



Government of Meghalaya

**REPORT ON INTEGRATED
SAMPLE SURVEY
FOR**

**ESTIMATION OF PRODUCTION
MILK, EGG AND MEAT**

YEAR: 2019-20.



**DIRECTORATE OF ANIMAL HUSBANDRY & VETERINARY
GOVERNMENT OF MEGHALAYA.**

PREFACE

The Sample Survey for estimation of Major Livestock Products is conducted annually throughout the State. The objectives of the Survey are to estimate the production of Milk, Meat and Eggs in the State as well as in the District level. The availability of data on these products including other information on livestock is useful for the Animal Husbandry and Dairy Sector in the State and others.

This report deals with the result of the Survey conducted during the year 2019– 2020 showing production estimates for each season, the number of Livestock and Poultry population including the numbers of Livestock brought from outside the State for Meat. Besides, information of Livestock per Sq. Kms and per 100 Villages are shown in this report. This report provides a reliable data-base relating to the progress and achievement of different schemes of the Department that enables us to estimate the contribution to the livestock sector.

The result of the Survey indicates a growth rate of **1.39** % on Milk, **1.14** % on Egg and **2.54** % on Meat over 2018-2019.

I am sure that this publication will be of immense help, useful and instrumental to all concerned who are interested in the field of Animal Husbandry and Dairying Activities.

Sd/-
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CHAPTER - I

GENERAL

1.1 The State: - Meghalaya is located in the North-Eastern part of India lying between the latitude of 25°47" and 26°10'North 89°45"East and 92°47" East longitude. The State is bounded on the North by Assam and on the South by Bangladesh and Assam again on the West. Physio graphically, the State is divided into three hills section, (a) Western Meghalaya or Garo Hills (b) Central Meghalaya or Khasi Hills and (c) Eastern Meghalaya or Jaintia Hills. The total area of the State covers about 22,429 Sq. km. The State is divided into Eleven Districts namely: (i) East Khasi Hills (ii) Ri-Bhoi (iii) West Khasi Hills (iv) South West Khasi Hills (v) East Jaintia Hills (vi) West Jaintia Hills (vii) North Garo Hills (viii) East Garo Hills (ix) West Garo Hills, (x) South West Garo Hills and (xi) South Garo Hills.

1.2. Climate: - The climate in Meghalaya is salubrious in general. The Northern and the Southern slopes including the Western Border are comparatively warmer in winter, the main reason being the lower altitudes. The four distinct seasons of the year are recognizable throughout the State. Springtime is generally associated with the germination of seeds as well as the growth of tender grass, leaves and flowers. Then come Summer times, which is generally identified with rain and autumn with ripened and shedding of leaves from certain species of trees.

1.3. Rainfall: - Meghalaya had a distinct position in the world as far as rainfall is concerned. The entire State received rainfall during Summer months only through the Southwest Monsoon. The rain usually falls by the month of May and continues right up to the end of September, and sometimes evens in the middle of October after which it gradually diminishes. Sohra and Mawsynram in the East Khasi Hills are geographically considered as the rainiest places in the World.

1.4. Population and Area: - The State has a total area of 22,429 Sq. Kms. and a population of 23.19 Lakhs as per the 2001 Census and 29.67 lakhs as per 2011 Census (Provisional). Percentage of Urban population is 19.63, and percentage of Literacy is 63.31. Table 1.2 below indicates the District Wise population both Rural and Urban. The Density per Sq. Km. in the State is 132 persons compared to 2001 Census with a density of 103 person and 1991 Census with 79 persons.

Table 1.1: General Information.

Sl. No.	Name of District	No of Sub-Division	No. of Blocks / Taluks / Tehsils	Inhabited Villages 2011 Economics Census	Towns 2011
1.	East Khasi Hills	1	8	923	13
2.	Ri – Bhoi	-	3	579	2
3.	West Khasi Hills	2	6	1093	2
4.	Jaintia Hills	2	5	498	1
5.	East Garo Hills	1	5	1058	2
6.	West Garo Hills	2	8	1577	1
7.	South Garo Hills	-	4	731	1
	State (Overall)	8	39	6459	22

Source: Directorate of Economics & Statistics,
Government of Meghalaya, Shillong.

Table 1.2: Human Population (2011)

Sl. No.	Name of District	Males	Females	Total	Urban Population	Rural Population	Scheduled Caste	Scheduled Tribe
1.	East Khasi Hills	410749	415173	825922	366481	459441	5642	661158
2.	Ri – Bhoi	132531	126309	258840	25253	233587	590	230081
3.	West Khasi Hills	193715	189746	383461	43105	340356	168	375097
4.	Jaintia Hills	196285	198839	395124	28430	366694	1317	376099
5.	East Garo Hills	161223	156694	317917	44192	273725	509	305180
6.	West Garo Hills	324159	319132	643291	74858	568433	8810	474009
7.	South Garo Hills	73170	69164	129203	13131	129203	319	134237
	State (Overall)	1491832	1475057	2966889	595450	2371439	17355	2555861

Source: Directorate of Economics & Statistics,
Government of Meghalaya, Shillong.

Table 1.3: Land Use Statistics (2007-2008 to 2011-2012)**Hectares.**

Sl. No.	Particulars	2007-08	2008-2009	2009-2010	2010-2011	2011-12
1	2	3	4	5	6	7
	<u>Reporting Area for Land Utilisation Statistics.</u>	2227100	2227100	2228914	2234283	2240837
1.	Forest.	946247	948133	946318	946116	946089
2.	Not Available for Cultivation.	225870	225921	230525	236447	239194
3.	Other Uncultivated Land excluding Fallow Land.	554410	553444	555840	554532	555104
4.	Fallow Land.	217981	215453	213292	213309	215273
5.	Net Area Sown.	282592	284149	282939	283879	285177
6.	Area Sown more than once.	52176	53245	53477	53974	54040
	Total cropped Area.	334768	337394	336416	337853	339217

Source: Directorate of Economics & Statistics, Meghalaya.

Table 1.4: Classification of Households possessing Bovine according to the size of the Unit during the Year 2019-20.

Sl. No.	Name of District	Percentage of Bovines Keepers (Household)							Total
		0-1	2-5	6-10	11-15	16-20	21-25	26 and above	
1	2	3	4	5	6	7	8	9	10
1.	East Khasi Hills	11.68	49.64	16.79	8.03	6.57	1.46	5.84	100%
2.	Ri Bhoi	21.21	36.36	24.24	6.06	10.1	1.01	1.01	100%
3	West Khasi Hills	8.4	32.77	21.01	15.13	12.61	3.36	6.72	100%
4	South West Khasi Hills	9.46	24.32	32.43	12.16	13.51	1.35	6.76	100%
5	East Jaintia Hills	5.19	16.88	18.18	14.29	10.39	9.09	25.97	100%
6	West Jaintia Hills	9.72	33.33	34.72	11.11	4.17	2.78	4.17	100%
7	North Garo Hills	2.38	14.29	21.43	17.86	21.43	11.9	10.71	100%
8	East Garo Hills	5.56	24.44	24.44	21.11	15.56	5.56	3.33	100%
9	West Garo Hills	4	9.33	12.67	20	16.67	14.67	22.67	100%
10.	South West Garo Hills	4.95	17.82	12.87	22.77	12.87	9.9	18.81	100%
11	South Garo Hills	2.13	56.38	28.72	7.45	3.19	2.13	0	100%
	Meghalaya	7.75	28.9	21.33	14.31	11.67	6.02	10.03	100%

Table 1.5 Area Sq.Km. with Density of Livestock Population per Sq.Kms.

Sl. No.	Name of District	Area (Sq. Km) 2011	Density per Sq. Km						
			Indigenous Cattle	Crossbred Cattle	Buffaloes	Pig	Sheep	Goat	Poultry
1	2	3	4	5	6	7	8	9	10
1.	East Khasi Hills	2748	23	5	0	56	21	232	2748
2.	Ri Bhoi	2378	16	7	2	23	6	207	2378
3	West Khasi Hills	5247	15	0	1	13	7	119	5247
4	South West Khasi Hills	1341	24	0	1	20	27	136	1341
5	East Jaintia Hills	2115	26	0	1	11	5	62	2115
6	West Jaintia Hills	1693	34	0	1	36	8	150	1693
7	North Garo Hills	1113	65	0	0	53	2	554	1113
8	East Garo Hills	1490	52	0	0	37	25	271	1490
9	West Garo Hills	3714	60	0	0	32	26	287	3714
10	South West Garo Hills	822	120	0	1	44	71	397	822
11	South Garo Hills	1887	40	0	0	28	18	296	1887
	Meghalaya	24,548	475	12	7	353	216	2711	24,548

Table 1.6 Density of Livestock Population per '100' Villages

Sl. No.	Name of District	Indigenous Cattle	Crossbred Cattle	Buffaloes	Pig	Sheep	Goat	Poultry				Overall
								Fowls	Ducks	Improved	Desi	
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	East Khasi Hills	5994	1106	152	11471	639	6765	46771	168	5579	41360	47104
2.	Ri Bhoi	4425	1490	808	4756	2	3851	73230	157	20800	52587	73426
3	West Khasi Hills	11207	59	689	6763	384	5076	46989	14	3286	43717	47003
4	South West Khasi Hills	8666	112	68	7465	63	12126	33705	91	298	33498	33802
5	East Jaintia Hills	32633	322	480	12867	0	12316	37941	47	4121	33867	37988
6	West Jaintia Hills	10342	204	521	11419	2	4098	44472	335	6130	38677	44827
7	North Garo Hills	13376	42	3	7101	1	1013	42294	84	7783	34595	42407
8	East Garo Hills	10975	32	1	7331	3	4987	74790	22	1941	72871	74817
9	West Garo Hills	18886	129	334	8077	733	8407	51848	1008	2141	50715	52863
10.	South West Garo Hills	26680	32	1215	8530	193	14620	47559	858	1568	46849	48448
11	South Garo Hills	8635	5	0	5204	1	6128	34039	164	453	33750	34207
	Meghalaya	151722	3533	4271	91022	2021	79628	533638	2948	54100	482486	536892

Chapter – 2

Livestock Census Data 2007

Table 2.1: Livestock Population (a) Cattle & Buffaloes.

Sl. No.	Name of District	Cattle		Total Cattle	Buffalo	Total Bovine
		Crossbred	Indigenous			
1.	East Khasi Hills	8789	64485	73274	413	73687
2.	Ri – Bhoi	13188	69933	83121	3289	86410
3.	West Khasi Hills	982	114727	115709	2787	118496
4.	Jaintia Hills	1208	146289	147497	2224	149721
5.	East Garo Hills	211	157823	158034	1415	159449
6.	West Garo Hills	2344	260999	263343	11133	274476
7.	South Garo Hills	126	46139	46265	1366	47631
	State (Overall)	26848	860395	887243	22627	909870

Table 2.1 Livestock Population (b) Sheep, Goats, Horses & Ponies.

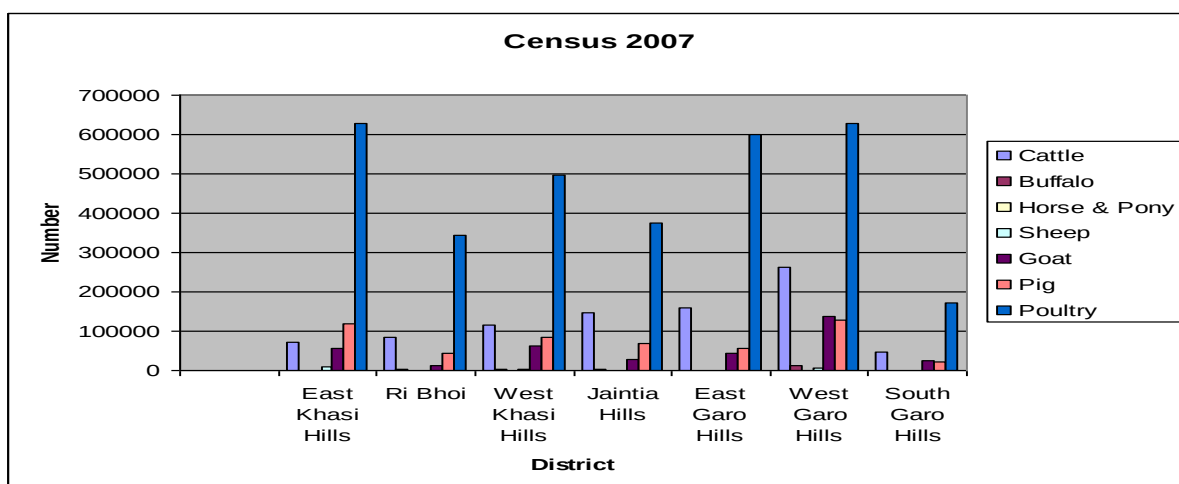
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	3	8954	8957	56632	48
2.	Ri – Bhoi	-	116	116	13835	24
3.	West Khasi Hills	189	3327	3516	61786	1732
4.	Jaintia Hills	30	12	42	27005	33
5.	East Garo Hills	-	1260	1260	43652	0
6.	West Garo Hills	20	7129	7149	138468	864
7.	South Garo Hills	-	1	1	24105	0
	State (Overall)	242	20799	21041	365483	2701

Table 2.1 (c) Pig Population & Livestock Population and Rabbit.

Sl. No.	Name of District	Pigs		Total Pigs	Total Livestock	Total Rabbits
		Crossbred	Indigenous			
1.	East Khasi Hills	28671	90686	119357	258690	9
2.	Ri – Bhoi	4044	38426	42470	143599	744
3.	West Khasi Hills	9272	76438	85710	270482	85
4.	Jaintia Hills	13776	56432	70208	247013	4
5.	East Garo Hills	9466	46071	55537	259907	9
6.	West Garo Hills	2152	126194	128346	549868	565
7.	South Garo Hills	2776	19953	22729	94473	7
	State (Overall)	70157	454200	524357	1824032	1423

Table 2.2: Poultry Population.

SL No.	Name of Districts	Fowls			Ducks			Turkey	Other Poultry Birds like Guineas , Fowls etc.	Grand Total
		Desi	Impro-ved	Total	Desi	Impro-ved	Total			
1.	East Khasi Hills	417099	53292	470391	4492	370	4862	-	-	629036
2.	Ri – Bhoi	312519	27422	339941	2739	1771	4510	12	-	344451
3.	West Khasi Hills	457059	37166	494225	2727	1285	4012	-	-	498237
4.	Jaintia Hills	329824	37479	367303	5704	1832	7536	-	-	374839
5.	East Garo Hills	505718	88695	594413	4671	659	5330	-	-	599743
6.	West Garo Hills	565964	25131	591095	36037	1904	37941	-	-	629036
7.	South Garo Hills	164816	4313	169129	2032	155	2187	-	9	171316
	State (Overall)	2752999	273498	3026497	58402	7976	66378	12	9	3092896



Livestock Census Data 2012.

Table 2.3 Livestock Population (a) Cattle & Buffaloes

Sl. No.	Name of District	Cattle		Total Cattle	Buffalo	Total Bovine
		Crossbred	Indigenous			
1.	East Khasi Hills	12807	69410	82217	1756	83973
2.	Ri Bhoi	9295	27614	36909	5043	41952
3	West Khasi Hills	498	95150	95648	5849	101497
4	South West Khasi Hills	331	25652	25983	202	26185
5	East Jaintia Hills	622	62981	63603	927	64530
6	West Jaintia Hills	663	33610	34273	1692	35965
7	North Garo Hills	241	76379	76620	18	76638
8	East Garo Hills	196	66400	66596	8	66604
9	West Garo Hills	1631	239283	240914	4233	245147
10.	South West Garo Hills	134	113390	113524	5164	118688
11	South Garo Hills	40	69426	69466	2	69468
	Meghalaya	26458	879295	905753	24894	930647

Table 2.3 Livestock Population (b) Sheep, Goats, Horses & Ponies.

Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	364	7030	7394	78334	23
2.	Ri Bhoi	0	10	10	24033	7
3	West Khasi Hills	441	2820	3261	43097	1142
4	South West Khasi Hills	0	185	185	35892	67
5	East Jaintia Hills	0	0	0	23770	6
6	West Jaintia Hills	0	8	8	13317	25
7	North Garo Hills	0	8	8	5787	0
8	East Garo Hills	0	16	16	30172	15
9	West Garo Hills	0	9284	9284	106516	16
10.	South West Garo Hills	0	819	819	62135	0
11	South Garo Hills	0	6	6	49272	0
	Meghalaya	805	20186	20991	472325	1301

Table 2.3 (c) Pig Population & Livestock Population, Dogs and Rabbit.

Sl. No	Name of District	Pigs		Total Pigs	Total Livestock	Total Dogs	Total Rabbits
		Crossbred	Indigenous				
1.	East Khasi Hills	53818	79011	132829	302553	33221	231
2.	Ri Bhoi	12596	17082	29678	95680	18670	177
3	West Khasi Hills	14123	43296	57419	206416	19844	22
4	South West Khasi Hills	7333	14764	22097	84426	7523	0
5	East Jaintia Hills	7262	17572	24834	113140	5393	0
6	West Jaintia Hills	14368	22744	37112	86427	4059	13
7	North Garo Hills	6215	34331	40546	122979	32202	0
8	East Garo Hills	5547	38808	44355	141162	50589	0
9	West Garo Hills	6055	96283	102338	463301	49116	780
10	South West Garo Hills	921	35333	36254	217896	12414	10
11	South Garo Hills	9746	32093	41839	160585	23941	60
	Meghalaya	137984	431317	569301	1994565	256972	1293

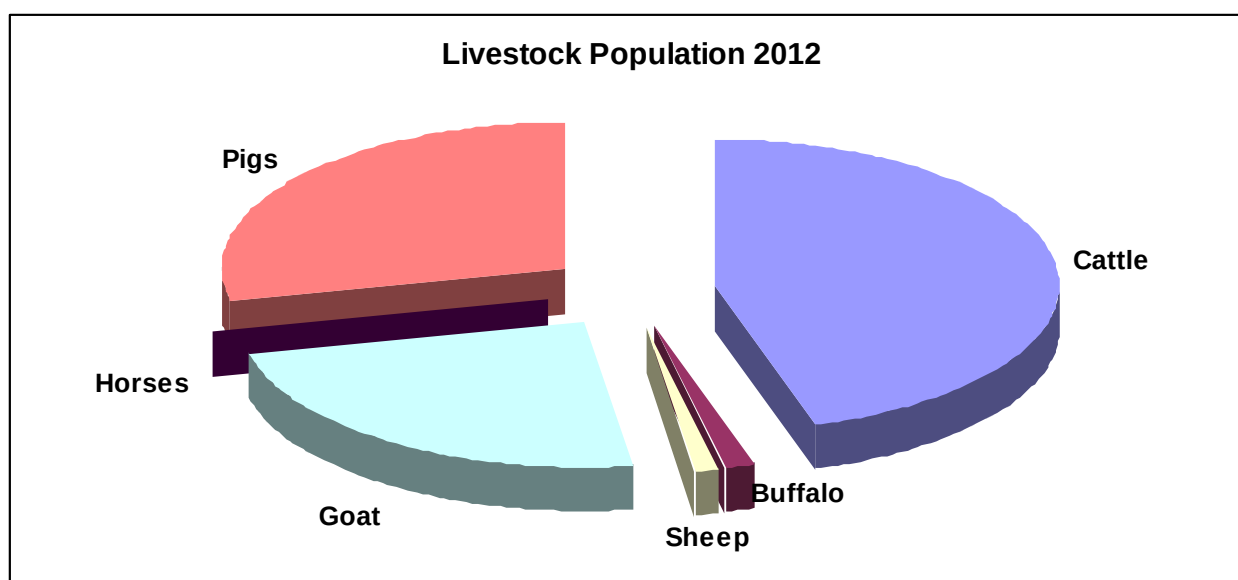
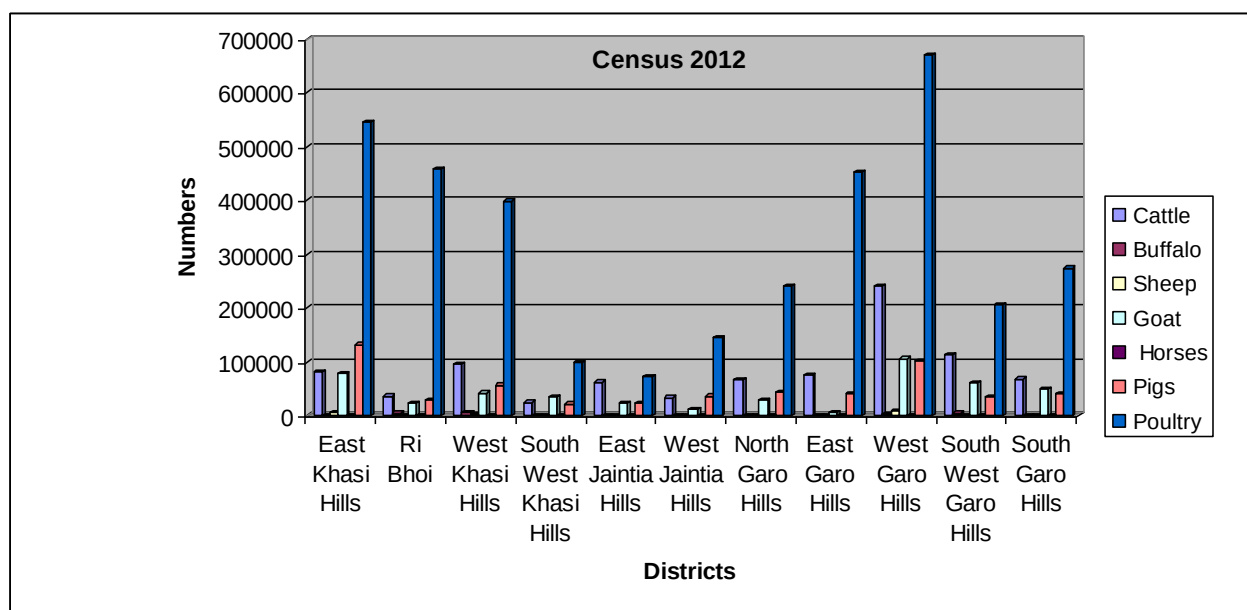


Table 2.4: Poultry Population.

SL No .	Name of Districts	Fowls			Ducks			Turkey	Other Poultry Birds like Guineas , Fowls etc.	Grand Total
		Desi	Impro-ved	Total	Desi	Impro -ved	Total			
1.	East Khasi Hills	477111	64502	541613	1840	106	1946	359	1541	545459
2.	Ri Bhoi	327182	129772	456954	960	21	981	76	167	458178
3.	West Khasi Hills	371054	27881	398935	102	16	118	0	0	399053
4.	South West Khasi Hills	98886	882	99768	268	0	268	19	0	100055
5.	East Jaintia Hills	65273	7953	73226	91	0	91	0	0	73317
6.	West Jaintia Hills	124838	19697	144535	862	226	1088	40	25	145688
7.	North Garo Hills	197113	44385	241498	423	58	481	0	167	242146
8.	East Garo Hills	440733	11744	452477	134	0	134	0	30	452641
9.	West Garo Hills	629866	27045	656911	12692	79	12771	2	96	669780
10.	South West Garo Hills	195467	6660	202127	3643	2	3645	0	133	205905
11.	South Garo Hills	270036	3636	273672	1316	6	1322	2	26	275022
	Meghalaya	3197559	344157	3541716	22331	514	22845	498	2185	3567244



Livestock Census Data 2019.

Table 2.5 Livestock Population (a) Cattle & Buffaloes

Sl. No.	Name of District	Cattle		Total Cattle	Buffalo	Total Bovine
		Crossbred	Indigenous			
1.	East Khasi Hills	14550	63359	77909	779	78688
2.	Ri Bhoi	16468	38094	54562	4259	58821
3	West Khasi Hills	213	78240	78453	3779	82232
4	South West Khasi Hills		32732	32732	1920	34652
5	East Jaintia Hills	965	54649	55614	1124	56738
6	West Jaintia Hills	184	57438	57622	1706	59328
7	North Garo Hills	22	72653	72675	20	72695
8	East Garo Hills	76	77196	77272	-	77272
9	West Garo Hills	913	222108	223021	937	223958
10.	South West Garo Hills	14	99010	99024	1187	100211
11	South Garo Hills		74686	74686	3	74689
	Meghalaya	33405	870165	903570	15714	919284

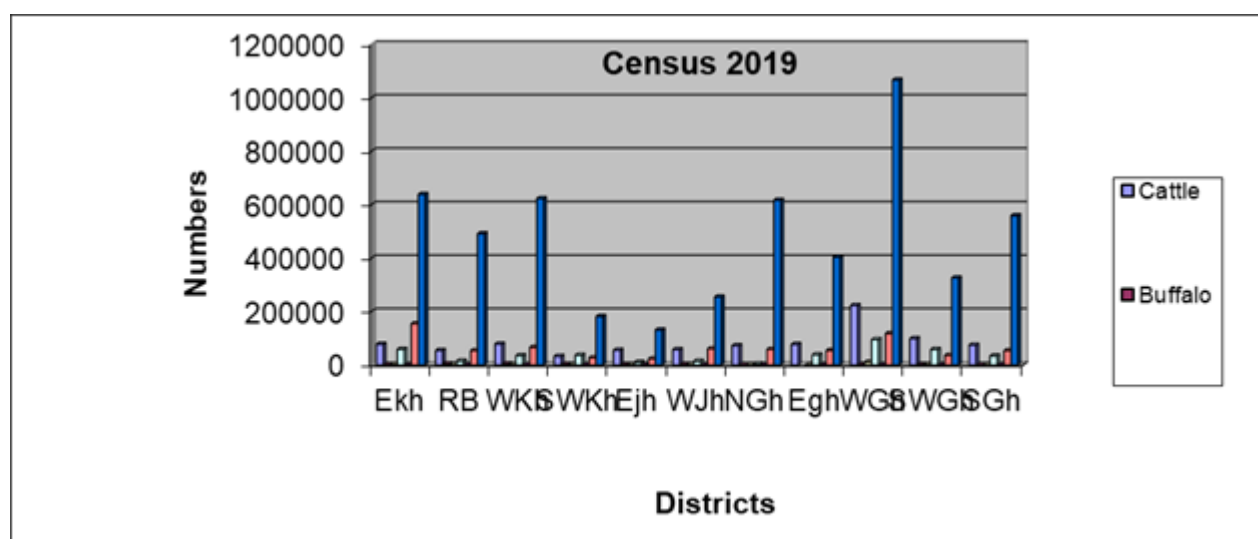


Table 2.5 Livestock Population (b) Sheep, Goats, Horses & Ponies.

Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	41	1891	1932	58783	2
2.	Ri Bhoi	0	13	13	14629	14
3	West Khasi Hills	6	1463	1469	35356	334
4	South West Khasi Hills	0	25	25	36470	162
5	East Jaintia Hills	0	0	0	10170	0
6	West Jaintia Hills	50	0	50	14042	1
7	North Garo Hills	0	7	7	2745	0
8	East Garo Hills	0	0	0	37889	0
9	West Garo Hills	2	10687	10689	94962	15
10.	South West Garo Hills	0	1474	1474	58297	2
11	South Garo Hills	0	20	20	34160	3
	Meghalaya	99	15580	15679	397503	533

Table 2.5 (c) Pig Population & Livestock Population, Dogs and Rabbit.

Sl. No	Name of District	Pigs		Total Pigs	Total Livestock	Total Dogs	Total Rabbits
		Crossbred	Indigenous				
1.	East Khasi Hills	94375	60412	154787	294192	33221	285
2.	Ri Bhoi	50282	3397	53679	127156	18670	526
3	West Khasi Hills	53487	12529	66016	185407	19844	0
4	South West Khasi Hills	447	26650	27097	98406	7523	0
5	East Jaintia Hills	15906	7196	23102	90010	5393	4
6	West Jaintia Hills	37887	23003	60890	134311	4059	33
7	North Garo Hills	9525	49033	58558	134005	32202	41
8	East Garo Hills	7982	46672	54654	169815	50589	148
9	West Garo Hills	3108	114571	117679	447303	49116	587
10	South West Garo Hills	278	35871	36149	196133	12414	0
11	South Garo Hills	2776	50977	53753	162625	23941	100
	Meghalaya	276053	430311	706364	2039363	256972	1724

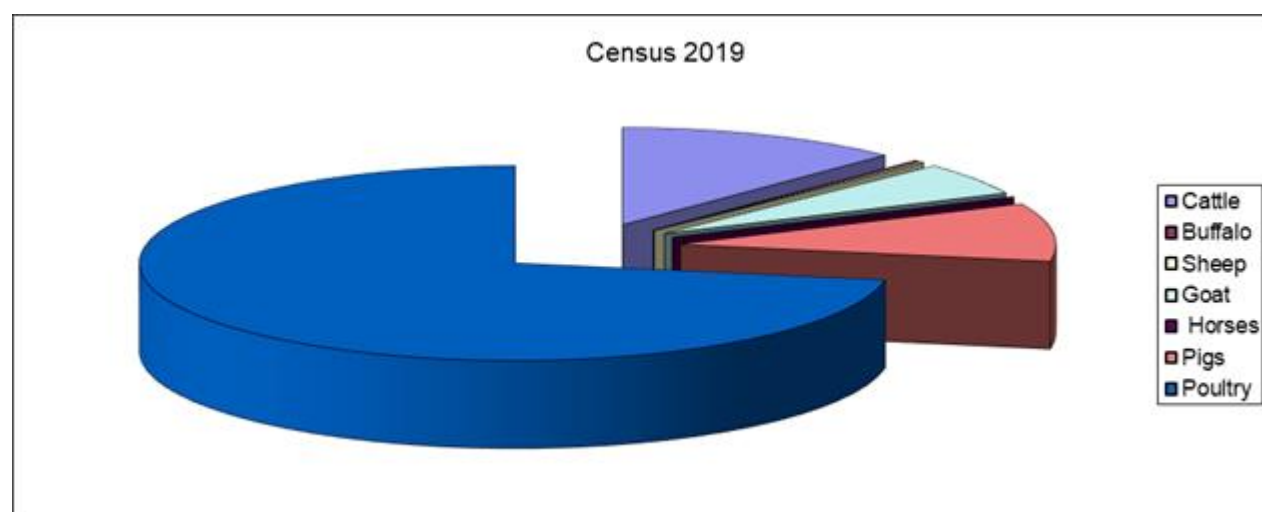


Table 2.6: Poultry Population.

