.3	58.1	69.3
Ramanagara	0.9	0.9	0.9	88	98	74	0	0	0	0	0	0
Shimoga	6.0	5.9	4.2	601	617	443	6.1	1.5	1.5	12.0	3.2	4.8
Tumkur	1.2	1.7	2.1	105	161	179	0.8	1.0	1.4	2.2	3.3	4.0
Udupi	0	0	0	1	6	5	0	0	0	0	0	0
Uttara Kannada	1.2	1.3	2.7	99	139	151	6.6	3.0	3.2	6.4	8.3	3.3
Yadgir	0.1	0	0.3	20	13	25	22.0	33.3	61.9	76.0	87.9	109.2

* Average from 2004-05 to 2008-09, 1 bale = 170 kg. Zero denotes either nil or negligible.

SOURCE: Directorate of Economics and Statistics, Govt. of Karnataka.



VII.4. Land Holding and Water Resources

TABLE VII.4.1: Operational Holdings in Karnataka

Size of Holding (ha)	Total Holdings		Average Size of Holding (ha)
	Number ('000)	Area ('000 ha)	
Marginal	3,849	1,851	0.48
Small	2,138	3,020	1.41
Semi-medium	1,267	3,393	2.68
Medium	511	2,904	5.68
Large	68	994	14.62
All Classes	7,832	12,161	1.55

SOURCE: Agricultural Census Database, 2010-11, Ministry of Agriculture, Govt. of India.

TABLE VII.4.2: Net Irrigated Area under Different Sources of Irrigation

(‘000 ha)

Particulars	1997-98	2000-01	2003-04	2005-06	2007-08	2008-09	2010-11
Gross Sown Area	11,695	12,284	11,450	13,027	12,893	12,368	12,059
Net Sown Area	10,075	10,410	9,847	10,509	10,419	10,174	9,941
Net Irrigated Area	2,363	2,643	2,384	2,970	3,132	3,238	3,440
Sources (net irrigated area) ('000 ha)							
Canals	903	966	743	1,055	991	1,061	1,178
Tanks	240	261	147	190	208	206	178
Wells and Tube Wells	861	1,018	1,165	1,351	1,513	1,546	1,701
Other Sources	359	397	328	374	420	424	383

SOURCE: Directorate of Economics and Statistics, Ministry of Agriculture, Govt. of India.

TABLE VII.4.3: Major River Basins of Karnataka

Rivers	Origin	Length (km)	Catchment Area (sq km)	States Falling in the Catchment Area
Krishna	Mahabaleshwar (Maharashtra)	1,401	258,948	Maharashtra, Andhra Pradesh and Karnataka
Pennar	Kolar (Karnataka)	597	55,213	Andhra Pradesh and Karnataka
Cauvery	Coorg (Karnataka)	800	81,155	Tamil Nadu, Karnataka, Kerala and Pondicherry

SOURCE: Hydrology and Water Resources Information System for India, National Institute of Hydrology, Roorkee.





VII.4. Land Holding and Water Resources

TABLE VII.4.4: Medium River Basins of Karnataka – West-Flowing Rivers with Catchment Area

Name of River	Village/District (<i>origin</i>)	Length (km)	Catchment Area (sq km)
West Flowing Rivers			
Mandvi	Belgaum	87	2,032
Kalinadi	Belgaum	153	5,179
Gangavati or Bedti (in upper reaches)	Dharwad	152	3,902
Sharavati	Shimoga	122	2,209
Netravati	Dakshina Kannada	103	3,657
East Flowing Rivers			
Palar (including tributary Cheyyar)	Kolar	348	17,871
Ponnaiyar	Kolar	396	14,130

SOURCE: Hydrology and Water Resources Information System for India, National Institute of Hydrology, Roorkee.





