



Government of Meghalaya

**REPORT ON INTEGRATED
SAMPLE SURVEY
FOR
ESTIMATION OF PRODUCTION
MILK, EGG AND MEAT**

YEAR: 2020-21.



**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 2020– 2021 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 **1.89 %** on Milk, **0.46 %** on Egg and a decrease of **15.16 %** on Meat over 2019-2020. A drastic drop in the production of Meat over the previous year might be due to the occurrence of the pandemic COVID-19 which has affected the normal situation not only in the state of Meghalaya but in the country as a whole.

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. Physiographically, 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 even in the middle of October after which it gradually diminishes. Sohra and Mawsynram in the East Khasi Hills are geographically considered as the雨iest 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. Table1.2 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 2020-21.

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	22.73	31.82	24.24	6.06	6.06	4.55	4.55	100%
2.	Ri Bhoi	4.88	29.27	14.63	29.27	7.32	7.32	7.32	100%
3	West Khasi Hills	10.96	28.77	21.92	17.81	9.59	6.85	4.11	100%
4	South West Khasi Hills	13.64	25	18.18	11.36	4.55	4.55	22.73	100%
5	East Jaintia Hills	4.88	36.59	19.51	12.2	2.44	9.76	14.63	100%
6	West Jaintia Hills	6.12	38.78	24.49	4.08	8.16	8.16	10.2	100%
7	North Garo Hills	7.46	16.42	13.43	11.94	29.85	10.45	10.45	100%
8	East Garo Hills	2.99	19.4	13.43	25.37	13.43	13.43	11.94	100%
9	West Garo Hills	2.35	30.59	16.47	20	9.41	1.18	20	100%
10.	South West Garo Hills	1.67	18.33	11.67	15	20	10	23.33	100%
11	South Garo Hills	10.59	36.47	34.12	11.76	3.53	1.18	2.35	100%
	Meghalaya	8.11	28.17	19.76	15.04	10.77	6.64	11.5	100%

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

Sl. No.	Name of District	Area (Sq. Km) 2001	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		26	5	1	50	3	30	206
2.	Ri Bhoi		10	4	2	11	0	9	174
3	West Khasi Hills		24	0	1	14	1	11	100
4	South West Khasi Hills		19	0	0	16	0	26	73
5	East Jaintia Hills		32	0	0	13	0	12	38
6	West Jaintia Hills		18	0	1	20	0	7	77
7	North Garo Hills		57	0	0	38	0	26	209
8	East Garo Hills		48	0	0	25	0	4	283
9	West Garo Hills		70	0	1	30	3	31	195
10	South West Garo Hills		134	0	6	43	1	73	243
11	South Garo Hills		39	0	0	24	0	28	155
	Meghalaya		477	9	12	284	8	257	1753

Table 1.6 Density of Livestock Population per ‘100’ Villages

Sl. No.	Name of District	Indig- enous Cattle	Crossbred Cattle	Buffa- loes	Pig	Sheep	Goat	Poultry				Over all
								Fowls	Ducks	Impr- oved	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.

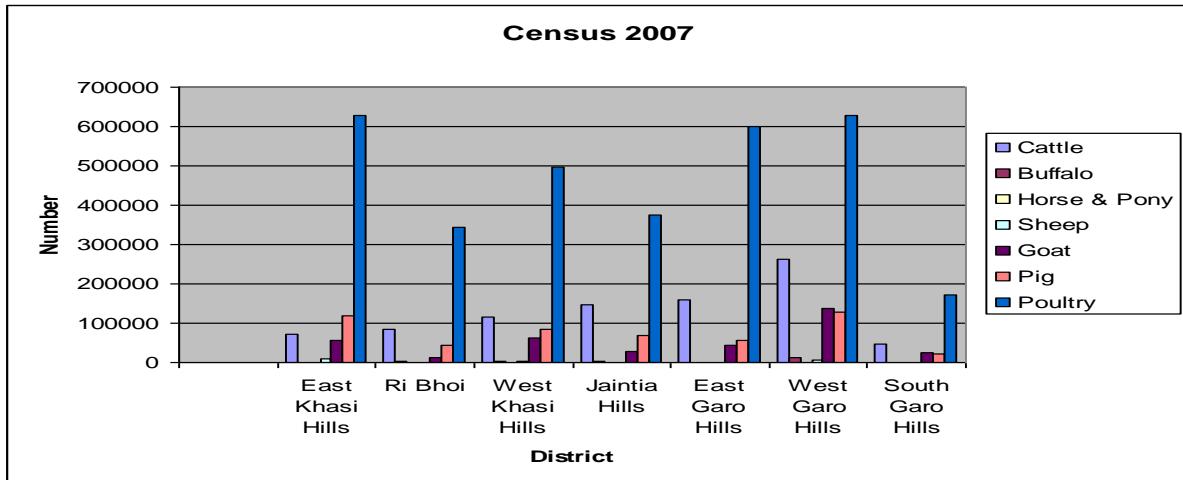
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	3	8954	8957	56632	48
2.	Ri – Bhoi	-	116	116	13835	24
3.	West Khasi Hills	189	3327	3516	61786	1732
4.	Jaintia Hills	30	12	42	27005	33
5.	East Garo Hills	-	1260	1260	43652	0
6.	West 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			Turk ey	Other Poultry Birds like Guineas , Fowls etc.	Grand Total
		Desi	Improv- ed	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

