



National Dairy
Development
Board

डेरी उद्यमिता



उत्तराखण्ड

सांख्यिकीय संकलन 2018

DAIRYING IN

UTTARAKHAND

A STATISTICAL PROFILE 2018



District Map of Uttarakhand





प्रस्तावना

FOREWORD

इस प्रकाशन "उत्तराखण्ड में डेरी उद्यमिता- सांख्यिकीय संकलन 2018" की मुख्य विशेषताएँ: मानव जनसांख्यिकी प्रवृत्ति, पशुधन संख्या और उत्पादन, उत्पादकता अभिवृद्धि के प्रमुख इनपुट जैसे प्रजनन, स्वास्थ्य तथा पोषण हैं। इस प्रकाशन में जिलों के उपलब्ध श्रृंखलाबद्ध आंकड़ों को सांख्यिकीय सारणी के साथ चयनित मापदंडों पर विषयगत मानचित्रों के साथ शामिल किया गया है।

इस प्रकाशन का उद्देश्य विभिन्न मापदंडों, अंतर्निहित कारणों एवं उनके अंतर-संबंधों को विस्तृत रूप से प्रदर्शित करना है जिसके आधार पर विभिन्न विकास संबंधी कार्यक्रमों को प्रभावी ढंग से नियोजित और क्रियान्वित किया जा सके। हमें आशा है कि यह प्रकाशन बृहद स्तर पर पाठकों, विद्यार्थियों, शोधार्थियों, पशुचिकित्सकों, योजनाकारों, वैज्ञानिकों, प्रशासकों, नीति-निर्माताओं तथा सरकारी एवं गैर सरकारी संस्थाओं के व्यावसायिकों के लिए उपयोगी सिद्ध होगा। इस प्रकाशन का उद्देश्य सर्वाधिक प्रासंगिक सूचना तथा अद्यतन सूचना के साथ संतुलन स्थापित करना है।

जानकारी उपलब्ध कराने के लिए हम सरकारी तथा गैर सरकारी एजेंसियों के आभारी हैं। हालांकि, आंकड़ों को व्यवस्थित तथा सुबोध ढंग से संकलित करते समय विशेष सावधानी बरती गई है, फिर भी कुछ त्रुटियां होने की संभावना से इंकार नहीं किया जा सकता है।

राष्ट्रीय डेयरी विकास बोर्ड (एनडीडीबी) द्वारा विभिन्न राज्यों के लिए प्रकाशित समरूपी प्रकाशनों की श्रृंखला के मध्य "उत्तराखण्ड में डेरी उद्यमिता- सांख्यिकीय संकलन 2018" एक प्रकाशन है।

दिलीप रथ

अध्यक्ष, एनडीडीबी

मार्च 2018

आणंद, गुजरात

In this publication "Dairying in Uttarakhand - A Statistical Profile 2018", the major highlights are: trend in human demographics, livestock population and production; inputs for enhancement of productivity such as breeding, health and nutrition. This publication includes statistical tables and thematic maps on selected parameters along with time series data of districts wherever available.

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 various development interventions. We hope that a wide range of readers, students, researchers, veterinarians, planners, scientists, administrators, policy makers and professionals in government and non-governmental organisations, will find this publication useful. This publication 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 putting together data in a systematic and comprehensible manner, some errors cannot be ruled out.

This publication "Dairying in Uttarakhand - A Statistical Profile 2018" is amongst a series of similar publications for different states being brought out by National Dairy Development Board (NDDB).

Dilip Rath

Chairman, NDDB

March 2018

Anand, Gujarat



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भाग I : सामान्य सांख्यिकी

PART I : GENERAL STATISTICS

भारत के 27वें राज्य के रूप में उत्तराखण्ड राज्य की स्थापना दिनांक 9 नवम्बर 2000 को उत्तर प्रदेश से अलग करके किया गया। उत्तराखण्ड हिमालय की दक्षिणी पर्वत श्रृंखला में लगभग 85 प्रतिशत पहाड़ी भूमि पर बसा हुआ है। जिसमें पाई जाने वाली विभिन्न प्रकार की वनस्पतियां, जीव, जलवायु और कृषि इसे विविधता प्रदान करती है। यहां की परिस्थितिकी तंत्र विभिन्न प्रजाति की जड़ी-बूटियां, पौधे और पशु के अनुकूल हैं। यहाँ पर कुल भूमि का लगभग 63 प्रतिशत वन क्षेत्र है। यहां जिम कार्बेट राष्ट्रीय उद्यान के साथ ही भारत अनेक राष्ट्रीय उद्यान हैं। उत्तराखण्ड के ग्लेशियरों से भारत की दो महत्वपूर्ण नदियां – गंगोत्री से गंगा और यमुनोत्री से यमुना उत्पन्न होती है। इस राज्य में व्यापक तौर पर आड़ू (पीच), लीची, बेर, सेब और संतरे पैदा किए जाते हैं, जिसके अंतर्गत राज्य में खाद्य प्रसंस्करण की क्षमता को वृद्धि प्रदान होती है। यहाँ पर रोमांचक, अवकाशयुक्त और पर्यावरण पर्यटन के लिए अपार संभावनाएं हैं। इसके अलावा, यहां पर अनेक मंदिर और पवित्रधाम हैं जो कि हिंदुओं के प्रमुख तीर्थ स्थल हैं अतः यह भूमि देवताओं की भूमि – देव भूमि के नाम से भी प्रसिद्ध है।

इस राज्य में 13 जिले हैं जिन्हें दो भागों अर्थात् गढ़वाल और कुमाऊं में बांटा गया है। यहां की प्रतिव्यक्ति आय राष्ट्रीय औसत से अधिक है तथा वास्तविक जीएसडीपी में द्विकीय वृद्धि हो रही है।

Uttarakhand was formed on the 9 November 2000 as the 27th State of India, when it was carved out of northern Uttar Pradesh. Uttarakhand lies on the southern slope of Himalayan range and about 85 per cent of land consist of hills. It has widest variation in land elevation which provides diversity in flora and fauna, climate and vegetation. The ecosystem supports many rare species of herbs, plants and animals. About 63 per cent of the total land area is under forest. It hosts many national parks of India including Jim Corbett National Park. Two important rivers of India originate from the glaciers of Uttarakhand – the Ganges at Gangotri and the Yamuna at Yamunotri. Fruits like peaches, litchis, plums, apples, oranges etc. are widely grown in the state which has facilitated growth of food processing industry. It has a vast tourism potential in adventure, leisure, and eco-tourism. In addition, abundance of temples and shrines which are major Hindu pilgrimage destinations and is therefore, also known as “Land of the Gods – DEVBHUMI”.

The State has 13 districts which are grouped into two divisions viz Garhwal and Kumaon. Its per capita income is higher than the national average and real GSDP is growing in double digit.





1.1. उत्तराखण्ड एक झलक में (Uttarakhand at a Glance)

TABLE I.1.1: सामान्य सांख्यिकी: उत्तराखण्ड सापेक्ष भारत (General Statistics: Uttarakhand vs. India)

विवरण Particulars	यूनिट Unit	वर्ष Year	उत्तराखण्ड Uttarakhand	भारत India
राज्य की भौगोलिक स्थिति और आधारभूत ग्रामीण ढांचा State Geography & Rural Infrastructure				
भौगोलिक क्षेत्र Geographical area	'000 sq km	2011	53.5	3,287.3
जिले Districts	Nos	"	13	640
तहसील Talukas	"	"	78	5,924
ग्राम Villages	'000	"	16.8	640.9
परिवार Households	Million	"	2.1	249.5
ग्रामीण परिवार Rural Households				
2001	'000	2001	1,186	137,414
2011	"	2011	1,425	168,565
ग्रामीण परिवार बिजली सुविधा के साथ Rural Households with Electricity				
2001	%	2001	50	44
2011	"	2011	83	55
ग्रामीण परिवार नल पानी की आपूर्ति के साथ Rural Households with Tap water supply				
2001	%	2001	61	24
2011	"	2011	64	31
मानव जनसंख्या Human Population				
जनसंख्या Population	Millions	2011	10.1	1,210.1
शहरी Urban (% to total)	%	"	30.2	31.2
ग्रामीण Rural (% to total)	"	"	69.8	68.8
जनसंख्या घनत्व Density of population	Persons/ sq.km	"	189	382
अनुसूचित जाति Scheduled castes (% to total)	%	"	18.8	16.6
अनुसूचित जनजाति Scheduled tribes (% to total)	"	"	2.9	8.6
लिंग अनुपात Sex ratio	Ratio	"	963	943
साक्षरता दर (0 से 6 आयु वर्ग की जनसंख्या को छोड़कर) Literacy rate (excluding population of 0 to 6 age group)				
पुरुष Male	%	2011	87.4	80.9
महिला Female	%	"	70.0	64.6
शहरी Urban	%	"	84.5	84.1
ग्रामीण Rural	%	"	76.3	67.8
प्रति ब्यक्ति आय (चालू कीमतों पर) Per capita NSDP (at current prices)	₹	2016-17	160,795	103,219
पशुधन संख्या Livestock Population				
गौ-महिषवंशीय पशुसंख्या Bovine population	Million	2012	4.8	512.0
गौ-महिषवंशीय पशुसंख्या Bovine population	"	"	3.0	299.9
देशी गाय Indigenous Cattle	"	"	1.5	151.2
संकर नस्ल गाय Crossbred Cattle	"	"	0.5	39.7
भैंस Buffalo	"	"	1.0	108.7
छोटे जुगाली करने वाले पशु Small ruminants	"	"	1.7	200.2
मुर्गी पालन Poultry	"	"	4.6	729.2
पशुधन संख्या Livestock Population				
गौ-महिषवंशीय पशुसंख्या Bovine population	Million	2007	5.1	529.7
गौ-महिषवंशीय पशुसंख्या Bovine population	"	"	3.5	304.8
देशी गाय Indigenous Cattle	"	"	1.9	166.0
संकर नस्ल गाय Crossbred Cattle	"	"	0.3	33.1
भैंस Buffalo	"	"	1.2	105.3



I.1. उत्तराखण्ड एक झलक में (Uttarakhand at a Glance)

TABLE I.1.1: सामान्य सांख्यिकी: उत्तराखण्ड सापेक्ष भारत (General Statistics: Uttarakhand vs. India)

विवरण Particulars	यूनिट Unit	वर्ष Year	उत्तराखण्ड Uttarakhand	भारत India
छोटे जुगाली करने वाले पशु Small ruminants	"	"	1.6	212.1
मुर्गी पालन Poultry	"	"	2.6	648.9
गाय की प्रमुख नस्लों की संख्या Number of major native cattle breeds	Nos	2017	1	41
भैंस की प्रमुख नस्लों की संख्या Number of major native buffalo breeds	"	"	-	13
दुग्ध उत्पादन Milk Production				
कुल दुग्ध उत्पादन Total Milk production	'000 MT	2016-17	1,692	165,404
संकर नस्ल गाय Crossbred	"	"	609	43,779
देशी गाय Indigenous	"	"	273	34,320
भैंस Buffalo	"	"	759	81,266
बकरी Goats	"	"	51	5,752
प्रति व्यक्ति दुग्ध उपलब्धता Per capita milk availability	Grams/day	"	440	355
अंडा उत्पादन Egg production	Millions	"	412	88,139
मांस उत्पादन Meat production	'000 MT	"	28	7,386
समुद्रीय तथा अंतर्देशीय मछली उत्पादन Marine & inland fish production	"	"	4.1	10,758
ऊन उत्पादन Wool production	'000 Kg	"	538	43,544
पशु चिकित्सा आधारभूत संरचना और सुविधाएं Veterinary Infrastructure & Services				
पशु चिकित्सा संस्थान Veterinary institutes	Nos	2016-17	1,116	65,241
वीर्य उत्पादन केंद्र Semen Production Center	"	"	1	60
कृत्रिम गर्भाधान केंद्र AI centers	"	"	1,648	100,368
कृत्रिम गर्भाधान किए गए AI done	'000 Nos	"	614	70,104
टीकाकरण संपन्न Vaccinations done				
एच एस टीकाकरण H.S. Vaccination	"	2015-16	288	
बी क्यू टीकाकरण B.Q. Vaccinations	"	"	268	
एफ एम डी टीकाकरण FMD Vaccinations	"	"	1,483	
कृषि संसाधन Agricultural Resources				
वन से घिरा हुआ Forest cover	%	2014-15	63.4	23.3
चारागाह तथा चराई भूमि Pasture and Grazing land	'000 Ha	"	192	10,258
कुल प्रतिवेदित क्षेत्रफल के सापेक्ष परती और चराई भूमि अनुपात Pasture & Grazing Land (% to total reporting area)	%	"	3.2	3.3
चारा फसलों का क्षेत्रफल Area under fodder crops	'000 Ha	"	32	9,137
कुल बुवाई क्षेत्रफल के सापेक्ष कुल सिंचित क्षेत्रफल Gross irrigated area (% to Gross Cropped Area)	%	"	49.5	48.6
फसल गहनता Cropping intensity	"	"	157	142
प्रमुख फसलों का उत्पादन Production of major crops				
अनाज Cereals	'000 MT	2015-16	1,694.3	235,218.1
दलहन Pulses	"	"	51.6	16,348.2
तिलहन Oilseeds	"	"	35.6	25,250.8



I.1. उत्तराखण्ड एक झलक में (Uttarakhand at a Glance)

TABLE I.1.1: सामान्य सांख्यिकी: उत्तराखण्ड सापेक्ष भारत (General Statistics: Uttarakhand vs. India)

विवरण Particulars	यूनिट Unit	वर्ष Year	उत्तराखण्ड Uttarakhand	भारत India
कपास Cotton	'000 bales (170 kg Each)	"	-	30,005.0
गन्ना Sugarcane	'000 MT	"	5,885.8	348,448.4
भूजल की स्थिति Ground water status (2013 vs 2011)				
सुरक्षित Safe	% of blocks	2013 & (2011)	89 (61)	69 (69)
अर्ध गंभीर Semi Critical	"	"	6 (28)	10 (11)
गंभीर Critical	"	"	6 (11)	4 (3)
अति दोहता Over exploited	"	"	0(0)	16 (16)
खारापन प्रभावित Salinity Affected	"	"	0(0)	1 (1)

- SOURCE: i) Census 2001 & 2011, Office of the Registrar General and Census Commissioner, Govt. of India, New Delhi.
ii) 18th and 19th Livestock Census, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture and Farmers Welfare, Govt. of India.
iii) Basic Animal Husbandry and Fisheries Statistics, 2017, Department of Animal Husbandry, Dairying and Fisheries, Ministry Of Agriculture & Farmers Welfare, Govt. of India.
iv) Dynamic Ground Water Resources of India as of 2011 and 2013, Central Ground Water Board, Ministry of Water Resources, River Development and Ganga Rejuvenation, Govt. of India.
v) Directorate of Economics and Statistics, Ministry of Agriculture and Farmers Welfare, Govt. of India.
vi) Ministry of Statistics and Programme Implementation, Govt. of India.





1.2. सामाजिक सांख्यिकी: मानव जनसंख्या (Social Statistics: Human Population)

TABLE I.2.1: मानव जनसंख्या निवास और लिंग के अनुसार - 2001 (Human Population by Residence and Sex - 2001)

जिले	Districts	ग्रामीण Rural ('000)			शहरी Urban ('000)			कुल Total ('000)		
		पुरुष Male	महिला Female	कुल Total	पुरुष Male	महिला Female	कुल Total	पुरुष Male	महिला Female	कुल Total
उत्तराखण्ड	UTTARAKHAND	3,144.6	3,165.7	6,310.3	1,181.3	997.7	2,179.1	4,325.9	4,163.4	8,489.3
अल्मोडा	Almora	263.1	312.9	576.1	30.7	23.8	54.5	293.8	336.7	630.6
बागेश्वर	Bageshwar	114.2	127.5	241.7	4.3	3.5	7.8	118.5	131.0	249.5
चमोली	Chamoli	154.2	165.5	319.7	29.5	21.2	50.7	183.7	186.6	370.4
चम्पावत	Champawat	92.8	97.9	190.8	18.3	15.5	33.8	111.1	113.5	224.5
देहरादून	Dehradun	315.3	288.1	603.4	364.3	314.5	678.7	679.6	602.6	1,282.1
हरिद्वार	Haridwar	534.0	466.9	1,000.9	242.0	204.3	446.3	776.0	671.2	1,447.2
नैनीताल	Nainital	257.0	236.9	493.9	143.3	125.8	269.1	400.3	362.7	762.9
पौड़ी गढ़वाल	Pauri Garhwal	281.7	325.5	607.2	49.4	40.5	89.9	331.1	366.0	697.1
पिथौरागढ़	Pithoragarh	194.8	207.6	402.5	32.8	27.0	59.8	227.6	234.7	462.3
रूद्रप्रयाग	Rudraprayag	105.6	119.1	224.7	1.9	0.8	2.7	107.5	119.9	227.4
टिहरी गढ़वाल	Tehri Garhwal	258.4	286.5	544.9	36.8	23.1	59.8	295.2	309.6	604.7
ऊधमसिंहनगर	Udham Singh Nagar	434.7	397.9	832.6	214.8	188.2	403.0	649.5	586.1	1,235.6
उत्तरकाशी	Uttarkashi	138.7	133.4	272.1	13.3	9.6	22.9	152.0	143.0	295.0

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





1.2. सामाजिक सांख्यिकी: मानव जनसंख्या (Social Statistics: Human Population)

TABLE I.2.2: मानव जनसंख्या निवास और लिंग के अनुसार - 2011 (Human Population by Residence and Sex - 2011)

जिले	Districts	ग्रामीण Rural ('000)			शहरी Urban ('000)			कुल Total ('000)		
		पुरुष Male	महिला Female	कुल Total	पुरुष Male	महिला Female	कुल Total	पुरुष Male	महिला Female	कुल Total
उत्तराखण्ड	UTTARAKHAND	3,519.0	3,517.9	7,037.0	1,618.7	1,430.6	3,049.3	5,137.8	4,948.5	10,086.3
अल्मोडा	Almora	257.4	302.8	560.2	33.7	28.6	62.3	291.1	331.4	622.5
बागेश्वर	Bageshwar	119.6	131.2	250.8	4.7	4.4	9.1	124.3	135.6	259.9
चमोली	Chamoli	160.4	171.8	332.2	33.6	25.8	59.4	194.0	197.6	391.6
चम्पावत	Champawat	110.8	110.5	221.3	20.3	18.1	38.3	131.1	128.5	259.6
देहरादून	Dehradun	392.9	361.9	754.8	499.3	442.6	941.9	892.2	804.5	1,696.7
हरिद्वार	Haridwar	633.8	563.5	1,197.3	371.5	321.6	693.1	1,005.3	885.1	1,890.4
नैनीताल	Nainital	299.3	283.6	582.9	194.4	177.3	371.7	493.7	460.9	954.6
पौड़ी गढ़वाल	Pauri Garhwal	268.0	306.5	574.6	58.8	53.9	112.7	326.8	360.4	687.3
पिथौरागढ़	Pithoragarh	202.9	210.9	413.8	36.4	33.2	69.6	239.3	244.1	483.4
रूद्रप्रयाग	Rudraprayag	108.7	123.6	232.4	5.8	4.1	9.9	114.6	127.7	242.3
टिहरी गढ़वाल	Tehri Garhwal	259.4	289.4	548.8	38.6	31.5	70.1	298.0	320.9	618.9
ऊधमसिंहनगर	Udham Singh Nagar	550.5	511.7	1,062.1	308.3	278.4	586.8	858.8	790.1	1,648.9
उत्तरकाशी	Uttarkashi	155.4	150.4	305.8	13.2	11.1	24.3	168.6	161.5	330.1

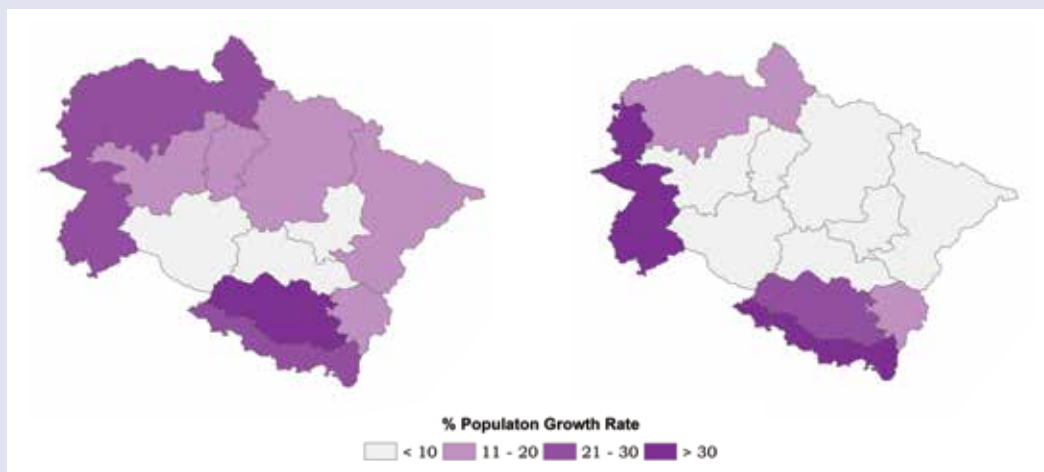
SOURCE: Census 2011, Office of the Registrar General and Census Commissioner, Govt. of India, New Delhi.



Decadal Growth Rate of Population

1991-2001

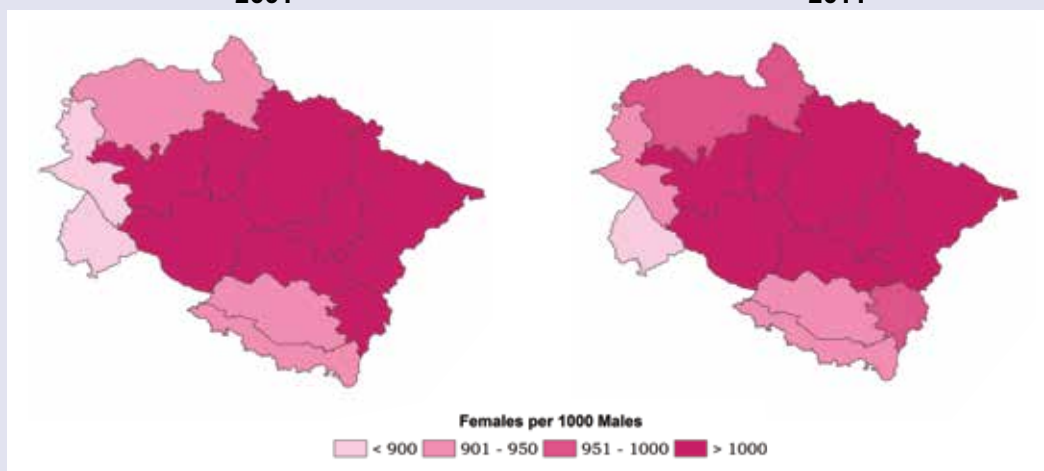
2001-2011



Sex Ratio (all age groups)

2001

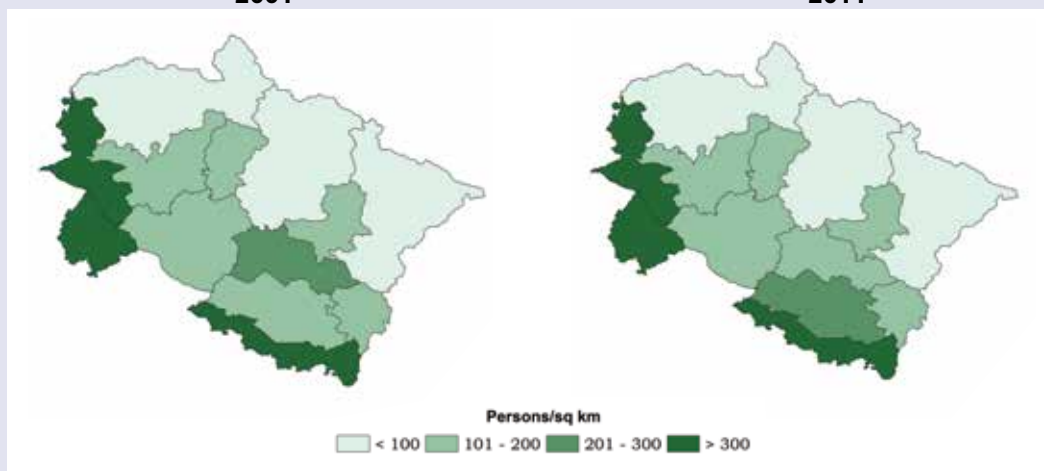
2011



Population Density

2001

2011





1.2. सामाजिक सांख्यिकी: मानव जनसंख्या (Social Statistics: Human Population)

TABLE I.2.3: ग्रामीण परिवारों के लिए बिजली और नल का पानी आपूर्ति - 2001 और 2011
(Rural Households, Electricity and Tap Water Supply - 2001 and 2011)

जिले	Districts	ग्रामीण परिवार Rural Households ('000)		ग्रामीण परिवार बिजली सुविधा के साथ Rural Households with Electricity ('000)		उपचारित तथा गैर उपचारित समेत Rural Households with Tap Water (inclusive – treated & untreated) ('000)	
		2001	2011	2001	2011	2001	2011
उत्तराखण्ड	UTTARAKHAND	1,196.2	1,404.8	602.3	1,166.8	724.2	898.0
अल्मोडा	Almora	123.4	126.5	57.2	97.3	91.9	99.9
बागेश्वर	Bageshwar	50.4	55.7	21.1	45.2	28.7	44.1
चमोली	Chamoli	66.2	72.7	31.2	58.8	53.8	61.4
चम्पावत	Champawat	37.5	44.4	12.4	30.3	23.2	28.5
देहरादून	Dehradun	102.8	137.1	73.4	129.5	73.6	107.2
हरिद्वार	Haridwar	159.4	199.6	75.5	158.1	33.7	42.1
नैनीताल	Nainital	88.7	112.7	48.6	96.7	53.6	78.6
पौड़ी गढ़वाल	Pauri Garhwal	135.0	137.1	69.8	119.8	105.3	115.4
पिथौरागढ़	Pithoragarh	85.8	95.1	38.7	79.2	63.9	74.8
रूद्रप्रयाग	Rudraprayag	48.9	51.1	22.6	46.8	40.8	44.7
टिहरी गढ़वाल	Tehri Garhwal	110.7	117.0	47.8	101.0	82.0	89.1
ऊधमसिंहनगर	Udham Singh Nagar	135.0	194.7	80.4	156.7	35.0	63.8
उत्तरकाशी	Uttarkashi	52.4	61.1	23.5	47.3	38.6	48.3

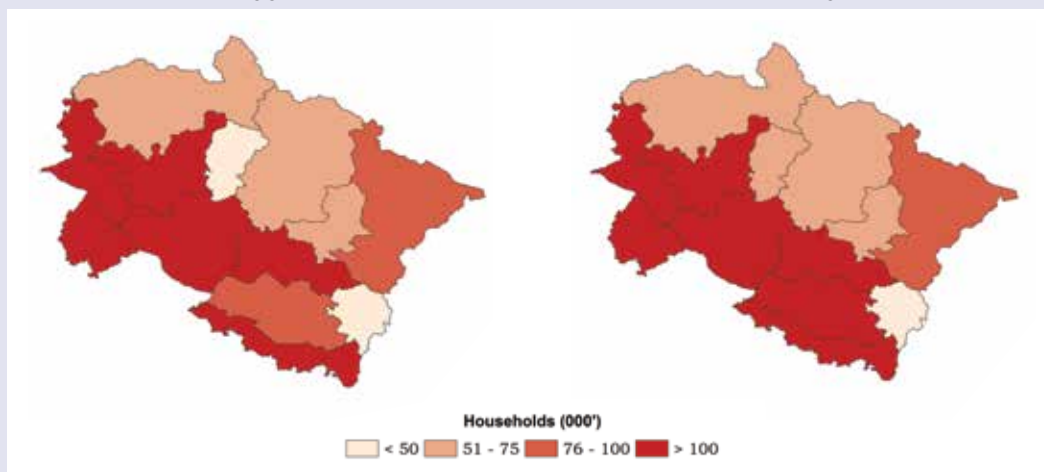
SOURCE: Census 2001 and 2011, Office of the Registrar General and Census Commissioner, Govt. of India, New Delhi.



Rural Households

2001

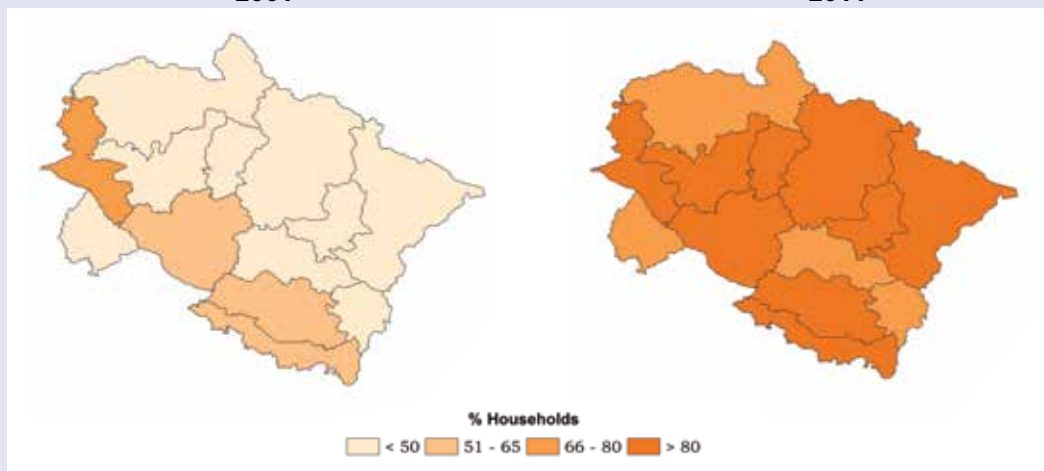
2011



Rural Households with Electricity

2001

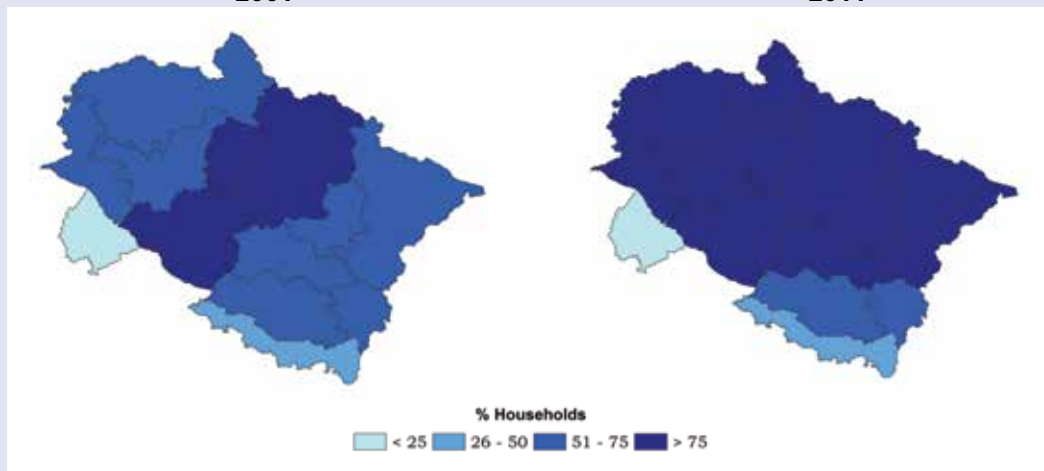
2011



Rural Households with Tap Water

2001

2011





1.2. सामाजिक सांख्यिकी: मानव जनसंख्या (Social Statistics: Human Population)

TABLE I.2.4: जिलेवार एस सी तथा एस टी जनसंख्या - 2001 और 2011
(District-wise SC and ST Population – 2001 and 2011)

जिले	Districts	एस सी जनसंख्या SC Population ('000)		एस टी जनसंख्या ST Population ('000)	
		2001	2011	2001	2011
उत्तराखण्ड	UTTARAKHAND	1,517.2	1,892.5	256.1	291.9
अल्मोडा	Almora	140.4	151.0	0.9	1.3
बागेश्वर	Bageshwar	64.5	72.1	1.9	2.0
चमोली	Chamoli	67.5	79.3	10.5	12.3
चम्पावत	Champawat	38.1	47.4	0.7	1.3
देहरादून	Dehradun	173.4	228.9	99.3	111.7
हरिद्वार	Haridwar	314.0	411.3	3.1	6.3
नैनीताल	Nainital	148.2	191.2	5.0	7.5
पौड़ी गढ़वाल	Pauri Garhwal	106.7	122.4	1.6	2.2
पिथौरागढ़	Pithoragarh	106.4	120.4	19.3	19.5
रूद्रप्रयाग	Rudraprayag	40.3	47.7	0.2	0.4
टिहरी गढ़वाल	Tehri Garhwal	87.3	102.1	0.7	0.9
ऊधमसिंहनगर	Udham Singh Nagar	162.8	238.3	110.2	123.0
उत्तरकाशी	Uttarkashi	67.5	80.6	2.7	3.5

SC: Scheduled Caste, ST: Scheduled Tribe

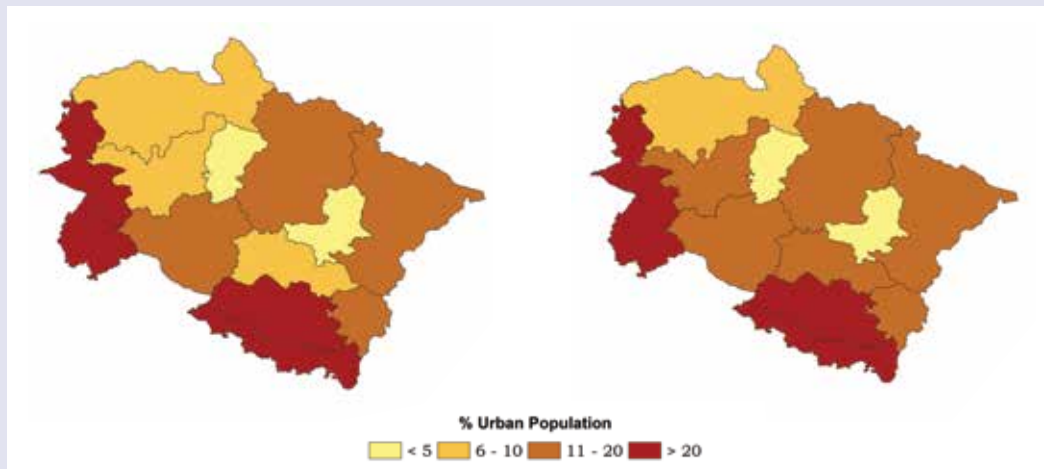
SOURCE: Census 2001 and 2011, Office of the Registrar General and Census Commissioner, Govt. of India, New Delhi.