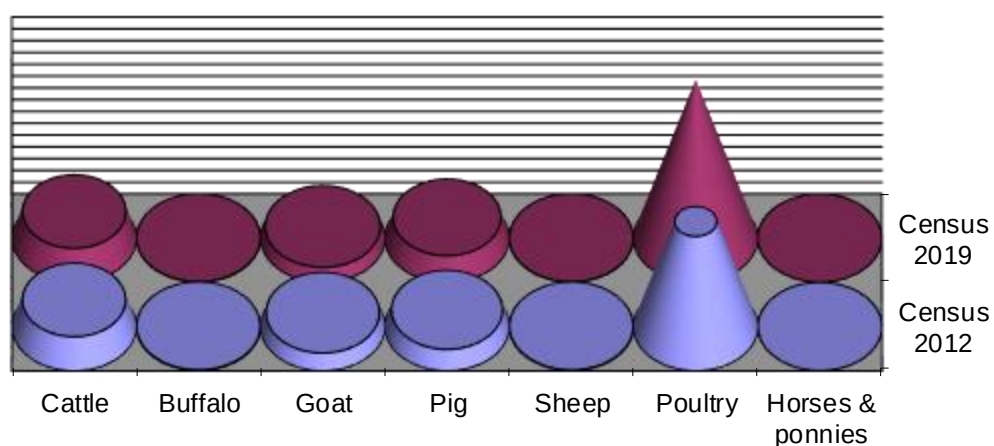
SL No .	Name of Districts	Fowls			Ducks			Other Poultry Birds like Guineas, Fowls etc.	Grand Total
		Desi	Impro-ved	Total	Desi	Impro-ved	Total		
1.	East Khasi Hills	597787	35734	633521	2669	629	3298	0	636819
2.	Ri Bhoi	430070	60545	490615	1120	250	1370	0	491985
3.	West Khasi Hills	569711	53414	623125	0	40	40	0	623165
4.	South West Khasi Hills	180115	1488	181603	338	8	346	13	181962
5.	East Jaintia Hills	125554	5192	130746	541	11	552	0	131298
6.	West Jaintia Hills	241578	12085	253663	510	400	910	0	254573
7.	North Garo Hills	613537	2674	616211	771	10	781	0	616992
8.	East Garo Hills	390119	12751	402870	979	62	1041	0	403911
9.	West Garo Hills	101779 2	3816	1021608	3850 5	6715	45220	240	1067068
10.	South West Garo Hills	300857	18846	319703	5305	1163	6468	0	326171
11.	South Garo Hills	555032	3752	558784	393	54	447	12	559243
	Meghalaya	3197559	344157	5232449	22331	9342	60473	265	5293187

TABLE – 2.7: LIVESTOCK POPULATION: (as per 2012 & 2019 Census)

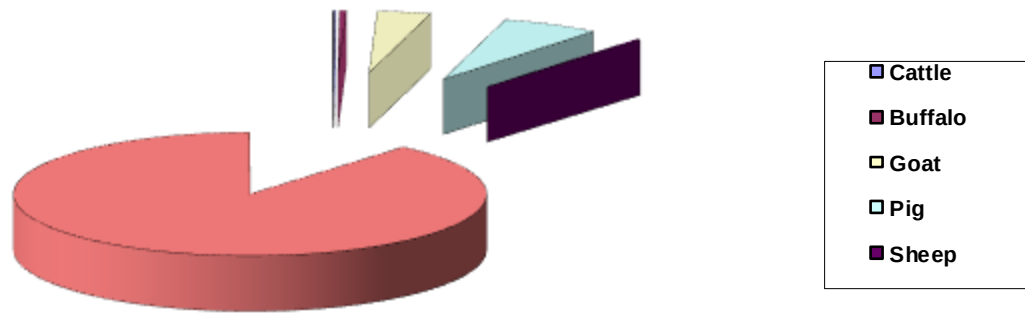
and Growth Rate as compared to 2012 Census

Species	Breed	LC 2012	LC 2019	% Change from last census
Cattle	Indigenous	879295	870165	-1.04%
	Crossbred	26458	33405	26.26%
	Buffalo	24894	15714	-36.88%
		930647	919284	-1.22%
Pig	Indigenous	431317	430311	-0.23%
	Crossbred	137894	276053	100.19%
		569211	706364	24.1%
Sheep	Indigenous	20186	15580	-22.82%
	Crossbred	805	99	-87.7%
		20991	15679	-25.31%
Goat		472325	397503	-15.84%
Horses & Ponnies		1301	273	-79.02%
Poultry (Backyard & Farms)	Desi Fowl	31,97,559	50,43,633	57.73%
	Improved Fowl	3,44,157	2,74,904	-20.12%
		35,41,716	53,18,537	50.17%
	Desi Duck	22331		
	Improved Duck	514		
		22845	60577	165.17%
	Other Poultry	2683	251	-90.64%
Total Poultry		35,67,244	53,79,365	50.79%
Total Horses & Ponnies		1301	533	-59.03%

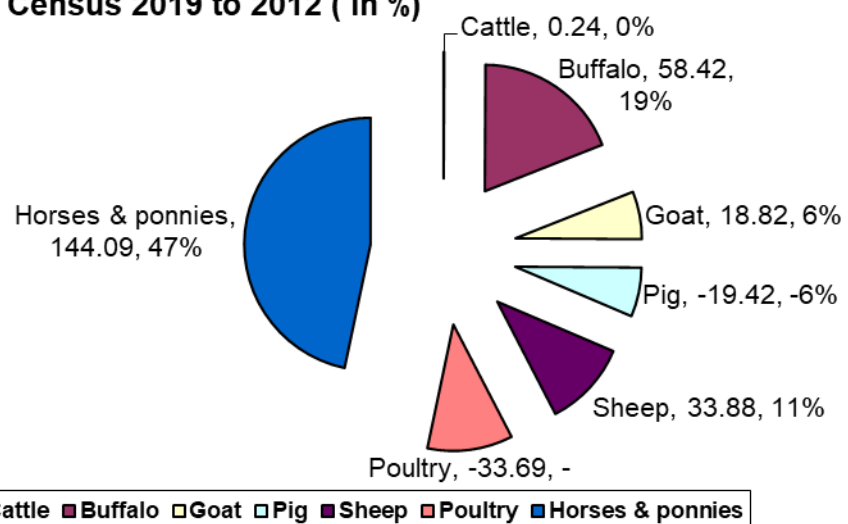
Comparison between census 2012 and census 2019



Growth Rate of Census 2019 to 2012 (Nos)



Growth Rate of Census 2019 to 2012 (in %)



Chapter –3

ANALYSIS OF THE INTEGRATED SAMPLE SURVEY RESULTS FOR THE YEAR

-3.1. - Integrated Sample Survey- Genesis and its usefulness.

Integrated Sample Survey for estimation of Major Livestock Products was first conducted during the year 1983-84. Prior to this period, the basic data for planning and formulation of Schemes for economic developments on scientific lines both in A.H. & Dairying was the census figures only, but the census figures give the information only the Livestock numbers at five years intervals as no information was collected therein on Livestock Production and other aspects of Livestock economy. The census is inadequate to provide timely and available data on the Livestock numbers and products. The importance of availability of Livestock production data which is badly needed for formulating Livestock Development Programmes at all levels has activate the State Animal Husbandry & Veterinary Department to take initiative steps in conducting Sample Survey on the basis of the Methodology evolved by the Indian Agricultural Statistics Research Institute as per the recommendation of the Government of India, Ministry of Agriculture, Department of Animal Husbandry & Dairying.

For establishing & Strengthening of Statistical Wing in the Directorate of Animal Husbandry in various States and Union Territories for the purpose of conducting Sample Survey for Estimation of Major Livestock Products and for carrying out other Statistical activities, the Government of India initiated a Centrally Sponsored Schemes during the Fifth Five Year Plan on a 50:50 sharing basis between the States and the Center. However, from the year 2013-14 onward the Scheme was converted to a Central Sector Scheme and the Central share was increased to 90 % thereby making it to 90:10 basis.

With the financial help and technical advice and guidance through training programmes based as per prescribed Methodology formulated by the Ministry of Agriculture, Department of Animal Husbandry & Dairying an actual production estimate of Milk, Meat & Egg, etc could be arrived at. The result of the Survey data could be published every year, which provides basic information on the actual production level. The availability of current level estimates has become a source of data base information in the State Animal Husbandry Sector for planning and formulating development programmes.

3.2. Coverage of the Survey: - The Survey covered the entire urban and rural areas of all the Districts of the State.

3.3. Period of Survey: - **The year is divided into three seasons for Field Work as detailed below.**

- | | | |
|-------------------|---|----------------------|
| 1. Summer Season | : | March – June. |
| 2. Monsoon Season | : | July – October. |
| 3. Winter Season | : | November – February. |

3.4. Methodology / Sampling Plan. :-

The Methodology was revised on 2012 and again on 2015 where survey has to be done divided in two sub-samples in a season wherein the results is derived from the pooled estimates of the two sub-samples. The Sampling Plan approved by the Technical Committee of Direction (TCD) was as follows: -

The Animal Husbandry Districts in the State would be the strata, Primary Stage unit of Sampling would be villages and the household possessing Livestock / Poultry form the second stage unit. The ultimate units for recording Milk / Wool Yield would be animal in Milk / Sheep whereas no Sub- Sampling in a household would be done for recording the production of eggs and meat.

For estimating the numbers of Livestock and Poultry, complete enumeration of household's along with Bovines, Sheep and Poultry is taken would be done in a Sample of 15% Villages in the State. The allocation of the Sample of Villages to strata would be done in proportion to the Livestock and Poultry population in them as per latest Livestock Census. Each District / Stratum would be further Sub-divided into two or three Sub-strata according to the intensity of Livestock and Poultry population and the Sample of villages in the stratum as per allocation mentioned above further allocated to them sub-strata proportionally. For recording data on yield of Milk, Wool, Eggs and Meat and attendant Livestock Practices, a sub-sample of 5 villages out of that has been enumerated would be selected with equal probability and without replacement. These villages would again be suitable allocated to the different sub-strata form as mentioned above, from each of the selected villages, the numbers of second stage units to be selected for studying different products would be as follows: -

Milk: - {1- 4th Round (Month)} 1(One) Clusters of 2 households each, **Eggs-** {1- 4th Round (Month)} 2 clusters of 5 households each and meat all households and Butcher shops in the selected villages/ wards for the sample. The data on Wool Yield will be collected from 8 households fixed for every round. For estimating the numbers of animals slaughtered all the butchers in the selected villages will be covered. The data from the households and butchers will be supplemented by similar data from registered slaughterhouses, for which complete record are available.

The ultimate units of Sampling for recording detailed information will be 2 animals in milk (Cows, buffaloes or both) for estimation of Milk production and 2 rams (or 1 ram and 1 weather) 2 ewes and 2 lambs for recording Wool production whereas no Sub-Sampling within a household would be done in the cases of eggs and meat. Information for estimating Meat yield & production per animal would be recorded from a Sample of 2 young and 2 adults' animals of each category in case of cattle & buffalo and 3 animals of each species Viz. Sheep, Goat, Pigs and Buffaloes.

3.5. Machinery in the Survey along with staff position.

The complete enumerations of Livestock and Poultry in the 15 % villages are carried out by the departmental staff of Animal Husbandry and Veterinary located close to the selected villages. The informations are collected in prescribed schedules I and II and passed out to the Statistical section in the

State Directorate of Animal Husbandry thereof in respective District & Sub-Divisional A.H. & Veterinary Officers.

The collection of data on Yield and other related items are taken up by the Field staff of Statistical Wing of the Directorate and the information are collected and recorded in relevant Schedules.

Regarding Staff Position: -

The Statistical Wing consists of The Joint Director (Stats.) who is the implementing Officer of the Sample Survey Scheme the Deputy Director (Stats), the Research Officer, the Statistical Officer, the Inspector Statistics, the Statistical Assistants, the Computer Operator, the Enumerators, the Senior Veterinary Assistants and some ministerial staff.

3.6. Schedule Prescribed in the Survey.

1. Village Schedule –I – General Information about the Village.
2. Village Schedule – II – Complete enumeration regarding the numbers of Household in the Selected Villages, the numbers of Cattle, both Cross Bred and Indigenous, Buffaloes, Sheep, Goat, Pigs, Poultry and Numbers of Animals slaughtered.

3.7. Types of Data collected.

The details of data collected as mentioned above in each schedules include recording of Milk, Yield of the selected animals, Feed consumption of Bovines, particulars such as breed, number of lactation's completed, production and disposal of milk and milk products, production and disposal of Dung and study of bovines practices, production purchased and disposal of eggs during last twenty four hours feed supplied to poultry birds, diseases, death and disposal during the last one month and breed composition etc. and study of poultry practices. Numbers of animals slaughtered according to species, breed and age on the day of visit, live weight and carcass weight after slaughter in the case of meat production.

3.8. Schedule L.P.S. – 1.2: Detailed of Milk Production.

The information in the Schedule is (i) identification of selected household in the Sub-Sample of the villages (ii) Details of feed consumption on the day of visit (iii) Milk Yield of individual animals on the day of visit and details of utilization of milk (total production) on the previous day.

3.9. Schedule L.P.S. 2.1: -

Details of egg production and attendant practices in selected household, i.e., production purchased and disposal of egg, feed supply etc.

3.10. Schedule Form III: -

Detail of Meat production.

Table 3.11: Summary results

Sl. No.	Items	Unit	Estimates Previous Year 2018-19	Estimate Current Year 2019-20	% of Increase or Decrease over previous Year
I	Milk				
	Indigenous Cows				
	Population				
A	In Milk	00 No.	1228	1241	1.06%
B	Milch	00 No.	2206	2420	9.7%
	Yield per Day				
C	In Milk	Kgs.	0.774	0.784	1.29%
D	Milch	Kgs.	0.43	0.401	-6.74%
E	Production	000 tonnes	34.681	35.538	2.47%
	Crossbred Cows				
	Population				
F	In Milk	00 Nos.	152	155	1.97%
G	Milch	00 Nos.	175	180	2.86%
	Yield per day				
H	In Milk	Kgs.	8.951	8.988	0.41%
I	Milch	Kgs.	7.746	7.738	-0.1%
J	Production	000 tonnes	49.654	51.048	2.81%

Table 3.11 – contd.

Sl No.	Items	Unit	Estimates Previous Year 2018-19	Estimate Current Year 2019-20	% of Increase or Decrease over previous Year
	Buffalo Population				
K	In Milk	00 No.	14	13	-7.14%
L	Milch	00 No.	23	25	8.7%
	Yield per Day				
M	In Milk	Kgs.	1.843	1.857	0.76%
N	Milch	Kgs.	1.12	0.984	-12.14%
O	Production	000 tonnes	0.938	0.898	-4.26%
	Goat Production				
P	In Milk	00 No.			
Q	Milch	00 No.			
	Yield per Day				
R	In Milk	Kgs.			
S	Milch	Kgs.			
T	Production	000 tonnes			
	Total Milk Production	000 tonnes	85.273	87.484	2.59%
II	Egg Production				
	Layers				
U	Desi	00 No.	8703	8931	2.62%
V	Improved	00 No.	738	779	5.56%
W	Total	00 No.	9441	9710	2.85%
	Yield per layer per year				
X	Desi	No.	105	105	0%
Y	Improved	No.	216	214	-0.93%
	Production				
Z	Desi	Lakhs Nos.	914.22	935.96	2.38%
Aa	Improved	“	159.48	166.84	4.61%
Ab	Total	“	1073.7	1102.8	2.71%

Table 3.12 Annual Report on Sample Surveys to estimate production of Livestock products.
State: - Meghalaya.
2019-2020

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Over-all)
1. (a)	Total No. of District in the State.	11	11	11	11
1. (b)	Strata formed for District levels Estimates.				
2. (a)	Total No. of Villages in the State (inhabited)	7117	7117	7117	7117
2. (b)	No. of villages covered for detailed study.	90	88	88	266
2. ©	No. of villages covered for detailed study.				
	i) for Milk	78	75	70	223
	ii) for Egg	78	75	70	223
3.(a)	Total No. of households in the State. (2012 Census) Lakhs Nos.				
3. (b)	Percentage of Households keeping: -				
	i) Bovine	48.62	46.2	44.59	46.48
	ii) Poultry	82.12	81.7	85.18	83.04
	iii) Sheep	0.08	2.36	1.78	1.37
	iv) Goat	28.42	20.05	17.1	21.92
	v) Pig	59.06	65.09	67.72	63.91
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)	381	348	374	1103
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	621	633	578	1832
	ii) Buffalo in Milk.	48	50	50	148
	iii) Goat in Milk.				
5. (a)	No. of Households observed for egg production.	938	997	1159	3094
5. (b)	No. of Layers observed.				
	i) Desi & Improved	2837	3290	3338	9465
	.				