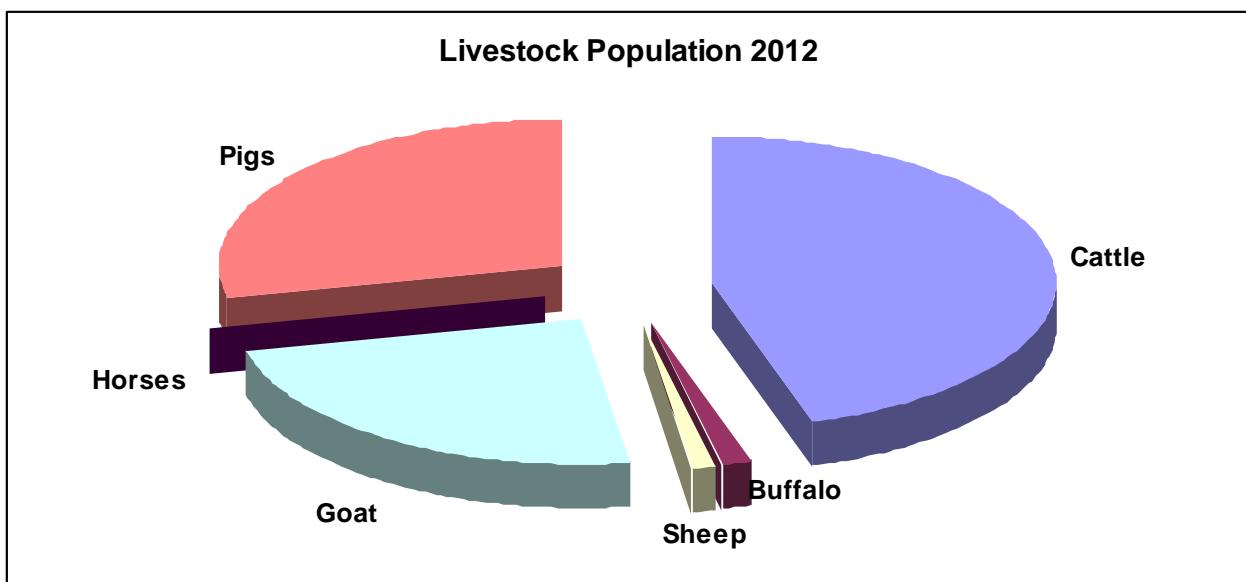
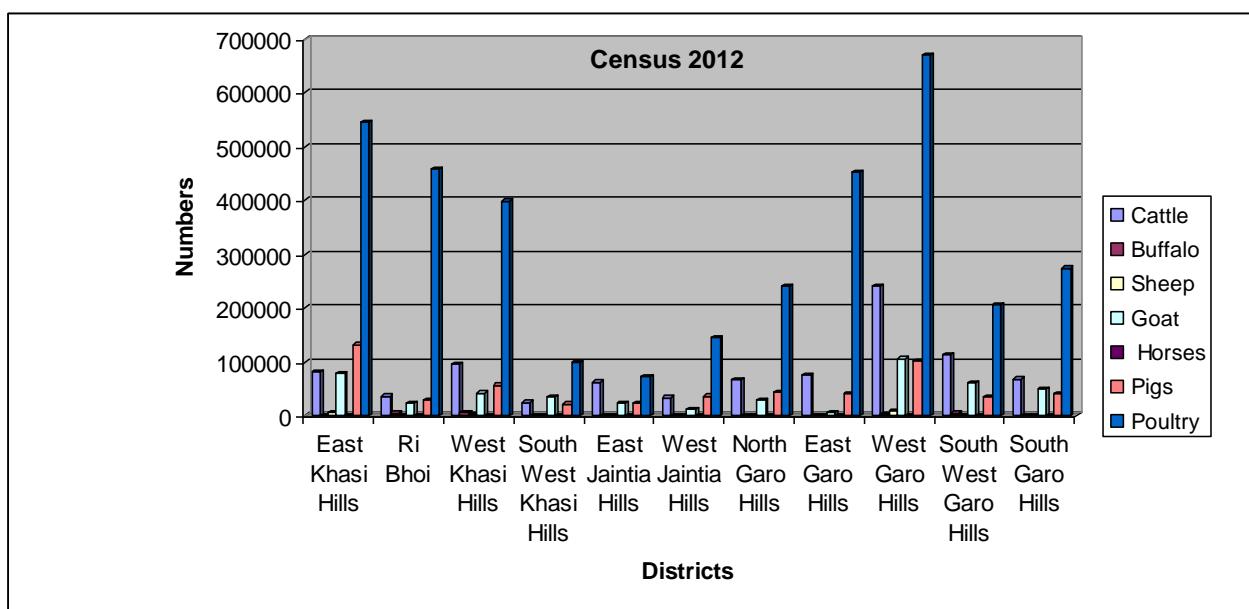


Table 2.4: Poultry Population.