Urbanisation (%)

2001

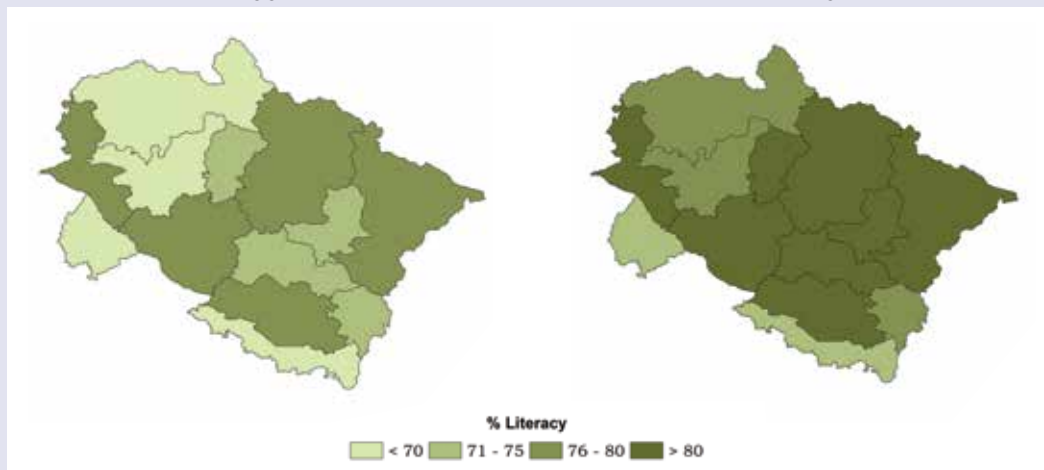
2011



Literacy Rate

2001

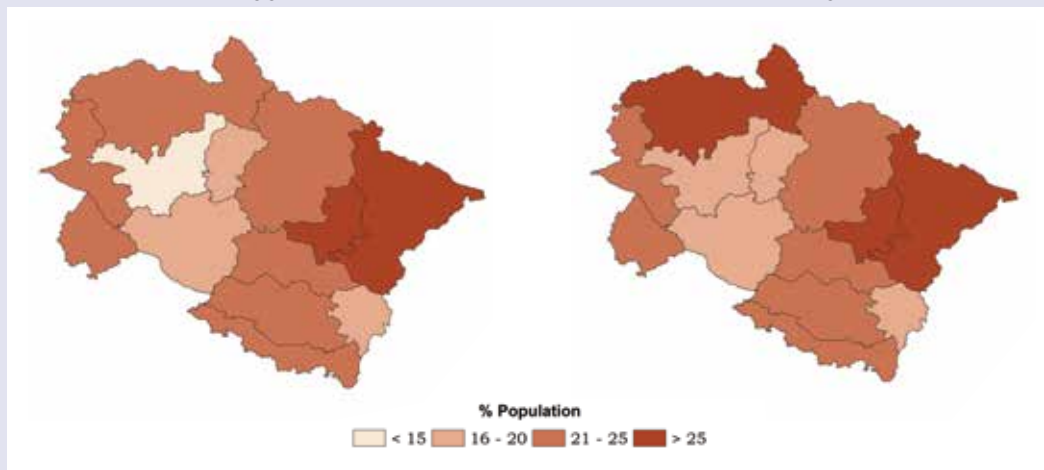
2011



Scheduled Caste and Scheduled Tribe Population (%)

2001

2011





1.3. राज्य की अर्थव्यवस्था (State Economy)

TABLE I.3.1: शुद्ध राज्य घरेलू उत्पाद (एनएसडीपी) और प्रति व्यक्ति आय (Net State Domestic Product (NSDP) and Per Capita Income)

क्षेत्र Sector	चालू मूल्यों पर At Current Prices (₹ crores)										
	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
राज्य घरेलू उत्पाद State Domestic Product	22,288	26,968	32,670	40,279	48,616	61,138	72,970	85,602	94,112	106,890	120,766
1. कृषि Agriculture	3,675	3,720	4,359	4,428	5,197	6,437	7,460	9,132	10,751	10,924	12,563
2. वानिकी तथा लट्ठे Forestry & Logging	1,379	1,615	1,835	1,974	2,242	2,528	3,047	3,605	4,356	4,699	5,483
3. फिशिंग Fishing	8	9	11	11	13	18	23	30	32	38	43
4. कृषि तथा सम्बद्ध Agriculture & Allied (1+2+3)	5,063	5,344	6,204	6,413	7,452	8,984	10,531	12,767	15,140	15,661	18,088
एनएसडीपी के अनुपात में As % of NSDP	22.7	19.8	19.0	15.9	15.3	14.7	14.4	14.9	16.1	14.7	15.0
A कुल योग प्राथमिक क्षेत्र का Sub-total of Primary	5,305	5,700	6,607	6,861	7,811	9,428	11,099	13,511	15,990	16,653	19,228
एनएसडीपी के अनुपात में As % of NSDP	23.8	21.1	20.2	17.0	16.1	15.4	15.2	15.8	17.0	15.6	15.9
B कुल योग द्वितीयक क्षेत्र का Sub-total of Secondary	5,733	7,692	9,870	12,911	14,744	18,079	22,377	26,808	28,426	33,356	38,097
एनएसडीपी के अनुपात में As % of NSDP	25.7	28.5	30.2	32.1	30.3	29.6	30.7	31.3	30.2	31.2	31.5
C सेवायें क्षेत्र Services	11,250	13,577	16,193	20,507	26,061	33,631	39,494	45,283	49,696	56,881	63,441
एनएसडीपी के अनुपात में As % of NSDP	50.5	50.3	49.6	50.9	53.6	55.0	54.1	52.9	52.8	53.2	52.5
राज्य प्रति व्यक्ति आय (₹.) State Per Capita Income (₹)	24,726	29,441	35,111	42,619	50,657	62,757	73,819	85,372	92,566	103,716	115,632





1.3. राज्य की अर्थव्यवस्था (State Economy)

TABLE I.3.1: शुद्ध राज्य घरेलू उत्पाद (एनएसडीपी) और प्रति व्यक्ति आय (Net State Domestic Product (NSDP) and Per Capita Income)

क्षेत्र Sector	2004-05 के मूल्यों पर 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	2014-15
राज्य घरेलू उत्पाद State Domestic Product	22,288	25,448	28,514	33,498	37,064	43,407	47,967	52,748	56,300	60,971	66,653
1. कृषि Agriculture	3,675	3,475	3,645	3,679	3,345	3,829	3,947	4,102	4,509	4,127	4,333
2. वानिकी तथा लट्ठे Forestry & Logging	1,379	1,372	1,414	1,448	1,520	1,520	1,574	1,651	1,740	1,911	2,027
3. फिशिंग Fishing	8	8	9	10	10	10	11	10	10	10	10
4. कृषि तथा सम्बद्ध Agriculture & Allied (1+2+3)	5,063	4,855	5,068	5,136	4,875	5,358	5,532	5,763	6,259	6,048	6,371
एनएसडीपी के अनुपात में As % of NSDP	22.7	19.1	17.8	15.3	13.2	12.3	11.5	10.9	11.1	9.9	9.6
A कुल योग प्राथमिक क्षेत्र का Sub-total of Primary	5,305	5,164	5,350	5,408	5,112	5,521	5,768	6,002	6,514	6,324	6,669
एनएसडीपी के अनुपात में As % of NSDP	23.8	20.3	18.8	16.1	13.8	12.7	12.0	11.4	11.6	10.4	10.0
B कुल योग द्वितीयक क्षेत्र का Sub-total of Secondary	5,733	7,320	8,530	10,432	11,069	12,930	14,985	17,091	18,549	20,952	23,570
एनएसडीपी के अनुपात में As % of NSDP	25.7	28.8	29.9	31.1	29.9	29.8	31.2	32.4	32.9	34.4	35.4
C सेवायें क्षेत्र Services	11,250	12,964	14,634	17,659	20,883	24,956	27,214	29,656	31,236	33,696	36,414
एनएसडीपी के अनुपात में As % of NSDP	50.5	50.9	51.3	52.7	56.3	57.5	56.7	56.2	55.5	55.3	54.6
राज्य प्रति व्यक्ति आय (₹.) State Per Capita Income (₹)	24,726	27,781	30,644	35,444	38,621	44,557	48,525	52,606	55,375	59,161	63,820

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

NOTE: The estimates are as on 31.07.2015.





1.3. राज्य की अर्थव्यवस्था (State Economy)

TABLE I.3.2: उत्पाद का मूल्य: कृषि और पशुधन (Value of Output: Agriculture and Livestock)

विवरण Item	चालू मूल्यों पर At Current Prices										
	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
उत्पाद का मूल्य Value of Output (₹ Billion)											
कृषि और संबद्ध Agriculture and Allied	75.1	79.6	90.1	91.8	108.5	128.2	138.0	164.0	187.5	196.0	199.6
कृषि Agriculture	40.9	41.9	48.6	47.2	58.5	67.5	71.5	89.8	103.1	99.1	101.5
पशुधन Livestock	17.4	18.2	19.3	21.3	23.3	31.3	32.4	41.0	45.9	51.1	56.8
दुग्ध Milk	15.1	15.7	16.6	18.1	19.7	26.9	27.0	34.3	37.4	42.0	46.6
मांस Meat	0.6	0.6	0.7	0.9	0.8	1.1	1.6	2.3	3.6	4.2	5.0
अंडा Egg	0.3	0.3	0.3	0.3	0.3	0.6	0.7	0.7	0.8	1.0	1.2
गोबर Dung	1.1	1.2	1.3	1.4	1.7	1.7	1.7	2.6	2.8	2.5	2.4
अन्य Others^	0.4	0.5	0.4	0.7	0.8	1.0	1.3	1.0	1.3	1.4	1.6
कृषि और संबद्ध क्षेत्र के उत्पाद की हिस्सेदारी और मूल्य (%) Share of Value of Output to Agriculture and Allied (%)											
कृषि Agriculture	54.5	52.6	54.0	51.4	53.9	52.6	51.8	54.8	55.0	50.6	50.8
पशुधन Livestock	23.1	22.9	21.4	23.2	21.4	24.4	23.5	25.0	24.5	26.1	28.5
पशुधन क्षेत्र के उत्पाद की हिस्सेदारी और मूल्य (%) Share of Value of Output to Livestock Output (%)											
दुग्ध Milk	86.9	86.1	86.0	84.9	84.5	85.9	83.5	83.8	81.5	82.2	82.1
मांस Meat	3.2	3.0	3.4	4.0	3.5	3.6	5.0	5.6	7.7	8.2	8.7
अंडा Egg	1.5	1.5	1.4	1.3	1.2	1.8	2.1	1.8	1.8	1.9	2.2
गोबर Dung	6.4	6.5	7.0	6.6	7.5	5.4	5.2	6.4	6.1	4.9	4.2
अन्य Others^	2.1	2.9	2.2	3.2	3.3	3.2	4.1	2.4	2.8	2.8	2.8

विवरण Item	स्थिर कीमतों पर At Constant Prices (2004-05 & 2011-12)										
	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12*	2012-13*	2013-14*	2014-15*
उत्पाद का मूल्य Value of Output (₹ Billion)											
कृषि और संबद्ध Agriculture and Allied	75.1	72.6	76.0	76.2	77.8	82.4	84.5	164.0	165.2	159.8	163.6
कृषि Agriculture	40.9	39.2	42.1	41.1	42.3	44.1	44.7	89.8	89.7	81.6	84.5
पशुधन Livestock	17.4	17.6	17.7	18.2	18.4	20.4	21.0	41.0	43.1	45.1	45.7
दुग्ध Milk	15.1	15.2	15.3	15.4	15.5	17.4	17.5	34.3	35.8	37.6	37.9
मांस Meat	0.6	0.5	0.6	0.7	0.6	0.8	1.1	2.3	2.9	3.0	3.1
अंडा Egg	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.8	0.9	1.0
गोबर Dung	1.1	1.1	1.2	1.2	1.4	1.3	1.3	2.6	2.6	2.5	2.6
अन्य Others^	0.4	0.5	0.4	0.5	0.6	0.6	0.7	1.0	1.0	1.1	1.1
कृषि और संबद्ध क्षेत्र के उत्पाद की हिस्सेदारी और मूल्य (%) Share of Value of Output to Agriculture and Allied (%)											
कृषि Agriculture	54.5	54.0	55.4	54.0	54.3	53.5	52.9	54.8	54.3	51.0	51.6
पशुधन Livestock	23.1	24.2	23.3	23.8	23.7	24.8	24.8	25.0	26.1	28.2	28.0
पशुधन क्षेत्र के उत्पाद की हिस्सेदारी और मूल्य (%) Share of Value of Output to Livestock Output (%)											
दुग्ध Milk	86.9	86.6	86.5	84.9	84.3	85.0	83.3	83.8	83.0	83.3	82.9
मांस Meat	3.2	2.9	3.1	4.1	3.5	4.1	5.4	5.6	6.6	6.7	6.9
अंडा Egg	1.5	1.5	1.4	1.5	1.4	1.7	1.7	1.8	1.9	2.0	2.1
गोबर Dung	6.4	6.2	6.7	6.7	7.6	6.3	6.1	6.4	6.0	5.6	5.6
अन्य Others^	2.1	2.8	2.2	3.0	3.1	3.0	3.5	2.4	2.4	2.4	2.5

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

* Base year is 2011-12.

SOURCE: State-wise estimates of value of output from agriculture and allied activities with base year 2004-05 and 2011-12, Ministry of Statistics and Programme Implementation, Govt. of India.



1.3. राज्य की अर्थव्यवस्था (State Economy)

TABLE 1.3.3: राष्ट्रीय कृषि विकास योजना के अंतर्गत उत्तराखण्ड पशुपालन विभाग द्वारा निधि उपयोगिताकरण (Fund Utilisation for Animal Husbandry under Rashtriya Krishi Vikas Yojana (RKVY) in Uttarakhand)

अनुभाग Segment	पशुपालन विभाग द्वारा निधि उपयोगिताकरण Fund Utilisation for Animal Husbandry (₹ crores)										
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	Grand Total
मिल्कग्रिड, माइक्रो डेरी यूनिटों के सुदृढीकरण Strengthening of Milk Grid, micro dairy units	8.90					5.13		6.65			20.68
पशुप्रजनन फार्म के सुदृढीकरण Strengthening animal breeding farms		5.00									5.00
कुक्कट तथा एमू विकास Poultry and Emu Development		2.00		0.95	1.03	0.44					4.42
बकरी तथा भैंस विकास Goat and Sheep development		0.64	1.34		3.25	2.25	0.30	7.95			15.73
चारा विकास Fodder Development			8.14	3.30	1.19		9.68				22.31
पशु स्वास्थ्य Animal Health			5.50				0.66			2.96	9.12
अन्य Other				1.45	0.13		0.94				2.52
देशी गाय के संरक्षण Conservation of local cattle					0.38						0.38
क्षमता निर्माण तथा प्रशिक्षण केंद्र विकास Capacity Building and Training Center Development					1.43						1.43
मत्स्य पालन Fisheries					0.50						0.50
सुअर पालन विकास Piggery Development						1.09					1.09
नस्ल सुधार Breed Improvement							0.08				0.08
कुल योग GRAND TOTAL	8.90	7.64	14.98	5.70	7.90	8.91	11.66	14.60		2.96	83.26

SOURCE: Rashtriya Krishi Vikas Yojana, Department of Agriculture and Cooperation, Ministry of Agriculture and Farmers Welfare, Govt. of India.



**TABLE I.3.4: राष्ट्रीय कृषि विकास योजना के अंतर्गत उत्तराखण्ड डेरी विभाग द्वारा निधि उपयोगिताकरण
(Fund Utilisation for Dairying under Rashtriya Krishi Vikas Yojana (RKVY) in Uttarakhand)**

अनुभाग Segment	डेरी विभाग द्वारा निधि उपयोगिताकरण Fund Utilisation for Dairying (₹ crores)										
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	Grand Total
प्राथमिक डेरी समितियों सुदृढीकरण Strengthening of Primary Dairy Cooperative Societies			5.52				2.91				8.43
मिनी डेरी योजना Mini Dairy Scheme					4.07	15.08					19.15
दुग्ध संघों के आधारभूत संरचना के सुदृढीकरण Strengthening of dairy Infrastructure of Milk Unions					3.02		13.89				16.91
कुल योग GRAND TOTAL			5.52		7.09	15.08	16.80			1.05	45.54

SOURCE: Rashtriya Krishi Vikas Yojana, Department of Agriculture and Cooperation, Ministry of Agriculture and Farmers Welfare, Govt. of India.





भाग II : पशुधन गणना

PART II : LIVESTOCK CENSUS

19वीं पशुधन गणना के अनुसार, उत्तराखण्ड की कुल पशुधन संख्या 29 लाख है, जिसमें से 50 प्रतिशत देशी गाय, 17 प्रतिशत संकर गाय और शेष 33 प्रतिशत भैंसों की आबादी है। 2007 से 2012 के बीच, संकर नस्ल गायों की संख्या में 46 प्रतिशत की वृद्धि हुई है जबकि देशी गायों और भैंसों की संख्या में 19-20 प्रतिशत तक की गिरावट हुई है।

जिलेवार, दूध देने वाली गौ-महिषवंशीय पशुओं की आधी संख्या पाँच जिलों हरिद्वार, पौड़ी गढ़वाल, ऊधम सिंह नगर, अल्मोडा और देहरादून में पायी जाती है।

As per 19th Livestock Census, the total livestock population in Uttarakhand was 2.9 million which comprised of 50 per cent local cows, 17 per cent cross-bred cows and balance 33 per cent buffaloes. Between 2007 and 2012, the number of cross-bred cows increased by 46 per cent, whereas Indigenous cows and buffaloes declined by 19-20 per cent.

Five districts of Haridwar, Pauri Garhwal, Udham Singh Nagar, Almora and Dehradun together accounted for half of the in-milk bovine population in the State.





II.1. पशु संख्या (Animal Population)

**TABLE II.1.1: पशुधन गणना का सारांश (1997 से 2012) - उत्तराखण्ड
(Summary of Livestock Census (1997 to 2012) – Uttarakhand)**

पशुधन संख्या Population	पशुधन गणना Livestock Census			
	1997	2003	2007	2012
कुल गौ-महिषवंशीय Total Bovines	3,125,259	3,416,385	3,454,634	2,993,828
कुल गाय Total Cattle	2,030,864	2,188,187	2,235,116	2,006,053
कुल विदेशी/ संकर नस्ल गाय Total Exotic/ Crossbred cows	103,453	227,614	339,427	497,592
कुल मादा Total Females	74,313	177,855	273,168	416,977
1 वर्ष के नीचे Under 1 year	16,029	39,126	61,525	94,598
1 से 2.5 वर्ष 1 to 2.5 year	11,979	31,728	45,790	63,381
दूध में In-milk	30,224	72,308	121,970	185,297
सूखी Dry	12,310	26,502	34,887	56,222
दुधारू Milch	42,534	98,810	156,857	241,519
एक बार भी न ब्याई हुई Not even calved once	3,258	6,415	7,587	15,427
अन्य Others	513	1,776	1,409	2,052
कुल नर Total Males	29,140	49,759	66,259	80,615
कुल देशी गाय Total Indigenous Cows	1,927,411	1,960,573	1,895,689	1,508,461
कुल मादा Total Females	978,581	1,082,067	1,064,217	885,334
1 वर्ष के नीचे Under 1 year	184,743	227,149	241,612	198,811
1 से 3 वर्ष 1 to 3 year	168,835	204,246	175,576	138,337
दूध में In-milk	348,652	385,221	434,926	346,502
सूखी Dry	223,826	209,871	169,967	163,516
दुधारू Milch	572,478	595,092	604,893	510,018
एक बार भी न ब्याई हुई Not even calved once	48,909	47,246	32,270	32,651
अन्य Others	3,616	8,334	9,866	5,517
कुल नर Total Males	948,830	878,506	831,472	623,127
कुल भैंस Total Buffalo	1,094,395	1,228,198	1,219,518	987,775
कुल मादा Total Females	939,019	1,094,369	1,063,288	873,626
1 वर्ष के नीचे Under 1 year	144,431	188,861	200,587	156,982
1 से 3 वर्ष 1 to 3 year	139,417	168,984	160,394	134,461
दूध में In-milk	402,876	485,198	511,523	404,415
सूखी Dry	203,765	196,551	153,252	141,536
दुधारू Milch	606,641	681,749	664,775	545,951
एक बार भी न ब्याई हुई Not even calved once	44,244	45,649	29,341	32,395
अन्य Others	4,286	9,126	8,191	3,837
कुल नर Total Males	155,376	133,829	156,230	114,149

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



II.1. पशु संख्या (Animal Population)

TABLE II.1.2: जिलेवार कुल गौ-महिषवंशीय पशु संख्या (District-wise Total Bovine Population)

जिले	Districts	देशी गाय Indigenous Cattle ('000)				संकर नस्ल गाय Crossbred Cattle ('000)				भैंस Buffalo ('000)			
		1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
उत्तराखण्ड	UTTARAKHAND	1,927	1,961	1,896	1,508	103	228	339	498	1,094	1,228	1,220	988
अल्मोडा	Almora	219	228	232	174	4	10	24	23	103	110	118	97
बागेश्वर	Bageshwar	120	120	113	95	0	1	2	6	42	42	45	35
चमोली	Chamoli	167	173	179	148	6	15	5	10	49	55	52	43
चम्पावत	Champawat	75	87	92	69	3	12	16	22	30	38	38	23
देहरादून	Dehradun	120	148	136	110	14	40	47	71	48	72	65	53
हरिद्वार	Haridwar	122	102	67	60	9	26	72	92	220	269	272	237
नैनीताल	Nainital	138	143	153	116	4	27	44	59	95	123	122	90
पौड़ी गढ़वाल	Pauri Garhwal	332	348	324	270	3	9	20	34	81	66	57	39
पिथौरागढ़	Pithoragarh	209	223	206	158	8	17	21	45	82	87	78	51
रूद्रप्रयाग	Rudraprayag	84	100	103	82	1	2	2	12	33	37	42	33
टिहरी गढ़वाल	Tehri Garhwal	168	121	121	85	1	2	2	15	121	115	107	91
ऊधमसिंहनगर	Udham Singh Nagar	76	70	73	52	44	54	72	87	151	176	185	165
उत्तरकाशी	Uttarkashi	97	96	97	89	6	11	14	22	39	39	38	31

Zero denotes either nil or negligible.

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



II.1. पशु संख्या (Animal Population)

TABLE II.1.3: जिलेवार मादा पशु संख्या (District-wise Female Population)

जिले	Districts	देशी गाय Indigenous Cattle ('000)				संकर नस्ल गाय Crossbred Cattle ('000)				भैंस Buffalo ('000)			
		1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
उत्तराखण्ड	UTTARAKHAND	978.6	1,082.1	1,064.2	885.3	74.3	177.9	273.2	417.0	939.0	1,094.4	1,063.3	873.6
अल्मोडा	Almora	99.2	108.9	117.4	92.1	2.9	7.4	18.2	19.8	98.8	104.1	109.5	91.0
बागेश्वर	Bageshwar	56.5	58.3	55.5	45.9	0.1	1.1	1.4	5.4	41.1	40.8	42.2	34.2
चमोली	Chamoli	86.4	89.9	97.7	80.7	3.6	5.3	3.9	8.1	47.4	53.3	49.8	42.0
चम्पावत	Champawat	38.3	47.1	51.4	42.7	2.8	9.1	11.8	18.6	27.7	33.5	34.0	21.0
देहरादून	Dehradun	61.9	82.3	79.1	66.7	10.1	33.7	39.6	61.2	40.7	64.5	57.9	46.6
हरिद्वार	Haridwar	59.5	62.3	44.5	38.2	7.1	20.3	52.6	76.9	156.1	212.8	205.3	187.5
नैनीताल	Nainital	72.6	80.7	89.9	69.1	3.2	22.5	37.1	50.5	81.8	110.3	107.7	79.8
पौड़ी गढ़वाल	Pauri Garhwal	195.2	225.1	216.7	191.9	2.2	7.7	16.4	28.5	67.4	57.1	51.3	35.5
पिथौरागढ़	Pithoragarh	112.4	136.7	122.1	97.8	6.7	14.6	17.7	37.9	77.2	83.7	70.5	47.9
रूद्रप्रयाग	Rudraprayag	42.1	53.2	53.3	45.9	0.4	1.3	1.8	7.8	32.2	36.0	41.1	31.8
टिहरी गढ़वाल	Tehri Garhwal	70.0	51.2	48.3	37.3	0.5	1.1	1.5	11.0	116.8	110.8	102.8	87.6
ऊधमसिंहनगर	Udham Singh Nagar	39.2	41.1	44.3	35.2	30.7	45.5	60.0	74.4	113.9	149.8	154.4	139.0
उत्तरकाशी	Uttarkashi	45.1	45.2	43.9	41.9	4.1	8.1	11.2	16.7	37.9	37.6	36.9	29.7

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



II.1. पशु संख्या (Animal Population)

TABLE II.1.4: जिलेवार प्रजनन योग्य पशु संख्या (District-wise Breedable Population)

जिले	Districts	देशी गाय Indigenous Cattle ('000)				संकर नस्ल गाय Crossbred Cattle ('000)				भैंस Buffalo ('000)			
		1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
उत्तराखण्ड	UTTARAKHAND	709.4	752.8	734.8	617.4	52.3	122.9	188.7	290.7	724.9	821.0	782.5	649.4
अल्मोडा	Almora	73.1	75.2	82.8	63.4	2.1	5.0	12.9	12.8	79.9	79.5	81.8	66.2
बागेश्वर	Bageshwar	42.9	42.5	39.7	33.5	0.0	0.7	1.0	3.7	33.3	32.8	33.1	28.1
चमोली	Chamoli	62.4	64.7	66.9	55.7	2.7	3.8	2.7	5.7	37.9	44.0	39.6	33.3
चम्पावत	Champawat	26.8	32.1	35.0	29.0	1.9	5.9	7.8	12.1	21.5	24.8	24.1	14.9
देहरादून	Dehradun	44.8	58.9	55.9	48.4	6.8	23.8	27.6	44.2	31.3	48.0	43.7	35.7
हरिद्वार	Haridwar	43.4	44.4	31.5	27.6	5.0	14.5	36.6	55.2	117.8	154.9	146.6	135.1
नैनीताल	Nainital	51.3	53.8	61.6	49.0	2.3	15.2	25.3	34.9	60.2	78.3	75.3	57.8
पौड़ी गढ़वाल	Pauri Garhwal	140.7	152.1	147.1	131.2	1.5	5.0	11.2	19.0	50.4	41.4	37.1	26.2
पिथौरागढ़	Pithoragarh	78.7	93.1	82.2	65.9	4.6	10.5	12.1	25.4	58.6	63.1	51.4	36.0
रूद्रप्रयाग	Rudraprayag	31.3	36.6	36.3	32.0	0.3	0.9	1.1	5.3	26.6	29.4	32.8	25.8
टिहरी गढ़वाल	Tehri Garhwal	51.9	37.8	32.9	26.2	0.3	0.7	1.1	7.4	93.8	90.5	80.4	68.0
ऊधमसिंहनगर	Udham Singh Nagar	28.2	28.5	30.8	25.2	21.9	31.4	41.9	53.4	82.1	106.0	108.6	99.8
उत्तरकाशी	Uttarkashi	33.9	33.1	32.0	30.0	2.9	5.4	7.4	11.5	31.5	28.3	27.9	22.6

Zero denotes either nil or negligible.

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



II.1. पशु संख्या (Animal Population)

TABLE II.1.5: जिलेवार दूध मे पशु संख्या (District-wise In-milk Population)

जिले	Districts	देशी गाय Indigenous Cattle ('000)				संकर नस्ल गाय Crossbred Cattle ('000)				भैंस Buffalo ('000)			
		1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
उत्तराखण्ड	UTTARAKHAND	348.7	385.2	434.9	346.5	30.2	72.3	122.0	185.3	402.9	485.2	511.5	404.4
अल्मोडा	Almora	38.2	40.7	56.2	36.9	1.2	2.9	9.8	8.9	47.2	48.0	59.5	41.8
बागेश्वर	Bageshwar	20.5	21.2	23.9	21.3	0.0	0.5	0.8	2.5	18.6	21.2	24.9	19.5
चमोली	Chamoli	32.3	38.8	41.1	35.2	1.4	2.4	2.0	3.9	21.5	29.1	28.7	23.3
चम्पावत	Champawat	13.3	16.6	20.9	15.9	1.2	3.3	5.4	8.8	12.8	13.8	15.1	8.9
देहरादून	Dehradun	22.3	28.4	31.1	26.0	3.6	14.2	18.7	30.1	15.8	29.1	28.3	23.6
हरिद्वार	Haridwar	23.9	25.1	17.7	15.0	3.1	8.3	22.2	32.8	71.6	97.0	91.2	81.2
नैनीताल	Nainital	25.5	25.0	36.5	24.2	1.3	9.0	16.4	21.3	30.3	41.9	46.8	31.8
पौड़ी गढ़वाल	Pauri Garhwal	64.4	80.2	82.7	71.4	0.7	2.9	6.9	11.5	26.2	25.2	24.1	16.7
पिथौरागढ़	Pithoragarh	40.9	44.6	48.8	37.5	2.8	7.2	8.6	18.4	30.7	30.5	33.3	22.3
रूद्रप्रयाग	Rudraprayag	14.6	20.3	22.3	19.5	0.2	0.5	0.9	3.6	14.6	19.5	22.6	18.0
टिहरी गढ़वाल	Tehri Garhwal	22.6	16.6	22.3	15.7	0.2	0.4	0.8	5.1	51.5	58.6	61.1	47.8
ऊधमसिंहनगर	Udham Singh Nagar	14.5	13.1	15.3	11.9	12.7	17.2	24.4	30.9	42.8	53.1	56.9	54.7
उत्तरकाशी	Uttarkashi	15.8	14.7	16.3	16.0	1.8	3.6	5.1	7.5	19.1	18.0	19.2	14.7

Zero denotes either nil or negligible.