Table 3.12 – Contd.

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered. '000' Nos.				
	i) Cattle	93.447	92.509	89.047	275.003
	ii) Buffalo	1.566	1.975	1.779	5.32
	iii) Sheep & Goat	38.605	47.344	43.496	129.445
	iv) Pig	109.06	114.185	111.287	334.532
	v) Poultry	1033.975	1306.283	922.078	3262.336

Table 3.13: District-wise Number of Villages selected for complete enumeration during the year 2019-20.

Sl. No.	Name of District	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	37	38	39	114
2.	Ri Bhoi	21	21	20	62
3	West Khasi Hills	28	28	27	83
4	South West Khasi Hills	15	15	15	45
5	East Jaintia Hills	16	16	16	48
6	West Jaintia Hills	16	16	17	49
7	North Garo Hills	20	20	21	61
8	East Garo Hills	19	19	19	57
9	West Garo Hills	37	37	37	111
10.	South West Garo Hills	17	19	19	55
11	South Garo Hills	26	27	27	80
	State (Overall)	252	256	257	765

Chapter – 4
District-wise & Season-wise Estimates
Milk Production
2019-2020

Table 4.1(a): Estimated Number of Productive Cows. (Indigenous)

Sl. No.	Name of Districts	Cows In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	11868	6740	7961	8856
2.	Ri Bhoi	2825	5306	7036	5056
3	West Khasi Hills	10818	14654	15805	13759
4	South West Khasi Hills	3698	6280	6567	5515
5	East Jaintia Hills	6817	9300	12131	9416
6	West Jaintia Hills	3416	5189	2130	3578
7	North Garo Hills	10181	9884	13822	11296
8	East Garo Hills	8403	9193	10126	9241
9	West Garo Hills	43106	30200	30200	34502
10.	South West Garo Hills	15889	14601	15174	15221
11	South Garo Hills	7779	8117	7238	7711
	Meghalaya	124800	119464	128190	124151

Table 4.1 (b): Estimated Number of Productive Cows. (Indigenous)

Sl. No.	Name of Districts	Dry Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	5094	5165	5247	5169
2.	Ri Bhoi	5105	4983	4861	4983
3	West Khasi Hills	9222	9657	9918	9599
4	South West Khasi Hills	3479	3541	3821	3614
5	East Jaintia Hills	5534	5583	5779	5632
6	West Jaintia Hills	6509	6607	6754	6623
7	North Garo Hills	8397	6934	7824	7718
8	East Garo Hills	10941	9437	10394	10257
9	West Garo Hills	31218	30942	30389	30850
10.	South West Garo Hills	18420	19449	19272	19047
11	South Garo Hills	14200	14403	14606	14403
	Meghalaya	118119	116701	118865	117895

Table 4.1(c): Estimated Number of Productive Cows. (Indigenous)

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	16962	11905	13208	14025
2.	Ri Bhoi	7930	10289	11897	10039
3	West Khasi Hills	20040	24311	25723	23358
4	South West Khasi Hills	7177	9821	10388	9129
5	East Jaintia Hills	12351	14883	17910	15048
6	West Jaintia Hills	9925	11796	8884	10202
7	North Garo Hills	18578	16818	21646	19014
8	East Garo Hills	19344	18630	20520	19498
9	West Garo Hills	74324	61142	60589	65352
10.	South West Garo Hills	34309	34050	34446	34268
11	South Garo Hills	21979	22520	21844	22114
	Meghalaya	242919	236165	247055	242047

Table 4.2 (a): Estimated Number of Productive Cows. (Crossbred)

Sl. No.	Name of Districts	Cows In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6505	7264	7903	7224
2.	Ri Bhoi	7830	6418	6021	6756
3	West Khasi Hills	63	116	109	96
4	South West Khasi Hills	38	105	131	91
5	East Jaintia Hills	492	463	442	466
6	West Jaintia Hills	225	167	301	231
7	North Garo Hills	40	80	48	56
8	East Garo Hills	61	83	68	71
9	West Garo Hills	210	578	564	451
10.	South West Garo Hills	35	92	102	76
11	South Garo Hills	0	0	0	0
	Meghalaya	15499	15366	15687	15518

Table 4.2 (b): Estimated Number of Productive Cows (Crossbred)

Sl. No.	Name of Districts	Dry Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	1403	1378	1316	1366
2.	Ri Bhoi	1034	724	918	892
3	West Khasi Hills	23	22	22	22
4	South West Khasi Hills	0	0	0	0
5	East Jaintia Hills	182	142	203	176
6	West Jaintia Hills	15	0	16	10
7	North Garo Hills	0	0	0	0
8	East Garo Hills	2	1	3	2
9	West Garo Hills	39	38	40	39
10.	South West Garo Hills	0	0	0	0
11	South Garo Hills	0	0	0	0
	Meghalaya	2698	2305	2518	2507

Table 4.2 ©: Estimated Number of Productive Cows (Crossbred)

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	7908	8642	9219	8590
2.	Ri Bhoi	8864	7142	6939	7648
3	West Khasi Hills	86	138	131	118
4	South West Khasi Hills	38	105	131	91
5	East Jaintia Hills	674	605	645	641
6	West Jaintia Hills	240	167	317	241
7	North Garo Hills	40	80	48	56
8	East Garo Hills	63	84	71	73
9	West Garo Hills	249	616	604	490
10.	South West Garo Hills	35	92	102	76
11	South Garo Hills	0	0	0	0
	Meghalaya	18197	17671	18205	18024

Table 4.3 (a): Estimated Number of Productive Buffaloes.

Sl. No.	Name of Districts	In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	76	67	60	68
2.	Ri Bhoi	252	353	185	263
3	West Khasi Hills	140	112	117	123
4	South West Khasi Hills	0	0	0	0
5	East Jaintia Hills	47	56	56	53
6	West Jaintia Hills	36	27	54	39
7	North Garo Hills	0	0	0	0
8	East Garo Hills	0	0	0	0
9	West Garo Hills	369	269	367	335
10.	South West Garo Hills	427	444	448	440
11	South Garo Hills	0	0	0	0
	Meghalaya	1347	1327	1287	1321

Table 4.3 (b): Estimated Number of Productive Buffaloes.

Sl. No.	Name of Districts	Dry			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	58	56	57	57
2.	Ri Bhoi	189	186	184	186
3	West Khasi Hills	164	169	167	167
4	South West Khasi Hills	261	261	266	263
5	East Jaintia Hills	56	57	59	57
6	West Jaintia Hills	48	47	51	49
7	North Garo Hills	0	0	0	0
8	East Garo Hills	0	0	0	0
9	West Garo Hills	130	127	132	130
10.	South West Garo Hills	264	277	266	269
11	South Garo Hills	0	0	0	0
	Meghalaya	1170	1180	1182	1178

Table 4.3 ©: Estimated Number of Productive Buffaloes.

Sl. No.	Name of Districts	Milch			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	134	123	117	125
2.	Ri Bhoi	441	539	369	449
3	West Khasi Hills	304	281	284	290
4	South West Khasi Hills	261	261	266	263
5	East Jaintia Hills	103	113	115	110
6	West Jaintia Hills	84	74	105	88
7	North Garo Hills	0	0	0	0
8	East Garo Hills	0	0	0	0
9	West Garo Hills	499	396	499	465
10.	South West Garo Hills	691	721	714	709
11	South Garo Hills	0	0	0	0
	Meghalaya	2517	2507	2469	2499

Table 4.4 (a): Estimated Milk Yield per day per animal (Kg.) Indigenous Cows.

Sl. No.	Name of Districts	In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0.940	0.900	0.890	0.915
2.	Ri Bhoi	1.020	1.010	1.000	1.006
3	West Khasi Hills	0.850	0.840	0.860	0.85
4	South West Khasi Hills	0.820	0.830	0.800	0.816
5	East Jaintia Hills	0.740	0.750	0.780	0.76
6	West Jaintia Hills	0.740	0.750	0.760	0.751
7	North Garo Hills	0.730	0.760	0.750	0.746
8	East Garo Hills	0.700	0.750	0.740	0.731
9	West Garo Hills	0.740	0.760	0.750	0.749
10.	South West Garo Hills	0.730	0.750	0.750	0.743
11	South Garo Hills	0.700	0.730	0.730	0.72
	Meghalaya	0.770	0.787	0.796	0.784

Table 4.4 (b): Estimated Milk Yield per day per animal (Kg.) Indigenous Cows.

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0.658	0.51	0.541	0.579
2.	Ri Bhoi	0.363	0.521	0.596	0.508
3	West Khasi Hills	0.459	0.506	0.533	0.502
4	South West Khasi Hills	0.422	0.531	0.51	0.494
5	East Jaintia Hills	0.408	0.469	0.533	0.477
6	West Jaintia Hills	0.255	0.33	0.184	0.264
7	North Garo Hills	0.400	0.447	0.483	0.445
8	East Garo Hills	0.304	0.37	0.368	0.347
9	West Garo Hills	0.429	0.375	0.377	0.396
10.	South West Garo Hills	0.338	0.322	0.333	0.331
11	South Garo Hills	0.248	0.263	0.244	0.252
	Meghalaya	0.396	0.398	0.413	0.401

Table 4.5 (a): Estimated Milk Yield per day per animal (Kg.) Crossbred Cows.

Sl. No.	Name of Districts	Cows In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	8.970	9.040	8.990	9.023
2.	Ri Bhoi	9.050	9.060	9.040	9.077
3	West Khasi Hills	8.420	8.450	8.430	8.431
4	South West Khasi Hills	8.380	8.440	8.390	8.424
5	East Jaintia Hills	8.830	8.820	8.850	8.846
6	West Jaintia Hills	8.840	8.830	8.850	8.846
7	North Garo Hills	8.750	8.730	8.770	8.732
8	East Garo Hills	8.730	8.740	8.750	8.708
9	West Garo Hills	8.450	8.620	8.490	8.554
10.	South West Garo Hills	8.450	8.540	8.460	8.511
11	South Garo Hills	0.000	0.000	0.000	0
	Meghalaya	8.989	9.009	8.971	8.988

Table 4.5 (b): Estimated Milk Yield per day per animal (Kg.) Crossbred Cows.

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	7.378	7.599	7.77	7.588
2.	Ri Bhoi	7.994	8.142	7.909	8.018
3	West Khasi Hills	6.119	7.072	7.073	6.859
4	South West Khasi Hills	8.27	8.4	8.46	8.424
5	East Jaintia Hills	6.446	6.743	6.108	6.431
6	West Jaintia Hills	8.269	8.83	8.473	8.479
7	North Garo Hills	8.75	8.675	8.751	8.732
8	East Garo Hills	8.453	8.636	8.388	8.469
9	West Garo Hills	7.127	8.088	7.987	7.874
10.	South West Garo Hills	8.329	8.494	8.53	8.511
11	South Garo Hills	0	0	0	0
	Meghalaya	7.656	7.833	7.73	7.738

Table 4.6 (a): Estimated Milk Yield per day per animal (Kg.) Buffaloes.

Sl. No.	Name of Districts	In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	1.860	1.840	1.860	1.863
2.	Ri Bhoi	1.850	1.840	1.870	1.852
3	West Khasi Hills	1.860	1.850	1.850	1.854
4	South West Khasi Hills	0.000	0.000	0.000	0.000
5	East Jaintia Hills	1.850	1.850	1.860	1.853
6	West Jaintia Hills	1.850	1.860	1.860	1.843
7	North Garo Hills	0.000	0.000	0.000	0
8	East Garo Hills	0.000	0.000	0.000	0
9	West Garo Hills	1.850	1.860	1.855	1.85
10.	South West Garo Hills	1.850	1.840	1.850	1.848
11	South Garo Hills	0.000	0.000	0.000	0
	Meghalaya	1.851	1.846	1.840	1.857

Table 4.6 (b): Estimated Milk Yield per day per animal (Kg.) Buffaloes.

Sl. No.	Name of Districts	Milch			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	1.055	0.999	0.946	0.999
2.	Ri Bhoi	1.057	1.204	0.938	1.087
3	West Khasi Hills	0.857	0.737	0.762	0.786
4	South West Khasi Hills	0.000	0.000	0.000	0.000
5	East Jaintia Hills	0.835	0.913	0.898	0.884
6	West Jaintia Hills	0.793	1.357	0.957	1.013
7	North Garo Hills	0.000	0.000	0.000	0.000
8	East Garo Hills	0.000	0.000	0.000	0.000
9	West Garo Hills	1.368	1.263	1.362	1.334
10.	South West Garo Hills	1.143	1.133	1.161	1.145
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	0.991	0.997	0.966	0.984

Table 4.7: Milk Production- Indigenous Cows. (Tonnes)

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	1.361	0.746	0.857	2.964
2.	Ri Bhoi	0.351	0.659	0.851	1.862
3	West Khasi Hills	1.122	1.514	1.645	4.280
4	South West Khasi Hills	0.370	0.641	0.636	1.647
5	East Jaintia Hills	0.615	0.858	1.145	2.618
6	West Jaintia Hills	0.308	0.479	0.196	0.983
7	North Garo Hills	0.907	0.924	1.254	3.085
8	East Garo Hills	0.718	0.848	0.907	2.472
9	West Garo Hills	3.892	2.823	2.741	9.455
10.	South West Garo Hills	1.415	1.347	1.377	4.139
11	South Garo Hills	0.664	0.729	0.639	2.032
	Meghalaya	11.723	11.568	12.248	35.538

Table 4.8: Milk Production- Crossbred Cows (Tonnes).