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 2.3 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 2.3 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	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 2.3 (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	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

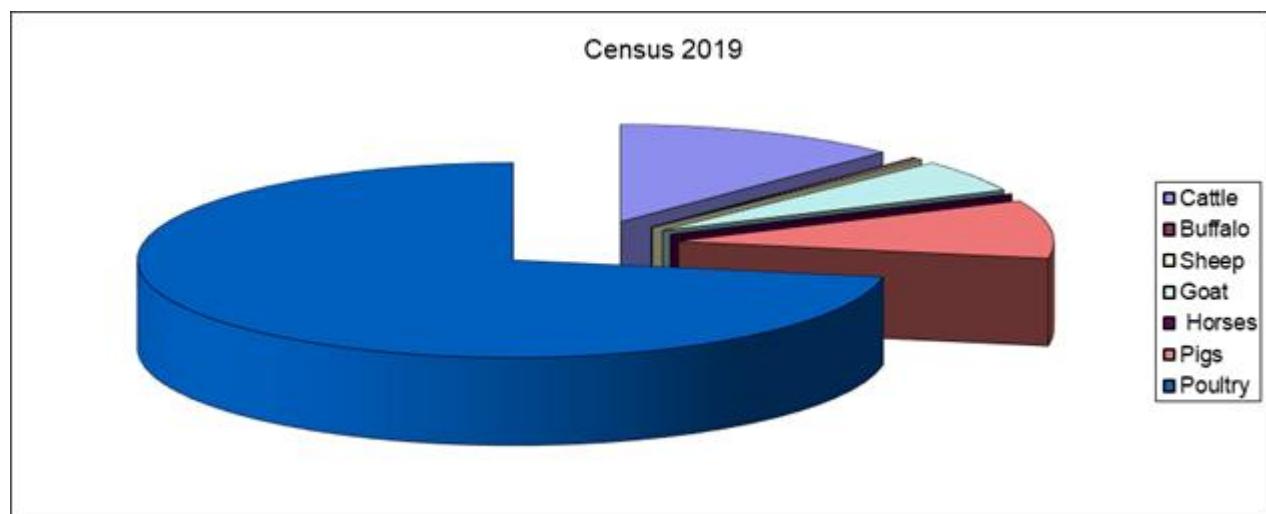


Table 2.4: Poultry Population.

SL No .	Name of Districts	Fowls			Ducks			Other Poultry Birds like Guineas, Fowls etc.	Grand Total
		Desi	Improve-d	Total	Desi	Improve-d	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	1017792	3816	1021608	38505	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

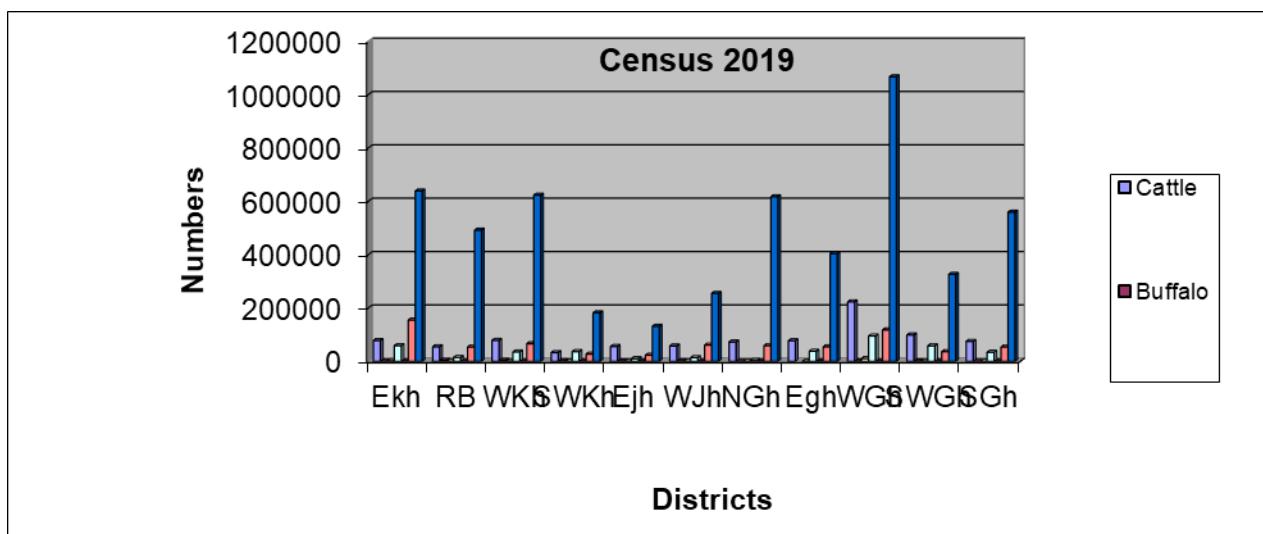
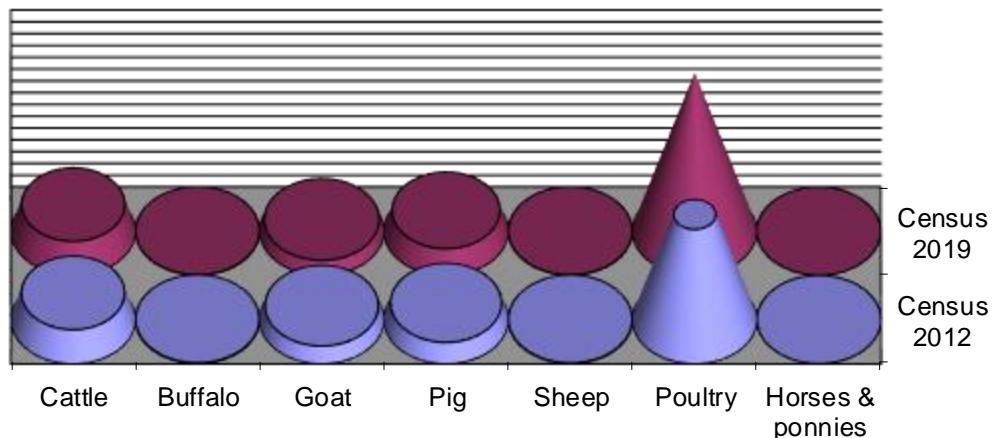