VII.5. Rainfall

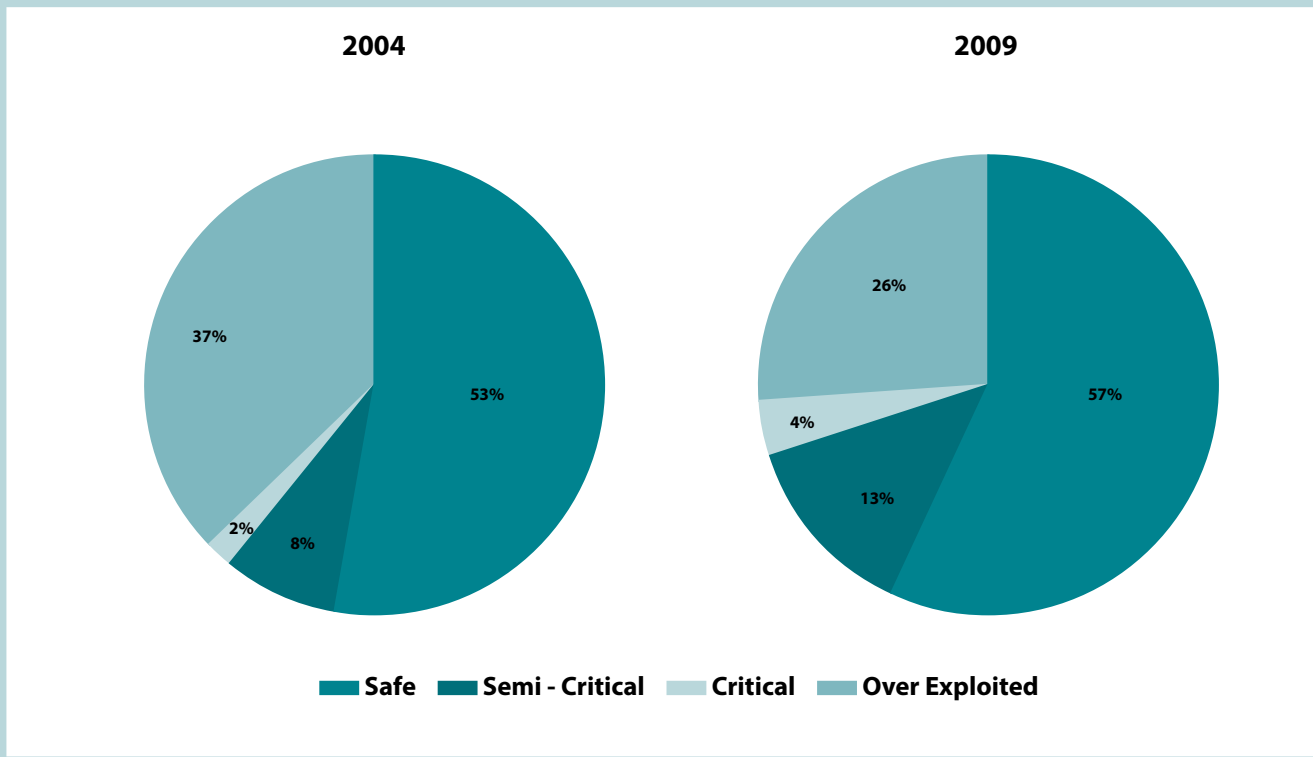
TABLE VII.5.1: District- wise Average Annual Rainfall

Districts	Average Annual Rainfall (mm)		
	2004-2010	2011-12	2012-13
KARNATAKA	1,460	1,375	1,094
Bagalkot	608	516	372
Bangalore Rural	785	721	487
Bangalore Urban	892	954	533
Belgaum	1,191	1,153	734
Bellary	584	380	418
Bidar	812	719	727
Bijapur	572	356	440
Chamarajanagar	847	698	438
Chikkaballapura	833	674	602
Chikmagalur	2,056	1,772	1,542
Chitradurga	697	363	528
Dakshina Kannada	4,028	4,293	3,392
Davanagere	781	535	542
Dharwad	805	744	526
Gadag	651	397	403
Gulbarga	701	593	594
Hassan	1,726	1,516	1,141
Haveri	855	772	550
Kodagu	2,999	3,077	2,001
Kolar	759	643	743
Koppal	623	417	392
Mandya	761	664	446
Mysore	777	782	491
Raichur	605	358	447
Ramanagara	806	745	353
Shimoga	2,907	2,869	2,359
Tumkur	701	549	473
Udupi	4,695	5,113	4,265
Uttara Kannada	3,014	3,237	2,528
Yadgir	830	545	545