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



II.1. पशु संख्या (Animal Population)

TABLE II.1.6: जिलेवार दुधारू पशु संख्या (District-wise Milch Population)

जिले	Districts	देशी गाय Indigenous Cattle ('000)				संकर नस्ल गाय Crossbred Cattle ('000)				भैंस Buffalo ('000)			
		1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
उत्तराखण्ड	UTTARAKHAND	572.5	595.1	604.9	510.0	42.5	98.8	156.9	241.5	606.6	681.7	664.8	546.0
अल्मोडा	Almora	60.4	58.6	70.6	53.2	1.8	3.9	11.3	10.9	69.0	64.7	71.1	56.3
बागेश्वर	Bageshwar	35.1	34.9	32.6	29.9	0.0	0.6	0.8	3.1	28.1	28.7	29.4	25.5
चमोली	Chamoli	51.1	54.2	55.3	45.9	2.2	3.1	2.3	4.7	32.0	38.1	34.4	28.2
चम्पावत	Champawat	21.7	24.5	28.0	23.9	1.6	4.4	6.2	10.2	18.7	20.3	19.5	12.5
देहरादून	Dehradun	36.2	46.4	44.1	40.5	5.3	19.4	22.9	37.1	26.0	40.2	36.2	30.1
हरिद्वार	Haridwar	35.5	36.7	25.9	22.8	4.3	11.9	30.8	45.3	100.3	130.7	125.9	111.7
नैनीताल	Nainital	41.3	41.4	50.4	38.5	1.8	12.0	21.0	28.2	49.1	63.7	63.0	46.0
पौड़ी गढ़वाल	Pauri Garhwal	111.0	124.1	122.4	107.1	1.1	3.9	9.6	15.9	40.2	35.3	32.7	22.4
पिथौरागढ़	Pithoragarh	62.0	70.3	67.4	54.0	3.6	8.5	10.5	21.8	47.9	48.8	43.7	30.8
रूद्रप्रयाग	Rudraprayag	25.2	29.1	29.3	27.1	0.2	0.7	1.0	4.5	22.5	25.3	27.2	22.1
टिहरी गढ़वाल	Tehri Garhwal	41.8	26.3	27.9	22.6	0.3	0.6	1.0	6.4	80.7	77.0	71.5	59.9
ऊधमसिंहनगर	Udham Singh Nagar	22.9	22.3	24.5	19.8	18.0	25.2	33.2	43.8	64.6	84.4	85.6	80.8
उत्तरकाशी	Uttarkashi	28.2	26.3	26.4	24.8	2.4	4.6	6.4	9.9	27.6	24.6	24.6	19.5

Zero denotes either nil or negligible.

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



II.1. पशु संख्या (Animal Population)

TABLE II.1.7: जिलेवार नर पशु संख्या (District-wise Male Population)

जिले	Districts	देशी गाय Indigenous Cattle ('000)				संकर नस्ल गाय Crossbred Cattle ('000)				भैंस Buffalo ('000)			
		1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
उत्तराखण्ड	UTTARAKHAND	948.8	878.5	831.5	623.1	29.1	49.8	66.3	80.6	155.4	133.8	156.2	114.1
अल्मोडा	Almora	119.9	118.9	114.5	82.0	0.8	2.5	6.1	3.4	4.3	5.7	8.5	5.6
बागेश्वर	Bageshwar	63.8	61.4	57.5	49.0	0.0	0.2	0.2	1.0	0.9	1.4	2.6	1.1
चमोली	Chamoli	80.9	83.1	81.1	67.5	2.4	10.1	0.8	2.0	1.6	1.8	2.1	1.2
चम्पावत	Champawat	36.2	40.2	40.7	26.7	0.6	3.3	3.7	3.7	2.4	4.2	3.6	2.1
देहरादून	Dehradun	57.7	65.8	57.1	43.5	4.1	6.1	7.2	9.4	7.5	7.2	7.5	6.3
हरिद्वार	Haridwar	62.9	40.1	23.0	21.9	2.2	5.4	19.3	15.5	64.3	55.7	67.2	49.7
नैनीताल	Nainital	65.3	62.7	63.4	46.9	0.7	4.7	6.5	8.1	12.7	12.8	14.8	9.8
पौड़ी गढ़वाल	Pauri Garhwal	136.3	123.1	107.4	78.1	1.2	1.6	3.5	5.3	13.9	9.3	6.1	3.3
पिथौरागढ़	Pithoragarh	96.8	86.8	83.5	59.8	1.7	2.7	3.7	6.7	4.9	3.2	7.2	3.1
रूद्रप्रयाग	Rudraprayag	41.9	47.0	49.4	36.6	0.2	0.9	0.6	3.7	1.2	1.2	1.2	0.9
टिहरी गढ़वाल	Tehri Garhwal	98.3	69.7	72.6	47.6	0.2	1.2	0.3	4.3	4.0	4.3	3.8	3.7
ऊधमसिंहनगर	Udham Singh Nagar	37.1	29.2	28.5	16.5	13.6	8.1	11.5	12.6	36.7	26.1	30.5	26.0
उत्तरकाशी	Uttarkashi	51.8	50.5	52.8	47.0	1.5	3.0	2.7	5.1	0.8	1.1	1.1	1.2

Zero denotes either nil or negligible.

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



II.2. डेरी पशुओं का लिंगानुपात (Sex Ratio in Dairy Animals)

TABLE II.2.1: जिलेवार नर मादा अनुपात (District-wise Male-Female Ratio)

जिले	Districts	देशी गाय Indigenous Cattle (%)				संकर नस्ल गाय Crossbred Cattle (%)				भैंस Buffalo (%)			
		1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
उत्तराखण्ड	UTTARAKHAND	49	45	44	41	28	22	20	16	14	11	13	12
अल्मोडा	Almora	55	52	49	47	22	25	25	15	4	5	7	6
बागेश्वर	Bageshwar	53	51	51	52	8	18	12	16	2	3	6	3
चमोली	Chamoli	48	48	45	46	40	65	18	20	3	3	4	3
चम्पावत	Champawat	49	46	44	38	18	27	24	16	8	11	9	9
देहरादून	Dehradun	48	44	42	39	29	15	15	13	15	10	12	12
हरिद्वार	Haridwar	51	39	34	36	23	21	27	17	29	21	25	21
नैनीताल	Nainital	47	44	41	40	18	17	15	14	13	10	12	11
पौड़ी गढ़वाल	Pauri Garhwal	41	35	33	29	35	17	17	16	17	14	11	8
पिथौरागढ़	Pithoragarh	46	39	41	38	20	15	17	15	6	4	9	6
रूद्रप्रयाग	Rudraprayag	50	47	48	44	34	41	24	32	4	3	3	3
टिहरी गढ़वाल	Tehri Garhwal	58	58	60	56	32	53	19	28	3	4	4	4
ऊधमसिंहनगर	Udham Singh Nagar	49	42	39	32	31	15	16	14	24	15	16	16
उत्तरकाशी	Uttarkashi	53	53	55	53	26	27	20	23	2	3	3	4

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



II.3. डेरी पशुओं का दूध-सूखी अनुपात (Wet-Dry Ratio of Dairy Animals)

TABLE II.3.1: जिलेवार दूध-सूखी अनुपात (District-wise Wet-Dry Ratio)

जिले	Districts	देशी गाय Indigenous Cattle (%)				संकर नस्ल गाय Crossbred Cattle (%)				भैंस Buffalo (%)			
		1997	2003	2007	2012	1997	2003	2007	2012	1997	2003	2007	2012
उत्तराखण्ड	UTTARAKHAND	61	65	72	68	71	73	78	77	66	71	77	74
अल्मोडा	Almora	63	69	80	69	70	75	86	82	68	74	84	74
बागेश्वर	Bageshwar	58	61	73	71	73	77	92	81	66	74	85	76
चमोली	Chamoli	63	72	74	77	66	75	88	84	67	76	84	82
चम्पावत	Champawat	61	68	75	67	76	77	87	86	68	68	78	72
देहरादून	Dehradun	62	61	70	64	69	73	82	81	61	72	78	79
हरिद्वार	Haridwar	67	68	68	66	74	70	72	72	71	74	72	73
नैनीताल	Nainital	62	60	72	63	70	75	78	76	62	66	74	69
पौड़ी गढ़वाल	Pauri Garhwal	58	65	68	67	63	75	72	72	65	71	74	75
पिथौरागढ़	Pithoragarh	66	63	72	69	77	84	82	85	64	63	76	72
रूद्रप्रयाग	Rudraprayag	58	70	76	72	72	72	88	82	65	77	83	81
टिहरी गढ़वाल	Tehri Garhwal	54	63	80	70	65	68	80	79	64	76	85	80
ऊधमसिंहनगर	Udham Singh Nagar	63	59	62	60	70	68	74	71	66	63	66	68
उत्तरकाशी	Uttarkashi	56	56	62	65	74	79	80	76	69	73	78	76

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



II.4. गाय तथा भैंस की नस्लें (Cattle and Buffalo Breeds)

**TABLE II.4.1: जिलेवार नस्लवार देशी गाय संख्या - 2012
(District-wise & breed-wise Indigenous Cattle Population - 2012)**

जिले	Districts	हरियाना Hariana ('000)			लाल सिंधी Red Sindhi ('000)			साहीवाल Sahiwal ('000)			गैर-वर्गीकृत Non-descript ('000)		
		नर Male	मादा Female	कुल Total	नर Male	मादा Female	कुल Total	नर Male	मादा Female	कुल Total	नर Male	मादा Female	कुल Total
उत्तराखण्ड	UTTARAKHAND	10.2	12.3	22.5	9.3	29.9	39.2	11.8	30.6	42.4	591.9	812.5	1,404.3
अल्मोडा	Almora	0	0	0	0.2	0.8	1.0	0.4	3.4	3.8	81.4	87.9	169.3
बागेश्वर	Bageshwar	0	0	0	0.4	1.4	1.9	0	0.2	0.2	48.6	44.3	92.9
चमोली	Chamoli	0	0	0	0	0	0.1	0	0	0	67.5	80.6	148.1
चम्पावत	Champawat	0	0	0	0.3	1.0	1.3	0.1	0.5	0.7	26.2	41.1	67.3
देहरादून	Dehradun	0.1	0.9	1.0	1.8	7.9	9.7	0.9	4.5	5.4	40.7	53.4	94.2
हरिद्वार	Haridwar	5.8	6.3	12.1	2.3	6.3	8.6	5.8	8.6	14.4	8.0	17.0	25.0
नैनीताल	Nainital	0.6	0.0	0.7	0.3	1.2	1.5	1.8	6.6	8.4	44.1	61.3	105.4
पौड़ी गढ़वाल	Pauri Garhwal	0.6	1.7	2.3	0.4	2.3	2.7	0.4	1.8	2.2	76.7	186.1	262.8
पिथौरागढ़	Pithoragarh	0.3	0.2	0.5	1.1	3.7	4.7	0.1	0.4	0.4	58.3	93.6	151.9
रूद्रप्रयाग	Rudraprayag	0.2	0.1	0.3	1.1	2.1	3.2	0.5	0.6	1.2	34.7	43.0	77.8
टिहरी गढ़वाल	Tehri Garhwal	0.2	0.1	0.3	0.7	0.8	1.5	0	0	0	46.7	36.5	83.2
ऊधमसिंहनगर	Udham Singh Nagar	1.9	3.0	4.9	0.3	1.6	1.8	0.8	3.1	3.9	13.5	27.5	41.1
उत्तरकाशी	Uttarkashi	0.4	0.1	0.5	0.3	0.9	1.2	1.0	0.8	1.8	45.4	40.1	85.4

Zero denotes either nil or negligible.

SOURCE: Livestock Population Breedwise, Based on Breed Survey, 2013, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture and Farmers Welfare, Govt. of India.

NOTE: Breed includes both pure and Graded.



II.4. गाय तथा भैंस की नस्लें (Cattle and Buffalo Breeds)

**TABLE II.4.2: जिलेवार नस्लवार संकर नस्ल गाय की संख्या - 2012
(District-wise & breed-wise Crossbred Cattle Population - 2012)**

जिले	Districts	एच एफ विदेशी और संकर नस्ल Holstein Friesian Exotic and Crossbred (‘000)			जर्सी विदेशी और संकर नस्ल Jersey Exotic and Crossbred (‘000)		
		नर Male	मादा Female	कुल Total	नर Male	मादा Female	कुल Total
उत्तराखण्ड	UTTARAKHAND	27.7	163.9	191.6	52.9	253.1	306.0
अल्मोडा	Almora	0.2	1.7	1.9	3.2	18.1	21.3
बागेश्वर	Bageshwar	0.1	0.2	0.3	1.0	5.2	6.2
चमोली	Chamoli	0.1	0.6	0.7	1.9	7.4	9.3
चम्पावत	Champawat	0.3	1.1	1.3	3.4	17.5	20.9
देहरादून	Dehradun	3.6	25.1	28.8	5.8	36.1	41.9
हरिद्वार	Haridwar	8.7	46.2	54.8	6.8	30.7	37.5
नैनीताल	Nainital	4.0	26.5	30.4	4.1	24.1	28.2
पौड़ी गढ़वाल	Pauri Garhwal	1.1	6.8	7.9	4.1	21.7	25.8
पिथौरागढ़	Pithoragarh	0.4	2.9	3.4	6.2	35.0	41.2
रूद्रप्रयाग	Rudraprayag	0.0	0.2	0.3	3.7	7.6	11.3
टिहरी गढ़वाल	Tehri Garhwal	0.4	0.3	0.7	3.9	10.7	14.6
ऊधमसिंहनगर	Udham Singh Nagar	8.7	50.5	59.2	4.0	23.9	27.9
उत्तरकाशी	Uttarkashi	0.2	1.8	2.0	4.9	15.0	19.9

Zero denotes either nil or negligible.

SOURCE: Livestock Population Breedwise, Based on Breed Survey, 2013, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture and Farmers Welfare, Govt. of India.

NOTE: Breed includes both pure and cross.



II.4. गाय तथा भैंस की नस्लें (Cattle and Buffalo Breeds)

**TABLE II.4.3: जिलेवार भैंस की प्रमुख नस्लों की संख्या - 2012
(District-wise & major breed-wise Buffalo Population - 2012)**

जिले	Districts	भदावरी Bhadawari ('000)			मुरा Murrah ('000)			गैर-वर्गीकृत Non Descript ('000)		
		नर Male	मादा Female	कुल Total	नर Male	मादा Female	कुल Total	नर Male	मादा Female	कुल Total
उत्तराखण्ड	UTTARAKHAND	3.1	17.8	20.9	60.0	318.9	378.9	47.5	523.3	570.8
अल्मोडा	Almora	0	0	0	0.9	12.7	13.6	4.7	78.1	82.7
बागेश्वर	Bageshwar	0	0	0	0.4	9.4	9.8	0.7	24.9	25.6
चमोली	Chamoli	0	0	0	0.4	7.4	7.7	0.8	34.6	35.4
चम्पावत	Champawat	0.1	0.8	0.9	0.2	1.3	1.5	1.8	18.9	20.7
देहरादून	Dehradun	0	0	0	3.4	23.8	27.1	2.9	22.8	25.7
हरिद्वार	Haridwar	1.2	5.3	6.5	38.5	143.4	181.9	7.2	29.6	36.8
नैनीताल	Nainital	0.1	0.4	0.5	2.2	16.3	18.5	7.5	62.8	70.3
पौड़ी गढ़वाल	Pauri Garhwal	0.1	1.0	1.1	0.6	6.1	6.7	2.6	28.1	30.7
पिथौरागढ़	Pithoragarh	0	0	0	0.7	9.9	10.6	2.4	38.0	40.4
रूद्रप्रयाग	Rudraprayag	0	0	0	0.2	6.6	6.8	0.7	25.2	25.9
टिहरी गढ़वाल	Tehri Garhwal	0.1	1.5	1.6	1.0	20.2	21.2	2.6	65.9	68.5
ऊधमसिंहनगर	Udham Singh Nagar	1.6	8.5	10.1	11.2	56.4	67.6	12.6	70.7	83.3
उत्तरकाशी	Uttarkashi	0	0.3	0.3	0.3	5.5	5.9	0.9	23.7	24.6

Zero denotes either nil or negligible.

SOURCE: Livestock Population Breedwise, Based on Breed Survey, 2013, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture and Farmers Welfare, Govt. of India.

NOTE: Breed includes both pure and Graded.



भाग III : गाय और भैंस की नस्लें

PART III : CATTLE AND BUFFALO BREEDS

उत्तराखण्ड में “बद्री” एक मात्र मान्यता प्राप्त मूल नस्ल है। पहले इसे “पहाड़ी” गाय के नाम से जाना जाता था। यह आकार में छोटी और इनका रंग लाल होता है। इसका औसत वजन 200 से 250 किलोग्राम होता है। इसके पैर छोटे होते हैं जो कि पहाड़ियों और घाटियों में चलने के लिए अनुकूल होते हैं।

इस नस्ल को बहुत कम देखभाल की आवश्यकता होती है और इसकी प्रतिरोधक क्षमता उत्तम होती है। आमतौर पर ये गायें जड़ी-बूटियों और झाड़ियों की चराई करती हैं जिसमें औषधीय तत्व भरपूर मात्रा में पाये जाते हैं। ये गायें प्रतिदिन सामान्यतया 1 किलोग्राम दूध का उत्पादन करती हैं जोकि औषधीय/जैविक तत्व युक्त और सुपाच्य भी होता है, यहाँ तक की इस गाय के मूत्र और गोबर का इस्तेमाल मनुष्यों की विभिन्न बीमारियों के उपचार के लिए किया जाता है। इसलिए चंपावत जिले के नारियाल गांव में 137 गायों वाला एक पशु प्रजनन केंद्र खोला गया है। पहाड़ों पर सीढ़ीनुमा खेतों में खेती के लिए बद्री नस्ल के बैलों को पाला जाता है।

उपर्युक्त बद्री प्रजनन केंद्र के अतिरिक्त राज्य में दो अन्य प्रजनन फार्म – कलसी में “गाय प्रजनन फार्म” और चमोली जिले के भरारीसैन में “विदेश गाय प्रजनन फार्म” है। उत्तराखण्ड पशुधन विकास बोर्ड इन फार्मों का प्रबंधन कर रहा है।

“Badri” is the only recognised native breed of Uttarakhand. It was earlier known as “Pahadi” cow. It has red coat colour and is of smaller size with an average weight of 200 to 250 kg. The legs are small which help them to walk easily through hills and valley.

This breed requires minimal care and is blessed with a strong immunity. It grazes only on herbs and shrubs which have rich medicinal content. While its yield is only 1kg per day, the milk is easily digestible and has high medical/organic value. Even the urine and dung of this cow are used for the treatment of various disorders of human being. Hence, a cattle breeding centre with 137 cows has been opened in Champawat district’s Nariyal village. The bull of the Badri breed is reared for terrace farming in the hills.

In addition to above Badri breeding centre, the State has two other breeding farms – “Cattle Breeding Farm” at Kalsi and “Exotic Cattle Breeding Farm” at Bhararisain in Chamoli district. These farms are managed by Uttarakhand Livestock Development Board.





III.1. उत्तराखण्ड में देसी नस्लों का वितरण (Distribution of Native Breeds in Uttarakhand)

TABLE III.1.1: उत्तराखण्ड में गाय की नस्लों का वितरण (Distribution of Cattle Breed in Uttarakhand)

नस्ल Breed	प्रजनन क्षेत्र Breeding Tract	उपयोगिता Utility
बद्री Badri	नैनीताल, अल्मोडा, बागेश्वर, पिथौरागढ़, चम्पावत, पौड़ी गढ़वाल, टिहरी गढ़वाल, रुद्रप्रयाग, उत्तरकाशी तथा चमोली Nainital, Almora, Bageshwar, Pithoragarh, Champawat, Pauri Garhwal, Tehri Garhwal, Rudraprayag, Uttarkashi and Chamoli	दूध तथा भार वहन Milk and Draught

SOURCE: Animal Genetic Resources of India (AGRI-IS), National Bureau of Animal Genetic Resources, ICAR.





Distribution of Indigenous Cattle Breeds



■ Hariana



■ Red Sindhi



Distribution of Indigenous Cattle Breeds



■ Sahiwal

Distribution of Buffalo Breeds



■ Bhadawari



Distribution of Buffalo Breeds



■ Murrah

Distribution of Jersey Crossbred



■ Jersey Crossbred

**Distribution of Holstein Friesian Crossbred**

■ Holstein Friesian Crossbred

III.2. मुख्य नस्लों का प्रदर्शन (Performance of Major Breed)**TABLE III.2.1: स्थानीय गोवंशीय नस्लों का प्रदर्शन (Performance of Native Cattle Breed)**

मापदंड Parameter	गाय Cattle
	बद्री Badri
रंग Colour	काली, भूरी तथा धूसर। कुछ गायों का रंग सफेद भी होता है। Black, Brown, or Grey. Some of the females are also white in colour
वयस्क शरीर का औसत वजन (किया) Average Adult Body Weight (Kg)	नर Male: 257 मादा Female: 231
दुग्धकाल उत्पादकता (किया) Lactation Yield (Kg)	632 (547-657)
ब्यात अंतराल (दिन) Calving Interval (days)	402 (390-450)
प्रथम ब्यात आयु (दिन) Age at First Calving (days)	1,470 (1,260-1,680)
औसत दुग्ध फैट (%) Average Milk Fat (%)	4

SOURCE: Animal Genetic Resources of India (AGRI-IS), National Bureau of Animal Genetic Resources, ICAR.

भाग IV : दूध उत्पादन

PART IV : MILK PRODUCTION

वर्ष 2016-17 को समाप्त हुए दशक में उत्तराखण्ड का गौ-महिषवंशीय दुग्ध उत्पादन 3 प्रतिशत वार्षिक चक्रवृद्धि वृद्धि दर के साथ ही 16 लाख मीट्रिक टन के स्तर पर पहुँच गया। यह वृद्धि मुख्यतया संकर नस्ल की गायों के दूध उत्पादन में बढ़ोतरी के कारण हुई है जो कि 2005-06 के 1.9 लाख टन से बढ़कर 2015-16 में 5.76 लाख टन हो चुका है। दूसरी तरफ इसी दशक में देशी गायों और भैंसों का दूध उत्पादन क्रमशः 2.8 लाख टन और 7.5 लाख टन पर लगभग स्थिर रहा है।

कुल दुग्ध उत्पादन का लगभग 80 प्रतिशत आठ जिलों हरिद्वार, ऊधमसिंह नगर, नैनीताल, देहरादून, अल्मोड़ा, पिथौरागढ़, पौड़ी गढ़वाल और टिहरी गढ़वाल जिले में होता है। इसी के साथ यह ध्यान देने योग्य बात है की केवल 2 जिले हरिद्वार और ऊधम सिंह नगर परस्पर मिलकर राज्य के कुल दूध उत्पादन का लगभग 35 प्रतिशत दूध उत्पादित करते हैं।

During the decade ending 2016-17, Bovine milk production in Uttarakhand increased at CAGR of about 3 per cent and was 16 lakh tonnes (LT) in 2016-17. Almost the entire rise was due to increase in cross-bred milk production which rose from 1.9 LT in 2005-06 to 5.76 LT in 2015-16 whereas milk production from indigenous cows and buffaloes remained stagnant at about 2.8 LT and 7.5 LT respectively.

About 80 per cent of milk is produced in eight districts comprising of Haridwar, Udham Singh Nagar, Nainital, Dehradun, Almora, Pithoragarh, Pauri Garhwal & Tehri Garhwal districts. It may be worthwhile to note that just 2 districts- Haridwar and U.S.Nagar together produces about 35 per cent of total milk production of the State.





IV.1. उत्पादन प्रदर्शन (Production Performance)

**TABLE IV.1.1: वर्षवार गौ-महिषवंशीय पशु संख्या, दुग्ध उत्पादकता और दूध उत्पादन
(Year-wise In-milk Bovine population, Milk Yield and Milk Production)**

वर्ष Year	दूध मे गौ-महिषवंशीय पशु In-milk Bovine ('000)	दुग्ध उत्पादकता Milk Yield (kg/day)	गौ-महिषवंशीय दुग्ध उत्पादन Bovine Milk Production ('000 MT)
2001-02	887	3.29	1,066
2002-03	890	3.32	1,079
2003-04	943	3.45	1,188
2004-05	963	3.40	1,195
2005-06	969	3.41	1,206
2006-07	972	3.42	1,213
2007-08	975	3.43	1,221
2008-09	979	3.44	1,230
2009-10	1,077	3.50	1,377
2010-11	1,081	3.51	1,383
2011-12	1,093	3.55	1,417
2012-13	1,129	3.59	1,478
2013-14	1,164	3.65	1,551
2014-15	1,093	3.92	1,565
2015-16	1,045	4.21	1,607
2016-17	1,046	4.30	1,641

SOURCE: Various Basic Animal Husbandry Statistics Report, Ministry of Agriculture and Farmers Welfare, Govt. of India.



IV.1. उत्पादन प्रदर्शन: पशु संख्या (Production Performance: Animal Population)

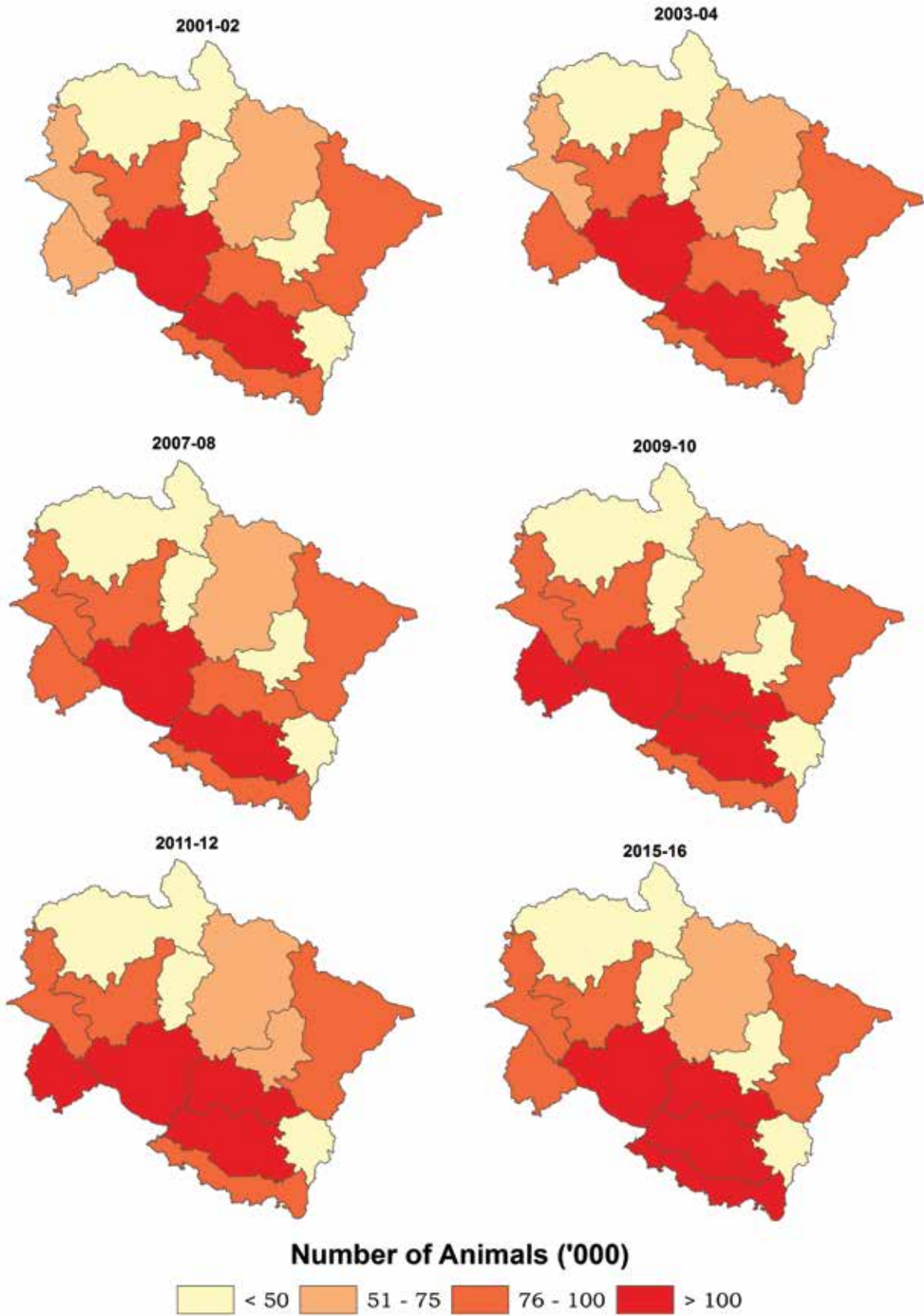
TABLE IV.1.2: वर्ष तथा जिलेवार गौ-महिषवंशीय संख्या - दूध में
(Year-wise & District-wise In-milk Bovine Population)

जिले	Districts	गौ-महिषवंशीय संख्या - दूध में In-milk Bovine Population ('000)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	887	890	943	964	968	972	976	1,077	1,081	1,093	1,093	1,045
अल्मोडा	Almora	93.2	93.4	91.6	94.1	94.4	94.9	95.1	126.7	126.8	128.9	115.1	100.4
बागेश्वर	Bageshwar	42.3	42.4	42.9	45.1	44.1	44.3	44.4	49.9	50.3	51.3	49.5	47.4
चमोली	Chamoli	65.9	66.1	70.2	71.7	72.3	72.6	72.7	71.8	72.0	72.5	69.5	66.8
चम्पावत	Champawat	27.3	27.4	33.8	34.6	34.9	35.2	35.3	41.8	42.4	43.5	42.7	41.4
देहरादून	Dehradun	66.4	66.8	71.7	74.5	74.8	75.2	75.4	78.5	78.8	79.5	89.2	86.6
हरिद्वार	Haridwar	112.6	112.9	130.4	133.8	134.2	134.0	134.5	132.0	131.5	131.9	139.2	139.7
नैनीताल	Nainital	59.3	59.9	75.9	72.2	75.5	76.2	75.9	101.2	101.8	103.3	103.2	98.2
पौड़ी गढ़वाल	Pauri Garhwal	104.9	105.2	108.3	110.4	110.9	111.3	111.3	114.1	114.2	114.2	113.5	108.3
पिथौरागढ़	Pithoragarh	76.4	76.6	82.3	84.3	84.9	85.5	85.8	91.4	91.9	92.5	93.6	86.4
रूद्रप्रयाग	Rudraprayag	35.4	35.5	40.4	41.2	41.5	41.6	41.7	45.8	46.4	47.5	42.4	40.9
टिहरी गढ़वाल	Tehri Garhwal	81.5	81.7	75.6	77.1	77.8	78.3	78.4	84.8	85.2	86.0	80.5	77.0
ऊधमसिंहनगर	Udham Singh Nagar	80.1	80.3	83.3	85.6	85.8	85.9	86.0	97.5	97.8	99.4	112.0	111.3
उत्तरकाशी	Uttarkashi	41.8	41.9	36.3	37.3	37.5	37.4	38.4	41.9	41.7	42.7	42.7	40.5