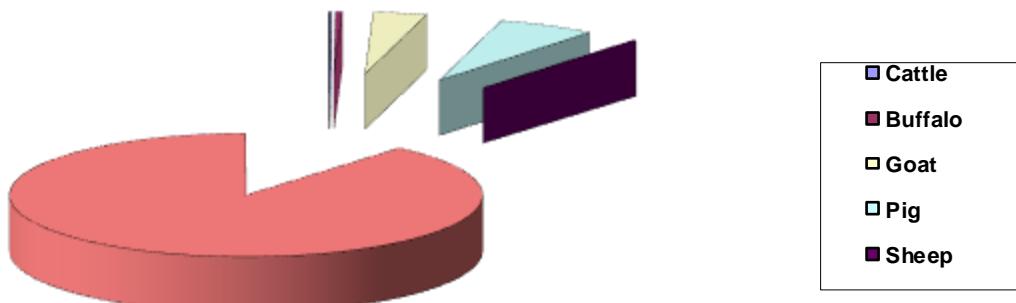
TABLE – 2.5: LIVESTOCK POPULATION: (as per 2012 & 2019 Census)
and Growth Rate as compared to 2012 Census

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 & Ponies		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	50.799
Total Horses & Ponies		1301	533	-59.032

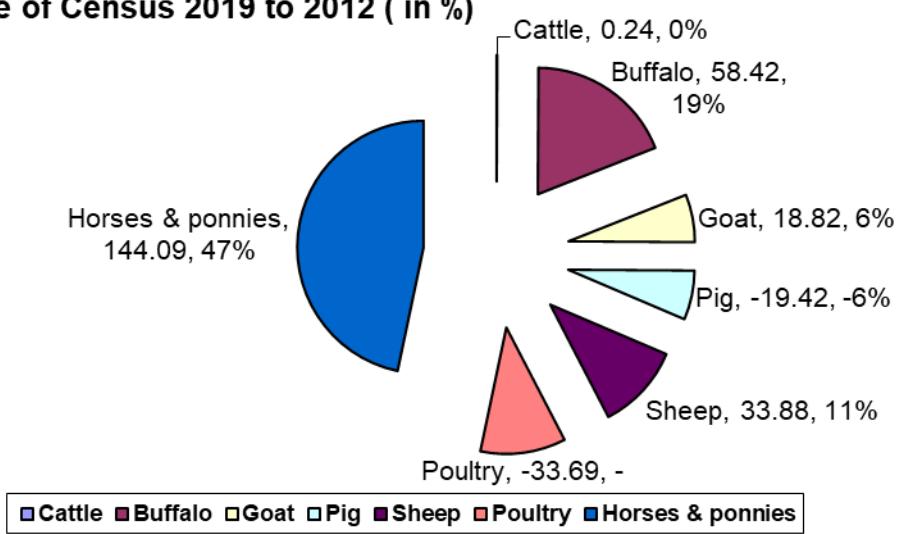
Comparison between census 2012 and census 2019



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 activated 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 information 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 2019-20	Estimate Current Year 2020-21	% of Increase or Decrease over previous Year
I	Milk				
	Indigenous Cows				
	Population				
A	In Milk	00 No.	1241	1240	-0.08%
B	Milch	00 No.	2420	2423	0.12%
	Yield per Day				
C	In Milk	Kgs.	0.784	0.785	0.13%
D	Milch	Kgs.	0.401	0.402	0.25%
E	Production	000 tonnes	35.538	35.55	0.03%
	Crossbred Cows				
	Population				
F	In Milk	00 Nos.	155	160	3.23%
G	Milch	00 Nos.	180	186	3.33%
	Yield per day				
H	In Milk	Kgs.	8.988	9.011	0.26%
I	Milch	Kgs.	7.738	7.772	0.44%
J	Production	000 tonnes	51.048	52.705	3.25%

Table 3.11 – contd.