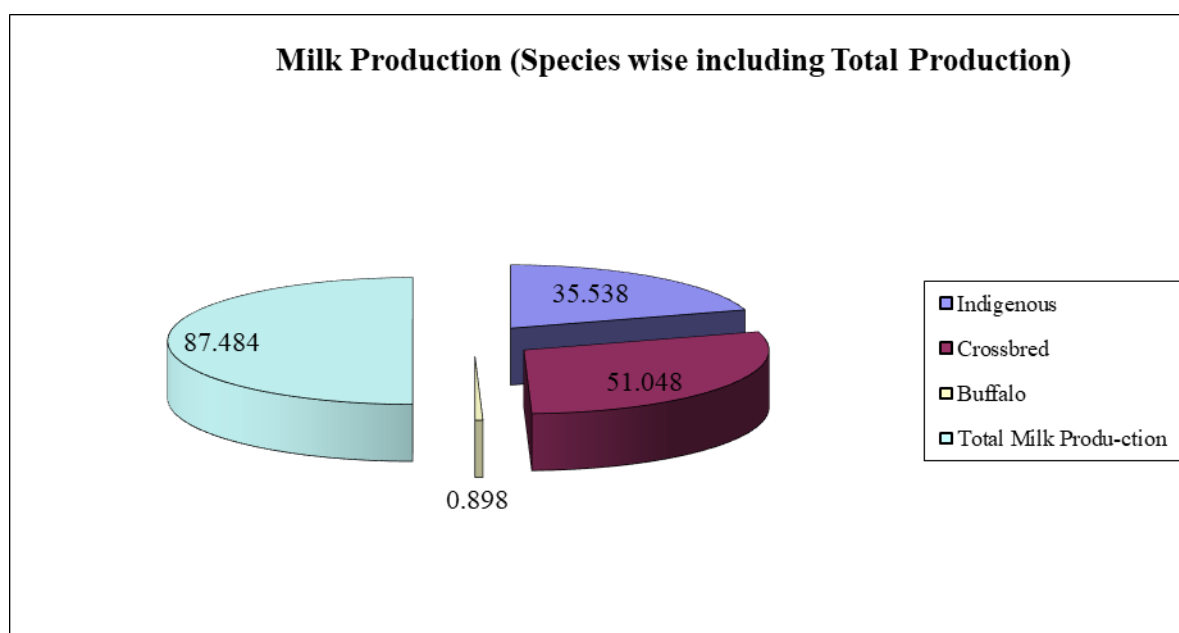
Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	7.118	8.077	8.596	23.791
2.	Ri Bhoi	8.645	7.152	6.586	22.383
3	West Khasi Hills	0.064	0.120	0.111	0.295
4	South West Khasi Hills	0.038	0.108	0.133	0.280
5	East Jaintia Hills	0.530	0.502	0.473	1.505
6	West Jaintia Hills	0.242	0.181	0.322	0.746
7	North Garo Hills	0.043	0.085	0.050	0.178
8	East Garo Hills	0.065	0.089	0.071	0.226
9	West Garo Hills	0.216	0.613	0.579	1.408
10.	South West Garo Hills	0.036	0.096	0.104	0.236
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	16.997	17.024	17.027	51.048

Table 4.9: Milk Production- Buffaloes (Tonnes).

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0.017	0.015	0.013	0.046
2.	Ri Bhoi	0.057	0.080	0.042	0.178
3	West Khasi Hills	0.032	0.025	0.026	0.083
4	South West Khasi Hills	0.000	0.000	0.000	0.000
5	East Jaintia Hills	0.010	0.013	0.012	0.036
6	West Jaintia Hills	0.008	0.012	0.012	0.033
7	North Garo Hills	0.000	0.000	0.000	0.000
8	East Garo Hills	0.000	0.000	0.000	0.000
9	West Garo Hills	0.083	0.062	0.082	0.226
10.	South West Garo Hills	0.096	0.100	0.099	0.296
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	0.304	0.307	0.286	0.898

Table 4.10: Total Milk Production in the State. ('000' Tonnes) 2019-20

Sl. No	Name of Districts	Cow's Milk			Buffalo	Total Milk Production	Previous Years Production 2018-2019	% Increase or Decrease over 2018-19
		Indigenous	Crossbred	Total				
1.	East Khasi Hills	2.964	23.791	26.755	0.046	26.801	26.273	2.01%
2.	Ri Bhoi	1.862	22.383	24.245	0.178	24.423	24.268	0.64%
3.	West Khasi Hills	4.280	0.295	4.575	0.083	4.658	4.605	1.15%
4.	South West Khasi Hills	1.647	0.280	1.927	0.000	1.927	1.875	2.77%
5.	East Jaintia Hills	2.618	1.505	4.123	0.036	4.159	4.146	0.31%
6.	West Jaintia Hills	0.983	0.746	1.729	0.033	1.762	1.770	-0.45%
7.	North Garo Hills	3.085	0.178	3.263	0.000	3.263	3.182	2.55%
8.	East Garo Hills	2.472	0.226	2.698	0.000	2.698	2.602	3.69%
9.	West Garo Hills	9.455	1.408	10.863	0.226	11.089	10.922	1.53%
10.	South West Garo Hills	4.139	0.236	4.375	0.296	4.671	4.616	1.19%
11.	South Garo Hills	2.032	0.000	2.032	0.000	2.032	2.022	0.49%
	Meghalaya	35.538	51.048	86.586	0.898	87.484	86.281	1.39%



**Table 4.11: Average Milk Yield per Animal / Day in Milk and Milch Animals in Meghalaya from 1983-84.
In Kgs.**

Year	In Milk		Buffalo	Milch		Buffalo
	Cows			Cows		
	Crossbred	Indigenous		Crossbred	Indigenous	
1983-84	8.37	0.63	2.05	5.08	0.36	1.04
1984-85	8.38	0.64	2.07	4.56	0.34	1.07
1985-86	8.38	0.64	2.07	4.56	0.34	1.07
1986-87	8.56	0.64	2.07	5.78	0.36	1.12
1987-88	7.28	0.57	2.07	4.99	0.28	1.12
1988-89	8.46	0.68	2.07	5.99	0.37	1.12
1989-90	8.69	0.69	2.07	6.21	0.38	1.12
1990-91	8.38	0.70	2.14	5.92	0.38	1.05
1991-92	8.41	0.72	1.96	6.29	0.38	1.01
1992-93	8.56	0.72	1.78	6.55	0.37	0.93
1993-94	8.36	0.73	1.91	6.51	0.41	0.97
1994-95	8.83	0.75	1.66	6.52	0.40	0.85
1995-96	8.83	0.75	1.66	6.70	0.38	0.79
1996-97	8.74	0.71	1.70	6.50	0.34	0.80
1997-98	8.80	0.73	1.80	6.65	0.34	0.85
1998-99	8.81	0.75	1.80	6.85	0.35	0.83
1999-2000	8.89	0.75	1.69	7.31	0.36	0.85
2000-01	8.94	0.72	1.76	7.02	0.33	0.88
2001-02	8.90	0.75	1.75	6.88	0.33	1.17
2002-03	8.93	0.76	1.76	7.21	0.33	0.90
2003-04	8.96	0.74	1.76	7.09	0.32	0.92
2004-05	8.99	0.76	1.79	7.11	0.33	0.93
2005-06	8.93	0.74	1.83	7.28	0.32	0.96
2006-07	8.93	0.75	1.85	7.30	0.33	0.95
2007-08	8.97	0.77	1.84	7.36	0.33	0.95
2008-09	8.95	0.75	1.86	7.31	0.34	0.95
2009-10	8.962	0.751	1.855	7.310	0.337	0.960
2010-11	8.963	0.758	1.846	7.339	0.341	0.964
2011-2012	8.960	0.760	1.843	7.329	0.342	0.962
2012-13	8.983	0.769	1.842	7.291	0.353	0.975
2013-14	8.961	0.758	1.827	7.239	0.365	0.976
2014-15	8.909	0.768	1.844	7.471	0.365	0.976
2015-16	8.968	0.768	1.861	7.458	0.366	0.976

**Table 4.11: Average Milk Yield per Animal / Day in Milk and Milch Animals in Meghalaya from 1983-84.
In Kgs.**

Year	In Milk		Buffalo	Milch		Buffalo
	Cows			Cows		
	Crossbred	Indigenous		Crossbred	Indigenous	
2016-17	8.888	0.762	1.839	7.542	0.397	1.133
2017-18	8.951	0.774	1.843	7.746	0.430	1.120
2018-19	8.957	0.778	1.843	7.587	0.422	1.121
2019-20	8.988	0.784	1.857	7.738	0.401	0.984

Table 4.12: Estimated Number in Milk and Milch Animals in Meghalaya from 1983-84 ('000' Numbers)

Year	Animals In Milk		Buffaloes	Milch Animals		Buffaloes
	Cows			Cows		
	Crossbred	Indigenous		Crossbred	Indigenous	
1983-84	5.1	90.8	5.2	8.4	158.2	10.1
1984-85	5.6	97.2	5.6	9.1	168.6	10.6
1985-86	6.2	98.5	5.3	9.2	174.6	10.9
1986-87	6.1	100.0	6.0	9.0	174.7	11.1
1987-88	6.0	100.1	5.4	8.8	175.8	10.9
1988-89	6.1	96.9	4.7	8.7	178.9	9.7
1989-90	6.3	95.5	4.0	8.8	175.0	8.3
1990-91	6.9	94.2	4.1	9.8	175.6	8.3
1991-92	7.5	92.9	4.1	10.0	172.1	7.8
1992-93	7.7	93.9	4.4	10.1	180.6	8.4
1993-94	7.9	96.5	4.3	10.2	173.7	8.4
1994-95	7.8	95.9	4.4	10.4	178.7	8.7
1995-96	8.6	91.5	4.6	11.3	178.6	9.6
1996-97	10.0	85.4	5.6	13.4	184.6	11.8
1997-98	10.1	86.1	5.6	13.4	185.6	11.8
1998-99	10.4	86.5	5.4	13.4	182.9	11.8
1999-2000	10.7	90.6	3.4	13.0	189.4	6.8
2000-01	11.2	96.6	3.6	14.2	211.6	7.2
2001-02	11.9	92.7	2.7	15.4	209.7	4.0
2002-03	12.3	93.2	2.7	15.2	212.0	5.3
2003-04	12.6	93.2	2.7	16.0	210.1	5.2
2004-05	13.2	95.1	2.8	16.7	220.8	5.3
2005-06	13.8	98.8	2.8	16.9	226.8	5.3
2006-07	13.9	99.9	2.8	17.0	229.0	5.5
2007-08	14.1	101.2	2.9	17.2	231.8	5.6
2008-09	14.40	103.9	2.9	17.6	232.1	5.7
2009-10	14.50	104.95	2.97	17.78	234.05	5.75
2010-11	14.60	105.73	2.99	17.87	234.99	5.72
2011-12	14.71	106.54	3.01	17.98	236.44	5.76
2012-13	14.68	108.11	3.00	18.09	235.52	5.66
2013-14	14.82	115.47	2.62	18.34	240.01	4.91
2014-15	15.11	114.65	2.48	18.02	241.30	4.69
2015-16	15.228	117.40	2.22	18.162	244.13	4.71

Table 4.12: Estimated Number in Milk and Milch Animals in Meghalaya from 1983-84 ('000' Numbers)

Year	Animals In Milk		Buffaloes	Milch Animals		Buffaloes
	Cows			Cows		
	Crossbred	Indigenous		Crossbred	Indigenous	
2016-17	14.99	122.25	1.22	17.67	234.98	3.17
2017-18	15.16	122.76	1.39	17.51	220.56	2.29
2018-19	15.38	123.04	1.35	18.16	226.07	2.22
2019-20	15.52	124.15	1.32	18.02	242.05	2.50

Table 4.13: Estimated Milk Production in Meghalaya from 1983-84.

Year	Production in '000' tones.				Percentage of increase (+) or decrease (-) over previous year
	Cows		Buffaloes	Total	
	Crossbred	Indigenous			
1983-84	15.6	20.7	3.9	40.2	
1984-85	17.0	22.5	4.1	43.6	(+) 8.46
1985-86	19.0	23.2	4.0	46.2	(+) 5.96
1986-87	19.1	23.5	4.6	47.2	(+) 2.16
1987-88	16.0	20.8	4.1	40.9	(-) 13.33
1988-89	18.9	24.2	3.6	46.7	(+) 14.18
1989-90	20.1	24.3	3.0	47.4	(+) 1.50
1990-91	21.2	24.1	3.1	48.4	(+) 2.11
1991-92	23.1	24.5	2.9	50.4	(+) 4.13
1992-93	24.1	24.7	2.8	51.6	(+) 2.38
1993-94	24.2	25.7	3.0	52.9	(+) 2.52
1994-95	25.1	26.2	2.7	54.0	(+) 2.08
1995-96	27.6	25.0	2.8	55.4	(+) 2.59
1996-97	31.8	22.1	3.5	57.4	(+) 3.61
1997-98	32.4	23.0	3.7	59.1	(+) 2.96
1998-99	33.5	23.7	3.5	60.7	(+) 2.71
1999-2000	34.7	24.8	2.1	61.6	(+) 1.48
2000-01	36.5	25.3	2.3	64.1	(+) 4.06
2001-02	38.8	25.3	1.7	65.8	(+) 2.65
2002-03	40.1	25.8	1.7	67.7	(+) 2.83
2003-04	41.42	25.09	1.74	68.25	(+) 0.84 %
2004-05	43.23	26.27	1.79	71.29	(+) 4.45 %
2005-06	44.88	26.69	1.86	73.43	(+) 3.00 %
2006-07	45.38	27.33	1.91	74.62	(+) 1.62 %
2007-08	46.30	28.26	1.94	76.50	(+) 2.52%
2008-09	47.05	28.46	1.99	77.50	(+) 1.31%
2009-10	47.44	28.76	2.014	78.212	(+) 0.92%
2010-11	47.87	29.25	2.013	79.13	(+) 1.17%
2011-12	48.11	29.54	2.02	79.67	(+) 0.68%
2012-13	48.13	30.35	2.02	80.49	(+) 1.03%
2013-14	48.46	31.95	1.75	82.16	(+) 2.07%
2014-15	49.13	32.16	1.67	82.96	(+) 0.97%
2015-16	49.57	32.668	1.683	83.924	(+)1.16%

Table 4.13: Estimated Milk Production in Meghalaya from 1983-84.

Year	Production in '000' tones.			Percentage of increase (+) or decrease (-) over previous year	
	Cows		Buffaloes		
	Crossbred	Indigenous			
2016-17	48.771	34.112	1.31	84.195	(+) 1.08%
2017-18	49.654	34.681	0.938	85.273	(+)1 .28%
2018-19	50.430	39.943	0.907	86.28	(+) 1.18%
2019-20	51.048	35.538	0.898	87.484	(+) 1.39%

Chapter – 5

District-wise & Season-wise Estimates

Egg Production

**Table 5.1 (a): District-wise and Season-Wise Estimated No. of Poultry (Fowls), 2019-20
Layers – '00 Numbers**

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State
<u>Desi</u>												
Summer	1306	1035	971	270	356	633	672	476	1883	370	606	8576
Monsoon	1715	1155	921	216	293	637	726	514	1502	364	610	8654
Winter	2017	1161	832	163	507	762	853	759	1227	355	643	9281
Over All	1676	1115	908	216	385	676	753	581	1540	364	622	8837
<u>Improved</u>												
Summer	256	158	59	2	55	96	30	92	69	18	0	834
Monsoon	218	159	68	2	40	44	24	90	87	19	9	760
Winter	213	199	57	2	24	45	28	90	48	17	9	731
Over All	228	173	62	2	40	61	27	91	68	18	6	775
<u>Total</u>												
Summer	1562	1193	1031	272	411	728	701	567	1952	388	606	9411
Monsoon	1933	1314	989	218	333	681	750	604	1589	383	618	9414
Winter	2230	1360	889	165	531	806	881	849	1274	373	652	10012
Over All	1904	1288	970	218	425	737	780	671	1609	382	628	9612

Table 5.1(b): District-wise and Season-wise Estimated No. of Poultry (Ducks) 2019-20.
Layers – '00 Numbers

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State
<u>Desi</u>												
Summer	23	12	1	0	0	7	0	0	115	32	0	189
Monsoon	8	3	0	0	0	2	0	0	24	8	3	48
Winter	10	2	0	0	0	0	0	0	29	0	0	41
Over All	14	6	0	0	0	3	0	0	57	13	0	94
<u>Improved</u>												
Summer	2	0	0	0	0	0	0	1	1	0	0	4
Monsoon	2	0	0	0	0	0	0	1	1	0	0	4
Winter	2	0	0	0	0	0	0	1	1	0	0	4
Over All	2	0	0	0	0	0	0	1	1	0	0	4
<u>Total</u>												
Summer	25	12	1	0	0	7	0	1	116	32	0	193
Monsoon	9	4	0	0	0	2	0	1	25	8	3	51
Winter	11	3	0	0	0	0	0	1	30	0	0	45
Over All	16	6	0	0	0	3	0	1	58	13	0	98

Table 5.2 (a): District-wise and Season-Wise Estimated Yield per Layer (Fowls) 2019-20.