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise In-milk Bovine Population





IV.1. उत्पादन प्रदर्शन: पशु संख्या (Production Performance: Animal Population)

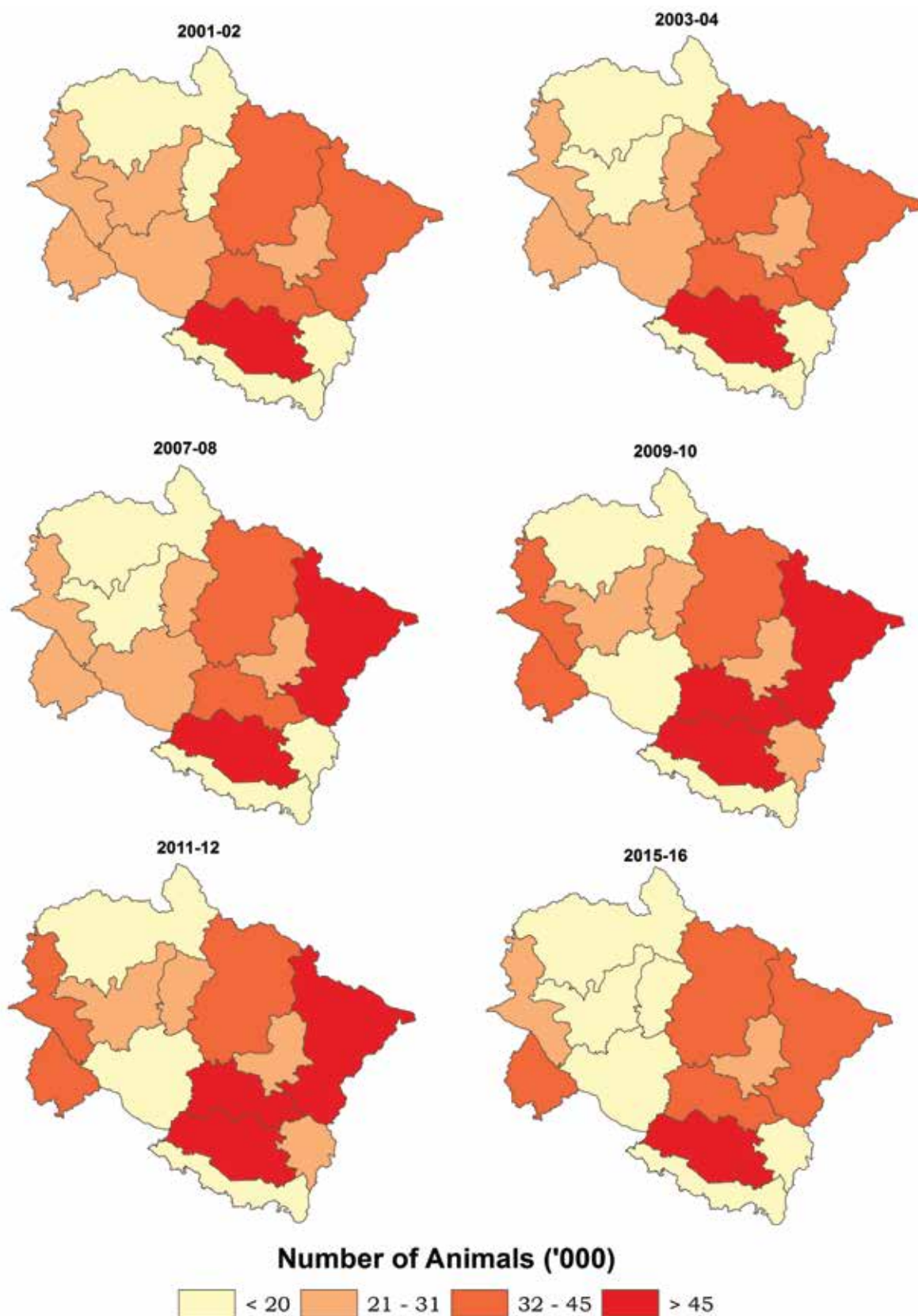
**TABLE IV.1.3: वर्ष तथा जिलेवार देशी गाय संख्या - दूध में
(Year-wise & District-wise In-milk Indigenous Cattle Population)**

जिले	Districts	देशी गाय संख्या - दूध में In-milk Indigenous Cattle Population ('000)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	390	391	385	393	394	395	397	438	439	445	407	368
अल्मोडा	Almora	41.5	41.6	40.7	41.5	41.6	41.7	41.8	56.5	56.5	57.5	49.5	39.4
बागेश्वर	Bageshwar	22.2	22.3	21.2	22.1	21.7	21.7	21.7	24.0	24.2	24.8	23.5	22.3
चमोली	Chamoli	35.5	35.6	38.8	39.4	39.3	39.3	39.3	41.1	41.4	41.8	39.3	37.7
चम्पावत	Champawat	15.2	15.2	16.6	17.0	17.0	17.1	17.1	21.1	21.4	22.1	20.0	18.1
देहरादून	Dehradun	30.9	31.0	28.4	29.7	29.7	29.8	29.8	31.2	31.2	31.7	30.6	26.0
हरिद्वार	Haridwar	28.2	28.2	25.1	26.7	26.9	27.0	27.0	17.8	17.6	17.0	16.8	15.8
नैनीताल	Nainital	24.8	24.9	25.0	23.9	24.2	24.4	25.4	36.6	36.7	37.5	32.9	30.3
पौड़ी गढ़वाल	Pauri Garhwal	69.7	69.9	80.2	81.0	81.3	81.4	81.3	82.8	82.8	82.9	79.3	74.4
पिथौरागढ़	Pithoragarh	44.3	44.4	44.6	45.6	45.7	45.7	45.8	49.1	49.4	50.2	44.5	38.4
रूद्रप्रयाग	Rudraprayag	17.9	18.0	20.3	20.7	20.6	20.7	20.6	22.4	22.5	22.9	20.4	18.8
टिहरी गढ़वाल	Tehri Garhwal	26.9	26.9	16.6	16.9	17.1	17.2	17.1	23.0	22.9	23.9	18.7	18.1
ऊधमसिंहनगर	Udham Singh Nagar	14.3	14.3	13.1	13.9	14.0	14.1	14.1	15.5	15.5	16.1	15.0	12.7
उत्तरकाशी	Uttarkashi	18.2	18.2	14.7	15.1	15.2	15.2	15.2	16.8	16.7	16.9	16.3	15.7

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise In-milk Indigenous Cattle Population





IV.1. उत्पादन प्रदर्शन: पशु संख्या (Production Performance: Animal Population)

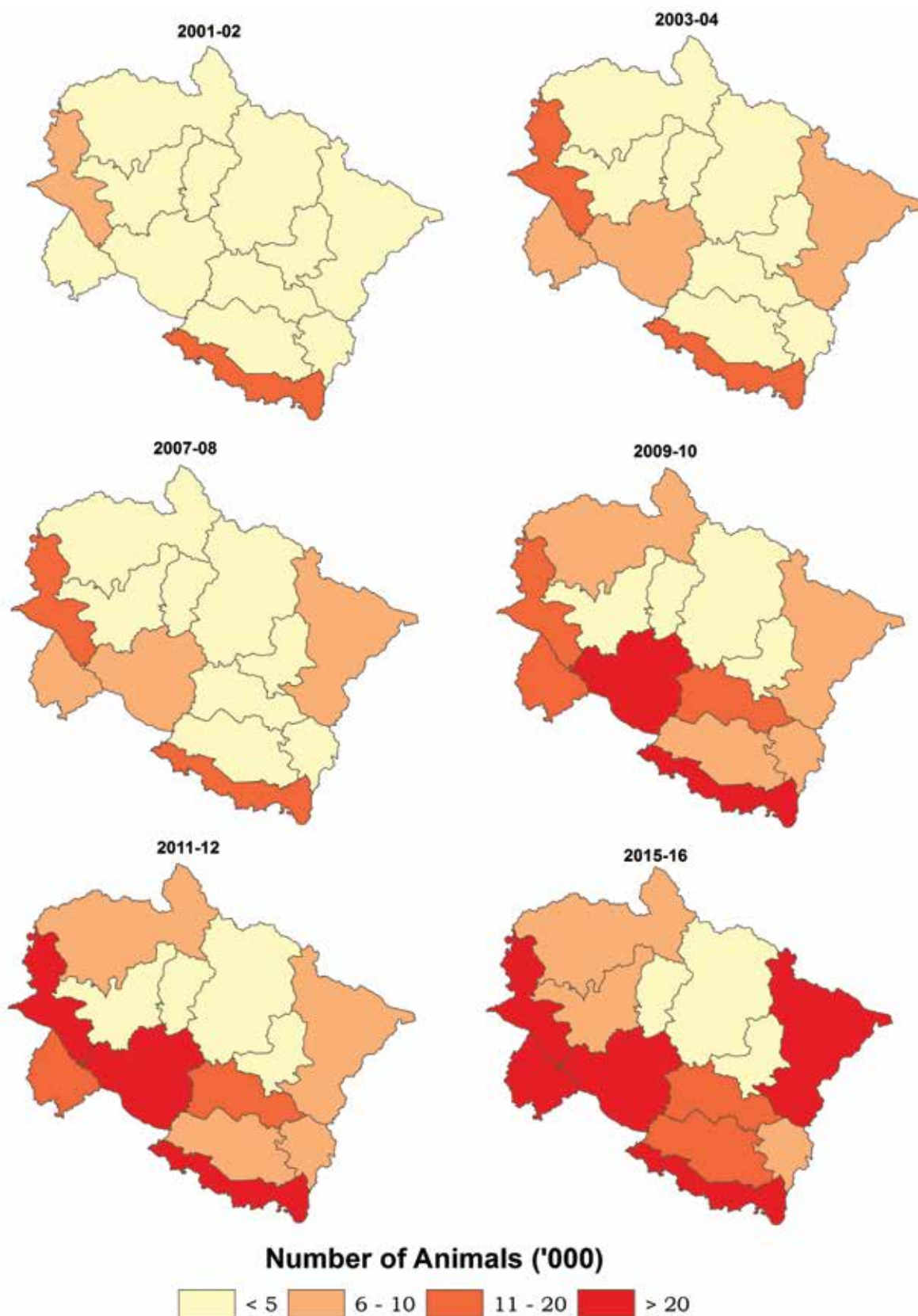
**TABLE IV.1.4: वर्ष तथा जिलेवार संकर नस्ल गाय संख्या - दूध में
(Year-wise & District-wise In-milk Crossbred Cattle Population)**

जिले	Districts	संकर नस्ल गाय संख्या - दूध में In-milk Crossbred Cattle Population ('000)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	40	41	72	76	77	79	79	126	127	132	203	221
अल्मोडा	Almora	1.1	1.1	2.9	3.0	3.1	3.2	3.3	10.1	10.2	10.6	12.1	13.1
बागेश्वर	Bageshwar	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.8	0.9	0.9	2.7	2.9
चमोली	Chamoli	2.4	2.4	2.4	2.4	2.8	2.9	2.9	2.1	2.1	2.3	4.4	4.9
चम्पावत	Champawat	1.2	1.2	3.3	3.4	3.6	3.7	3.8	5.5	5.8	6.1	9.2	9.9
देहरादून	Dehradun	6.8	7.2	14.2	14.6	14.8	15.1	15.2	19.2	19.4	20.1	32.1	34.9
हरिद्वार	Haridwar	3.7	3.7	8.3	8.5	8.6	8.7	8.6	22.6	22.8	23.3	33.7	37.4
नैनीताल	Nainital	0.9	1.0	9.0	10.3	10.4	10.5	8.8	16.8	17.3	18.2	24.5	27.0
पौड़ी गढ़वाल	Pauri Garhwal	1.2	1.2	2.9	3.5	3.4	3.6	3.6	7.4	7.4	7.7	12.0	13.0
पिथौरागढ़	Pithoragarh	2.9	2.9	7.2	7.3	7.7	8.0	8.2	8.8	8.9	9.2	18.8	20.2
रूद्रप्रयाग	Rudraprayag	0.3	0.3	0.5	0.5	0.6	0.6	0.6	0.9	0.9	1.1	3.2	3.6
टिहरी गढ़वाल	Tehri Garhwal	0.2	0.2	0.4	0.4	0.4	0.4	0.5	0.9	1.0	1.2	4.9	5.2
ऊधमसिंहनगर	Udham Singh Nagar	17.5	17.6	17.2	17.7	17.8	18.0	17.8	24.8	25.1	25.5	37.1	39.8
उत्तरकाशी	Uttarkashi	1.8	1.8	3.6	3.7	3.8	3.6	4.6	6.0	5.7	6.1	8.8	9.3

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise In-milk Crossbred Cattle Population





IV.1. उत्पादन प्रदर्शन: पशु संख्या (Production Performance: Animal Population)

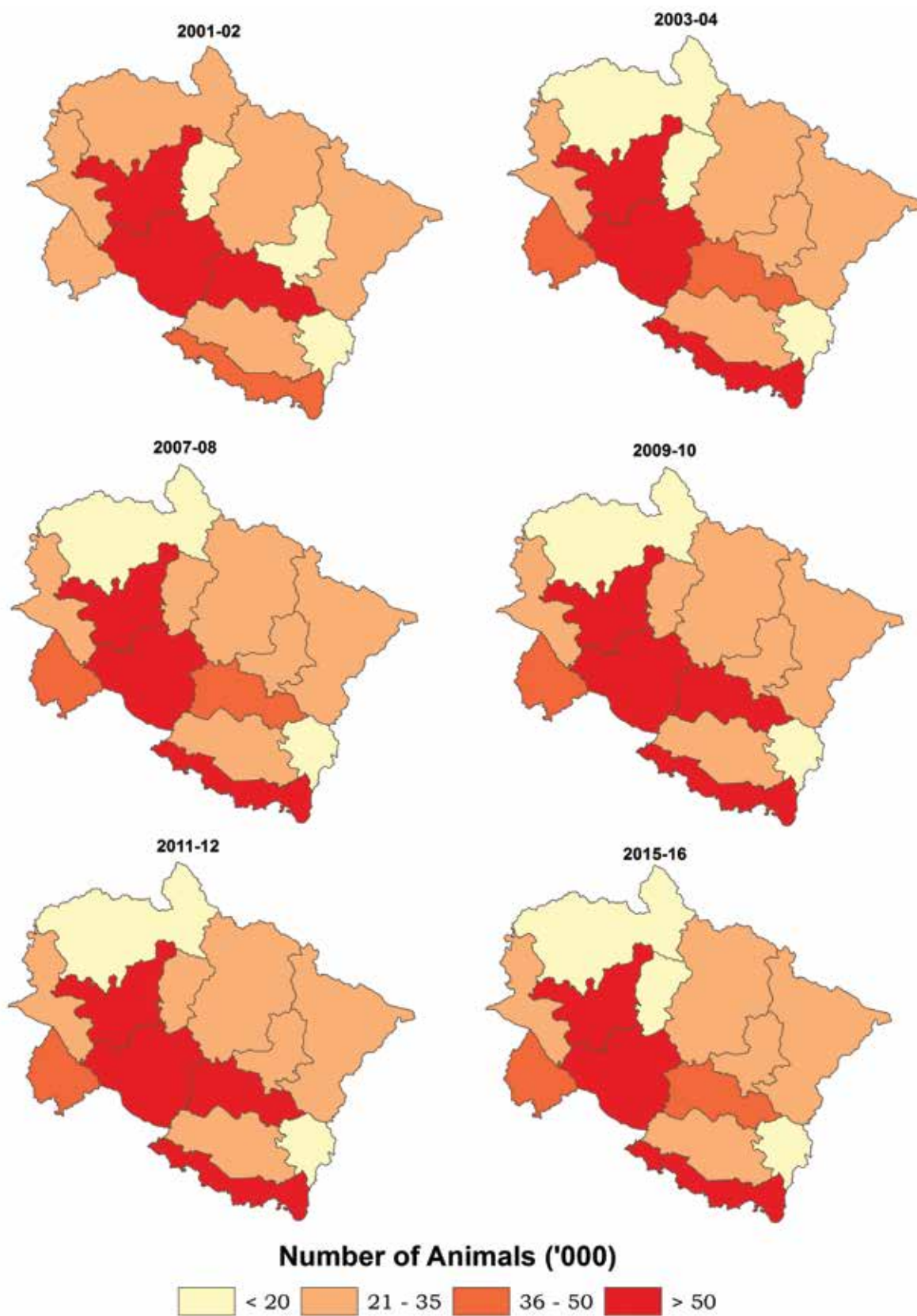
TABLE IV.1.5: वर्ष तथा जिलेवार भैंस पशु संख्या - दूध में
(Year-wise & District-wise In-milk Buffalo Population)

जिले	Districts	भैंस पशु संख्या - दूध में In-milk Buffalo Population ('000)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	458	459	485	494	497	498	500	513	514	515	483	456
अल्मोडा	Almora	50.5	50.6	48.0	49.5	49.6	50.0	50.0	60.0	60.0	60.8	53.5	47.9
बागेश्वर	Bageshwar	20.0	20.1	21.2	22.5	21.9	22.1	22.1	25.1	25.2	25.6	23.3	22.2
चमोली	Chamoli	27.9	28.1	29.1	29.9	30.2	30.4	30.4	28.5	28.5	28.3	25.8	24.2
चम्पावत	Champawat	11.0	11.0	13.8	14.2	14.3	14.4	14.4	15.1	15.2	15.3	13.5	13.4
देहरादून	Dehradun	28.7	28.6	29.1	30.3	30.3	30.4	30.4	28.2	28.2	27.7	26.4	25.7
हरिद्वार	Haridwar	80.8	81.0	97.0	98.6	98.7	98.3	98.8	91.6	91.2	91.5	88.7	86.5
नैनीताल	Nainital	33.6	34.0	41.9	38.1	40.9	41.2	41.7	47.8	47.8	47.6	45.8	41.0
पौड़ी गढ़वाल	Pauri Garhwal	34.0	34.2	25.2	25.9	26.2	26.3	26.4	23.9	23.9	23.6	22.2	20.9
पिथौरागढ़	Pithoragarh	29.1	29.2	30.5	31.4	31.5	31.8	31.8	33.6	33.6	33.1	30.3	27.8
रूद्रप्रयाग	Rudraprayag	17.2	17.3	19.5	20.0	20.2	20.3	20.4	22.5	23.0	23.6	18.8	18.5
टिहरी गढ़वाल	Tehri Garhwal	54.5	54.6	58.6	59.8	60.3	60.7	60.8	61.0	61.3	60.9	56.9	53.7
ऊधमसिंहनगर	Udham Singh Nagar	48.3	48.4	53.1	54.0	54.0	53.8	54.1	57.2	57.1	57.8	59.9	58.8
उत्तरकाशी	Uttarkashi	21.9	21.9	18.0	18.5	18.5	18.6	18.6	19.1	19.4	19.6	17.6	15.5

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise In-milk Buffalo Population





IV.2. उत्पादन प्रदर्शन: दुग्ध उत्पादकता (Production Performance: Milk Yield)

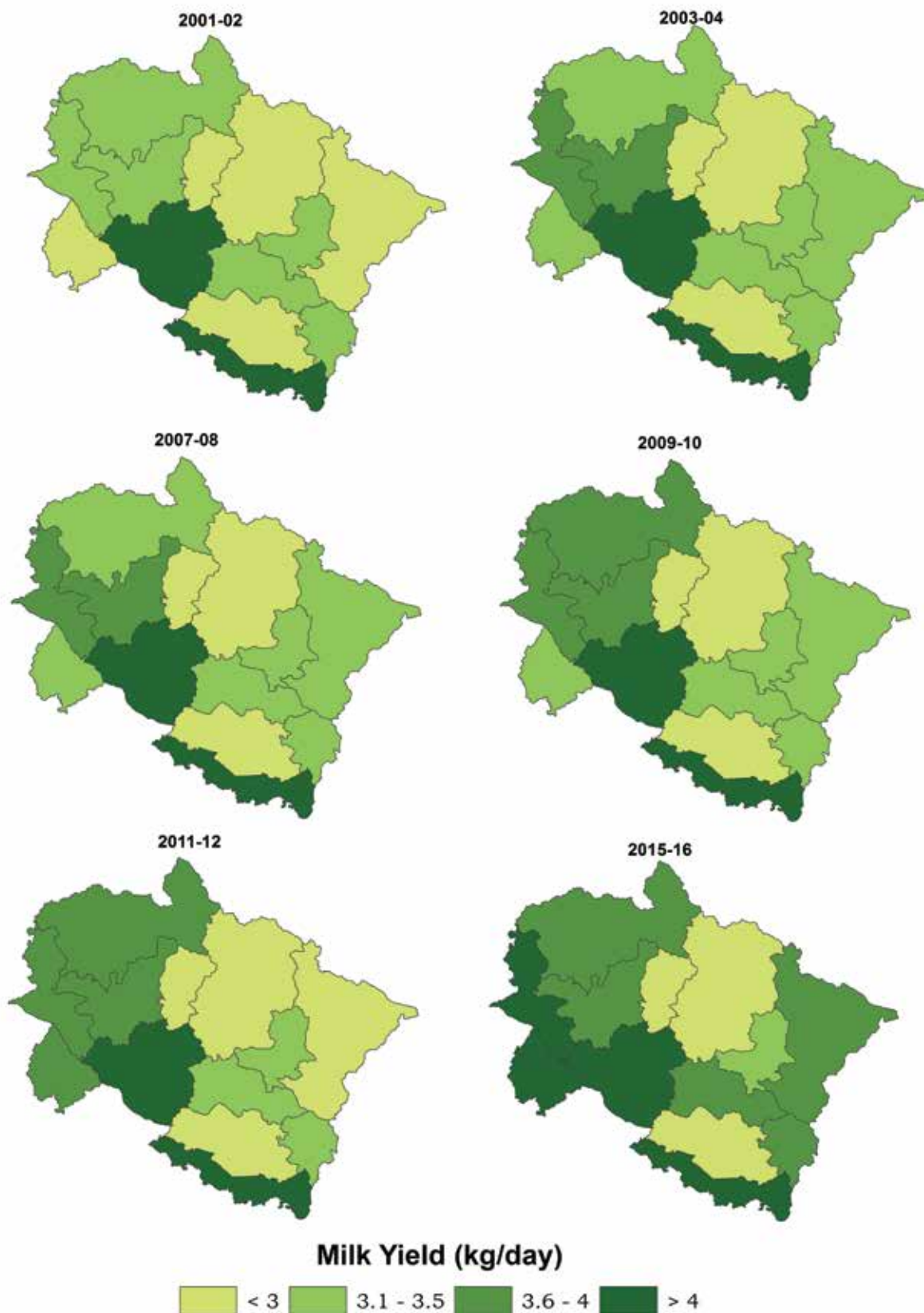
TABLE IV.2.1: वर्ष तथा जिलेवार गौ-महिषवंशीय दुग्ध उत्पादकता
(Year-wise & District-wise In-milk Bovine Milk Yield)

जिले	Districts	गौ-महिषवंशीय दुग्ध उत्पादकता In-milk Bovine Milk Yield (kg/day)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	3.29	3.32	3.44	3.40	3.41	3.42	3.42	3.50	3.51	3.54	3.92	4.21
अल्मोडा	Almora	3.34	3.35	3.23	3.19	3.19	3.19	3.19	3.27	3.28	3.29	3.49	3.79
बागेश्वर	Bageshwar	3.08	3.09	3.06	3.03	3.02	3.02	3.03	3.03	3.01	3.04	3.24	3.33
चमोली	Chamoli	2.78	2.82	2.81	2.77	2.80	2.81	2.80	2.69	2.63	2.65	2.78	2.86
चम्पावत	Champawat	3.06	3.07	3.22	3.19	3.20	3.21	3.21	3.18	3.15	3.18	3.50	3.62
देहरादून	Dehradun	3.10	3.14	3.57	3.57	3.58	3.61	3.62	3.78	3.83	3.89	4.52	4.98
हरिद्वार	Haridwar	4.04	4.08	4.33	4.22	4.21	4.24	4.26	4.67	4.71	4.76	5.12	5.74
नैनीताल	Nainital	2.97	3.03	3.45	3.40	3.43	3.41	3.36	3.47	3.51	3.58	4.18	4.43
पौड़ी गढ़वाल	Pauri Garhwal	2.47	2.52	2.42	2.39	2.40	2.41	2.41	2.51	2.51	2.54	2.73	2.85
पिथौरागढ़	Pithoragarh	2.98	3.00	3.07	3.04	3.05	3.06	3.06	3.02	2.97	2.98	3.43	3.68
रूद्रप्रयाग	Rudraprayag	2.77	2.82	2.85	2.82	2.83	2.84	2.83	2.78	2.72	2.76	2.90	2.98
टिहरी गढ़वाल	Tehri Garhwal	3.38	3.39	3.64	3.65	3.68	3.67	3.63	3.53	3.56	3.58	3.84	3.94
ऊधमसिंहनगर	Udham Singh Nagar	4.75	4.79	4.84	4.74	4.73	4.76	4.80	4.95	4.96	5.01	5.48	5.80
उत्तरकाशी	Uttarkashi	3.22	3.24	3.42	3.43	3.45	3.43	3.47	3.52	3.55	3.58	3.76	3.87

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise In-milk Bovine Milk Yield





IV.2. उत्पादन प्रदर्शन: दुग्ध उत्पादकता (Production Performance: Milk Yield)

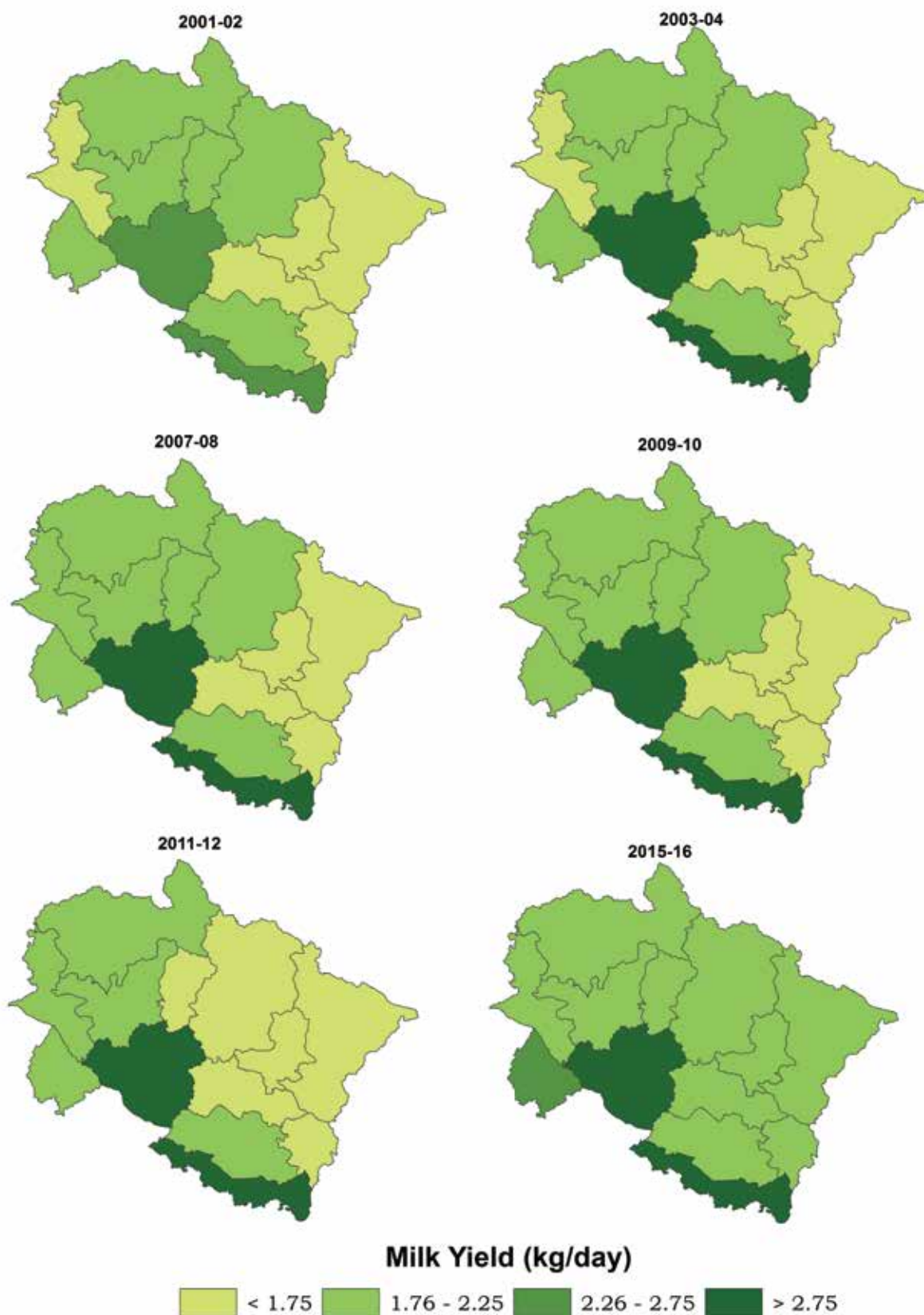
TABLE IV.2.2: वर्ष तथा जिलेवार देशी गाय दुग्ध उत्पादकता
(Year-wise & District-wise In-milk Indigenous Cattle Milk Yield)

जिले	Districts	देशी गाय दुग्ध उत्पादकता In-milk Indigenous Cattle Milk Yield (kg/day)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	1.87	1.90	1.90	1.89	1.89	1.89	1.89	1.87	1.88	1.90	1.97	2.08
अल्मोडा	Almora	1.67	1.68	1.70	1.71	1.71	1.70	1.70	1.71	1.72	1.72	1.82	1.92
बागेश्वर	Bageshwar	1.67	1.69	1.70	1.71	1.71	1.70	1.70	1.70	1.71	1.74	1.81	1.88
चमोली	Chamoli	1.79	1.83	1.84	1.77	1.79	1.80	1.80	1.77	1.73	1.75	1.79	1.80
चम्पावत	Champawat	1.67	1.69	1.70	1.71	1.71	1.70	1.70	1.69	1.68	1.71	1.78	1.80
देहरादून	Dehradun	1.71	1.74	1.75	1.76	1.76	1.77	1.77	1.80	1.82	1.87	1.95	2.22
हरिद्वार	Haridwar	2.75	2.76	2.76	2.76	2.83	2.83	2.84	2.86	2.89	2.91	3.02	3.57
नैनीताल	Nainital	1.99	2.01	2.07	2.04	2.03	2.05	2.06	2.12	2.14	2.18	2.41	2.63
पौड़ी गढ़वाल	Pauri Garhwal	1.79	1.83	1.84	1.77	1.79	1.80	1.80	1.81	1.81	1.83	1.86	1.91
पिथौरागढ़	Pithoragarh	1.67	1.69	1.70	1.71	1.71	1.70	1.70	1.68	1.67	1.69	1.73	1.84
रूद्रप्रयाग	Rudraprayag	1.79	1.84	1.84	1.77	1.79	1.80	1.80	1.77	1.73	1.75	1.77	1.77
टिहरी गढ़वाल	Tehri Garhwal	1.86	1.88	1.88	1.88	1.86	1.84	1.84	1.85	1.87	1.92	1.96	1.98
ऊधमसिंहनगर	Udham Singh Nagar	2.75	2.76	2.76	2.76	2.83	2.83	2.84	2.87	2.87	2.90	3.07	3.10
उत्तरकाशी	Uttarkashi	1.86	1.88	1.88	1.89	1.86	1.84	1.84	1.86	1.90	1.92	1.93	1.97