Sl No.	Items	Unit	Estimates Previous Year 2019-20	Estimate Current Year 2020-21	% of Increase or Decrease over previous Year
	Buffalo Population				
K	In Milk	00 No.	0	12	-7.69%
L	Milch	00 No.	25	25	0%
	Yield per Day				
M	In Milk	Kgs.	1.857	1.843	-0.75%
N	Milch	Kgs.	0.984	0.959	-2.54%
O	Production	000 tonnes	0.898	0.881	-1.89%
	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	87.484	89.136	1.89%
II	Egg Production				
	Layers				
U	Desi	00 No.	8931	9126	2.18%
V	Improved	00 No.	779	723	-7.19%
W	Total	00 No.	9710	9849	1.43%
	Yield per layer per year				
X	Desi	No.	105	104	-0.95%
Y	Improved	No.	214	214	0%
	Production				
Z	Desi	Lakhs Nos.	935.96	952.89	1.81%
Aa	Improved	"	166.84	154.97	-7.11%
Ab	Total	"	1102.8	1107.86	0.46%

Table 3.12 Annual Report on Sample Surveys to estimate production of Livestock products.
State: - Meghalaya.
2020-2021

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.	110	110	110	330
2. ©	No. of villages covered for detailed study.				
	i) for Milk	110	110	110	330
	ii) for Egg	110	110	110	330
3.(a)	Total No. of households in the State. (2012 Census) Lakhs Nos.				
3. (b)	Percentage of Households keeping: -				
	i) Bovine	41.56	44.12	42.50	42.80
	ii) Poultry	79.00	76.03	74.85	76.37
	iii) Sheep	0.62	0.00	0.16	0.23
	iv) Goat	16.23	16.38	14.61	15.65
	v) Pig	60.51	58.38	58.09	58.84
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)	345	601	425	1371
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	875	1799	958	3632
	ii) Buffalo in Milk.	38	53	40	131
	iii) Goat in Milk.				
5. (a)	No. of Households observed for egg production.	1320	1283	1435	4038
5. (b)	No. of Layers observed.				
	i) Desi & Improved	12155	5912	4452	22519
	.				

Table 3.12 – Contd.

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered.'000' Nos.				
	i) Cattle	58.948	80.227	91.005	230.18
	ii) Buffalo	1.566	2.423	1.727	5.716
	iii) Sheep & Goat	24.688	37.987	48.577	111.252
	iv) Pig	73.031	97.665	111.755	282.451
	v) Poultry	717.168	960.717	1235.698	2913.583

Table 3.13: District-wise Number of Villages selected for complete enumeration during the year 2020-21.

Sl. No.	Name of District	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	20	22	22	64
2.	Ri Bhoi	10	10	11	31
3	West Khasi Hills	22	23	24	69
4	South West Khasi Hills	8	8	8	24
5	East Jaintia Hills	4	5	6	15
6	West Jaintia Hills	10	11	12	33
7	North Garo Hills	12	13	14	39
8	East Garo Hills	11	12	13	36
9	West Garo Hills	19	21	21	61
10.	South West Garo Hills	8	8	9	25
11	South Garo Hills	20	21	22	63
	State (Overall)	144	154	162	460

Chapter – 4
District-wise & Season-wise Estimates
Milk Production
2020-2021

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	11800	6843	8101	8915
2.	Ri Bhoi	4676	4983	7134	5598
3	West Khasi Hills	11034	14253	15920	13736
4	South West Khasi Hills	4692	6085	6619	5799
5	East Jaintia Hills	8009	9056	12193	9753
6	West Jaintia Hills	3563	4901	2173	3546
7	North Garo Hills	10271	9834	13986	11364
8	East Garo Hills	8711	9231	10271	9404
9	West Garo Hills	34622	34622	30382	33209
10.	South West Garo Hills	15479	14656	15232	15122
11	South Garo Hills	7684	7806	7318	7603
	Meghalaya	120541	122270	129329	124049

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	5171	5196	5247	5205
2.	Ri Bhoi	5075	5014	5106	5065
3	West Khasi Hills	9309	9701	9962	9657
4	South West Khasi Hills	3541	3572	3603	3572
5	East Jaintia Hills	5583	5632	5730	5648
6	West Jaintia Hills	6558	6656	6705	6640
7	North Garo Hills	8333	6997	7888	7739
8	East Garo Hills	10873	9915	10121	10303
9	West Garo Hills	31494	30941	30113	30849
10.	South West Garo Hills	18476	19367	19448	19097
11	South Garo Hills	14251	14454	14657	14454
	Meghalaya	118664	117445	118580	118229

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	16971	12039	13348	14119
2.	Ri Bhoi	9751	9997	12240	10663
3	West Khasi Hills	20343	23954	25882	23393
4	South West Khasi Hills	8233	9657	10222	9371
5	East Jaintia Hills	13592	14688	17923	15401
6	West Jaintia Hills	10121	11557	8878	10185
7	North Garo Hills	18604	16831	21874	19103
8	East Garo Hills	19584	19146	20392	19707
9	West Garo Hills	66116	65563	60495	64058
10.	South West Garo Hills	33955	34023	34680	34219
11	South Garo Hills	21935	22260	21975	22057
	Meghalaya	239205	239715	247909	242276