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State
<u>Desi</u>												
Summer	36	36	35	34	35	35	35	35	35	35	34	35
Monsoon	36	36	34	34	34	34	34	36	36	34	34	35
Winter	35	35	34	34	34	35	34	35	34	34	35	35
Over All	107	107	103	102	103	104	103	106	105	103	103	105
<u>Improved</u>												
Summer	74	74	70	70	70	71	70	70	71	70	0	72
Monsoon	73	74	68	68	69	69	68	70	70	68	68	71
Winter	72	73	68	68	68	68	66	70	70	68	70	71
Over All	219	221	206	206	207	208	204	210	211	206	138	214
<u>Total</u>												
Summer	42	41	37	34	40	40	36	41	36	37	34	38
Monsoon	40	41	36	34	38	36	35	41	38	36	34	38
Winter	39	41	36	34	36	37	35	38	35	35	35	37
Over All	121	122	110	103	113	113	106	120	109	108	104	114

Table 5.2(b): District-wise and Season-wise Estimated Yield per Layer (Ducks) 2019-20.

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State
<u>Desi</u>												
Summer	35	35	35	0	0	35	0	0	35	34	0	35
Monsoon	35	35	35	35	35	34	34	35	35	35	34	35
Winter	35	35	0	0	0	0	0	0	0	0	0	34
Over All	105	105	70	35	35	69	34	35	70	69	34	103
<u>Improved</u>												
Summer	74	74	0	0	0	71	0	71	69	0	0	72
Monsoon	73	74	0	0	0	71	0	71	69	0	0	71
Winter	72	73	68	68	68	68	66	70	70	68	70	71
Over All	219	221	68	68	68	210	66	212	208	68	70	215
<u>Total</u>												
Summer	37	37	40	0	0	34	0	50	35	34	0	36
Monsoon	42	35	0	0	0	35	0	50	37	34	33	38
Winter	42	33	0	0	0	0	0	50	35	0	0	37
Over All	110	115	0	0	0	103	0	160	105	104	0	107

Table 5.3(a): District-wise and Season-Wise Estimated Egg Production (Fowls) 2019-20.
(In Lakhs)

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State
<u>Desi</u>												
Summer	47.01	37.27	33.99	9.17	12.45	22.14	23.50	16.65	65.90	12.95	20.59	301.63
Monsoon	61.75	41.57	31.30	7.36	9.97	21.67	24.68	18.51	54.09	12.38	20.73	304.02
Winter	70.61	40.65	28.30	5.55	17.25	26.67	29.00	26.26	41.70	12.08	22.52	320.60
Over All	179.37	119.50	93.60	22.07	39.67	70.48	77.19	61.42	161.69	37.42	63.84	926.25
<u>Improved</u>												
Summer	18.93	11.69	4.16	0.14	3.87	6.80	2.08	6.42	4.92	1.23	0.00	60.23
Monsoon	15.90	11.79	4.65	0.11	2.75	3.04	1.64	6.30	6.06	1.31	0.59	54.16
Winter	15.33	14.52	3.86	0.14	1.63	3.03	1.83	6.21	3.35	1.16	0.61	51.67
Over All	50.15	38.00	12.67	0.39	8.26	12.87	5.56	18.93	14.32	3.70	1.20	166.05
<u>Total</u>												
Summer	65.94	48.96	38.15	9.31	16.32	28.94	25.58	23.07	70.82	14.18	20.59	361.86
Monsoon	77.65	53.36	35.95	7.47	12.72	24.71	26.32	24.81	60.15	13.69	21.32	358.18
Winter	85.94	55.17	32.16	5.69	18.88	29.7	30.83	32.47	45.05	13.24	23.13	372.27
Over All	229.52	157.5	106.27	22.46	47.93	83.35	82.75	80.35	176.01	41.12	65.04	1092.3

Table 5.3(b): District-wise and Season-wise Estimated Egg production (Ducks) 2019-20.
(In Lakhs)

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State
<u>Desi</u>												
Summer	0.81	0.42	0.04	0.00	0.00	0.24	0.00	0.00	4.02	1.08	0.00	6.60
Monsoon	0.27	0.12	0.01	0.00	0.00	0.07	0.00	0.00	0.85	0.27	0.10	1.69
Winter	0.35	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	1.42
Over All	1.43	0.63	0.04	0.00	0.00	0.30	0.00	0.00	5.86	1.35	0.10	9.71
<u>Improved</u>												
Summer	0.11	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.00	0.00	0.26
Monsoon	0.11	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.00	0.00	0.27
Winter	0.11	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.00	0.00	0.26
Over All	0.33	0.06	0.00	0.00	0.00	0.01	0.00	0.16	0.23	0.00	0.00	0.79
<u>Total</u>												
Summer	0.92	0.44	0.04	0	0	0.24	0	0.05	4.1	1.08	0	6.86
Monsoon	0.38	0.14	0.01	0	0	0.07	0	0.05	0.93	0.27	0.1	1.96
Winter	0.46	0.1	0	0	0	0	0	0.05	1.06	0	0	1.68
Over All	1.76	0.69	0.04	0	0	0.31	0	0.16	6.09	1.35	0.1	10.5

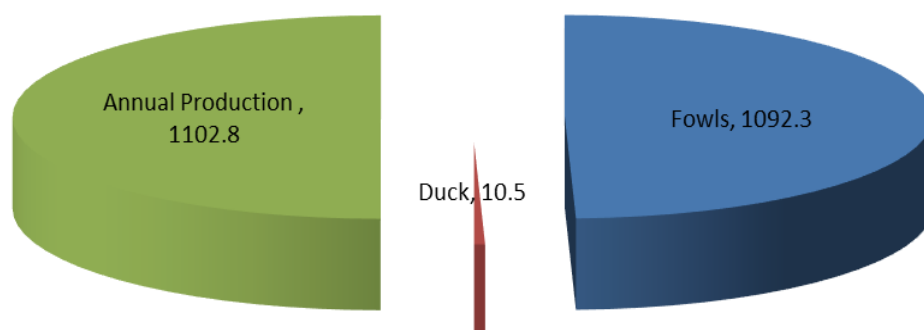
Table 5.4 (a): Estimated Total Egg production. (Lakhs Numbers) 2019-20.

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	65.94	0.92	77.65	0.43	85.94	0.46
2.	Ri Bhoi	48.96	0.44	53.36	0.11	55.17	0.1
3	West Khasi Hills	38.15	0.04	35.95	0	32.16	0
4	South West Khasi Hills	9.31	0	7.47	0	5.69	0
5	East Jaintia Hills	16.32	0	12.72	0	18.88	0
6	West Jaintia Hills	28.94	0.24	24.71	0.07	29.7	0
7	North Garo Hills	25.58	0	26.32	0	30.83	0
8	East Garo Hills	23.07	0.05	24.81	0.07	32.47	0.05
9	West Garo Hills	70.82	4.1	60.15	0.91	45.05	1.06
10.	South West Garo Hills	14.18	1.08	13.69	0.28	13.24	0
11	South Garo Hills	20.59	0	21.32	0.1	23.13	0
	Meghalaya	361.86	6.86	358.18	1.96	372.27	1.68

Table 5.4 (b): Estimated Total Egg production. (Lakhs Numbers) 2019-20.

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2019-20	Annual Production Previous Year 2018-20	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	229.52	1.76	231.28	226.821	1.97%
2.	Ri Bhoi	157.5	0.69	158.19	156.638	0.99%
3	West Khasi Hills	106.27	0.04	106.31	105.551	0.72%
4	South West Khasi Hills	22.46	0	22.46	24.257	-7.41%
5	East Jaintia Hills	47.93	0	47.93	47.977	-0.1%
6	West Jaintia Hills	83.35	0.31	83.66	83.377	0.34%
7	North Garo Hills	82.75	0	82.75	82.12	0.77%
8	East Garo Hills	80.35	0.16	80.51	72.882	10.47%
9	West Garo Hills	176.01	6.09	182.1	180.867	0.68%
10.	South West Garo Hills	41.12	1.35	42.47	43.934	-3.33%
11	South Garo Hills	65.04	0.1	65.14	65.972	-1.26%
	Meghalaya	1092.3	10.5	1102.8	1090.396	1.14%

Egg Production (in Lakhs Nos)



**Table 5.5: Estimated Numbers of Layers in Meghalaya from 1983-84.
Lakhs Nos.**

Year	Fowls			Duck			Both Fowls & Ducks		
	Desi	Improved	Total	Desi	Improved	Total	Desi	Improved	Total
1983-84	4.72	0.19	4.91	-	-	-	4.72	0.19	4.91
1984-85	5.21	0.19	5.40	-	-	-	5.21	0.19	5.40
1985-86	5.35	0.20	5.55	-	-	-	5.35	0.20	5.55
1986-87	5.08	0.20	5.28	-	-	-	5.08	0.20	5.28
1987-88	5.21	0.20	5.41	-	-	-	5.21	0.20	5.41
1988-89	5.38	0.22	5.60	-	-	-	5.38	0.22	5.60
1989-90	5.17	0.34	5.72	-	-	-	5.17	0.34	5.51
1990-91	5.38	0.34	5.72	-	-	-	5.38	0.34	5.72
1991-92	5.37	0.31	5.68	0.24	0.03	0.27	5.61	0.34	5.95
1992-93	5.59	0.35	5.94	0.24	0.03	0.27	5.83	0.38	6.21
1993-94	5.81	0.40	6.21	0.29	0.03	0.32	6.10	0.43	6.53
1994-95	5.93	0.40	6.33	0.29	0.03	0.32	6.22	0.43	6.65
1995-96	6.02	0.43	6.45	0.36	0.03	0.29	6.38	0.45	6.83
1996-97	6.33	0.47	6.80	0.37	0.03	0.40	6.70	0.50	7.20
1997-98	6.53	0.48	7.01	0.35	0.03	0.38	6.88	0.51	7.39
1998-99	6.61	0.46	7.07	0.34	0.03	0.37	6.95	0.49	7.44
1999-2000	6.86	0.51	7.37	0.35	0.03	0.38	7.21	0.54	7.75
2000-01	7.15	0.57	7.72	0.22	0.01	0.23	7.31	0.58	7.89
2001-02	7.33	0.58	7.91	0.23	0.01	0.24	7.56	0.59	8.15
2002—03	7.47	0.59	8.06	0.24	0.02	0.26	7.71	0.60	8.31
2003-04	7.63	0.60	8.23	0.24	0.01	0.25	7.87	0.61	8.48
2004-05	7.70	0.61	8.31	0.24	0.01	0.25	7.94	0.62	8.56
2005-06	7.79	0.62	8.41	0.24	0.02	0.26	8.03	0.64	8.67
2006-07	7.88	0.63	8.51	0.24	0.02	0.26	8.12	0.65	8.77
2007-08	7.97	0.64	8.61	0.25	0.02	0.26	8.22	0.66	8.88
2008-09	8.08	0.65	8.73	0.25	0.02	0.27	8.33	0.67	9.00
2009-10	8.12	0.66	8.78	0.25	0.02	0.27	8.37	0.68	9.05
2010-11	8.14	0.66	8.80	0.25	0.02	0.27	8.39	0.68	9.07
2011-12	8.14	0.66	8.80	0.26	0.02	0.28	8.40	0.68	9.08
2012-13	8.19	0.67	8.86	0.26	0.02	0.28	8.45	0.69	9.14
2013-14	8.24	0.84	9.08	0.26	0.02	0.28	8.49	0.86	9.35
2014-15	8.23	0.824	9.054	0.23	0.007	0.24	8.47	0.83	9.294
2015-16	8.34	0.823	9.163	0.217	0.003	0.22	8.557	0.826	9.383

**Table 5.5: Estimated Numbers of Layers in Meghalaya from 1983-84.
Lakhs Nos.**

Year	Fowls			Duck			Both Fowls & Ducks		
	Desi	Improved	Total	Desi	Improved	Total	Desi	Improved	Total
2016-17	8.57	0.73	9.3	0.12	0.004	0.124	8.69	0.734	9.424
2017-18	8.627	0.74	9.367	0.076	0.00	0.076	8.703	0.74	9.443
2018-19	8.752	0.77	9.522	0.09	0.00	0.09	8.842	0.77	9.615
2019-20	8.837	0.775	9.612	0.094	0.004	0.098	8.931	0.779	9.710

Note: - Estimation on Duck Population was taken up from 1991-92 onwards.

Table 5.6: Estimated Yield per annum per layer in Meghalaya and Total Egg production from 1983-84.

Year	Estimated Yield		Overall	Total Eggs Production (Lakhs Nos.)			Percentage increase (+) or decrease (-) over previous year
	Desi	Improved		Desi	Improved	Total	
1983-84	100	213	104	474.11	39.86	513.97	(+) 6.89
1984-85	98	206	102	510.77	38.62	549.39	(+) 5.30
1985-86	98	209	104	537.12	41.33	578.50	(+) 3.78
1986-87	109	217	114	556.06	44.30	600.36	(+) 3.78
1987-88	110	217	114	573.95	42.76	616.71	(+) 2.72
1988-89	109	219	113	586.88	48.36	635.24	(+) 3.00
1989-90	108	219	115	562.49	73.45	636.28	(+) 0.16
1990-91	110	219	116	591.36	73.79	665.15	(+) 4.54
1991-92	105	219	112	593.38	74.51	667.89	(+) 0.41
1992-93	106	219	113	617.97	82.46	700.43	(+) 4.87
1993-94	105	201	111	641.89	85.71	726.60	(+) 3.74
1994-95	107	201	113	665.44	85.71	751.14	(+) 3.38
1995-96	105	219	113	669.92	99.34	769.26	(+) 2.41
1996-97	103	204	110	690.70	101.27	791.97	(+) 2.95
1997-98	103	207	110	709.06	105.19	814.25	(+) 2.81
1998-99	104	208	111	722.70	101.91	824.61	(+) 1.27
1999-2000	102	207	109	735.19	112.11	847.25	(+) 2.75
2000-01	102	209	110	752.37	121.63	874	(+) 3.16
2001-02	102	221	107	770.76	131.12	901.88	(+) 3.19
2002-03	102	216	110	786.13	129.94	916.07	(+) 1.57
2003-04	102	217	110	803.00	133.00	936.00	(+) 2.18
2004-05	102	217	110	810.08	135.62	945.70	(+) 1.04
2005-06	104	216	113	835	138	973	(+) 2.85
2006-07	103	218	112	836.79	141.20	977.99	(+) 0.51
2007-08	103	218	112	846.07	142.58	988.65	(+) 1.09
2008-09	102	217	109	853.41	144.32	997.73	(+) 2.04
2009-10	102	216	111	854.12	145.58	999.7	(+) 0.20%
2010-11	103	217	112	864.76	146.65	1011.41	(+) 1.17%
2011-12	104	217	112	872.83	147.82	1020.65	(+) 0.91%
2012-13	104	217	113	878.12	149.51	1027.63	(+) 0.69%
2013-14	103	212	112	868.99	180.38	1049.37	(+) 2.11%
2014-15	104	214	114	879.38	177.60	1056.98	(+) 0.725%
2015-16	104	217	105	887.19	176.48	1063.67	(+) 0.63%

Table 5.6: Estimated Yield per annum per layer in Meghalaya and Total Egg production from 1983-84.