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise In-milk Indigenous Cattle Milk Yield





IV.2. उत्पादन प्रदर्शन: दुग्ध उत्पादकता (Production Performance: Milk Yield)

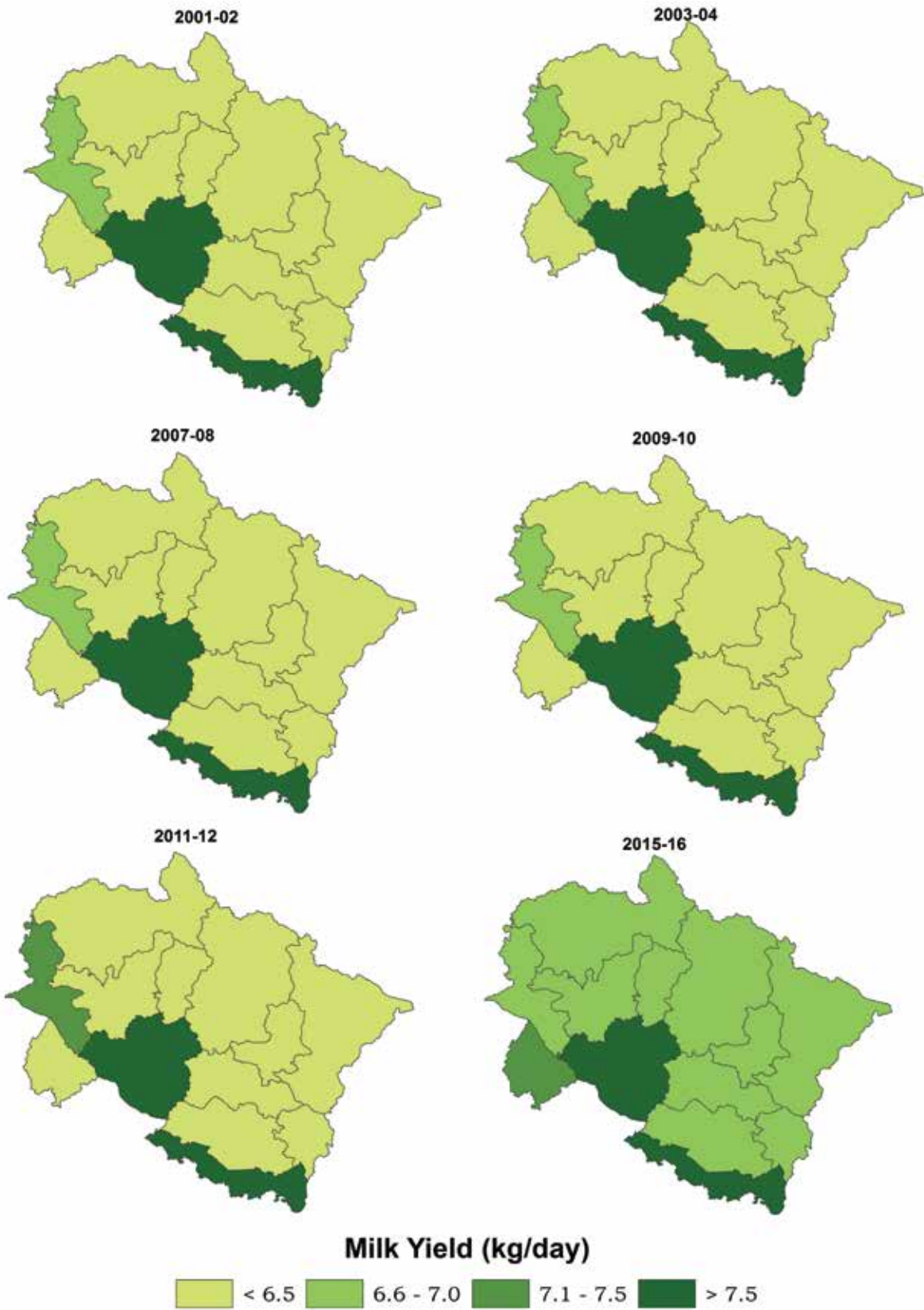
TABLE IV.2.3: वर्ष तथा जिलेवार संकर नस्ल गाय दुग्ध उत्पादकता
(Year-wise & District-wise In-milk Crossbred Cattle Milk Yield)

जिले	Districts	संकर नस्ल गाय दुग्ध उत्पादकता In-milk Crossbred Cattle Milk Yield (kg/day)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	7.00	7.02	6.74	6.67	6.69	6.68	6.74	6.73	6.75	6.79	6.96	7.11
अल्मोडा	Almora	6.35	6.37	6.09	6.12	6.12	6.10	6.07	6.15	6.21	6.21	6.47	6.63
बागेश्वर	Bageshwar	6.19	6.19	6.09	6.11	6.12	6.10	6.07	6.04	6.03	6.08	6.32	6.41
चमोली	Chamoli	6.14	6.16	6.19	6.19	6.19	6.14	6.11	6.14	6.11	6.11	6.22	6.21
चम्पावत	Champawat	6.33	6.35	6.09	6.11	6.12	6.10	6.07	6.10	6.10	6.11	6.23	6.28
देहरादून	Dehradun	6.73	6.77	6.79	6.80	6.81	6.82	6.84	6.90	6.99	7.07	7.33	7.48
हरिद्वार	Haridwar	7.54	7.56	7.57	7.56	7.57	7.56	7.71	7.53	7.54	7.59	7.72	8.01
नैनीताल	Nainital	5.82	5.79	5.89	5.56	5.59	5.58	5.59	5.70	5.75	5.86	6.38	6.56
पौड़ी गढ़वाल	Pauri Garhwal	6.15	6.17	6.19	6.15	6.19	6.14	6.11	6.17	6.18	6.24	6.27	6.49
पिथौरागढ़	Pithoragarh	6.34	6.36	6.09	6.11	6.12	6.10	6.07	6.11	6.00	6.03	6.21	6.24
रूद्रप्रयाग	Rudraprayag	6.10	6.13	6.19	6.19	6.19	6.14	6.11	6.18	5.83	5.83	5.88	5.89
टिहरी गढ़वाल	Tehri Garhwal	6.28	6.21	6.20	6.22	6.24	6.35	6.23	6.23	6.25	6.29	6.33	6.33
ऊधमसिंहनगर	Udham Singh Nagar	7.55	7.56	7.57	7.56	7.57	7.56	7.71	7.57	7.57	7.61	7.74	7.88
उत्तरकाशी	Uttarkashi	6.16	6.20	6.20	6.22	6.24	6.35	6.23	6.24	6.27	6.32	6.35	6.42

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise In-milk Crossbred Cattle Milk Yield





IV.2. उत्पादन प्रदर्शन: दुग्ध उत्पादकता (Production Performance: Milk Yield)

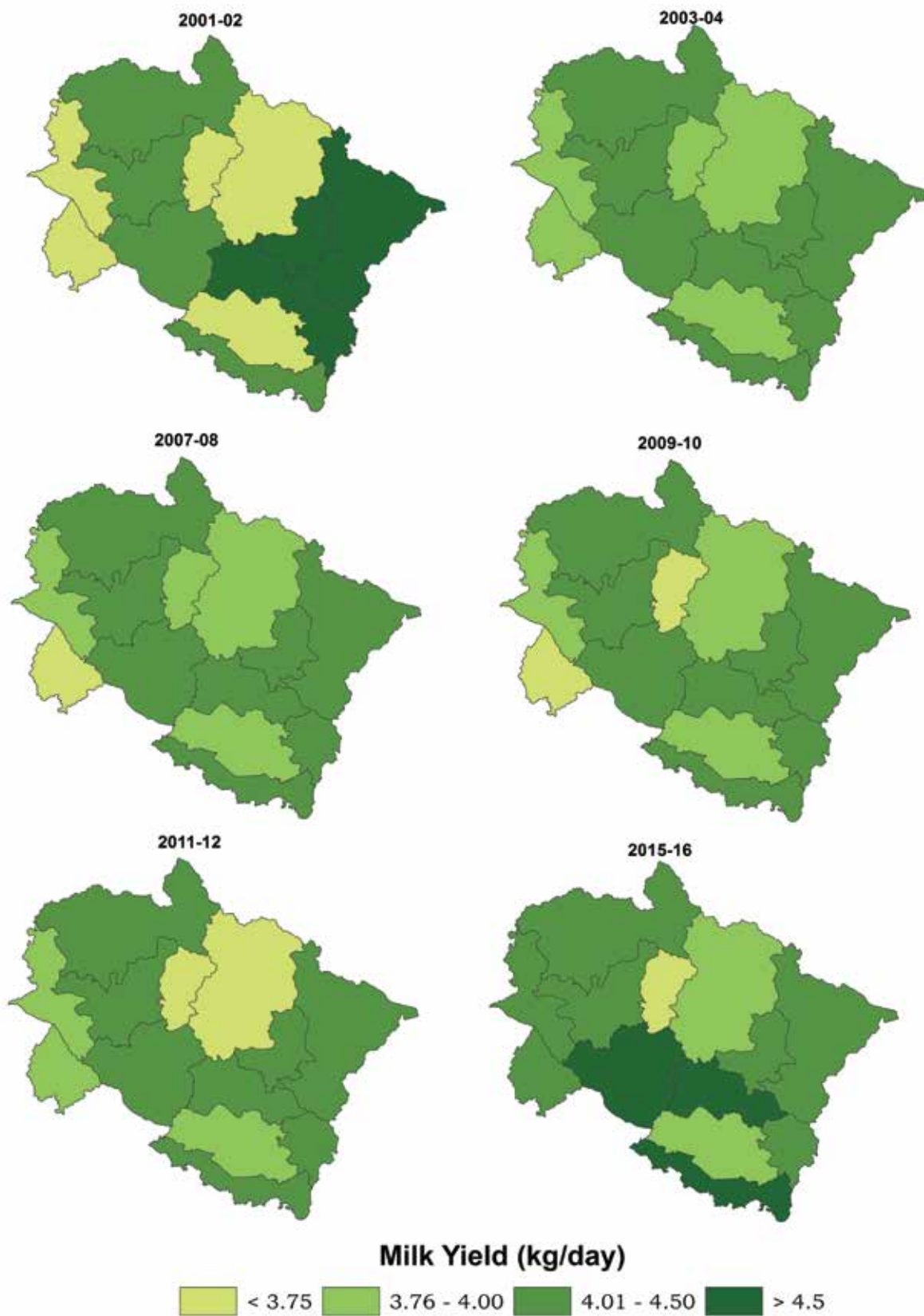
TABLE IV.2.4: वर्ष तथा जिलेवार भैंस दुग्ध उत्पादकता
(Year-wise & District-wise In-milk Buffalo Milk Yield)

जिले	Districts	भैंस दुग्ध उत्पादकता In-milk Buffalo Milk Yield (kg/day)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	4.18	4.21	4.18	4.11	4.11	4.11	4.11	4.10	4.10	4.13	4.29	4.50
अल्मोडा	Almora	4.63	4.65	4.35	4.25	4.24	4.24	4.25	4.25	4.25	4.26	4.36	4.53
बागेश्वर	Bageshwar	4.63	4.65	4.35	4.26	4.24	4.24	4.25	4.20	4.17	4.19	4.32	4.36
चमोली	Chamoli	3.75	3.79	3.82	3.82	3.80	3.79	3.76	3.76	3.67	3.69	3.70	3.80
चम्पावत	Champawat	4.63	4.65	4.35	4.25	4.24	4.24	4.25	4.18	4.08	4.12	4.19	4.08
देहरादून	Dehradun	3.74	3.76	3.78	3.79	3.80	3.81	3.82	3.85	3.87	3.91	4.08	4.33
हरिद्वार	Haridwar	4.34	4.38	4.46	4.32	4.30	4.33	4.35	4.32	4.35	4.38	4.53	5.12
नैनीताल	Nainital	3.62	3.70	3.75	3.68	3.70	3.66	3.67	3.72	3.75	3.80	4.27	4.32
पौड़ी गढ़वाल	Pauri Garhwal	3.75	3.79	3.82	3.82	3.80	3.79	3.76	3.77	3.77	3.82	3.96	3.91
पिथौरागढ़	Pithoragarh	4.63	4.65	4.35	4.25	4.24	4.24	4.25	4.16	4.06	4.09	4.22	4.33
रूद्रप्रयाग	Rudraprayag	3.75	3.79	3.82	3.82	3.80	3.79	3.76	3.66	3.57	3.61	3.63	3.62
टिहरी गढ़वाल	Tehri Garhwal	4.11	4.12	4.12	4.13	4.17	4.16	4.12	4.13	4.15	4.18	4.24	4.35
ऊधमसिंहनगर	Udham Singh Nagar	4.33	4.38	4.46	4.32	4.30	4.33	4.35	4.37	4.39	4.45	4.68	4.95
उत्तरकाशी	Uttarkashi	4.11	4.12	4.12	4.12	4.17	4.16	4.12	4.14	4.16	4.18	4.18	4.24

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise In-milk Buffalo Milk Yield





IV.3. उत्पादन प्रदर्शन: दुग्ध उत्पादन (Production Performance: Milk Production)

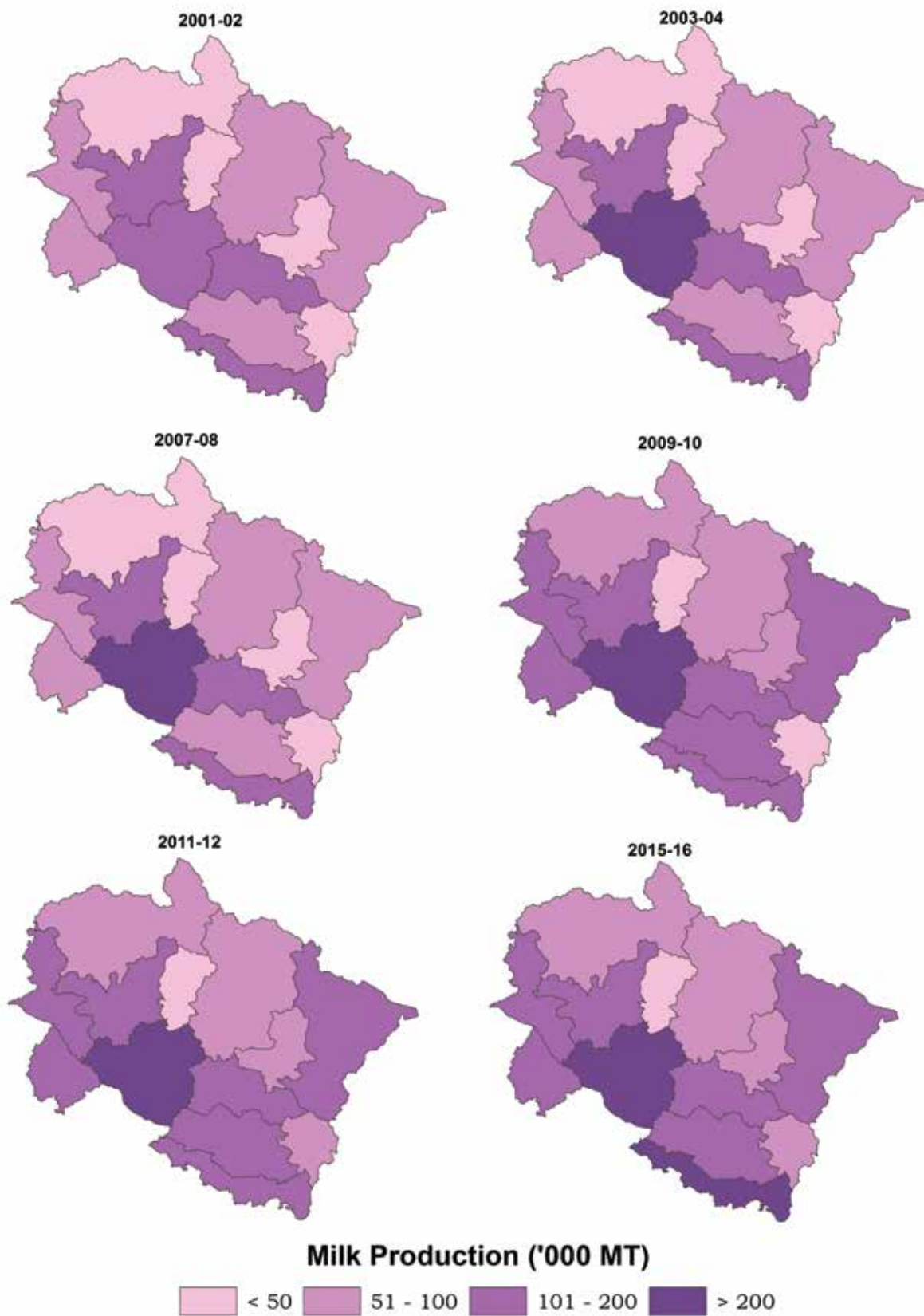
TABLE IV.3.1: वर्ष तथा जिलेवार गौ-महिषवंशीय दुग्ध उत्पादन
(Year-wise & District-wise Bovine Milk Production)

जिले	Districts	गौ-महिषवंशीय दुग्ध उत्पादन Bovine Milk Production ('000 MT)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	1,066	1,079	1,188	1,195	1,206	1,213	1,221	1,377	1,383	1,417	1,565	1,607
अल्मोडा	Almora	113.4	114.1	107.9	109.5	109.7	110.5	110.9	151.0	151.8	155.1	146.6	139.0
बागेश्वर	Bageshwar	47.5	47.8	47.9	49.9	48.5	48.9	49.0	55.1	55.3	57.0	58.5	57.6
चमोली	Chamoli	66.8	68.1	71.9	72.5	73.7	74.4	74.2	70.4	69.0	70.3	70.4	69.8
चम्पावत	Champawat	30.6	30.7	39.7	40.3	40.7	41.2	41.4	48.4	48.5	50.6	54.4	54.6
देहरादून	Dehradun	75.2	76.6	93.3	97.1	97.9	99.0	99.7	108.3	110.1	113.1	147.2	157.4
हरिद्वार	Haridwar	166.2	168.1	206.1	206.0	206.2	207.3	209.3	225.1	226.1	229.6	260.0	292.4
नैनीताल	Nainital	64.3	66.2	95.7	89.7	94.4	94.8	92.9	128	130.3	135.1	157.4	159
पौड़ी गढ़वाल	Pauri Garhwal	94.7	96.6	95.6	96.3	97.2	98.1	97.8	104.4	104.6	106.0	113.2	112.8
पिथौरागढ़	Pithoragarh	83.1	83.7	92.1	93.6	94.5	95.4	95.9	100.8	99.6	100.8	117.3	116
रूद्रप्रयाग	Rudraprayag	35.8	36.5	42.1	42.5	42.9	43.1	43.0	46.5	46.1	48.1	44.9	44.4
टिहरी गढ़वाल	Tehri Garhwal	100.4	100.9	100.4	102.6	104.3	104.7	103.9	109.4	110.7	112.6	112.9	110.8
ऊधमसिंहनगर	Udham Singh Nagar	139.0	140.3	147.2	148.0	148.3	149.3	150.7	176.1	177.0	182.3	224.0	235.6
उत्तरकाशी	Uttarkashi	49.3	49.5	45.3	46.6	47.3	46.9	48.7	53.9	54.0	55.9	58.6	57.2

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise Bovine Milk Production





IV.3. उत्पादन प्रदर्शन: दुग्ध उत्पादन (Production Performance: Milk Production)

**TABLE IV.3.2: वर्ष तथा जिलेवार देशी गाय दुग्ध उत्पादन
(Year-wise & District-wise Indigenous Cattle Milk Production)**

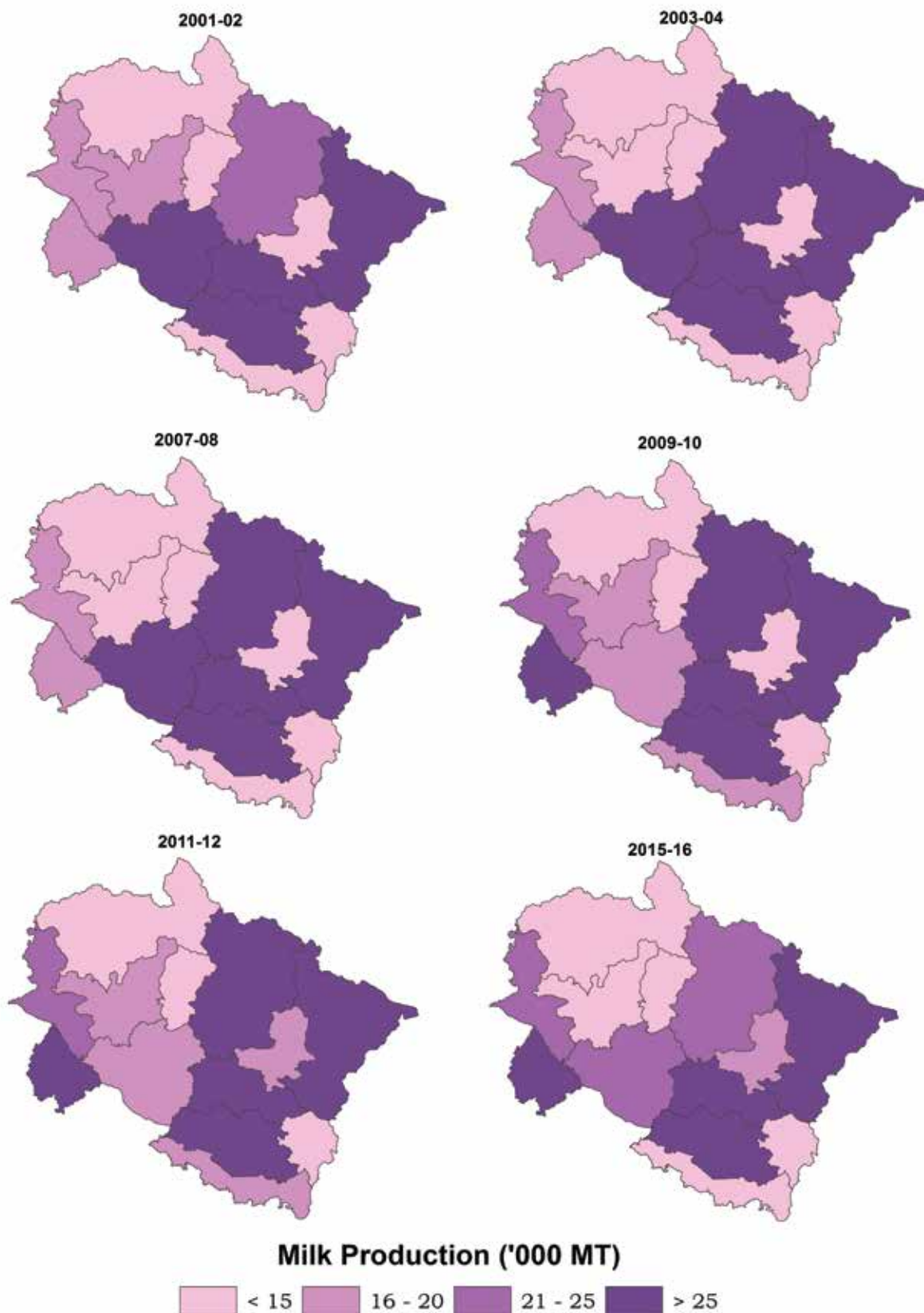
जिले	Districts	देशी गाय दुग्ध उत्पादन Indigenous Cattle Milk Production ('000 MT)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	266	270	267	271	272	273	275	300	301	309	293	280
अल्मोडा	Almora	25.3	25.5	25.2	25.9	26.0	25.9	26.0	35.2	35.5	36.2	32.8	27.7
बागेश्वर	Bageshwar	13.5	13.7	13.1	13.8	13.5	13.5	13.5	14.9	15.1	15.7	15.6	15.3
चमोली	Chamoli	23.2	23.8	26.1	25.5	25.6	25.9	25.9	26.6	26.1	26.8	25.7	24.9
चम्पावत	Champawat	9.3	9.4	10.3	10.6	10.6	10.6	10.6	13.0	13.1	13.8	13.0	11.9
देहरादून	Dehradun	19.3	19.7	18.1	19.0	19.1	19.2	19.3	20.5	20.7	21.6	21.8	21.1
हरिद्वार	Haridwar	28.2	28.4	25.3	26.9	27.8	27.9	28.0	18.6	18.5	18.1	18.5	20.6
नैनीताल	Nainital	17.9	18.3	18.9	17.7	17.9	18.3	19.1	28.3	28.7	29.9	28.9	29.2
पौड़ी गढ़वाल	Pauri Garhwal	45.6	46.7	53.9	52.3	53.1	53.6	53.5	54.8	54.9	55.6	53.7	52.0
पिथौरागढ़	Pithoragarh	27.0	27.4	27.7	28.4	28.5	28.4	28.5	30.2	30.2	31.0	28.1	25.9
रूद्रप्रयाग	Rudraprayag	11.7	12.0	13.7	13.4	13.5	13.6	13.6	14.4	14.2	14.7	13.2	12.2
टिहरी गढ़वाल	Tehri Garhwal	18.3	18.4	11.4	11.6	11.6	11.5	11.5	15.5	15.6	16.8	13.4	13.1
ऊधमसिंहनगर	Udham Singh Nagar	14.3	14.4	13.2	14.0	14.5	14.5	14.6	16.3	16.3	17.1	16.8	14.4
उत्तरकाशी	Uttarkashi	12.4	12.4	10.1	10.4	10.3	10.2	10.2	11.4	11.6	11.9	11.5	11.3

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.

NOTE: Milk production estimated from in-milk animals and yield for the year 2001-02.



District-wise Indigenous Cattle Milk Production





IV.3. उत्पादन प्रदर्शन: दुग्ध उत्पादन (Production Performance: Milk Production)

**TABLE IV.3.3: वर्ष तथा जिलेवार संकर नस्ल गाय दुग्ध उत्पादन
(Year-wise & District-wise Crossbred Cattle Milk Production)**

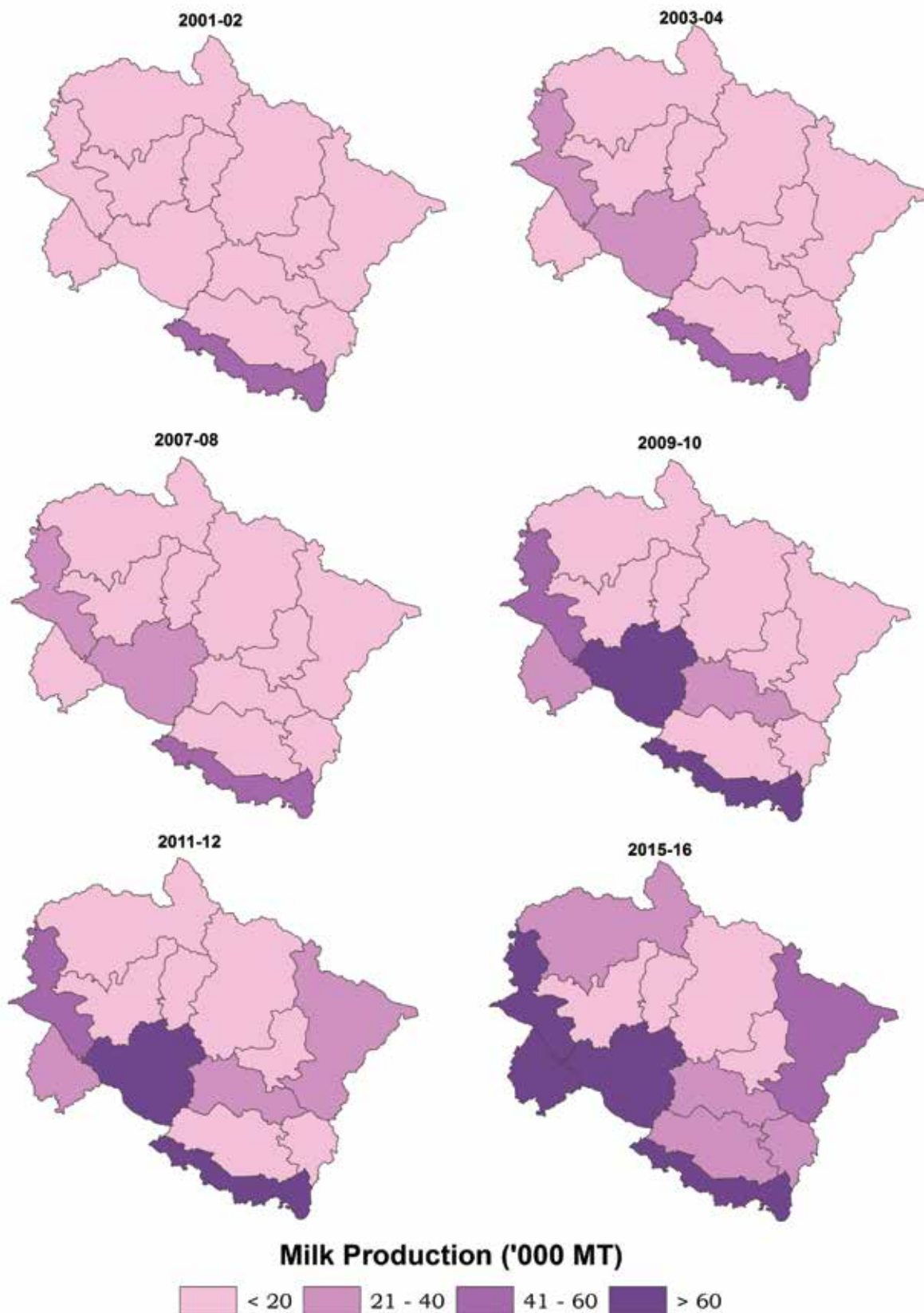
जिले	Districts	संकर नस्ल गाय दुग्ध उत्पादन Crossbred Cattle Milk Production ('000 MT)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	102	104	178	184	189	192	193	309	314	329	517	576
अल्मोडा	Almora	2.6	2.7	6.4	6.7	6.9	7.2	7.3	22.8	23.1	24.2	28.6	31.9
बागेश्वर	Bageshwar	0.1	0.1	1.1	1.1	1.1	1.2	1.2	1.8	1.9	2.1	6.2	6.9
चमोली	Chamoli	5.4	5.5	5.3	5.3	6.2	6.5	6.5	4.8	4.7	5.2	9.9	11.2
चम्पावत	Champawat	2.7	2.7	7.4	7.6	8.0	8.3	8.5	12.3	12.8	13.7	20.8	22.7
देहरादून	Dehradun	16.8	17.7	35.1	36.2	36.8	37.6	38.0	48.3	49.6	51.9	86.0	95.6
हरिद्वार	Haridwar	10.1	10.2	22.9	23.5	23.7	23.9	24.2	62.0	62.8	64.8	95.0	109.6
नैनीताल	Nainital	2.0	2.0	19.3	20.9	21.3	21.5	17.9	34.8	36.2	39.0	57.1	64.9
पौड़ी गढ़वाल	Pauri Garhwal	2.6	2.6	6.6	7.8	7.8	8.1	8.1	16.7	16.8	17.5	27.4	31.0
पिथौरागढ़	Pithoragarh	6.8	6.8	15.9	16.4	17.2	17.8	18.1	19.6	19.5	20.3	42.6	46.0
रूद्रप्रयाग	Rudraprayag	0.6	0.6	1.2	1.2	1.4	1.4	1.4	2.0	2.0	2.2	6.8	7.7
टिहरी गढ़वाल	Tehri Garhwal	0.4	0.4	0.9	0.9	0.9	0.9	1.1	2.1	2.2	2.7	11.3	12.1
ऊधमसिंहनगर	Udham Singh Nagar	48.2	48.5	47.5	48.8	49.1	49.6	50.1	68.6	69.3	71.2	104.9	114.7
उत्तरकाशी	Uttarkashi	4.1	4.1	8.2	8.4	8.8	8.4	10.5	13.6	13.0	14.0	20.3	21.9

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.