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	6759	7052	8951	7587
2.	Ri Bhoi	7348	7642	6702	7231
3	West Khasi Hills	66	69	65	67
4	South West Khasi Hills	0	0	0	0
5	East Jaintia Hills	265	271	262	266
6	West Jaintia Hills	121	123	123	122
7	North Garo Hills	11	11	11	11
8	East Garo Hills	59	57	28	48
9	West Garo Hills	742	660	587	663
10.	South West Garo Hills	29	30	29	29
11	South Garo Hills	0	0	0	0
	Meghalaya	15400	15915	16758	16024

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	1415	1390	1322	1376
2.	Ri Bhoi	1045	760	941	915
3	West Khasi Hills	25	24	24	24
4	South West Khasi Hills	0	0	0	0
5	East Jaintia Hills	180	168	189	179
6	West Jaintia Hills	17	16	16	16
7	North Garo Hills	0	0	0	0
8	East Garo Hills	3	2	3	3
9	West Garo Hills	40	42	44	42
10.	South West Garo Hills	0	0	0	0
11	South Garo Hills	0	0	0	0
	Meghalaya	2725	2402	2539	2555

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	8174	8442	10273	8963
2.	Ri Bhoi	8393	8402	7643	8146
3	West Khasi Hills	91	93	89	91
4	South West Khasi Hills	0	0	0	0
5	East Jaintia Hills	445	439	451	445
6	West Jaintia Hills	138	139	139	139
7	North Garo Hills	11	11	11	11
8	East Garo Hills	62	59	31	51
9	West Garo Hills	782	702	631	705
10.	South West Garo Hills	29	30	29	29
11	South Garo Hills	0	0	0	0
	Meghalaya	18125	18317	19297	18580

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

Sl. No.	Name of Districts	In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	65	71	60	65
2.	Ri Bhoi	339	307	185	277
3	West Khasi Hills	134	120	117	124
4	South West Khasi Hills	214	0	0	71
5	East Jaintia Hills	46	61	56	54
6	West Jaintia Hills	22	30	54	35
7	North Garo Hills	0	0	0	0
8	East Garo Hills	0	0	0	0
9	West Garo Hills	214	275	367	285
10.	South West Garo Hills	291	457	448	399
11	South Garo Hills	0	0	0	0
	Meghalaya	1325	1318	1287	1310

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

Sl. No.	Name of Districts	Dry			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	60	59	60	60
2.	Ri Bhoi	186	189	190	188
3	West Khasi Hills	170	172	170	171
4	South West Khasi Hills	275	280	272	276
5	East Jaintia Hills	56	58	58	57
6	West Jaintia Hills	50	51	52	51
7	North Garo Hills	0	0	0	0
8	East Garo Hills	0	0	0	0
9	West Garo Hills	130	129	133	131
10.	South West Garo Hills	270	278	273	274
11	South Garo Hills	0	0	0	0
	Meghalaya	1197	1216	1208	1208

Table 4.3 ©: Estimated Number of Productive Buffaloes.

Sl. No.	Name of Districts	Milch			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	125	130	120	125
2.	Ri Bhoi	525	496	375	465
3	West Khasi Hills	304	292	287	295
4	South West Khasi Hills	489	280	272	347
5	East Jaintia Hills	102	119	114	111
6	West Jaintia Hills	72	81	106	86
7	North Garo Hills	0	0	0	0
8	East Garo Hills	0	0	0	0
9	West Garo Hills	344	404	500	416
10.	South West Garo Hills	561	735	721	673
11	South Garo Hills	0	0	0	0
	Meghalaya	2522	2534	2495	2518

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	0.970	0.900	0.900	0.931
2.	Ri Bhoi	1.020	1.050	0.990	1.015
3	West Khasi Hills	0.850	0.840	0.860	0.85
4	South West Khasi Hills	0.820	0.830	0.800	0.815
5	East Jaintia Hills	0.740	0.750	0.780	0.758
6	West Jaintia Hills	0.740	0.750	0.760	0.751
7	North Garo Hills	0.720	0.750	0.750	0.74
8	East Garo Hills	0.720	0.750	0.740	0.737
9	West Garo Hills	0.740	0.760	0.750	0.75
10.	South West Garo Hills	0.730	0.740	0.750	0.74
11	South Garo Hills	0.710	0.730	0.740	0.726
	Meghalaya	0.780	0.785	0.79	0.785

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	0.674	0.512	0.546	0.588
2.	Ri Bhoi	0.489	0.523	0.577	0.533
3	West Khasi Hills	0.461	0.5	0.529	0.499
4	South West Khasi Hills	0.467	0.523	0.518	0.504
5	East Jaintia Hills	0.436	0.462	0.531	0.480
6	West Jaintia Hills	0.261	0.318	0.186	0.261
7	North Garo Hills	0.397	0.438	0.48	0.440
8	East Garo Hills	0.320	0.362	0.373	0.352
9	West Garo Hills	0.387	0.401	0.377	0.389
10.	South West Garo Hills	0.333	0.319	0.329	0.327
11	South Garo Hills	0.249	0.256	0.246	0.250
	Meghalaya	0.393	0.401	0.412	0.402