Year	Estimated Yield		Overall	Total Eggs Production (Lakhs Nos.)			Percentage increase (+) or decrease (-) over previous year
	Desi	Improved		Desi	Improved	Total	
2016-17	104	214	113	907.90	156.005	1063.9	(+) 0.02%
2017-18	105	216	114	914.22	159.48	1073.7	(+) 0.92%
2018-19	105	212	114	926.976	163.42	1090.4	(+) 1.56%
2019-20	105	214	114	935.96	166.84	1102.8	(+) 1.14%

Chapter – 6

SEASON WISE PERCENTAGE UTILISATION OF MILK EGG & DUNG IN SAMPLE HOUSEHOLD.

2019-20

Table 6.1: Utilisation of Milk.

Season	Sold as fluid Milk	Converted into Milk products	Consumed as Fluid Milk in the Household	Total
Summer	89.81	2.60	7.59	100
Monsoon	96.79	1.68	4.97	100
Winter	94.55	1.34	4.11	100
Overall	96.24	1.74	5.17	100

Table 6.2: Percentage Utilization of Produced Eggs.

Season	Utilisation for Home consumption	Set for Hatching	Egg Sold	Damaged or Spoiled	Total
Summer	21.41	34.16	39.98	4.46	100
Monsoon	16.63	24.29	52.83	6.25	100
Winter	15.81	17.33	63.95	2.91	100
Overall	17.88	25.07	52.51	4.53	100

Table 6.5: Season wise Utilisation of Dung collected From Bovine at Sample Household 2019-20.

Sl No.	Particulars	Unit	Summer	Monsoon	Winter	Over all
1.	Total No. of Sample animals observed for Dung Utilisation.	Nos.	4615	4075	3876	12556
2.	Average quantity of Dung collected per household engaged in Dairy activity per day.	Kg	25.52	24.67	25.4	25.197
3.	Dung Utilized for manure.	Percentage	96.12	96.03	96.02	96.06
4.	Dung Utilized for Dung cake.	Percentage	2.35	2.43	2.6	2.46
5.	Dung Utilized for other purpose.	Percentage	1.53	1.54	1.38	1.48

Table 6.6: Per Capita availability of Milk and Egg

Items	Unit	Per Capita Availability
Milk	Grams / day	84
Eggs	Nos. / year	39

Table 6.3: Season wise Percentage of Animals which were Grazed, Stallfed or Both. 2019-20

Sl No.	Category of Animals	SUMMER				MONSOON				WINTER			
		Only Grazed (%)	Only Stallfed (%)	Both	Over all	Only Grazed (%)	Only Stallfed (%)	Both	Over all	Only Grazed (%)	Only Stallfed (%)	Both	Over all
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.1	<u>CATTLE</u> INDIGENOUS												
	(a) In Milk	70.03	1.27	28.7	100.00	43.71	12.19	44.1	100.00	59.69	5.9	34.41	100.00
	(b) Adult Male	67.46	1.86	30.68	100.00	38.15	4.55	57.3	100.00	70.25	1.86	27.89	100.00
	(c) Young Stock upto 3 Years old.	80.21	1.05	18.74	100.00	40.28	6.01	53.71	100.00	78.34	2.71	18.95	100.00
	Overall: -	73.27	1.31	25.42	100.00	41.4	8.58	50.02	100.00	67.66	3.98	28.36	100.00
1.2	CROSS BRED												
	(a) In Milk	17.07	63.32	19.61	100.00	17.72	73.8	8.48	100.00	12.97	77.79	9.24	100.00
	(b) Adult Male	50.79	23.81	25.4	100.00	45.76	45.2	9.04	100.00	15.38	70.63	13.99	100.00
	(c) Young Stock upto 3 Years old.	59.83	15.65	24.52	100.00	26.96	61.27	11.77	100.00	19.85	69.22	10.96	100.03
	Overall: -	44.55	32.56	22.89	100.00	21.76	69.09	9.15	100.00	15.11	74.82	10.07	100.00
2	BUFFALOES												
	(a) In Milk	91.55		8.45	100.00	93.57		6.43	100.00	89.93		10.07	100.00
	© Adult Male	94.25		5.75	100.00	92.72		7.28	100.00	89.47		10.53	100.00
	(d) Young Stock upto 3 Years old.	93.94		6.06	100.00	86.83		13.17	100.00	85.11		14.89	100.00
	Overall: -	93.87		6.13	100.00	92.32		7.68	100.00	88.65		11.35	100.00

ANNEXURE – X

Distributions of Animals as per the feeding practices observed in the selected households

Name of State: Meghalaya, Year- 2019-20

Sl. No	Category of Animals	Average Feed Consumption (in Kg.per animals/ per day)												No. Of Animals			
		Green Fodder				Dry Fodder				Concentrate							
		Summer	Rainy	Winter	Annual	Summer	Rainy	Winter	Annual	Summer	Rainy	Winter	Annual	Summer	Rainy	Winter	Total
1	Cattle Indigenous/ NonDiscript)																
	a) Adult Female	4.77	6.85	4.85	5.67	2.30	3.05	2.92	2.79	1.56	0.00	0.00	0.46	919	1305	860	3084
	b) Adult Male	4.08	4.50	4.35	4.34	2.10	2.41	2.49	2.35	0.00	0.00	0.00	0.00	462	694	562	1718
	c) Young Stock upto 3 years	3.35	3.45	3.10	3.31	0.00	1.00	0.98	0.60	0.00	0.00	0.00	0.00	868	704	615	2187
	d) Overall (%)	28.51	45.02	26.47	100.00	22.10	45.56	32.34	100.00	100.00	0.00	0.00	100.00	2249	2703	2037	6989
2	Cattle (Exotic/ Cross-bred)																
	a) Adult Female	19.08	19.40	10.18	15.39	5.90	6.75	17.85	11.40	4.85	3.65	5.16	4.47	667	1985	2002	4654
	b) Adult Male	16.10	15.65	8.96	12.67	4.80	6.06	16.80	10.80	3.25	2.00	3.28	2.70	80	374	375	829
	c) Young Stock upto 2 & 1/2 years	13.40	13.50	8.10	11.28	3.02	2.77	15.65	8.07	1.35	1.15	1.29	1.25	280	592	601	1473
	d) Overall (%)	18.00	53.03	28.98	100.00	6.99	23.41	69.60	100.00	15.56	34.86	49.58	100.00	1027	2951	2978	6956
3	Buffalo																
	a) Adult Female	4.17	4.52	4.32	4.35	1.98	1.60	1.78	1.77	0.00	0.00	0.00	0.00	127	160	182	469
	b) Adult Male	3.51	3.93	3.28	3.55	1.82	0.00	1.65	1.12	0.00	0.00	0.00	0.00	35	55	70	160
	c) Young Stock upto 3 years	1.42	2.10	1.84	1.81	1.25	0.00	1.47	0.99	0.00	0.00	0.00	0.00	50	56	88	194
	d) Overall (%)	24.46	35.73	39.81	100.00	31.41	21.29	47.30	100.00	0.00	0.00	0.00	0.00	212	271	340	823

Source: LPS- 1.2. Block-II

Meat Production – 2019-20

Table 7.1: District wise & Season wise number of Animals & Poultry Slaughtered.

Sl No.	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State	Source	
														Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	<u>Category of Animals Slaughter.</u> <u>SUMMER</u>														
(a)	Cattle.	47136	9397	9829	2625	2244	7119	971	2043	7617	1737	2729	93447	53062	40385
(b)	Buffaloes.	224	162	0	0	537	142	0	40	424	37	0	1566	1566	
©	Pig	50905	9024	7511	3214	4430	12066	1293	2219	9793	2150	6455	109060	99453	9607
(d)	Sheep & Goat	17959	2795	420	592	4394	2512	170	2056	4169	1249	2289	38605	36997	1608
(e)	Poultry.	620432	57844	58862	17605	31225	100314	5490	18639	96992	7496	19076	1033975	998851	35124
	<u>MONSOON</u>														
(a)	Cattle.	41838	9605	10570	2465	2475	8358	1052	2332	8344	1924	3546	92509	48816	43693
(b)	Buffaloes.	244	180	0	0	617	200	0	27	662	45	0	1975	1975	
©	Pig.	54525	8991	8254	2780	5957	12848	1155	2334	8866	1901	6574	114185	104908	9277
(d)	Sheep & Goat	19359	2130	442	8121	4566	2053	221	1971	4625	1329	2527	47344	46013	1331
(e)	Poultry.	718363	69171	71630	135504	30486	105420	7684	24917	113338	7398	22372	1306283	1272662	33621
	<u>WINTER</u>														
(a)	Cattle.	43939	7422	8622	1977	2202	8325	815	1743	8704	1922	3376	89047	39078	49969
(b)	Buffaloes.	244	170	0	0	602	192	0	26	518	27	0	1779	1779	
©	Pig.	53776	8917	7854	2601	5014	12385	792	2004	9011	1377	7556	111287	102317	8970
(d)	Sheep & Goat	16554	2105	453	8158	4338	2213	204	1890	3978	1275	2328	43496	40344	3152
(e)	Poultry.	547055	62202	42734	17160	25134	103535	6389	19599	71038	8346	18886	922078	878258	43820

Table 7.2: District wise Numbers of Animals Slaughtered (Over-all)

‘000’ Numbers

Sl No	Category of Animals Slaughtered	East Khasi Hills	Ri-Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	Total	Source	
														Within the State	Brought from outside the State
1	2	3	4	5			6		7	8		9	10	11	12
1.	Cattle	132.91	26.42	29.02	7.07	6.92	23.8	2.84	6.12	24.67	5.58	9.65	275	140.95	134.05
2.	Buffaloes	0.71	0.51	0	0	1.76	0.53	0	0.09	1.6	0.11	0	5.31	5.31	0
3.	Pig	159.21	26.93	23.62	8.6	15.4	37.3	3.24	6.56	27.67	5.43	20.59	334.55	306.7	27.85
4.	Sheep & Goat	53.87	7.03	1.32	16.87	13.30	6.78	0.60	5.92	12.77	3.85	7.14	129.45	123.36	6.09
5.	Poultry	1885.85	189.22	173.23	170.27	86.85	309.27	19.56	63.16	281.37	23.24	60.33	3262.35	3149.78	112.57

Table 7.3: District wise & Season wise Average Yield per Animals (In Kg.).

Sl No.	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	<u>Category of Animals Slaughter.</u> <u>SUMMER</u>												
(a)	Cattle.	90.16	89.88	89.90	89.82	89.73	89.80	89.50	89.52	89.50	89.45	89.55	89.95
(b)	Buffaloes.	118.00	119.00	0.00	0.00	119.00	119.00	0.00	118.00	119.00	119.00	0.00	119.00
(c)	Pig.	46.45	45.87	46.33	46.54	46.08	47.02	42.10	41.12	41.31	41.13	41.88	45.45
(d)	Sheep & Goat.	9.57	9.03	9.68	9.67	9.70	9.50	9.54	9.70	9.74	9.68	9.64	9.58
(e)	Poultry.	1.39	1.38	1.39	1.38	1.38	1.38	1.36	1.36	1.35	1.34	1.35	1.39
	<u>MONSOON</u>												
(a)	Cattle.	89.90	89.89	89.94	89.78	89.81	89.70	89.13	89.33	89.47	89.03	89.16	89.77
(b)	Buffaloes.	118.00	119.00	0.00	0.00	118.00	118.00	0.00	118.00	118.00	119.00	0.00	118.00
(c)	Pig.	46.13	46.23	46.19	46.49	46.02	45.38	42.42	41.70	42.30	43.22	42.64	45.39
(d)	Sheep & Goat.	9.52	9.56	9.52	9.54	9.69	9.60	9.39	9.40	9.50	9.59	9.43	9.53
(e)	Poultry.	1.39	1.39	1.39	1.39	1.36	1.37	1.35	1.34	1.36	1.33	1.33	1.38
	<u>WINTER</u>												
(a)	Cattle.	89.94	89.89	89.85	89.79	89.68	89.73	88.64	88.66	88.74	88.64	88.95	89.68
(b)	Buffaloes.	118.00	119.00	0.00	0.00	118.00	118.00	0.00	119.00	118.00	116.00	0.00	118.00
(c)	Pig.	46.69	46.65	47.10	46.76	46.72	47.68	42.62	41.69	43.69	42.95	41.95	46.10
(d)	Sheep & Goat.	9.55	9.35	9.42	9.51	9.78	9.47	9.28	9.39	9.47	9.57	9.80	9.55
(e)	Poultry.	1.30	1.35	1.26	1.33	1.33	1.33	1.39	1.33	1.32	1.34	1.33	1.31

Table 7.4: District wise Average Yield per Animal (In Kg.) Over-all

Sl No.	Name of Districts	Cattle	Buffaloes	Pigs	Sheep & Goat	Poultry
1	2	3	4	5	6	7
1.	East Khasi Hills	90.01	118.31	46.42	9.54	1.36
2.	Ri – Bhoi	89.89	117.65	46.27	9.25	1.37
3.	West Khasi Hills	89.94	-	46.53	9.09	1.36
4	South West Khasi Hills	89.82	-	46.63	9.54	1.38
5	East Jaintia Hills	89.60	118.18	46.23	9.70	1.35
6	West Jaintia Hills	89.75	120.75	46.68	9.59	1.36
7	North Garo Hills	89.08	-	42.28	10.00	1.33
8	East Garo Hills	89.22	122.22	41.46	9.63	1.33
9	West Garo Hills	89.22	118.13	42.43	9.63	1.35
10	South West Garo Hills	88.89	109.09	42.17	9.61	1.33
11	South Garo Hills	89.12	-	42.11	9.66	1.34
1.	East Khasi Hills	89.80	118.27	45.64	9.56	1.36

Table 7.5: District wise & Season-wise Meat Production (In Tonnes)

Sl No.	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State	Source	
														Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	<u>SUMMER</u>														
1.	Cattle.	4250	845	884	236	201	639	87	183	682	155	244	8406	4773	3633
2.	Buffaloes	26	19	0	0	64	17	0	5	50	4	0	185	185	0
3.	Pigs	2365	414	348	150	204	567	54	91	405	88	270	4956	4519	437
4.	Sheep &Goat.	172	25	4	6	43	24	2	20	41	12	22	371	356	15
5.	Poultry.	862	80	82	24	43	138	7	25	131	10	26	1428	1379	49
	TOTAL	7675	1383	1318	416	555	1385	150	324	1309	269	562	15346	11212	4134
	<u>MONSOON</u>														
1.	Cattle.	3761	863	951	221	222	750	94	208	747	171	316	8304	4382	3922
2.	Buffaloes	29	21	0	0	73	24	0	3	78	5	0	233	233	0
3.	Pigs	2515	416	381	129	274	583	49	97	375	82	280	5181	4760	421
4.	Sheep &Goat.	184	20	4	77	44	20	2	19	44	13	24	451	438	13
5.	Poultry.	999	96	100	188	41	144	10	33	154	10	30	1805	1759	46
	TOTAL	7488	1416	1436	615	654	1521	155	360	1398	281	650	15974	11572	4402
	<u>WINTER</u>														
1.	Cattle.	3952	667	775	178	197	747	72	155	772	170	300	7985	3504	4481
2.	Buffaloes	29	20	0	0	71	23	0	3	61	3	0	210	210	0
3.	Pigs	2511	416	370	122	234	591	34	84	394	59	317	5132	4718	414
4.	Sheep &Goat.	158	20	4	78	42	21	2	18	38	12	23	416	386	30
5.	Poultry.	711	84	54	23	33	138	9	26	94	11	25	1208	1151	57
	TOTAL	7361	1207	1203	401	577	1520	117	286	1359	255	665	14951	9969	4982
	OVERALL	22524	4006	3957	1432	1786	4426	422	970	4066	805	1877	46271	32753	13518