NOTE: Milk production estimated from in-milk animals and yield for the year 2001-02.



District-wise Crossbred Cattle Milk Production





IV.3. उत्पादन प्रदर्शन: दुग्ध उत्पादन (Production Performance: Milk Production)

TABLE IV.3.4: वर्ष तथा जिलेवार भैंस दुग्ध उत्पादन
(Year-wise & District-wise Buffalo Milk Production)

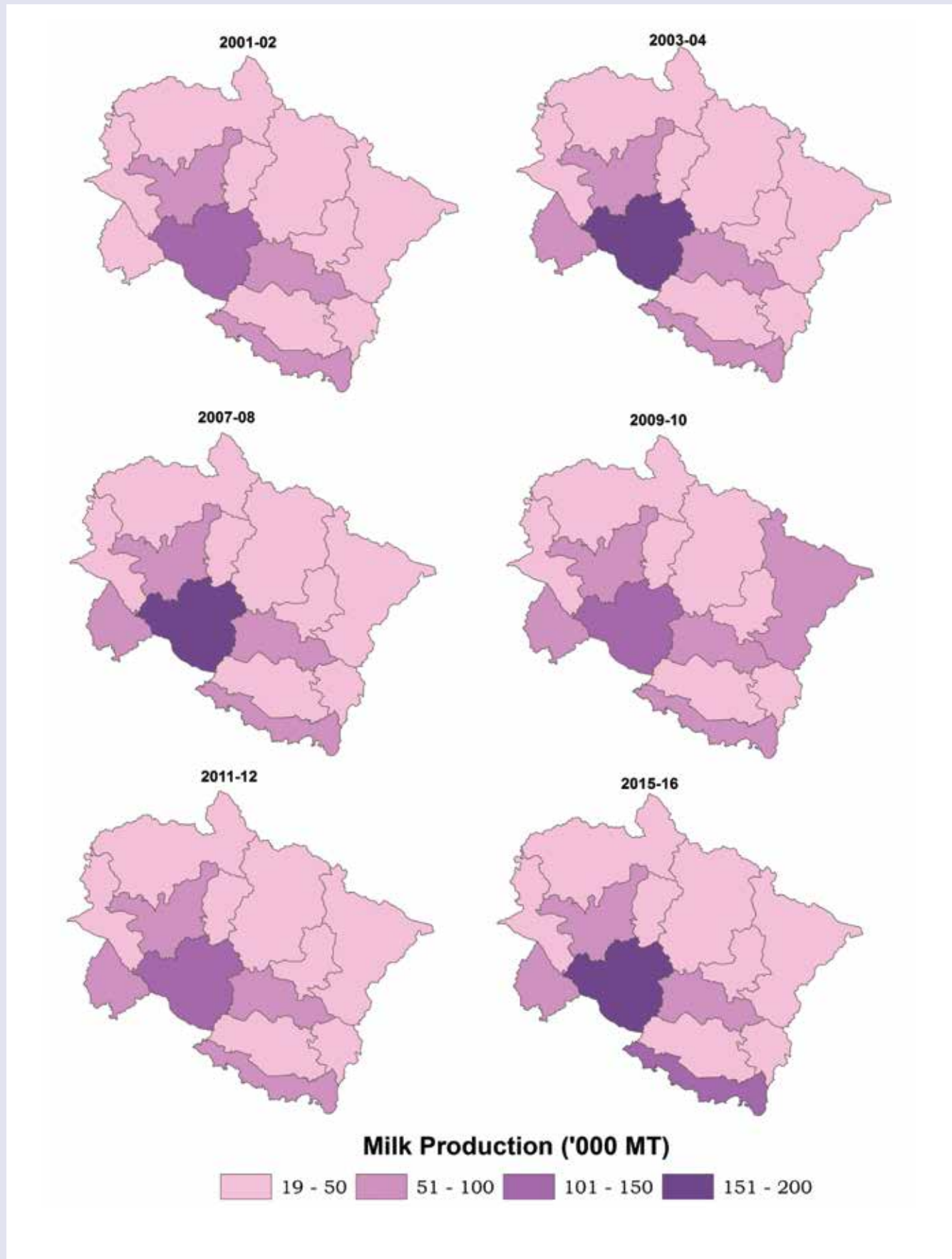
जिले	Districts	भैंस दुग्ध उत्पादन Buffalo Milk Production ('000 MT)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	698	705	742	739	744	748	752	768	769	779	756	751
अल्मोडा	Almora	85.5	85.9	76.5	76.9	76.8	77.4	77.8	93.0	93.2	94.7	85.2	79.4
बागेश्वर	Bageshwar	33.9	34.0	33.8	35.0	33.9	34.2	34.4	38.4	38.3	39.2	36.7	35.4
चमोली	Chamoli	38.2	38.8	40.7	41.7	41.9	42.0	41.9	39.0	38.2	38.3	34.8	33.7
चम्पावत	Champawat	18.6	18.6	22.0	22.1	22.1	22.3	22.4	23.1	22.6	23.1	20.6	20.0
देहरादून	Dehradun	39.1	39.2	40.2	41.9	42.0	42.2	42.5	39.5	39.8	39.6	39.4	40.7
हरिद्वार	Haridwar	127.9	129.5	158.4	155.6	154.7	155.5	157.5	144.5	144.8	146.7	146.5	162.2
नैनीताल	Nainital	44.4	45.9	57.6	51.1	55.2	55.0	56.1	64.9	65.4	66.2	71.4	64.9
पौड़ी गढ़वाल	Pauri Garhwal	46.5	47.3	35.2	36.2	36.3	36.4	36.3	32.9	32.9	32.9	32.1	29.8
पिथौरागढ़	Pithoragarh	49.3	49.5	48.6	48.8	48.8	49.2	49.4	51.0	49.9	49.5	46.6	44.1
रूद्रप्रयाग	Rudraprayag	23.5	23.9	27.2	27.9	28.0	28.1	28.1	30.1	29.9	31.2	24.9	24.5
टिहरी गढ़वाल	Tehri Garhwal	81.7	82.1	88.3	90.1	91.8	92.3	91.6	91.8	92.9	93.1	88.2	85.6
ऊधमसिंहनगर	Udham Singh Nagar	76.5	77.4	86.7	85.2	84.7	85.2	86.3	91.2	91.4	94.0	102.3	106.5
उत्तरकाशी	Uttarkashi	32.8	33.0	27.1	27.8	28.2	28.3	28.1	28.9	29.4	30.0	26.8	24.0

SOURCE: Integrated Sample Survey Reports (2001-02 to 2015-16), Department of Animal Husbandry, Govt. of Uttarakhand.

NOTE: Milk production estimated from in-milk animals and yield for the year 2001-02.



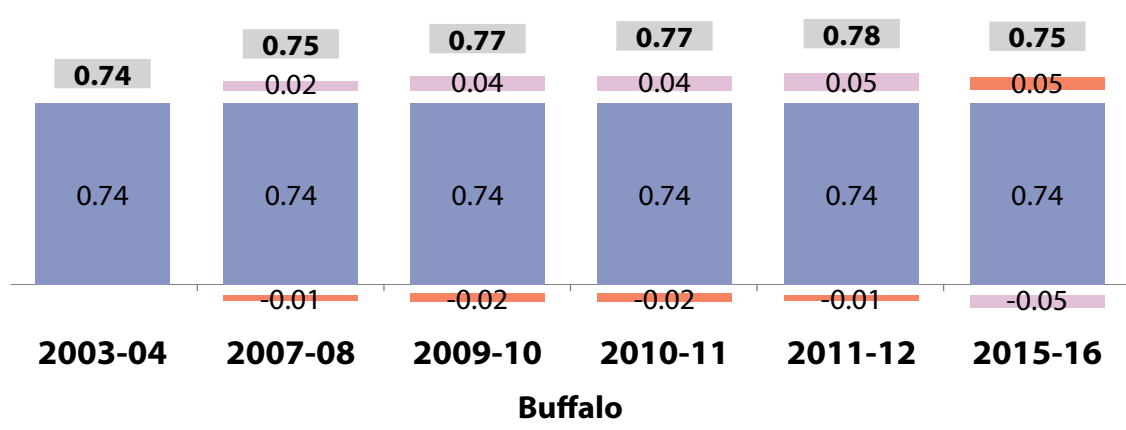
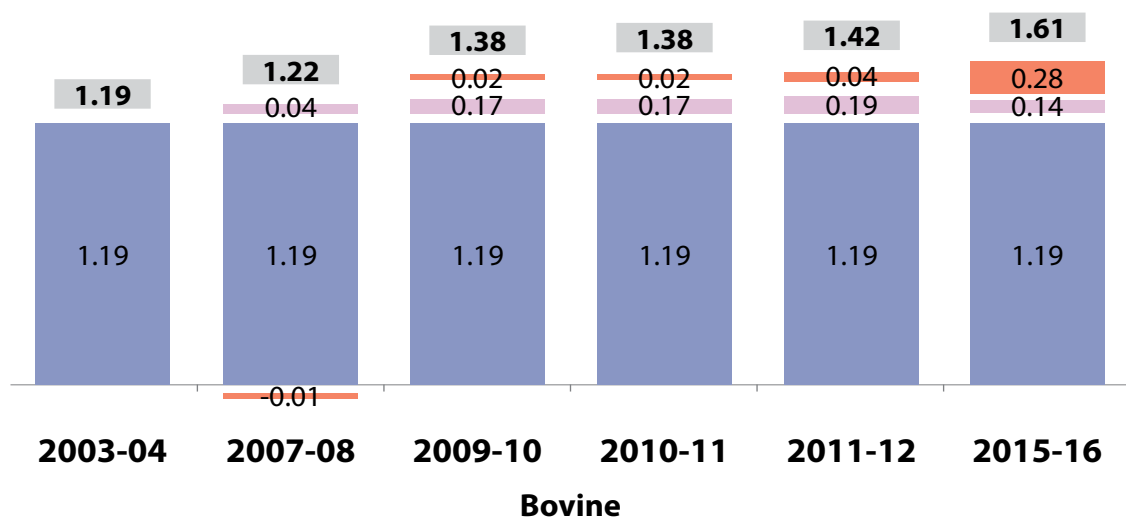
District-wise Buffalo Milk Production





Uttarakhand's Milk Production (MMT)

(Change due to number of in-milk animals and average yield)

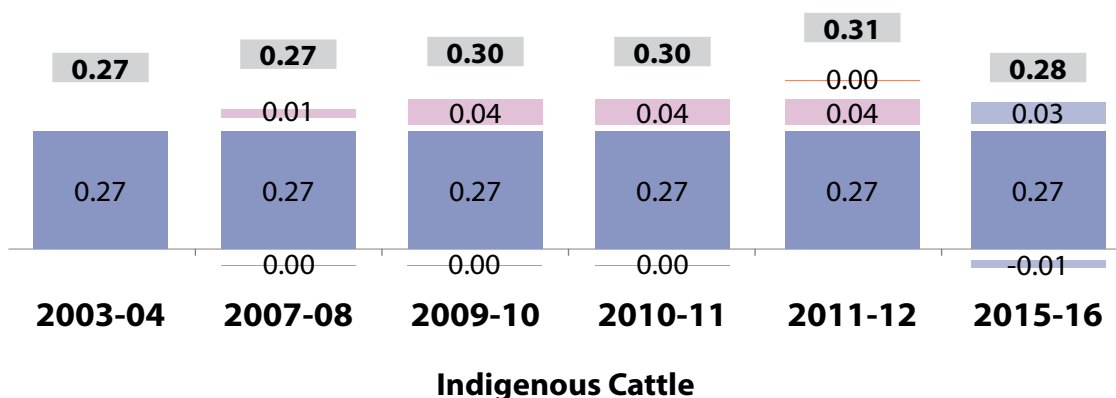
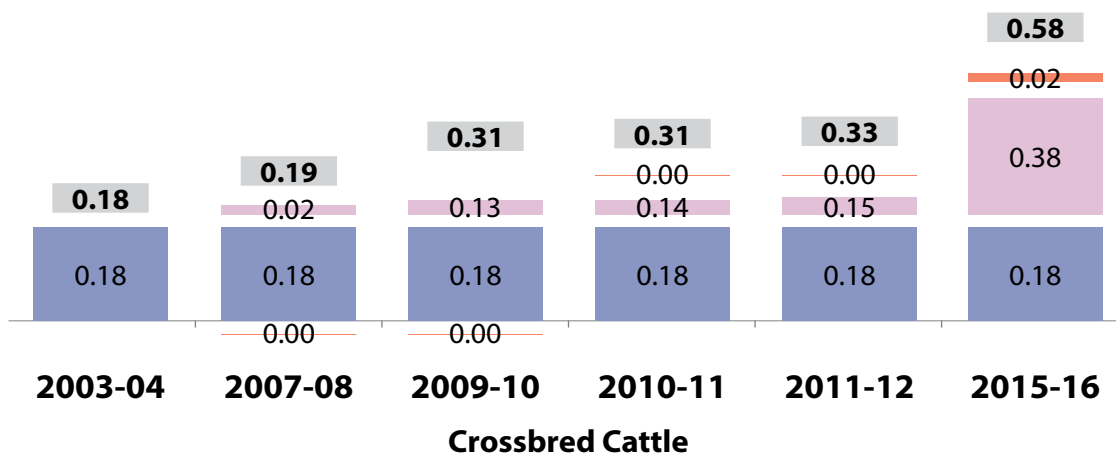


- Total milk production - MMT
- Change in total milk production due to change in average yield - kg/in-milk animal per day - MMT
- Change in total milk production due to change in numbers of in milk animals - MMT
- Milk production in base year -2003-04 - MMT





Uttarakhand's Milk Production (MMT) (Change due to number of in-milk animals and average yield)



- Total milk production - MMT
- Change in total milk production due to change in average yield - kg/in-milk animal per day - MMT
- Change in total milk production due to change in numbers of in milk animals - MMT
- Milk production in base year -2003-04 - MMT





IV.3. उत्पादन प्रदर्शन: दुग्ध उत्पादन (Production Performance: Milk Production)

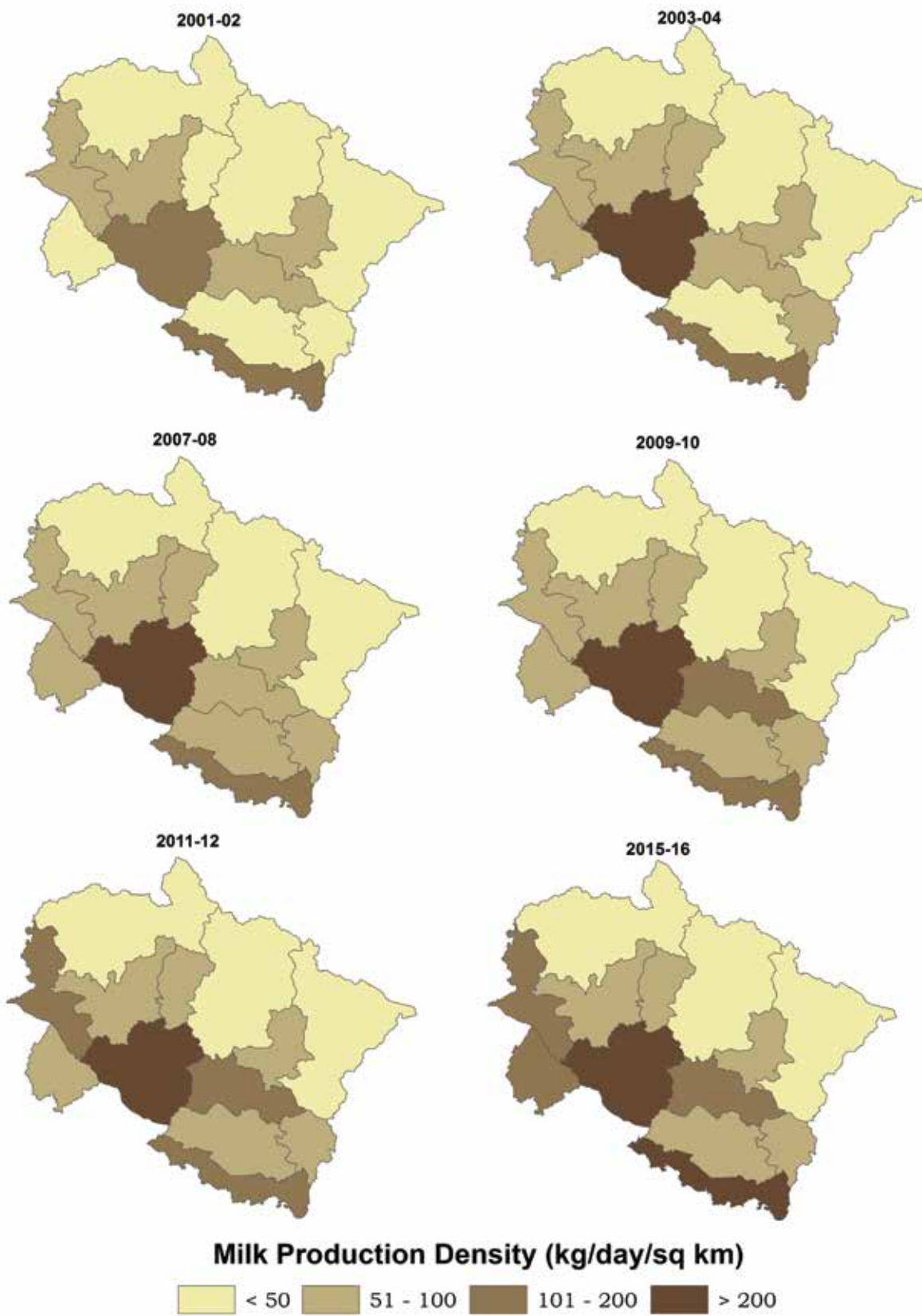
TABLE IV.3.5: वर्ष तथा जिलेवार कुल दुग्ध उत्पादन सघनता
(Year-wise & District-wise Total Milk Production Density)

जिले	Districts	दुग्ध उत्पादन सघनता Milk Production Density (kg/day/sq km)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	55	55	61	61	62	62	62	71	71	73	80	82
अल्मोडा	Almora	99	100	94	96	96	96	97	132	133	135	128	121
बागेश्वर	Bageshwar	58	58	58	61	59	60	60	67	68	70	71	70
चमोली	Chamoli	23	23	25	25	25	25	25	24	24	24	24	24
चम्पावत	Champawat	48	48	62	63	63	64	64	75	75	79	84	85
देहरादून	Dehradun	67	68	83	86	87	88	89	96	98	100	131	140
हरिद्वार	Haridwar	193	195	239	239	239	241	243	261	263	267	302	339
नैनीताल	Nainital	41	43	62	58	61	61	60	83	84	87	101	103
पौड़ी गढ़वाल	Pauri Garhwal	49	50	49	50	50	50	50	54	54	55	58	58
पिथौरागढ़	Pithoragarh	32	32	36	36	37	37	37	39	39	39	45	45
रूद्रप्रयाग	Rudraprayag	49	50	58	59	59	60	59	64	64	66	62	61
टिहरी गढ़वाल	Tehri Garhwal	76	76	76	77	79	79	78	82	83	85	85	83
ऊधमसिंहनगर	Udham Singh Nagar	150	151	159	160	160	161	162	190	191	197	241	254
उत्तरकाशी	Uttarkashi	17	17	16	16	16	16	17	18	19	19	20	20

SOURCE: Estimated from Integrated Sample Survey Reports, Department of Animal Husbandry, Govt. of Uttarakhand.



District-wise Milk Production Density





IV.4. उत्पादन प्रदर्शन: दुग्ध उपलब्धता (Production Performance: Milk Availability)

TABLE IV.4.1: वर्ष तथा जिलेवार प्रति व्यक्ति दुग्ध उपलब्धता
(Year-wise & District-wise Per Capita Milk Availability)

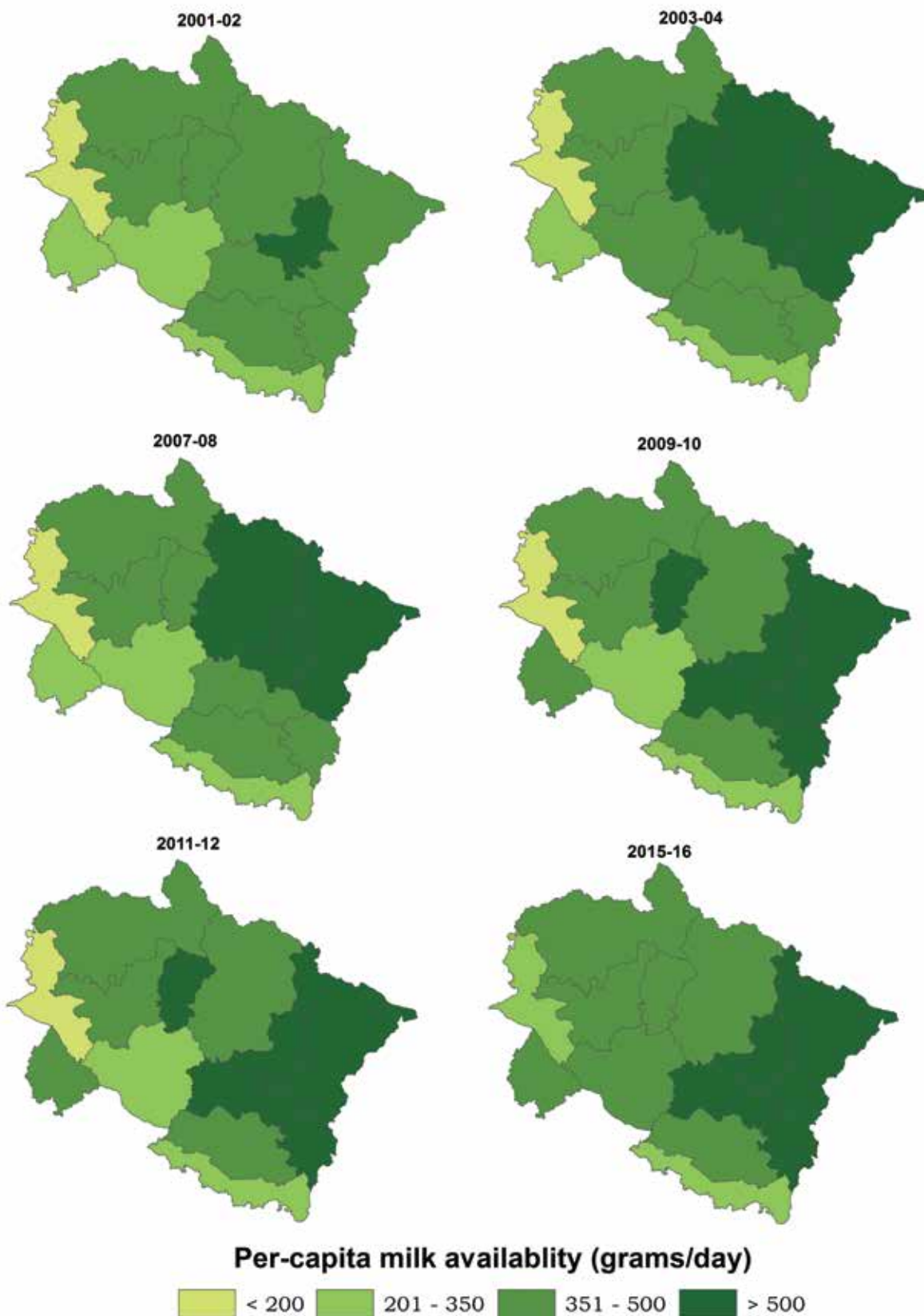
जिले	Districts	प्रति व्यक्ति दुग्ध उपलब्धता Per Capita Availability of Milk (grams/day)											
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2009-10	2010-11	2011-12	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	344	342	369	366	363	359	354	387	382	385	404	407
अल्मोडा	Almora	493	496	470	478	479	483	486	663	667	683	648	615
बागेश्वर	Bageshwar	522	523	522	541	524	526	525	586	585	601	609	597
चमोली	Chamoli	494	501	526	527	533	535	531	498	485	492	484	478
चम्पावत	Champawat	373	369	471	471	469	468	463	526	519	534	550	544
देहरादून	Dehradun	161	159	189	191	187	184	180	185	183	183	219	227
हरिद्वार	Haridwar	315	310	370	360	351	343	338	344	337	333	348	381
नैनीताल	Nainital	231	232	329	301	310	304	292	384	382	388	422	417
पौड़ी गढ़वाल	Pauri Garhwal	372	380	377	380	384	388	388	415	416	423	453	452
पिथौरागढ़	Pithoragarh	492	494	541	547	550	553	553	576	567	571	656	646
रूद्रप्रयाग	Rudraprayag	431	437	501	502	504	503	499	532	525	544	498	489
टिहरी गढ़वाल	Tehri Garhwal	455	456	453	462	468	469	464	487	491	498	496	486
ऊधमसिंहनगर	Udham Singh Nagar	308	302	308	301	293	287	281	310	303	303	341	349
उत्तरकाशी	Uttarkashi	458	455	411	418	420	412	423	458	453	464	470	454

SOURCE: Estimated from Integrated Sample Survey Reports, Department of Animal Husbandry, Govt. of Uttarakhand.

NOTE: Exclude Goat Milk.



District-wise Per Capita Milk Availability



भाग V : पशु चिकित्सा का आधारभूत ढांचा तथा सेवा वितरण प्रणाली

PART V : VETERINARY INFRASTRUCTURE AND SERVICE DELIVERY SYSTEM

यह खंड राज्य में उपलब्ध जिलेवार पशु चिकित्सा के आधारभूत ढांचे तथा कृत्रिम गर्भाधान (एआई) सेवाओं को दर्शाता है।

उत्तराखण्ड में पशु स्वास्थ्य सुरक्षा हेतु व्यापक पशु चिकित्सा का आधारभूत ढांचा उपलब्ध है। राज्य सरकार द्वारा 325 पशु चिकित्सालयों, 785 दवाखानों, 618 कृत्रिम गर्भाधान केंद्रों और 8 रोग नैदानिक प्रयोगशालाओं के संगठन का प्रबंधन किया जाता है। 2015-16 के दौरान लगभग 23 लाख कृत्रिम गर्भाधान किए गए जिसमें से हरिद्वार एवं ऊधम सिंह नगर जिले के मैदानी क्षेत्रों में 38 प्रतिशत, देहरादून और नैनीताल जिले के आंशिक मैदानी क्षेत्रों में 28 प्रतिशत तथा शेष नौ जिलों अल्मोडा, पिथौरागढ़, चंपावत, वागेश्वर, पौड़ी गढ़वाल, टिहरी गढ़वाल, चमोली, रुद्रप्रयाग और उत्तरकाशी के पूर्णतः पहाड़ी क्षेत्रों में 34 प्रतिशत रहा है। इसके अलावा, डेरी सहकारिताओं और निजी एजेंसियों ने 520 कृत्रिम गर्भाधान केंद्रों की स्थापना की है।

उत्तराखण्ड पशु स्वास्थ्य सेवा प्रदाता प्रणाली के अंतर्गत पशुधन रोगों की निगरानी तथा नियंत्रण एक महत्वपूर्ण गतिविधि है, जिसके अंतर्गत वर्ष 2015-16 में 14.8 लाख खुरपका एवं मुंहपका रोगों के लिए टीकाकरण किया गया है।

This section covers district-wise veterinary infrastructure and Artificial Insemination (AI) services available in the state.

Uttarakhand has extensive veterinary infrastructure for animal health care. The Government manages a network of 325 veterinary hospitals, 785 dispensaries, 618 AI centres and 8 disease diagnostic labs. About 2.3 million AIs were performed during 2015-16, of which 38 per cent were predominantly in plain areas of Haridwar & Udham Singh Nagar districts, 28 per cent in partly plain Dehradun and Nainital districts and the balance 34 per cent in the remaining nine districts of Almora, Pithoragarh, Champawat, Bageshwar, Pauri Garhwal, Tehri Garhwal, Chamoli, Rudraprayag and Uttarkashi, which are entirely hilly. In addition, the dairy cooperatives and private agencies have set up 520 AI centres.

Surveillance and monitoring of livestock diseases is one of the major activities of animal health care delivery system in Uttarakhand. A total of 14.8 lakh Foot-and-Mouth disease vaccinations were done in 2015-16.





V.1. पशु चिकित्सा का आधारभूत ढांचा (Veterinary Infrastructure)

**TABLE V.1.1: वर्ष तथा जिलेवार कृत्रिम गर्भाधान केंद्र
(Year-wise & District-wise Artificial Insemination Centre)**

जिले	Districts	कृत्रिम गर्भाधान केंद्र Artificial Insemination Centre (Number)											
		2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	359	386	427	444	478	495	509	524	545	562	582	618
अल्मोडा	Almora	41	59	63	64	64	65	66	66	67	68	68	69
बागेश्वर	Bageshwar	7	7	15	16	16	17	17	17	17	18	18	18
चमोली	Chamoli	13	13	16	18	19	20	20	21	22	23	23	23
चम्पावत	Champawat	15	15	16	16	17	17	18	19	20	22	22	22
देहरादून	Dehradun	40	41	46	47	49	50	51	52	53	55	58	61
हरिद्वार	Haridwar	28	29	30	32	33	34	35	35	36	38	39	39
नैनीताल	Nainital	60	60	62	63	65	67	69	70	76	78	78	97
पौड़ी गढ़वाल	Pauri Garhwal	31	33	34	38	43	45	46	47	48	53	55	57
पिथौरागढ़	Pithoragarh	24	28	29	31	32	33	34	36	37	38	41	43
रूद्रप्रयाग	Rudraprayag	6	6	9	11	16	17	18	18	19	20	20	22
टिहरी गढ़वाल	Tehri Garhwal	13	14	16	16	19	20	21	22	24	25	30	34
ऊधमसिंहनगर	Udham Singh Nagar	67	67	69	70	73	76	78	83	84	87	90	92
उत्तरकाशी	Uttarkashi	14	14	22	22	32	34	36	38	42	37	40	41

SOURCE: Department of Animal Husbandry, Govt. of Uttarakhand.



V.1. पशु चिकित्सा का आधारभूत ढांचा (Veterinary Infrastructure)

TABLE V.1.2: जिलेवार कृत्रिम गर्भाधान केंद्र-सहकारी समिति, एनजीओ तथा प्राइवेट (Year-wise & District-wise AI Centres: Co-operatives, NGOs and Private)

जिले	Districts	AI Centres – Co-operatives, NGOs and Privates (Number)											
		2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	205	249	326	433	422	435	443	455	463	483	497	520
अल्मोडा	Almora	16	16	25	25	27	28	28	29	29	30	30	35
बागेश्वर	Bageshwar	4	6	8	10	16	17	17	18	18	19	19	21
चमोली	Chamoli	15	16	10	25	38	40	41	42	43	43	43	45
चम्पावत	Champawat	11	12	14	19	11	11	11	11	12	13	13	13
देहरादून	Dehradun	25	30	45	70	40	41	42	43	43	44	48	49
हरिद्वार	Haridwar	32	42	50	75	78	79	79	80	80	80	80	80
नैनीताल	Nainital	24	30	55	60	46	47	48	50	51	54	56	56
पौड़ी गढ़वाल	Pauri Garhwal	15	17	16	18	18	20	20	20	23	23	23	23
पिथौरागढ़	Pithoragarh	4	4	4	6	8	10	11	11	11	11	11	21
रूद्रप्रयाग	Rudraprayag	5	10	15	22	10	10	10	10	10	11	13	13
टिहरी गढ़वाल	Tehri Garhwal	0	1	2	10	15	16	18	19	20	20	20	23
ऊधमसिंहनगर	Udham Singh Nagar	54	65	80	85	97	98	98	102	102	113	119	119
उत्तरकाशी	Uttarkashi	0	0	2	8	18	18	20	20	21	22	22	22

SOURCE: Department of Animal Husbandry, Govt. of Uttarakhand.