SOURCE: Directorate of Economics and Statistics, Govt. of Karnataka.

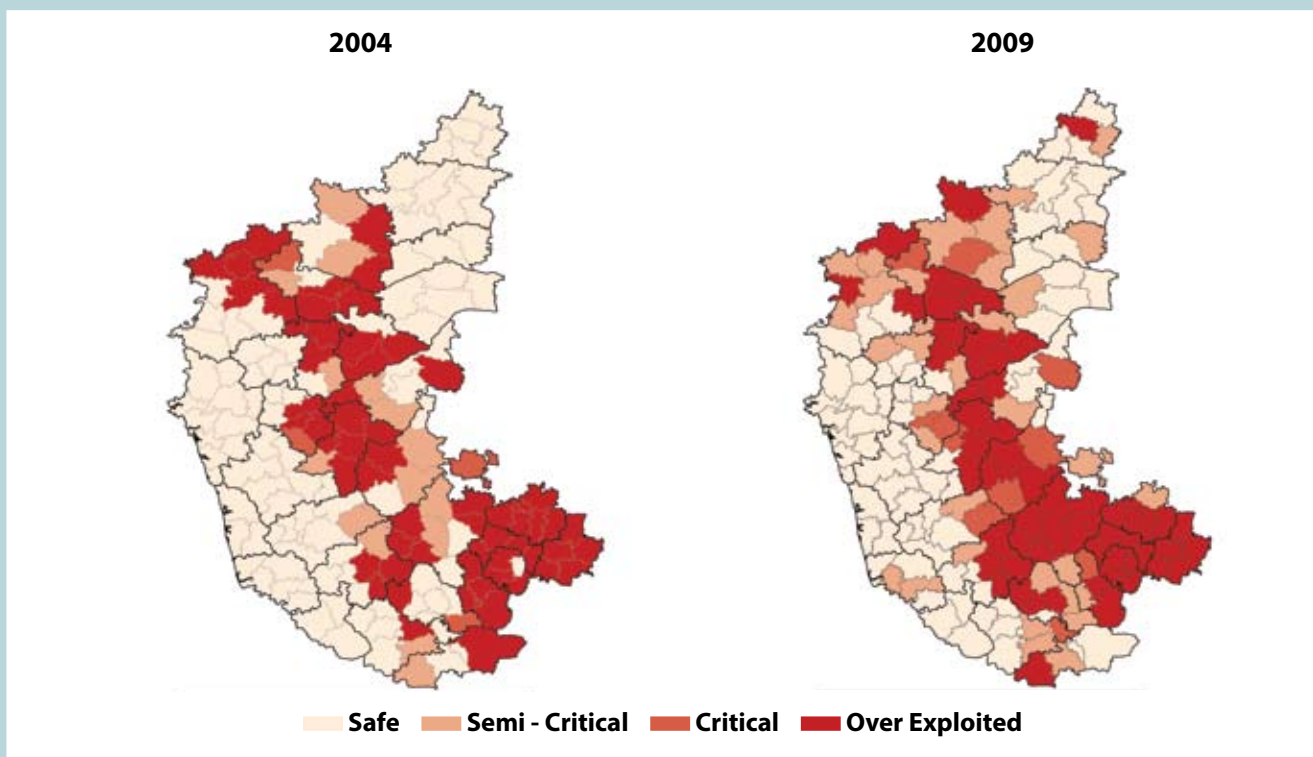


Status of Ground Water (% of Talukas)



Note: Assessment unit in 2004 was Talukas (Sub Districts) and in 2009 it was Talukas (Sub-Districts) but on Command and Non Command watersheds.