7.6: District-wise & Category-wise Meat Production

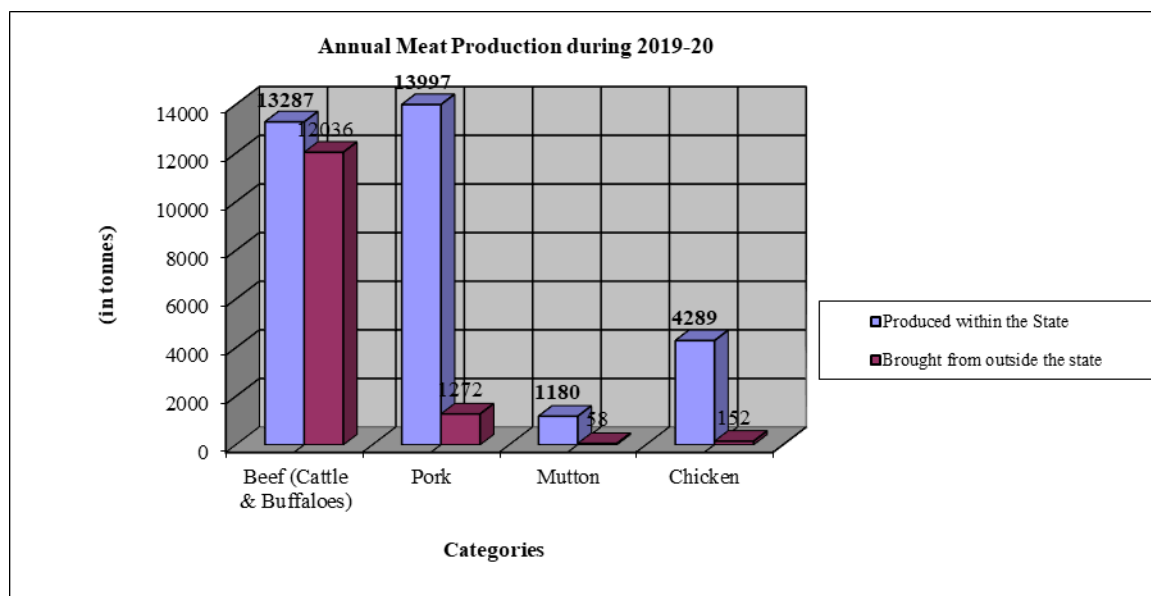
Sl No	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	Total	Source	
														Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.	Cattle	11963	2375	2610	635	620	2136	253	546	2201	496	860	24695	12659	12036
2	Buffaloes	84	60	0	0	208	64	0	11	189	12	0	628	628	0
3.	Pig	7391	1246	1099	401	712	1741	137	272	1174	229	867	15269	13997	1272
4.	Sheep & Goat	514	65	12	161	129	65	6	57	123	37	69	1238	1180	58
5.	Poultry	2572	260	236	235	117	420	26	84	379	31	81	4441	4289	152
	TOTAL	22524	4006	3957	1432	1786	4426	422	970	4066	805	1877	46271	32753	13518

Table 7.7: District wise and Category wise Meat Production and Percentage Contribution to Total Meat Production (in tonnes)

Sl No.	Name of Districts	Meat Production Category Wise (Tonnes)						Annual Production 2018-19 (Col 5 – 8)	Percentage Contribution to Total Meat Production
		Cattle	Buffalo	Total	Pork	Mutton	Chicken		
				Beef					
1	2	3	4	5	6	7	8	9	10
1.	East Khasi Hills	11963	84	12047	7391	514	2572	22524	48.68 %
2.	Ri – Bhoi	2375	60	2435	1246	65	260	4006	8.66 %
3.	West Khasi Hills	2610	0	2610	1099	12	236	3957	8.55 %
4	South West Khasi Hills	635	0	635	401	161	235	1432	3.09 %
5	East Jaintia Hills	620	208	828	712	129	117	1786	3.86 %
6	West Jaintia Hills	2136	64	2200	1741	65	420	4426	9.57 %
7	North Garo Hills	253	0	253	137	6	26	422	0.91 %
8	East Garo Hills	546	11	557	272	57	84	970	2.1 %
9	West Garo Hills	2201	189	2390	1174	123	379	4066	8.79 %
10	South West Garo Hills	496	12	508	229	37	31	805	1.74 %
11	South Garo Hills	860	0	860	867	69	81	1877	4.06 %
	State (Overall)	24695	628	25323	15269	1238	4441	46271	100 %
	Percentage Contribution of each species to total production	53.37%	1.36%	54.73%	33%	2.68%	9.6%	100%	

Table 7.8: Growth Rate & Total Meat production.

Sl No.	Items	Annual Meat Production (in tonnes)						Percentage Increase (+) or Decrease (-) over 2018-19
		2019-20			2018-19			
		Produced within the State	Brought from outside the State	Total	Produced within the State	Brought from outside the State	Total	
1	2	3	4	5	6	7	8	9
1	Beef (Cattle & Buffaloes)	13287	12036	25323	10370	14019	24389	3.83%
2	Pork	13997	1272	15269	13773	1153	14926	2.3%
3	Mutton	1180	58	1238	1203	52	1255	-1.35%
4	Chicken	4289	152	4441	4434	122	4556	-2.52%
5	Total	32753	13518	46271	29780	15346	45126	2.54%



7.9: Per Capita Availability of Meat Grams / Day 2019-20

Items	Per Capita Availability
Beef	23.71
Pork	14.51
Mutton	1.22
Chicken	4.42
Total	43.86

Table 7.10: Estimated Number of Animals Slaughtered from 1983-84.

Year	Number of Animals Slaughtered ('000' Nos.)				
	Cattle	Buffaloes	Pig	Sheep & Goat	Poultry
1983-84	104.5	0.1	88.9	56.7	N.S
1984-85	108.7	0.5	96.7	55.9	N.S
1985-86	116.0	0.6	125.7	68.9	N.S
1986-87	125.7	0.6	143.6	76.5	N.S
1987-88	132.3	0.5	146.9	77.8	N.S
1988-89	141.4	0.6	155.0	85.7	645.7
1989-90	146.8	0.6	159.8	94.9	684.9
1990-91	157.5	1.0	159.1	103.1	739.7
1991-92	171.6	1.2	169.5	117.6	792.7
1992-93	172.4	0.9	161.7	114.5	905.5
1993-94	174.7	0.6	166.9	107.8	1096
1994-95	179.1	1.4	170.4	108.8	1175
1995-96	193.4	0.9	190.1	116.4	1688
1996-97	183.4	2.9	176.5	131.3	1603
1997-98	185.1	1.7	170.6	138.3	17860
1998-99	191.9	1.9	184.7	122.4	1870
1999-2000	196.9	0.5	191.5	114.4	3102
2000-01	217.0	3.5	184.3	140.1	3243
2001-02	212.0	0.5	194.6	136.1	3566
2002-03	217.54	0.70	209.24	155.47	3739
2003-04	214.32	3.60	228.47	108.70	3209
2004-05	238.63	3.72	249.45	119.12	3101
2005-06	231.4	4.0	243.2	114.30	3395
2006-07	236.04	4.14	236.35	113.91	3679
2007-08	237.49	4.21	237.3	114.77	3696
2008-09	241.13	4.24	239.51	115.51	3650.37
2009-10	245.37	4.35	232.79	117.05	3757.87
2010-11	251.46	4.46	236.13	118.08	3799.39
2011-12	253.09	4.72	238.17	120.43	3796.18
2012-13	252.52	4.59	236.69	118.98	3792.53
2013-14	254.39	4.72	251.53	124.06	3422.45
2014-15	240.82	3.16	231.98	107.11	2974.44
2015-16	263.29	5.19	262.94	128.45	3164.09

Table 7.10: Estimated Number of Animals Slaughtered from 1983-84.

Year	Number of Animals Slaughtered ('000' Nos.)				
	Cattle	Buffaloes	Pig	Sheep & Goat	Poultry
2016-17	251.81	4.72	319.78	132.81	2870.14
2017-18	257.44	4.83	331.12	130.02	2651.79
2018-19	264.95	5.52	336.19	128.91	3344.21
2019-20	275.00	5.31	334.55	129.45	3262.35

Table 7.11: Average Meat Yield per Animal. (Kgs) from 1983-84.

Year	Average Meat Yield Per Animal (Kgs.)				
	Cattle	Buffaloes	Pig	Sheep & Goat	Poultry
1983-84	81.26	133.70	36.15	11.84	-
1984-85	79.03	134.50	36.50	11.73	-
1985-86	73.12	132.80	34.53	10.38	-
1986-87	71.77	132.83	36.23	11.69	-
1987-88	74.77	138.38	41.02	11.50	-
1988-89	76.92	137.21	40.73	10.86	0.84
1989-90	76.30	137.21	41.22	10.19	0.84
1990-91	78.90	123.90	38.90	9.22	0.84
1991-92	78.94	130.36	38.84	9.10	0.84
1992-93	79.57	130.36	41.10	9.13	1.0
1993-94	82.23	127.70	41.54	9.56	0.98
1994-95	84.18	129.90	41.52	10.04	1.05
1995-96	81.62	129.36	42.35	9.66	0.83
1996-97	93.60	117.36	43.02	9.58	0.86
1997-98	95.36	122.01	46.08	9.78	0.97
1998-99	95.00	130.32	44.59	9.84	0.92
1999-2000	94.35	122.26	46.07	9.17	1.00
2000-01	93.49	127.69	45.49	9.35	0.99
2001-02	96.21	122.62	43.73	9.06	1.00
2002-03	97.34	120.63	42.77	9.02	1.04
2003-04	97.47	109.38	43.36	9.03	1.08
2004-05	88.98	106.00	42.15	9.09	1.07
2005-06	90.51	113.95	43.01	8.94	1.08
2006-07	88.60	117.63	42.29	9.04	1.08
2007-08	88.71	117.57	42.46	9.02	1.09
2008-09	88.73	117.46	42.41	8.99	1.09
2009-10	88.89	117.47	42.48	8.99	1.08
2010-11	88.46	117.29	42.48	8.99	1.08
2011-12	88.37	116.92	42.48	9.02	1.09
2012-13	88.67	117.90	42.87	10.00	1.13
2013-14	89.39	119.11	44.38	10.57	1.33
2014-15	89.60	117.80	43.24	10.20	1.30
2015-16	89.76	117.92	43.34	10.31	1.32

Table 7.11: Average Meat Yield per Animal. (Kgs) from 1983-84.

Year	Average Meat Yield Per Animal (Kgs.)				
	Cattle	Buffaloes	Pig	Sheep & Goat	Poultry
2016-17	89.86	117.89	43.35	10.32	1.32
2017-18	89.86	117.89	43.35	10.32	1.32
2018-19	89.86	117.89	43.35	10.32	1.32
2019-20	89.80	118.27	45.64	9.56	1.36

Table 7.12: Total Meat production from 1983-84.

Year	Total Meat Production ('000' Tonnes.)				
	Cattle & Buffaloes	Pig	Sheep & Goat	Poultry	Total
1983-84	8.5	3.2	0.7	-	12.4
1984-85	8.7	3.5	0.6	-	12.8
1985-86	8.6	4.3	0.7	-	13.6
1986-87	9.1	5.2	0.9	-	15.2
1987-88	10.0	6.0	0.9	-	16.9
1988-89	11.0	6.3	0.9	0.5	18.7
1989-90	11.3	6.6	1.0	0.5	19.4
1990-91	12.6	6.2	0.9	0.6	20.3
1991-92	13.7	6.6	1.1	0.6	22.0
1992-93	13.8	6.7	1.0	0.9	22.4
1993-94	14.5	6.9	1.0	1.1	23.5
1994-95	15.3	7.1	1.1	1.2	24.7
1995-96	15.9	8.0	1.1	1.4	26.5
1996-97	17.5	7.6	1.2	1.4	27.7
1997-98	17.9	7.9	1.3	1.7	28.8
1998-99	18.5	8.2	1.2	1.7	29.6
1999-2000	18.6	8.8	1.1	3.1	31.6
2000-01	20.7	8.4	1.3	3.2	33.6
2001-02	20.5	8.5	1.2	3.6	33.8
2002-03	21.3	8.9	1.4	3.9	35.5
2003-04	21.3	9.9	1.0	3.4	35.6
2004-05	21.6	10.5	1.1	3.2	36.4
2005-06	21.43	10.46	1.02	3.65	36.56
2006-07	21.40	10.00	1.03	3.98	36.41
2007-08	21.56	10.07	1.04	4.02	36.69
2008-09	21.89	10.16	1.04	3.99	37.08
2009-10	22.32	9.89	1.05	4.06	37.33
2010-11	22.77	10.02	1.06	4.09	37.94
2011-12	22.92	10.10	1.09	4.14	38.25
2012-13	22.93	10.15	1.19	4.26	38.53
2013-14	23.30	11.16	1.31	4.56	40.33
2014-15	24.65	11.08	1.30	4.29	41.32
2015-16	24.25	11.40	1.32	4.17	41.14

Table 7.12: Total Meat production from 1983-84.

Year	Total Meat Production ('000' Tonnes.)				
	Cattle & Buffaloes	Pig	Sheep & Goat	Poultry	Total
2016-17	23.182	13.863	1.369	3.76	42.179
2017-18	23.741	14.41	1.35	3.62	43.118
2018-19	24..389	14.926	1.255	4.556	45.126
2019-20	25.323	15.269	1.238	4.441	46.271

ANNEXURE – I

Comparative Analysis showing production estimate with effect from the year 1983-84

Year	Milk Production (‘000’ tonnes)	Meat Production (‘000’ tonnes)	Egg Production (Million Nos.)
1	2	3	4
1983-84	40.2	12.4	51.4
1984-85	43.6	12.8	54.9
1985-86	46.2	13.6	57.8
1986-87	47.2	15.2	60.0
1987-88	40.9	16.9	61.6
1988-89	46.7	18.7	63.5
1989-90	47.4	19.4	63.7
1990-91	48.4	20.3	66.5
1991-92	50.4	22.0	66.8
1992-93	51.6	22.4	70.0
1993-94	52.9	23.5	73.0
1994-95	54.0	24.7	75.0
1995-96	55.4	26.5	77.0
1996-97	57.4	27.7	79.2
1997-98	59.1	28.8	81.4
1998-99	60.7	29.6	82.6
1999-2000	61.6	31.6	84.7
2000-2001	64.0	33.0	87.0
2001-2002	65.8	34.0	90.2
2002-03	67.7	35.5	91.6
2003-04	68.25	35.6	93.6
2004-05	71.3	36.4	94.6
2005-06	73.43	36.55	96.25
2006-07	74.62	36.41	97.8
2007-08	76.50	36.69	98.90
2008-09	77.50	37.08	99.77
2009-10	78.21	37.33	99.97
2010-11	79.13	37.94	101.14
2011-12	79.67	38.25	102.06
2012-13	80.49	38.53	102.76
2013-14	82.16	40.33	104.94
2014-15	82.96	41.32	105.7
2015-16	83.924	41.14	106.36

ANNEXURE – I

Comparative Analysis showing production estimate with effect from the year 1983-84

Year	Milk Production (‘000’ tonnes)	Meat Production (‘000’ tonnes)	Egg Production (Million Nos.)
1	2	3	4
2016-17	84.19	42.17	106.39
2017-18	85.27	43.118	107.37
2018-19	86.28	45.126	109.04
2019-20	87.48	46.27	1102.02





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