V.2. सेवा वितरण प्रणाली - कृत्रिम गर्भाधान (Service Delivery System - Artificial Insemination)

TABLE V.2.1: सरकारी संस्थाओं द्वारा जिलेवार किया गया कृत्रिम गर्भाधान - गाय (Year-wise & District-wise AI Performed by Government Agencies – Cattle)

जिले	Districts	किया गया कृत्रिम गर्भाधान संख्या Number of AI Performed ('000)													
		2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	21.7	54.9	63.3	65.9	76.5	85.7	97.6	109.8	114.1	125.2	148.1	178.0	179.1	166.8
अल्मोडा	Almora	1.1	2.2	2.5	2.1	3.0	3.9	4.2	5.0	5.2	5.4	6.4	8.8	8.0	9.1
बागेश्वर	Bageshwar	0.2	0.3	0.4	0.5	0.8	1.2	1.5	1.9	2.1	1.9	2.5	3.4	2.6	3.4
चमोली	Chamoli	0.0	0.1	0.1	0.2	0.5	0.6	1.0	1.1	0.8	0.8	1.1	1.1	1.0	1.3
चम्पावत	Champawat	0.2	0.7	1.2	1.4	1.4	2.5	3.0	3.5	4.3	4.0	5.8	9.3	6.4	9.1
देहरादून	Dehradun	8.3	16.7	16.5	19.1	18.4	19.7	21.4	25.1	24.0	26.9	29.5	30.7	50.7	23.3
हरिद्वार	Haridwar	2.8	7.5	8.4	7.3	8.5	8.4	11.2	13.7	14.0	17.2	18.0	23.7	21.3	23.1
नैनीताल	Nainital	2.6	7.7	9.3	8.9	11.0	11.1	11.5	13.6	14.5	14.8	17.8	26.0	17.1	26.5
पौड़ी गढ़वाल	Pauri Garhwal	0.5	1.3	2.4	3.2	3.3	3.9	4.7	4.5	5.6	6.2	7.7	9.2	7.2	9.6
पिथौरागढ़	Pithoragarh	1.3	2.5	3.0	2.7	4.3	5.9	6.9	8.4	8.0	10.2	10.9	14.8	12.7	16.2
रूद्रप्रयाग	Rudraprayag	0.0	0.3	0.4	0.3	0.4	0.6	0.7	1.1	1.1	1.3	2.4	2.5	2.7	2.3
टिहरी गढ़वाल	Tehri Garhwal	0.1	0.3	0.4	0.4	0.6	0.7	0.9	1.3	1.6	2.0	2.0	2.8	3.1	3.8
ऊधमसिंहनगर	Udham Singh Nagar	4.2	14.5	17.3	19.2	22.5	25.2	27.8	26.8	29.0	30.6	39.9	40.9	41.9	33.6
उत्तरकाशी	Uttarkashi	0.1	0.9	1.4	0.5	1.8	2.0	2.8	3.8	3.8	3.9	4.2	4.9	4.5	5.4

Zero denotes either nil or negligible.

SOURCE: Department of Animal Husbandry, Govt. of Uttarakhand.



V.2. सेवा वितरण प्रणाली - कृत्रिम गर्भाधान (Service Delivery System - Artificial Insemination)

TABLE V.2.2: सरकारी संस्थाओं द्वारा जिलेवार किया गया कृत्रिम गर्भाधान - भैंस (Year-wise & District-wise AI Performed by Government Agencies - Buffalo)

जिले	Districts	किया गया कृत्रिम गर्भाधान संख्या Number of AI Performed ('000)													
		2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	5.8	12.2	14.8	15.2	19.2	23.6	30.9	37.1	41.9	45.4	55.9	63.1	62.4	61.9
अल्मोडा	Almora	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.9	1.0	1.4	2.0	2.6	2.4	2.7
बागेश्वर	Bageshwar	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.6	0.9	1.3	1.0	1.5
चमोली	Chamoli	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.3
चम्पावत	Champawat	0.0	0.0	0.1	0.1	0.1	0.3	0.7	0.8	1.3	0.8	1.3	3.8	1.0	2.2
देहरादून	Dehradun	1.1	1.6	1.9	1.9	2.6	3.6	4.3	5.3	6.2	5.7	6.1	4.7	10.6	3.7
हरिद्वार	Haridwar	1.4	3.0	3.5	3.6	3.9	4.1	5.7	8.2	9.2	11.1	11.6	14.0	13.0	14.2
नैनीताल	Nainital	1.3	2.4	3.1	3.1	3.7	4.1	4.7	6.1	6.8	6.7	8.5	12.7	7.9	12.1
पौड़ी गढ़वाल	Pauri Garhwal	0.0	0.1	0.1	0.2	0.2	0.3	0.5	0.8	0.9	1.0	1.5	2.1	0.9	1.4
पिथौरागढ़	Pithoragarh	0.0	0.1	0.1	0.1	0.1	0.2	0.5	0.7	0.5	0.8	0.8	2.1	0.9	1.7
रूद्रप्रयाग	Rudraprayag	0.0	0.1	0.2	0.3	0.3	0.5	0.6	1.1	0.9	1.1	2.0	1.4	1.9	1.5
टिहरी गढ़वाल	Tehri Garhwal	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8	1.0	1.3	1.3	1.6	2.4	3.0
ऊधमसिंहनगर	Udham Singh Nagar	2.0	4.8	5.7	5.8	7.8	9.7	12.3	11.4	12.8	14.3	19.2	16.0	19.7	16.6
उत्तरकाशी	Uttarkashi	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.5	0.4	0.5	0.7	0.6	0.9

Zero denotes either nil or negligible.

SOURCE: Department of Animal Husbandry, Govt. of Uttarakhand.



V.2. सेवा वितरण प्रणाली - कृत्रिम गर्भाधान (Service Delivery System - Artificial Insemination)

TABLE V.2.3: सरकारी संस्थाओं द्वारा जिलेवार किया गया कृत्रिम गर्भाधान - गौ-महिषवंशीय (Year-wise & District-wise AI Performed by Government Agencies – Bovine)

जिले	Districts	किया गया कृत्रिम गर्भाधान संख्या Number of AI Performed ('000)													
		2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	27.6	67.1	78.0	81.2	95.7	109.2	128.5	147.0	156.0	170.6	204.0	241.1	241.5	228.7
अल्मोडा	Almora	1.1	2.2	2.5	2.1	3.1	4.1	4.7	5.9	6.3	6.8	8.4	11.3	10.4	11.9
बागेश्वर	Bageshwar	0.2	0.3	0.5	0.5	0.9	1.4	1.8	2.3	2.8	2.6	3.4	4.7	3.6	4.9
चमोली	Chamoli	0.0	0.1	0.1	0.2	0.6	0.6	1.0	1.2	0.9	0.9	1.2	1.3	1.1	1.6
चम्पावत	Champawat	0.2	0.8	1.2	1.5	1.5	2.8	3.7	4.2	5.6	4.9	7.1	13.1	7.5	11.4
देहरादून	Dehradun	9.4	18.4	18.4	21.1	21.0	23.3	25.7	30.5	30.3	32.6	35.6	35.4	61.4	27.0
हरिद्वार	Haridwar	4.2	10.6	11.9	10.8	12.4	12.6	16.9	21.9	23.1	28.3	29.6	37.8	34.2	37.3
नैनीताल	Nainital	3.9	10.1	12.4	12.0	14.7	15.3	16.3	19.8	21.3	21.6	26.3	38.7	25.0	38.5
पौड़ी गढ़वाल	Pauri Garhwal	0.6	1.4	2.5	3.4	3.4	4.2	5.2	5.3	6.4	7.2	9.2	11.3	8.1	11.0
पिथौरागढ़	Pithoragarh	1.3	2.5	3.1	2.8	4.5	6.1	7.4	9.2	8.6	11.0	11.7	16.9	13.6	17.9
रूद्रप्रयाग	Rudraprayag	0.0	0.3	0.6	0.6	0.7	1.1	1.3	2.2	2.0	2.5	4.5	3.8	4.6	3.8
टिहरी गढ़वाल	Tehri Garhwal	0.1	0.3	0.4	0.5	0.6	0.8	1.2	2.1	2.6	3.2	3.3	4.3	5.5	6.8
ऊधमसिंहनगर	Udham Singh Nagar	6.3	19.3	23.0	25.0	30.3	34.9	40.1	38.2	41.9	44.9	59.1	56.9	61.6	50.2
उत्तरकाशी	Uttarkashi	0.1	0.9	1.4	0.6	1.9	2.1	3.0	4.2	4.2	4.3	4.7	5.6	5.0	6.4

Zero denotes either nil or negligible.

SOURCE: Department of Animal Husbandry, Govt. of Uttarakhand.



V.2. सेवा वितरण प्रणाली - कृत्रिम गर्भाधान (Service Delivery System - Artificial Insemination)

TABLE V.2.4: जिलेवार किया गया कृत्रिम गर्भाधान केंद्र-सहकारी समिति, एनजीओ तथा प्राइवेट - गाय (Year-wise & District-wise AI Performed by Co-operatives, NGOs and Private - Cattle)

जिले	Districts	किया गया कृत्रिम गर्भाधान संख्या Number of AI Performed ('000)												
		2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	33.6	42.6	55.1	73.4	85.8	120.4	135.3	143.1	189.9	228.2	221.9	242.8	261.2
अल्मोडा	Almora	0.7	1.1	1.9	3.1	4.3	4.4	5.4	5.4	5.5	6.3	6.9	8.3	9.7
बागेश्वर	Bageshwar	1.1	1.1	1.2	1.9	2.1	2.1	2.7	3.0	3.5	4.7	5.5	6.3	7.3
चमोली	Chamoli	0.0	0.4	1.0	1.6	2.2	3.5	4.4	5.5	7.3	8.7	8.6	10.3	11.9
चम्पावत	Champawat	2.5	3.2	3.1	3.8	3.7	4.2	4.1	4.1	4.6	5.2	5.2	6.4	7.7
देहरादून	Dehradun	10.7	10.9	12.1	13.7	13.8	16.3	21.8	21.6	24.2	29.6	30.1	33.0	34.8
हरिद्वार	Haridwar	3.7	7.9	14.0	22.7	29.6	42.1	47.9	46.6	58.9	67.8	52.8	61.8	65.0
नैनीताल	Nainital	8.3	7.9	7.5	8.0	7.9	13.2	11.7	9.6	23.2	24.4	29.3	24.5	27.0
पौड़ी गढ़वाल	Pauri Garhwal	0.4	1.2	1.7	2.7	3.3	3.5	3.1	8.7	9.9	10.3	11.6	11.5	12.7
पिथौरागढ़	Pithoragarh	0.0	0.0	0.0	0.1	0.1	0.3	0.1	0.2	0.2	0.3	0.5	0.5	1.0
रूद्रप्रयाग	Rudraprayag	0.0	0.1	0.2	0.4	0.8	0.8	1.0	1.0	1.6	1.7	1.5	2.1	2.8
टिहरी गढ़वाल	Tehri Garhwal	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.6	0.7	1.3	1.0	1.0	0.9
ऊधमसिंहनगर	Udham Singh Nagar	6.0	8.9	12.2	15.4	17.9	29.3	31.6	35.1	48.8	65.6	66.5	73.2	76.8
उत्तरकाशी	Uttarkashi	0.2	0.0	0.0	0.0	0.1	0.3	0.8	1.7	1.5	2.6	2.2	3.9	3.8

Zero denotes either nil or negligible.

SOURCE: Department of Animal Husbandry, Govt. of Uttarakhand.



V.2. सेवा वितरण प्रणाली - कृत्रिम गर्भाधान (Service Delivery System - Artificial Insemination)

TABLE V.2.5: जिलेवार किया गया कृत्रिम गर्भाधान केंद्र-सहकारी समिति, एनजीओ तथा प्राइवेट - भैंस (Year-wise & District-wise AI Performed by Co-operatives, NGOs and Private – Buffalo)

जिले	Districts	किया गया कृत्रिम गर्भाधान संख्या Number of AI Performed ('000)												
		2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	7.8	11.4	16.3	26.5	38.0	58.9	70.4	76.1	104.9	118.9	116.7	114.5	115.1
अल्मोडा	Almora	0.2	0.4	0.7	1.4	1.9	2.2	3.0	3.5	3.6	4.2	4.6	6.0	6.1
बागेश्वर	Bageshwar	0.2	0.3	0.4	0.7	1.1	1.1	1.4	1.4	1.6	2.2	2.6	2.9	3.5
चमोली	Chamoli	0.0	0.2	0.5	1.0	1.4	2.0	2.2	2.5	3.4	4.3	4.3	4.9	5.7
चम्पावत	Champawat	0.2	0.4	0.4	0.6	0.6	0.8	0.8	0.8	0.9	1.1	1.0	1.2	1.5
देहरादून	Dehradun	1.8	2.3	2.4	4.0	4.5	5.5	7.0	7.3	7.9	7.0	8.0	5.7	5.9
हरिद्वार	Haridwar	1.8	3.6	6.0	11.4	17.1	26.2	32.8	33.6	43.0	47.0	39.1	38.7	39.0
नैनीताल	Nainital	2.1	2.0	2.3	2.5	3.0	5.0	5.0	4.9	10.8	11.3	13.8	10.6	10.9
पौड़ी गढ़वाल	Pauri Garhwal	0.1	0.3	0.4	0.5	0.6	0.8	0.6	1.3	1.7	1.4	1.7	1.4	1.2
पिथौरागढ़	Pithoragarh	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2
रूद्रप्रयाग	Rudraprayag	0.0	0.1	0.2	0.4	0.8	0.9	0.9	1.1	1.5	1.6	1.4	1.9	2.4
टिहरी गढ़वाल	Tehri Garhwal	0.0	0.0	0.0	0.0	0.1	0.7	1.3	1.2	1.5	1.9	1.2	1.4	0.9
ऊधमसिंहनगर	Udham Singh Nagar	1.2	1.7	2.9	4.1	6.8	13.5	15.1	17.9	28.5	36.3	38.4	39.1	36.9
उत्तरकाशी	Uttarkashi	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.3	0.5	0.5	0.6	0.7

Zero denotes either nil or negligible.

SOURCE: Department of Animal Husbandry, Govt. of Uttarakhand.



V.2. सेवा वितरण प्रणाली - कृत्रिम गर्भाधान (Service Delivery System - Artificial Insemination)

TABLE V.2.6: जिलेवार किया गया कृत्रिम गर्भाधान केंद्र-सहकारी समिति, एनजीओ तथा प्राइवेट - गौ-महिषवंशीय (Year-wise & District-wise AI Performed by Co-operatives, NGOs and Private – Bovine)

जिले	Districts	किया गया कृत्रिम गर्भाधान संख्या Number of AI Performed ('000)												
		2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	41.4	54.1	71.3	99.9	123.8	179.3	205.6	219.2	294.8	347.2	338.6	357.3	376.3
अल्मोडा	Almora	1.0	1.5	2.6	4.5	6.2	6.6	8.4	8.9	9.1	10.5	11.5	14.3	15.9
बागेश्वर	Bageshwar	1.3	1.4	1.6	2.7	3.3	3.2	4.1	4.4	5.2	6.8	8.1	9.2	10.8
चमोली	Chamoli	0.0	0.6	1.5	2.6	3.6	5.5	6.6	8.0	10.6	13.0	12.8	15.3	17.6
चम्पावत	Champawat	2.8	3.6	3.5	4.3	4.4	5.0	4.9	5.0	5.5	6.3	6.2	7.6	9.2
देहरादून	Dehradun	12.5	13.2	14.5	17.7	18.3	21.7	28.9	29.0	32.1	36.5	38.1	38.6	40.7
हरिद्वार	Haridwar	5.6	11.5	19.9	34.1	46.6	68.4	80.7	80.2	101.9	114.8	91.9	100.5	104.0
नैनीताल	Nainital	10.4	9.9	9.8	10.5	10.9	18.1	16.8	14.5	34.1	35.7	43.1	35.1	37.9
पौड़ी गढ़वाल	Pauri Garhwal	0.5	1.6	2.2	3.2	4.0	4.3	3.7	10.0	11.7	11.6	13.3	12.9	13.9
पिथौरागढ़	Pithoragarh	0.0	0.1	0.1	0.1	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	1.1
रूद्रप्रयाग	Rudraprayag	0.0	0.2	0.5	0.8	1.6	1.8	1.9	2.2	3.0	3.3	3.0	4.0	5.2
टिहरी गढ़वाल	Tehri Garhwal	0.0	0.0	0.0	0.0	0.1	1.1	2.0	1.8	2.2	3.2	2.3	2.4	1.8
ऊधमसिंहनगर	Udham Singh Nagar	7.2	10.6	15.1	19.5	24.6	42.7	46.7	53.0	77.3	101.9	104.9	112.3	113.7
उत्तरकाशी	Uttarkashi	0.2	0.0	0.0	0.0	0.1	0.4	1.0	2.1	1.8	3.1	2.7	4.5	4.5

Zero denotes either nil or negligible.

SOURCE: Department of Animal Husbandry, Govt. of Uttarakhand.



V.3. सेवा वितरण प्रणाली - पशु स्वास्थ्य (Service Delivery System - Animal Health)

TABLE V.3.1: जिलेवार टीकाकरण 2015-16
(District-wise Vaccination Performed 2015-16)

जिले	Districts	खुरपका और मुंहपका टीकाकरण Foot-and-Mouth Disease Vaccination ('000)	गलघोटू टीकाकरण Haemorrhagic Septicaemia Vaccination ('000)	लॅगड़िया टीकाकरण Black Quarter Vaccination ('000)
उत्तराखण्ड	UTTARAKHAND	1,483.4	288.2	268.2
अल्मोडा	Almora	142.6	0.0	0.0
बागेश्वर	Bageshwar	69.5	11.0	9.3
चमोली	Chamoli	40.5	22.4	16.3
चम्पावत	Champawat	50.9	1.3	5.0
देहरादून	Dehradun	125.3	19.4	21.4
हरिद्वार	Haridwar	155.9	63.5	68.6
नैनीताल	Nainital	199.3	32.7	13.9
पौड़ी गढ़वाल	Pauri Garhwal	81.7	8.0	56.9
पिथौरागढ़	Pithoragarh	191.2	5.9	11.9
रूद्रप्रयाग	Rudraprayag	42.7	0.0	12.2
टिहरी गढ़वाल	Tehri Garhwal	92.7	4.7	18.0
ऊधमसिंहनगर	Udham Singh Nagar	233.6	106.3	17.6
उत्तरकाशी	Uttarkashi	57.4	13.0	17.1

Zero denotes either nil or negligible.

SOURCE: Department of Animal Husbandry, Govt. of Uttarakhand.

भाग VI : चारा संसाधन

PART VI : FEED RESOURCES

उत्तराखण्ड में चारा मुख्य तौर पर फसल अवशेषों, जंगलों एवं चारागाहों से उपलब्ध होता है। पशुपालन प्रवृत्ति में सुधार के कारण राज्य में हरे और सूखे दोनों प्रकार के चारे की उपलब्धता में गिरावट दर्ज की गयी है। लगभग 42-46 प्रतिशत चारा फसल अवशेषों से प्राप्त किया जाता है और शेष 50 प्रतिशत घासों, जंगलों की चारा पत्तियों, अल्पाइन चारागाह इत्यादि से प्राप्त किया जाता है।

वर्षा ऋतु में डेरी पशुओं के लिए हरा चारा उपलब्ध होता है। सिंचाई सुविधा के अभाव एवं जोत के छोटे आकार के कारण मुख्यतः ठंडी और गर्मियों के महीने में चारे का संकट रहता है। प्रसिद्ध “चिपको आंदोलन” के बाद, चारागाह के विकास में “वन पंचायतों” अहम भूमिका निभा रहे हैं।

Fodder in Uttarakhand is available mostly from crop residues, forests and pastures. With increasing animal husbandry activities, the state is deficit in both green and dry fodder. About 42-46 per cent of fodder is from crop residues and about 50 per cent comes from the grasses and fodder leaves from forests, alpine grassland etc.

While green fodder is available to dairy animals during the monsoon season, there is fodder crisis during winter and summer months mainly due to lack of irrigation facilities and small size of farm holdings. After famous “Chipco Movement”, the “Van Panchayats” are playing significant role in grassland development.





VI.1. चारा संसाधन: उपलब्धता के सापेक्ष आवश्यकता (Feed Resources: Availability vs. Requirement)

**TABLE VI.1.1: चारा फसल के अंतर्गत क्षेत्रफल तथा कुल बोया गया क्षेत्रफल
(Area under Fodder Crops and Gross Sown Area)**

जिले	Districts	चारा फसल के अंतर्गत क्षेत्रफल Area under Fodder Crops ('000 ha)									कुल बोया गया क्षेत्रफल Gross Sown Area ('000 ha)								
		2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2013-14	2014-15	2000-01	2003-04	2007-08	2008-09	2009-10	2010-11	2011-12	2013-14	2014-15
उत्तराखण्ड	UTTARAKHAND	40.2	38.2	34.8	35.4	35.3	35.1	33.5	30.6	31.9	1,222.3	1,221.5	1,187.4	1,193.2	1,166.4	1,169.7	1,131.8	1,099.2	1,096.8
अल्मोडा	Almora	0	0	0	0	0	0	0	0	0	123.1	130.2	132.7	125.2	126.1	127.5	119.7	114.8	117.2
बागेश्वर	Bageshwar	0	0	0	0	0	0	0	0	0	42.8	41.8	41.5	42.4	41.2	40.9	39.8	40.7	39.8
चमोली	Chamoli	0	0	0	0	0	0	0	0	0	51.6	51.6	48.6	47.1	49.6	52.9	47.4	48.7	46.7
चम्पावत	Champawat	0.1	0.3	0.1	0.1	0.1	0.1	0	0.1	0.1	43.6	34.7	28.7	36.6	26.1	31.2	33.0	26.6	26.5
देहरादून	Dehradun	3.0	2.4	2.7	2.7	2.5	2.8	2.3	2.0	2.8	79.2	79.0	69.1	66.4	66.2	65.0	63.4	59.5	59.0
हरिद्वार	Haridwar	23.1	22.2	20.2	21.6	21.6	20.7	20.2	18.4	18.6	175.9	173.2	161.0	170.9	171.1	166.9	162.1	163.3	161.7
नैनीताल	Nainital	1.8	1.8	1.9	1.8	1.8	1.7	1.7	1.9	1.8	80.4	81.5	79.9	76.8	74.7	74.9	75.0	74.2	71.6
पौड़ी गढ़वाल	Pauri Garhwal	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	118.4	127.7	116.4	111.5	105.6	103.5	98.1	91.3	93.3
पिथौरागढ़	Pithoragarh	0	0	0	0	0	0	0	0	0	79.5	74.3	73.8	73.7	77.4	77.0	73.9	71.7	71.3
रुद्रप्रयाग	Rudraprayag	0	0	0	0	0	0	0	0	0	33.9	31.6	33.2	33.5	29.8	32.8	30.3	30.1	31.4
टिहरी गढ़वाल	Tehri Garhwal	0	0	0	0	0	0	0	0	0	102.1	95.5	90.6	97.2	81.1	79.2	82.2	77.7	82.2
ऊधमसिंहनगर	Udham Singh Nagar	12.2	11.4	9.8	9.2	9.2	9.6	9.2	8.1	8.5	246.7	255.5	265.5	267.2	272.9	273.0	264.8	261.0	255.7
उत्तरकाशी	Uttarkashi	0	0	0	0	0	0	0	0	0	45.0	44.9	46.6	44.7	44.6	44.9	42.1	39.6	40.5

Zero figures indicate either nil or negligible.

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



VI.1. चारा संसाधन: उपलब्धता के सापेक्ष आवश्यकता
(Feed Resources: Availability vs. Requirement)

**TABLE VI.1.2: जिलेवार शुष्क पदार्थ की उपलब्धता, आवश्यकता तथा संतुलन
(District-wise Dry Matter Availability, Requirement and Balance)**

जिले	Districts	विवरण Particulars	शुष्क पदार्थ की उपलब्धता, आवश्यकता तथा संतुलन Dry Matter Availability, Requirement and Balance ('000 MT)					
			2003	2007	2008	2009	2010	2011
अल्मोडा	Almora	उपलब्धता Availability	363.7	426.0	358.4	358.4	385.5	372.0
		आवश्यकता Requirement	958.2	1,127.6	1,178.6	1,237.6	1,306.1	1,386.1
		संतुलन Balance	-594.5	-701.6	-820.2	-879.2	-920.6	-1,014.1
बागेश्वर	Bageshwar	उपलब्धता Availability	163.1	170.2	172.0	172.0	169.3	171.7
		आवश्यकता Requirement	452.9	471.3	477.4	484.2	491.8	500.1
		संतुलन Balance	-289.8	-301.1	-305.3	-312.2	-322.5	-328.4
चमोली	Chamoli	उपलब्धता Availability	397.2	410.2	386.5	386.5	379.1	382.8
		आवश्यकता Requirement	693.9	669.0	669.0	669.9	671.5	673.8
		संतुलन Balance	-296.7	-258.8	-282.5	-283.4	-292.4	-291.0
चम्पावत	Champawat	उपलब्धता Availability	156.4	159.7	153.9	153.9	141.3	147.6
		आवश्यकता Requirement	364.1	400.5	411.6	423.7	436.9	451.0
		संतुलन Balance	-207.6	-240.8	-257.7	-269.8	-295.5	-303.4
देहरादून	Dehradun	उपलब्धता Availability	293.3	301.7	284.7	284.7	281.7	283.2
		आवश्यकता Requirement	747.1	750.3	752.6	756.1	760.8	766.7
		संतुलन Balance	-453.8	-448.6	-467.9	-471.4	-479.1	-483.5
पौड़ी गढ़वाल	Pauri Garhwal	उपलब्धता Availability	470.3	503.1	434.1	434.1	441.0	437.6
		आवश्यकता Requirement	1,049.2	1,025.3	1,027.3	1,032.1	1,040.1	1,051.7
		संतुलन Balance	-578.9	-522.2	-593.2	-598.0	-599.1	-614.1
हरिद्वार	Haridwar	उपलब्धता Availability	680.3	603.2	566.9	566.9	562.0	564.5
		आवश्यकता Requirement	1,259.0	1,303.8	1,333.9	1,377.3	1,435.9	1,512.5
		संतुलन Balance	-578.7	-700.6	-767.0	-810.4	-873.9	-948.0
नैनीताल	Nainital	उपलब्धता Availability	328.0	321.4	322.9	322.9	343.5	333.2
		आवश्यकता Requirement	811.1	933.9	967.8	1,005.3	1,046.8	1,092.8
		संतुलन Balance	-483.2	-612.5	-644.9	-682.4	-703.3	-759.6
पिथौरागढ़	Pithoragarh	उपलब्धता Availability	320.2	322.7	305.8	305.8	316.6	311.2
		आवश्यकता Requirement	864.7	857.0	862.6	870.3	880.1	892.0
		संतुलन Balance	-544.6	-534.3	-556.8	-564.6	-563.5	-580.8
रुद्रप्रयाग	Rudraprayag	उपलब्धता Availability	921.5	982.0	980.7	980.7	954.3	967.5
		आवश्यकता Requirement	393.6	422.5	429.4	436.8	444.6	452.9
		संतुलन Balance	527.9	559.5	551.3	543.9	509.7	514.6
टिहरी गढ़वाल	Tehri Garhwal	उपलब्धता Availability	331.8	364.9	306.6	306.6	308.7	307.7
		आवश्यकता Requirement	431.7	778.2	918.7	1,095.3	1,316.8	1,594.7
		संतुलन Balance	-100.0	-413.4	-612.2	-788.7	-1,008.1	-1,287.0
ऊधमसिंहनगर	Udham Singh Nagar	उपलब्धता Availability	1,647.9	1,697.4	1,701.1	1,701.1	1,621.0	1,661.1
		आवश्यकता Requirement	759.0	1,037.2	1,051.5	1,071.2	1,096.3	1,127.2
		संतुलन Balance	888.9	660.2	649.5	629.9	524.7	533.9
उत्तरकाशी	Uttarkashi	उपलब्धता Availability	368.2	394.8	368.6	368.6	372.1	306.3
		आवश्यकता Requirement	905.2	455.3	434.6	428.0	433.9	451.8
		संतुलन Balance	-537.0	-60.4	-66.0	-59.4	-61.9	-145.5

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



VI.1. चारा संसाधन: उपलब्धता के सापेक्ष आवश्यकता (Feed Resources: Availability vs. Requirement)

**TABLE VI.1.3: खाद्य पोषक तत्वों की उपलब्धता/आवश्यकता तथा अधिकता/कमी
(Availability, Requirement and Surplus/Deficit of Feed Nutrient)**

वर्ष Year	शुष्क पदार्थ Dry Matter ('000 MT)		
	उपलब्धता Availability	आवश्यकता Requirement	अधिकता/कमी Surplus/Deficit
2003	6,442	9,690	-3,248
2007	6,657	10,232	-3,575
2008	6,342	10,515	-4,173
2009	6,342	10,888	-4,546
2010	6,276	11,362	-5,086
2011	6,246	11,953	-5,707

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



भाग VII : कृषि

PART VII : AGRICULTURE

पर्वतीय भूभाग और व्यापक वनाच्छादन के कारण, राज्य के प्रतिवेदित भूमि क्षेत्र के सिर्फ 11 प्रतिशत क्षेत्र में ही कृषि की जाती है। अधिकतर कृषि उत्पादन मुख्यतः मैदानी क्षेत्र के चार जिलों हरिद्वार, देहरादून, ऊधम सिंह नगर और नैनीताल में होता है। शेष जिले बिहंगम पर्वतीय भूभाग, अनुरूपित स्थलाकृति, दूरदराज और पहुंच के बाहर और कमजोर बुनियादी ढांचे से आशक्त हैं, जो कि व्यापक औद्योगिकीकरण और सेवा क्षेत्र के विकास हेतु अनुकूल नहीं हैं। इसलिए कृषि क्षेत्र इन जिलों में रहने वाली जनसंख्या के लिए जीविका का मुख्यस्रोत है। राज्य सरकार पहाड़ी क्षेत्रों के विकास की ओर केन्द्रित कार्य योजना को तैयार करने के लिए गंभीर रूप से प्रयासरत है जिससे कि इन जिलों में पहाड़ी कृषि को बढ़ावा देने के साथ-साथ प्राकृतिक संसाधनों के संदोहन में सहायता मिलेगी। इस परिप्रेक्ष्य में पहाड़ी क्षेत्र के लिए एक नए भूमि एकीकरण अधिनियम पर विचार किया जा रहा है।

गंगा और यमुना नदी भूमि को समृद्ध बनाती है इसलिए भूजल की स्थिति बेहतर है। वर्ष 2013 में ऊधम सिंह नगर के एक ब्लॉक के अलावा राज्य के अन्य सभी ब्लॉको में भूजल की स्थिति बेहतर रही है।

Due to hilly terrain and extensive forest cover, net sown area under agriculture is only 11 per cent of reported land area in the state. Most of the agricultural production comes from the plains of four districts of Haridwar, Dehradun, Udham Singh Nagar and Nainital. The remaining districts are characterised by rugged mountainous terrain, undulating topography, remote and inaccessible villages, weak infrastructure which constrain large-scale industrialisation as well as the development of service sector. Agriculture sector, is therefore, the lifeline for the population in these districts. The State Government is making serious attempts to evolve an appropriate hill-centric development action plan that can promote hill farming in these districts and tap natural resources. In this regard, a new land consolidation act for hilly areas is being considered.

River Ganga and Yamuna enriches the land and therefore, ground water position is better. None of the block was over-exploited and only one block in Udham Singh Nagar was in critical position in 2013.