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	9.020	9.050	8.990	9.007
2.	Ri Bhoi	9.080	9.060	9.050	9.068
3	West Khasi Hills	8.450	8.450	8.430	8.404
4	South West Khasi Hills	0.000	0.000	0.000	0.000
5	East Jaintia Hills	8.830	8.820	8.850	8.823
6	West Jaintia Hills	8.840	8.830	8.850	8.852
7	North Garo Hills	8.750	8.740	8.760	8.75
8	East Garo Hills	8.730	8.740	8.750	10.35
9	West Garo Hills	8.470	8.620	8.500	8.53
10.	South West Garo Hills	8.450	8.550	8.460	8.586
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	9.012	9.026	9.003	9.011

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	7.459	7.559	7.833	7.625
2.	Ri Bhoi	7.949	8.24	7.935	8.05
3	West Khasi Hills	6.129	6.269	6.157	6.187
4	South West Khasi Hills	-	-	-	-
5	East Jaintia Hills	5.248	5.445	5.131	5.274
6	West Jaintia Hills	7.751	7.814	7.799	7.769
7	North Garo Hills	8.75	8.74	8.76	8.75
8	East Garo Hills	8.237	8.444	15.524	9.741
9	West Garo Hills	8.037	8.098	7.901	8.022
10.	South West Garo Hills	8.45	8.55	8.46	8.586
11	South Garo Hills	0	0	0	0
	Meghalaya	7.657	7.842	7.818	7.772

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	1.850	1.840	1.860	1.843
2.	Ri Bhoi	1.850	1.840	1.870	1.854
3	West Khasi Hills	1.840	1.850	1.850	1.841
4	South West Khasi Hills	1.850	0.000	1.840	0.000
5	East Jaintia Hills	1.850	1.850	1.860	1.843
6	West Jaintia Hills	1.840	1.830	1.860	1.842
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	1.860	1.860	1.850	1.86
10.	South West Garo Hills	1.850	1.840	1.850	1.847
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	1.848	1.845	1.836	1.843

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	0.962	1.002	0.860	0.943
2.	Ri Bhoi	1.193	1.139	1.239	1.188
3	West Khasi Hills	0.811	0.758	1.193	0.913
4	South West Khasi Hills	0.000	0.000	0.000	0.000
5	East Jaintia Hills	0.834	0.945	1.036	0.946
6	West Jaintia Hills	0.550	0.671	0.623	0.618
7	North Garo Hills	0.000	0.000	0.000	0.000
8	East Garo Hills	#DIV/0!	0.000	0.000	#DIV/0!
9	West Garo Hills	1.157	1.265	0.494	0.929
10.	South West Garo Hills	0.958	1.144	0.697	0.933
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	0.971	0.960	0.947	0.959

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	1.396	0.758	0.875	3.029
2.	Ri Bhoi	0.582	0.644	0.847	2.074
3	West Khasi Hills	1.144	1.473	1.643	4.262
4	South West Khasi Hills	0.469	0.621	0.635	1.725
5	East Jaintia Hills	0.723	0.835	1.141	2.698
6	West Jaintia Hills	0.322	0.452	0.198	0.972
7	North Garo Hills	0.902	0.907	1.259	3.069
8	East Garo Hills	0.765	0.852	0.912	2.530
9	West Garo Hills	3.126	3.236	2.734	9.091
10.	South West Garo Hills	1.379	1.334	1.371	4.084
11	South Garo Hills	0.666	0.701	0.650	2.015
	Meghalaya	11.474	11.812	12.266	35.550

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

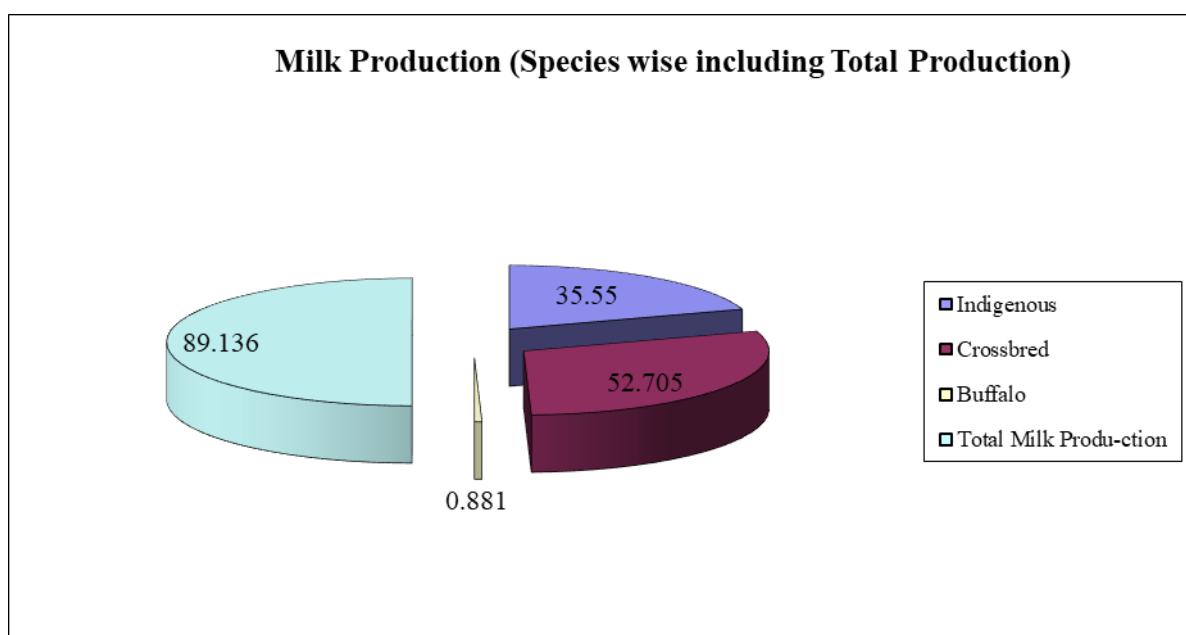
Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	7.438	7.849	9.656	24.944
2.	Ri Bhoi	8.140	8.516	7.278	23.934
3	West Khasi Hills	0.068	0.072	0.066	0.206
4	South West Khasi Hills	0.000	0.000	0.000	0.000
5	East Jaintia Hills	0.285	0.294	0.278	0.857
6	West Jaintia Hills	0.130	0.134	0.130	0.394
7	North Garo Hills	0.012	0.012	0.012	0.035
8	East Garo Hills	0.062	0.061	0.058	0.181
9	West Garo Hills	0.767	0.699	0.598	2.064
10.	South West Garo Hills	0.030	0.032	0.029	0.091
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	16.932	17.669	18.105	52.705