Taluka-wise Groundwater Status





VII.6. Ground Water Status

TABLE VII.6.1: Distribution of Talukas According to Ground Water Status

Districts	Number of Talukas (Sub-Districts) under					
	Semi Critical		Critical		Over-Exploited	
	2004	2009	2004	2009	2004	2009
Bagalkot		1		1	5	5
Bangalore Rural					8	4
Bangalore Urban					3	4
Belgaum		4			7	8
Bellary	2	1		1	2	2
Bidar		1		1		1
Bijapur	2	3			2	1
Chamarajanagar	1	1			1	1
Chikkaballapura		1				5
Chikmagalur	1	1		1		
Chitradurga	2			2	2	3
Dakshina Kannada		2				
Davanagere	1			1	5	4
Dharwad		2				
Gadag	1	2			3	2
Gulbarga		1				
Hassan	1	1			3	4
Haveri		2	1	2	3	
Kolar					11	5
Koppal		1			3	3
Mandya		3	1		1	3
Mysore	1	2		1	1	
Raichur		1				
Ramanagara		1		1		3
Tumkur	2	2	1		5	7
Yadgir		1				

NOTE: In 2009, out of 270 assessment units, there are six talukas where command and non-command both are falling in over-exploited category. Hence the whole taluka is categorised as Over Exploited without separate mention of command and non-command.

SOURCE: Various Reports of Dynamics of Ground Water Resources, Central Ground Water Board, Ministry of Water Resources, Govt. of India.



GLOSSARY

AI	: Artificial Insemination is the process of deliberate introduction of sperm into the female reproductive tract for impregnation.
Bovine	: large ruminants like cattle, buffaloes, yak and mithun.
Breedable	: female animals that have attained the age of puberty.
Breeding Tract	: area where breeds/group of animals are found.
Calving Interval	: period between two calvings.
Castration	: technique by which males are made sterile for use in draught operations.
Crossbred	: animal produced by hybridization of two different breeds.
DM	: dry biomass available from feed and fodder.
Dry Animal	: adult animals calved at least once but not in-milk at present.
Food Grains	: cereals and pulses.
GSDP	: basic measure of a State's overall economic performance. It represents the market value of all final goods and services made within the borders of a State in a year.
Indigenous Animals	: animals native to a particular area.
In-milk Animals	: animals which are lactating.
Irrigation Intensity	: $(\text{Gross irrigated area}/\text{Net irrigated area}) * 100$.
Lactation Length	: number of days the animal secretes milk.
Lactation Yield	: total milk production over period of 300/305 days.
Literacy Rate	: percentage of literates in the age group above six years.
Livestock	: domesticated mammals.
Male to Female Ratio	: number of males to females.
Milch Animals	: sum of in-milk and dry animals.
Milk Utilisation Pattern	: quantities of milk retained for home consumption in liquid form, retained for product conversion and milk sold by the milk producers.
Marginal Holdings	: farmers possessing less than one hectare of operational holding.
Small Holdings	: greater than one hectare and less than two hectare of operational holding.
Semi Medium	: greater than two and less than four hectare of operational holding.
Medium Holdings	: are more than four and less than ten hectare of operational holding.
Large Holdings	: are those larger than ten hectare of operational holding.
Population Density	: number of human beings/animals per square km of geographical area.
Poultry	: all categories of chicken, guinea fowls, turkey, ducks and quails.
Sex Ratio	: number of females to 1,000 males in a population.
Small Ruminants	: sum of sheep and goats.
Urbanisation	: per cent of urban population to total population.
Wet to Dry Ratio	: number of in-milk animals to dry ones.



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