VII.1. भूमि उपयोगिता प्रवृत्ति (Land Use Pattern)

TABLE VII.1.1: भूमि उपयोगिता प्रवृत्ति (Land Use Pattern)

('000 ha)

जिले	Districts	प्रतिवेदित क्षेत्रफल Reporting Area		वन क्षेत्र Forest Area		पीपी जी एल PPGL*		परती भूमि Fallow Land		शुद्ध बुवाई क्षेत्र Net sown area	
		2000-01	2014-15	2000-01	2014-15	2000-01	2014-15	2000-01	2014-15	2000-01	2014-15
उत्तराखण्ड	UTTARAKHAND	5,671.7	5,992.6	3,465.1	3,800	229.5	192.1	107.4	143.6	769.9	700.2
अल्मोडा	Almora	465.9	464.9	236.2	236.2	31	29.2	11.7	8.5	76.8	78
बागेश्वर	Bageshwar	213.5	207.9	110.2	110.2	27.5	21.4	2.7	3.3	24	22.8
चमोली	Chamoli	847.9	851.8	506.1	506.1	49.7	27.1	2.2	2.5	34.4	32.1
चम्पावत	Champawat	238.6	233.2	132.3	132.3	18.7	16.7	9.5	13.8	27.4	19.1
देहरादून	Dehradun	371.6	363.4	201.8	201.8	0.3	9.7	12.2	15.7	53.7	43.2
हरिद्वार	Haridwar	231.3	232.8	72.4	72.4	0	0.1	7	8	120.9	116.1
नैनीताल	Nainital	406.4	408	298.3	298.2	0	0.3	4.8	7.6	47.7	43.6
पौड़ी गढ़वाल	Pauri Garhwal	672.8	669.1	385.1	385.1	35.9	34	26.9	40	76.8	62.6
पिथौरागढ़	Pithoragarh	410.6	746.7	205.2	540.2	53.3	46	8.4	10.4	44.3	40.3
रूद्रप्रयाग	Rudraprayag	235.4	234.8	179.9	180.4	4.2	2.8	0.6	0.6	21	20.1
टिहरी गढ़वाल	Tehri Garhwal	485.8	485.5	322.1	321.6	0.6	0.2	12.3	17.7	63.8	54.6
ऊधमसिंहनगर	Udham Singh Nagar	279.5	281.8	93.7	93.8	0	0	5.1	10.7	149.9	139.2
उत्तरकाशी	Uttarkashi	812.4	812.7	721.7	721.7	8.2	4.5	4	4.8	29.1	28.5

* PPGL - Permanent Pasture and Grazing Land.

Zero indicates either nil or negligible.

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



VII.2. क्षेत्रफल तथा उत्पादन (Area and Production)

**TABLE VII.2.1: जिलेवार क्षेत्रफल तथा उत्पादन - अनाज तथा दलहन
(District-wise Area and Production – Cereals and Pulses)**

जिले	Districts	अनाज (Cereals)						दलहन (Pulses)					
		क्षेत्रफल Area (000 ha)			उत्पादन Production ('000 MT)			क्षेत्रफल Area ('000 ha)			उत्पादन Production ('000 MT)		
		*2009-14	2014-15	2015-16	*2009-14	2014-15	2015-16	*2009-14	2014-15	2015-16	*2009-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	861.1	818.1	800.9	1,736.8	1,565.6	1,641.1	53	57.3	62.9	43.6	47.4	51.5
अल्मोडा	Almora	110	104.3	106.3	126.8	123.6	97.6	5.1	5.4	6.6	4.3	3.8	6.1
बागेश्वर	Bageshwar	36.9	36.3	34.7	51.1	44.1	44.3	2.7	2.4	3.1	1.9	1.9	2.1
चमोली	Chamoli	43.8	40.8	42	58.7	51.1	54.1	2.1	2.5	3.1	1.7	2.7	3
चम्पावत	Champawat	22.6	20.3	19.3	28.9	29.3	23.9	2.7	3	2.7	2.1	2.7	2.8
देहरादून	Dehradun	44.5	39.2	37.4	89.5	73.4	73.4	3.3	3.9	4.6	2.5	3.7	4.2
हरिद्वार	Haridwar	61.3	57.8	59.8	155.2	121.2	162.9	0.6	0.5	0.3	0.4	0.2	0.3
नैनीताल	Nainital	45.5	42.9	40.4	116.9	101.3	108.3	3.2	3.1	2.8	2.5	2.4	2.1
पौड़ी गढ़वाल	Pauri Garhwal	87.6	78.8	74.3	103.7	99	92.9	7.1	8.5	11.3	5.1	5.5	5.2
पिथौरागढ़	Pithoragarh	61.8	57.6	62.3	85	79.7	75.3	7.6	8.1	7.4	6.9	6.6	7.1
रूद्रप्रयाग	Rudraprayag	29.6	29.8	29.6	43.9	40	39.3	0.6	0.6	0.7	0.4	0.4	0.5
टिहरी गढ़वाल	Tehri Garhwal	68	66.8	65.6	92.4	94.5	94.7	7.8	10	10.2	6	8.7	8.3
ऊधमसिंहनगर	Udham Singh Nagar	217.4	213.1	198	734.5	665.1	723.2	5.3	4.2	5.1	5.6	4.5	5.7
उत्तरकाशी	Uttarkashi	32	30.4	31.4	50.2	45.4	51.2	4.8	5	5.1	4.1	4.3	4.1

*Average from 2009-10 to 2013-14.

Zero denotes either nil or negligible.

SOURCE: Agriculture Department, Govt. of Uttarakhand.



VII.2. क्षेत्रफल तथा उत्पादन (Area and Production)

TABLE VII.2.2: जिलेवार क्षेत्रफल तथा उत्पादन - खाद्यान्न तथा तिलहन (District-wise Area and Production – Food Grains and Oilseeds)

जिले	Districts	खाद्यान्न (Food Grains)						तिलहन (Oilseeds)					
		क्षेत्रफल Area ('000 ha)			उत्पादन Production ('000 MT)			क्षेत्रफल Area ('000 ha)			उत्पादन Production ('000 MT)		
		*2009-14	2014-15	2015-16	*2009-14	2014-15	2015-16	*2009-14	2014-15	2015-16	*2009-14	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	914.1	875.4	863.8	1,780.4	1,613	1,692.6	25.6	28.1	32.4	28.1	26.3	35.6
अल्मोडा	Almora	115.1	109.7	112.9	131.1	127.4	103.6	1.1	1.2	1.4	1	0.7	1
बागेश्वर	Bageshwar	39.6	38.7	37.7	53	46	46.3	0.2	0.2	0.4	0.1	0.1	0.2
चमोली	Chamoli	46	43.3	45.1	60.5	53.8	57.2	0.9	1.1	1.1	0.7	0.9	1.1
चम्पावत	Champawat	25.3	23.3	22	31	31.9	26.7	1	1	1.6	0.8	0.8	1.4
देहरादून	Dehradun	47.8	43.1	42.1	92	75.1	77.6	1.2	0.9	1	0.7	0.6	0.8
हरिद्वार	Haridwar	61.9	58.3	60.2	155.5	121.4	163.3	2.1	2.3	2.8	2	2	2.6
नैनीताल	Nainital	48.7	46.1	43.2	119.4	103.8	110.3	6.2	7.3	8.2	12.2	11.5	12.7
पौड़ी गढ़वाल	Pauri Garhwal	94.7	87.3	85.5	108.8	104.5	98.2	1.5	2.1	2.4	0.8	1	1.4
पिथौरागढ़	Pithoragarh	69.4	65.7	69.7	91.9	86.3	82.3	1.5	1.7	1.5	1.5	1.4	1.4
रूद्रप्रयाग	Rudraprayag	30.2	30.4	30.2	44.4	40.4	39.8	0.4	0.4	0.5	0.2	0.2	0.3
टिहरी गढ़वाल	Tehri Garhwal	75.9	76.8	75.8	98.4	103.1	103	1.8	2	2.3	1	1	1.6
ऊधमसिंहनगर	Udham Singh Nagar	222.7	217.3	203.1	740	669.6	728.9	5.7	6.1	7.5	6.2	5.1	10.1
उत्तरकाशी	Uttarkashi	36.8	35.4	36.4	54.3	49.7	55.4	1.8	1.7	1.7	0.8	1.1	1

*Average from 2009-10 to 2013-14.

Zero denotes either nil or negligible.

SOURCE: Agriculture Department, Govt. of Uttarakhand.



VII.2. क्षेत्रफल तथा उत्पादन (Area and Production)

TABLE VII.2.3: जिलेवार क्षेत्रफल तथा उत्पादन - गन्ना
(District-wise Area and Production – Sugarcane)

जिले	Districts	गन्ना (Sugarcane)					
		क्षेत्रफल Area ('000 ha)			उत्पादन Production ('000 MT)		
		2009-14*	2014-15	2015-16	2009-14*	2014-15	2015-16
उत्तराखण्ड	UTTARAKHAND	103.4	100.7	96.9	6,215.6	6,109	5,885.8
अल्मोडा	Almora						
बागेश्वर	Bageshwar						
चमोली	Chamoli						
चम्पावत	Champawat						
देहरादून	Dehradun	4.4	4.7	6.6	264	309.7	433.6
हरिद्वार	Haridwar	70.4	72.7	68.1	4,196.1	4,304.4	4,032.7
नैनीताल	Nainital	4	3.7	3.7	242.4	238.5	235.8
पौड़ी गढ़वाल	Pauri Garhwal						
पिथौरागढ़	Pithoragarh						
रूद्रप्रयाग	Rudraprayag						
टिहरी गढ़वाल	Tehri Garhwal						
ऊधमसिंहनगर	Udham Singh Nagar	24.7	19.6	18.5	1,512.9	1,255.7	1,183.7
उत्तरकाशी	Uttarkashi						

*Average from 2009-10 to 2013-14.

SOURCE: Agriculture Department, Govt. of Uttarakhand.



VII.3. भूमि तथा जल संसाधन (Land Holding and Water Resources)

TABLE VII.3.1: उत्तराखण्ड में क्रियाशील जोत की स्थिति (Operational Holdings in Uttarakhand)

जोत का आकार Size of Holding	कुल जोत Total Holdings		औसत जोत आकार Average Size of Holding (ha)
	संख्या Number ('000)	क्षेत्रफल Area ('000 ha)	
सीमांत Marginal	672.1	295.6	0.44
लघु Small	157.3	225.1	1.43
अर्ध मध्यम Semi-medium	64.8	175.4	2.71
मध्यम Medium	17.3	94.2	5.45
दीर्घ Large	1.1	25.4	23.11
समस्त श्रेणियाँ All Classes	912.7	815.7	0.89

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

TABLE VII.3.2: विभिन्न सिंचाई के स्रोतों के अंतर्गत शुद्ध सिंचित क्षेत्रफल (Net Irrigated Area under Different Sources of Irrigation)

('000 ha)

विवरण Particulars	2000-01	2003-04	2007-08	2010-11	2011-12	2012-13	2013-14	2014-15
शुद्ध सिंचित क्षेत्रफल Net Irrigated Area	344	346	341	336	339	338	328	330
शुद्ध बोया क्षेत्रफल Net Sown Area	770	761	755	723	714	706	701	700
सकल बोया क्षेत्रफल Gross Sown Area	1,222	1,222	1,187	1,170	1,132	1,124	1,099	1,097
शुद्ध सिंचित क्षेत्रफल स्रोत (Net Irrigated area sources)								
नहर Canals	101	89	89	84	96	88	79	79
टैंक Tank	1	2						
कूप और नलकूप Wells and Tube Wells	204	220	216	228	223	229	226	227
अन्य स्रोत Other Sources	38	35	35	25	20	21	23	24

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



VII.3. भूमि तथा जल संसाधन (Land Holding and Water Resources)

TABLE VII.3.3: उत्तराखण्ड में मुख्य नदी घाटी क्षेत्र (Major River Basins of Uttarakhand)

नदी का नाम Name of the River	उद्गम Origin	लंबाई Length (km)	अपवाह क्षेत्रफल Catchment Area (sq km)	अपवाह क्षेत्र में आने वाले राज्य States Falling in the Catchment Area
गंगा Ganga	गंगोत्री Gangotri (Uttar Kashi)	2,525 +	861,452 +	Uttarakhand, Uttar Pradesh, Himachal Pradesh, Haryana, Rajasthan, Madhya Pradesh, Bihar, West Bengal and Delhi UT.

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





VII.4. वर्षा (Rainfall)

TABLE VII.4.1: जिलेवार औसत वार्षिक वर्षा (District-wise Average Annual Rainfall)

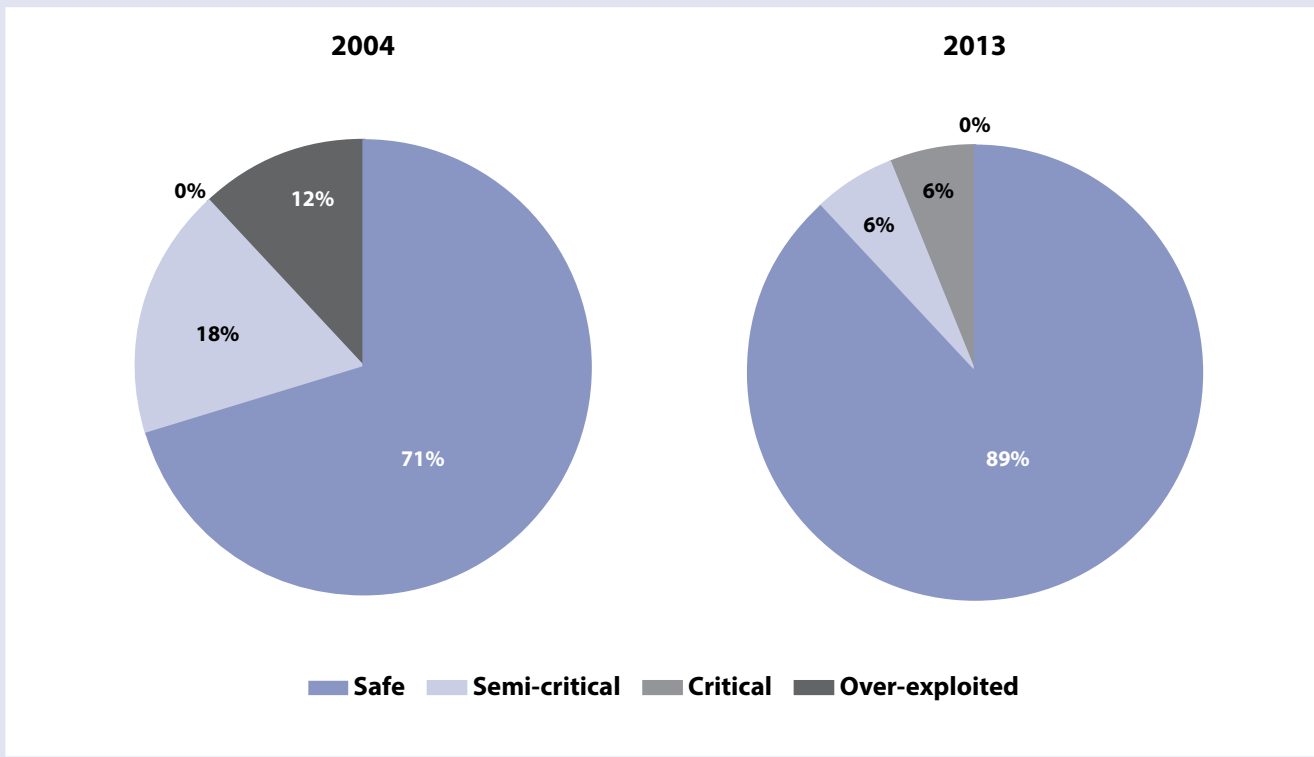
(mm)

जिले	District	2012	2013	2014	2015	2016
उत्तराखण्ड	UTTARAKHAND	1,321	1,778	1,289	1,237	1,287
अल्मोडा	Almora	826.6	1,163.6	1,002.7	916.5	1,006
बागेश्वर	Bageshwar	1,606.1	1,666.9	1,217.7	1,145.1	1,356.2
चमोली	Chamoli	1,314.8	1,912.2	1,231.4	1,336.6	1,441.9
चम्पावत	Champawat	1,314.2	1,476.7	1,320.5	1,390.3	1,303.1
देहरादून	Dehradun	2,002	2,717.6	1,705.7	1,582.9	1,343.5
हरिद्वार	Haridwar	963.4	1,464.8	1,035.6	1,018.9	1,104.2
नैनीताल	Nainital	1,605.2	2,133.9	1,833.3	1,737.9	1,787.2
पौड़ी गढ़वाल	Pauri Garhwal			973.1	981.6	989.9
पिथौरागढ़	Pithoragarh	1,494.2	1,852.7	1,453.7	1,317.8	1,622.5
रूद्रप्रयाग	Rudraprayag	1,262	1,831.7	1,402.5	1,416.5	1,916.7
टिहरी गढ़वाल	Tehri Garhwal				1,045.1	895.9
ऊधमसिंहनगर	Udham Singh Nagar	774.8	1,327.3	980.7	900	737
उत्तरकाशी	Uttarkashi	1,367.3	2,014.7	1,315.5	1,295.3	1,226.8

SOURCE: Customised Rainfall Information System, India Meteorological Department.

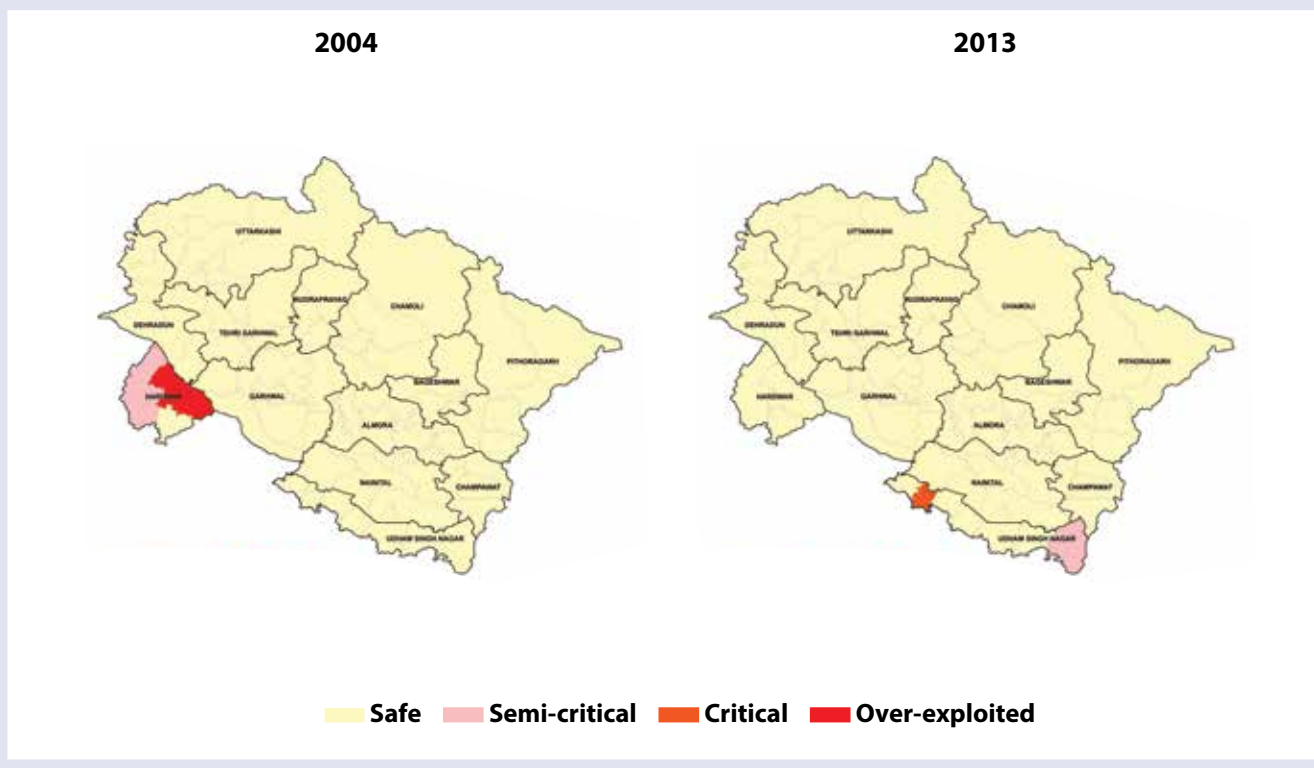


Status of Ground Water (% of Blocks)



Dynamic Ground Water Resources of India (2004-2013), Central Ground Water Board, Ministry of Water Resources, River Development & Ganga Rejuvenation, Govt. of India.

Groundwater Status in Uttarakhand







VII.4. वर्षा (Rainfall)

**TABLE VII.4.2: भूजल स्थिति के अनुसार विकास खण्डों का वितरण
(Distribution of blocks according to ground water status)**

जिले	Districts	विकास खण्डों की संख्या के अनुसार (Number of Blocks under)								
		आंशिक संकटमय Semi-Critical			संकटमय Critical			अत्यधिक दोहित Over-exploited		
		2004	2009	2013	2004	2009	2013	2004	2009	2013
उत्तराखण्ड	UTTARAKHAND	3	5	1		1	1	2		
हरिद्वार	Haridwar	3	2			1		2		
ऊधमसिंहनगर	Udham Singh Nagar		3	1			1			

SOURCE: Dynamic Ground Water Resources of India (2004-2013), Central Ground Water Board, Ministry of Water Resources, River Development & Ganga Rejuvenation, Govt. of India.





भाग VIII : उत्तराखण्ड में डेरी विकास हेतु नीतियाँ तथा योजनाएँ

PART VIII : POLICIES AND SCHEMES FOR DAIRY DEVELOPMENT IN UTTARAKHAND

उत्तराखण्ड में पशुपालन तथा डेरी विकास हेतु दो विभाग हैं। इस खंड के अंतर्गत डेरी तथा पशुपालन के विकास हेतु उनकी नीतियों के संबंध में प्रकाश डाला गया है।

In Uttarakhand, there are two departments for development of animal husbandry and dairying. This section provides information on their activities and policy initiatives taken for development of the sector.

- **Department of Animal Husbandry** has the onus of providing animal health services; farm advisory services; extension and communication; technical backstopping; animal breeding services; and all other inputs related to the livestock sector. It includes Veterinary hospitals, dispensaries, AI centres, Livestock production farms; Training centres and other production support institutions. In order to implement the centrally sponsored schemes in the state, the Government has also created Uttarakhand Livestock Development Board as implementing agency mainly for breed improvement programme, fodder bank projects and Livestock Insurance Schemes.
- Presently, dairy development activities in Uttarakhand is promoted by:
 - **Dairy Development Department** : The Uttarakhand Dairy Development Department promotes dairy activities in the state. It undertakes free animal vaccination, de-worming, forage seed distribution, training and extension to dairy farmers of co-operatives. In addition, it arranges for supply of cattle feed at affordable rates.
 - **Uttarakhand Cooperative Dairy Federation Ltd** : The Uttarakhand Cooperative Dairy Federation (UCDF) has been created under the department to procure, process and market milk produced by dairy farmers in the state. The UCDF also implement dairy development schemes of the State and Central Government like IDDP, RKVY, NPDD, Women Dairy Development Programme, etc.
- The State also has a Veterinary & Animal Science college at Pantnagar to impart education and undertake research in animal & dairy science.





Various schemes offered in the state are :

Policy	Objective	Outlay-17-18 (₹ lakh)		Projected output	Projected outcome
		Revenue	Capital		
Center Sector Schemes :					
Uttarakhand Veterinary Council	Registration of Veterinians in the State	17.94	0.02	Registration of Veterinary Practitioners in the State and providing facilities to employees.	Creation of Veterinary Council of Uttarakhand and registration of veterinary practitioners in the Council. Provide quality veterinary services to dairy farmers.
National Project on Rinderpest Surveillance & Monitoring (NPRSM)	Surveillance & eradication of Rinderpest	5	0	Inspection of 1,116 Day book and 15,745 village level surveillance.	maintain required vigil to sustain the State's freedom from Rinderpest (zero incidence)
Assistance to States for Control of Animal Disease (ASCAD)	To provide logistics for sale of vaccinations to immunize dairy animals against incidence of diseases. Arrangement of meetings & conferences	260	0	Arrange for 190 block level meetings and 13 district level meetings. Treat 3.6 million animals. Vaccinate 38 lakh animals. FMD-48 lakh, BQ- 4 lakh, HS- 1 lakh	Ensure Contagious disease free status for animals in the State. Treat animals and increase their productivity. Create awareness amongst dairy farmers against contagious disease.
National Animal Disease Reporting System (NADRS)	System of disease reporting from the field level to the central server at New Delhi through internet	3.5	0	Providing broadband internet connectivity: at block level - 95, at district level - 13 and at state level - 2	For prompt intimate animal disease information for preventive and curative action in a timely and speedy manner
Establishment and Strengthening of existing Veterinary Hospitals and Dispensaries (ESVHD)	the construction of veterinary hospitals and renovation of veterinary dispensaries	100	40	the construction & renovation of veterinary dispensaries /hospitals. New Veterinary hospitals - 2, New veterinary dispensaries - 2, Renovation of Veterinary hospitals - 5, Renovation veterinary dispensaries - 8, Mobile veterinary clinic - 13	Facilitate dairy farmers with appropriate veterinary services using modern technology at nearest place
Brucellosis Control Programme (Brucellosis - CP)	Brucellosis control	5	0	Disease control. Animal vaccination - 20,000	Prevention of zoonotic disease Brucellosis
National Programme for Bovine Breeding (NPBB)	Improve breed	100.16	0.01	Establishment of Artificial Insemination Centers - 50	Encourage Artificial Insemination for breed improvement
National Livestock Mission	Breed improvement	400.0	0		Risk management, fodder development
Livestock Census	Compilation of animal census activities	0.02	0.0	Compilation of animal census	Collate number of animals for different programmes and use it for development of State
Establishment of statistical cell	For appraisal of animal product production estimates	117.14	0.0	Remuneration of 29 employees. Season-wise estimation of animal product production	Compile authentic figures of schemes and plan for future.



Nakul Swasthya Patra	Provide Animal Health cards to facilitate doorstep treatment to dairy farmers	50.0	0	Arrange for UID identification for 10,45,000 animals	Increase milk production by 2020
E-Pashu Haat	Create and develop E-market for purchase & sale of dairy animals	0.01	0	Upload animal availability data on E-portal	Popularize portal in all districts for purchase of animals.
National Bovine Genomic Centre for Indigenous Breeds (NBGC-IB).	For conservation and protection of local breed of animals	0.01	0	Semen production for AI	Organize nucleus herd of Indian breeds for protection and conservation.
National Dairy Development Project	Infrastructure development of cooperative dairy societies	318.26		Development of milk union infrastructure. Investment in technological improvement. Orientation of dairy farmers.	Increase in income of dairy producer.





Policy	Objective	Outlay-17-18 (₹ lakh)		Projected output	Projected outcome
		Revenue	Capital		
State Sector Schemes :					
Surgery of animals in veterinary hospitals	To ensure surgery of severely ill animals	20	0	Arrangement for modern facilities including X-ray, Ultra sound etc	Establishment of modern surgery center for treatment of ill-fated animals. It will help in increasing productivity of animals
Establishment of veterinary hospitals/animal health center	To provide all health care facilities including medicine at nearest place of the livestock farmers	226.97	0	2 veterinary hospitals, 110 animal health care center and treatment of 5.50 lakh animals	Amalgamation of all the veterinary services at nearest places of the farmers
construction of building of veterinary hospitals and animal health care center	To provide Regular veterinary services/ emergency services to animals	0	125.01	Proper arrangement of 5 animal health care center	To provide advanced treatment to animals by installing modern machines
Establishment of dairy unit for facilitation of practical training	To provide training to livestock extension officer	12	0	Dairy unit-1 Cattle population-75 Milk production-30 thousand Kg	To enhance the skill of the livestock extension officer and other employees by providing practical training
Policy to conserve and improve the Badri cattle	Conservation and improvement of Badri cattle in Uttarakhand	70	50	Purchase and maintenance of 50 Badri cattle	Distribution of high genetic merit bulls through selective breeding so as to increase the productivity local cattle
Policy to protect the animal from various infection	To protect the animals from various infectious diseases and control	10	0	Purchase and storage of life saving drugs for emergency cases	To make the State free from infectious animal diseases
Establishment pf Gaushala	To provide shelter to destitute cattle	40	0	To extend financial support to 21 registered self-help groups, Gaushala for sustenance of the animals	To provide shelter to old and sick animals and also to prevent accident on roads
Distribution of cattle to widow of Kedarnath disaster 2013	To provide livelihood and self-employment	0.01	0	To provide livelihood and self-employment	To promote animal rearing in disaster areas so as to increase milk production and arrangement of balanced feed
To provide livelihood to Dharchula residents	To provide livelihood to people of very remote hilly areas of the State	20	0	To improve the economy of people by providing self employment.	To improve the economy of people by providing self employment. It would help in combating migration.
Cow-rearing scheme	Encourage farmers to adopt dairying for livelihood and employment generation.	56	0	Provide employment to 652 beneficiaries in cow rearing.	Encourage dairy farming & generate self-employment opportunities. Increase milk production @21% till 2020.
Establishment of fodder bank (storage & distribution)	Provide concentrated digestible feed at village level	70	0	Establish 5 village level fodder banks. Feed block – 64,157, urea-molasses block-4,042	Improve milk production through better availability of digestible concentrated feed.
Dairy Development Project	building up cooperative infrastructure, revitalisation of sick dairy cooperative milk unions	280	0	Managing employees. Subsidise transportation expenses in milk usage. Educate dairy farmers. Strengthening Central DairyLaboratory	Increase in milk and dairy product sales. Establish dairy cooperatives in remote villages in hilly regions for employment generation.



Women Dairy Development Project	For economic and social upliftment of women and connect them to main developmental stream	477.71	0	Organise 26 women dairy cooperatives at villiage level. To induct 520 women in management committee of cooperatives. Provide village level employment to 26 women.	With availability in income, the financial position of women would improve. Revive leadership qualities, confidnce and decision making capabilities in women.
Establishment of Cooperative Dairy Training Institute	Provide information regarding animal husbandry and milk production to dairy farmers with reference to the state	-	70	Proposed Government Training Institute at Nainital district alongwith student hostel	The farmers in hilly region can adopt animal husbandry and milk production suitable to their ecology.
Strengthening milk processing complex	Strengthening, modernisation and expansion of dairy processing plants in current context.	0	25	Strengthening milk processing plants in districts	Increase in annual turnover of Milk Unions
Price incentive to dairy farmers	To facilitate increase in village level milk production, price incentive to be paid to dairy farmers based on the actual quantity of milk poured	1,500	0	To compensate increased cost of milk production	To enroll more and more dairy farmers in societies and to encopurage village level milk production.





Ganga Gaya Mahila Dairy Yojna:	Economic and social upliftment of rural women	300	0	Provide better cow breed to women members of dairy cooperative societies	Rural women attaining economic self-reliance
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In addition to above schemes, NLM funds from Gol were used to establish grasslands including grass reserves in Van Panchayats and other common property resources in eleven districts of Uttarakhand. The objective was to encourage farmers to adopt scientific approach for the production of high quality fodder, its conservation optimum utilisation and dissemination of high quality fodder germplasm. It also imparts training to dairy farmers on fodder production. State Department of Animal Husbandry is implementing agency for Component (I) – Fodder production from Non-forest wasteland/rangeland/grassland/non-arable land under “Sub-Mission on Fodder and Feed Development” as per NLM guideline 2016. While component (II) - Fodder production from Forest land is operated by the Forest Department through the Joint Forest Management Committees. Whereas under Component (V) – Conservation of fodder through post-harvest technologies scheme of NLM, the State Animal Husbandry Department through Dairy Department has undertaken distribution of hand driven chaff cutter to interested dairy farmers. Under the scheme, the farmers holding 1-5 livestock are provided Hand Driven Chaff Cutter with a upper ceiling of 75% or ₹ 3,750/- which ever minimum uneder Central assistance.





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 to dry animals.



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