Table 4.9: Milk Production- Buffaloes (Tonnes).

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0.015	0.016	0.012	0.043
2.	Ri Bhoi	0.076	0.069	0.056	0.202
3	West Khasi Hills	0.030	0.027	0.041	0.098
4	South West Khasi Hills	0.048	0.000	0.062	0.111
5	East Jaintia Hills	0.010	0.014	0.014	0.038
6	West Jaintia Hills	0.005	0.007	0.008	0.019
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	0.049	0.063	0.030	0.141
10.	South West Garo Hills	0.066	0.103	0.060	0.229
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	0.299	0.299	0.283	0.881

Table 4.10: Total Milk Production in the State. ('000' Tonnes) 2020-21

Sl. No	Name of Districts	Cow's Milk			Buffalo	Total Milk Produ- ction	Previous Years Produ- ction 2019-2020	% Increase or Decrease over 2019- 20
		Indigenous	Crossbred	Total				
1.	East Khasi Hills	3.029	24.944	27.973	0.043	28.016	26.801	4.53%
2.	Ri Bhoi	2.074	23.934	26.008	0.202	26.210	24.423	7.32%
3.	West Khasi Hills	4.262	0.206	4.468	0.098	4.566	4.658	-1.98%
4.	South West Khasi Hills	1.725	0.000	1.725	0.111	1.836	1.927	-4.72%
5.	East Jaintia Hills	2.698	0.857	3.555	0.038	3.593	4.159	-13.61%
6.	West Jaintia Hills	0.972	0.394	1.366	0.019	1.385	1.762	-21.4%
7.	North Garo Hills	3.069	0.035	3.104	0.000	3.104	3.263	-4.87%
8.	East Garo Hills	2.530	0.181	2.711	0.000	2.711	2.698	0.48%
9.	West Garo Hills	9.091	2.064	11.155	0.141	11.296	11.089	1.87%
10.	South West Garo Hills	4.084	0.091	4.175	0.229	4.404	4.671	-5.72%
11.	South Garo Hills	2.015	0.000	2.015	0.000	2.015	2.032	-0.84%
	Meghalaya	35.550	52.705	88.255	0.881	89.136	87.483	1.89%



**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		
2020-21	9.011	0.785	1.843	7.772	0.402	0.959		

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		
2020-21	16.02	124.05	1.31	18.58	242.28	2.52		

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	Total		
	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%	
2020-21	52.705	35.55	0.881	89.136	(+) 1.89%	

Chapter – 5

District-wise & Season-wise Estimates

Egg Production

**Table 5.1 (a): District-wise and Season-Wise Estimated No. of Poultry (Fowls), 2020-21
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) 2020-21.
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) 2020-21.

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) 2020-21.

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) 2020-21.
(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) 2020-21.
(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) 2020-21.

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	65.94	0.92	77.65	0.38	85.94	0.46
2.	Ri Bhoi	48.96	0.44	53.36	0.14	55.17	0.1
3	West Khasi Hills	38.15	0.04	35.95	0.01	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	0.05	32.47	0.05
9	West Garo Hills	70.82	4.1	60.15	4.1	45.05	1.06
10.	South West Garo Hills	14.18	1.08	13.69	0.27	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) 2020-21.

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2020-21	Annual Production Previous Year 2019-220	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	218.81	1.45	220.26	231.28	-4.76%
2.	Ri Bhoi	154.25	0.57	154.82	158.19	-2.13%
3	West Khasi Hills	107.62	0	107.62	106.31	1.23%
4	South West Khasi Hills	24.97	0.07	25.04	22.46	11.49%
5	East Jaintia Hills	46.86	0.07	46.93	47.93	-2.09%
6	West Jaintia Hills	81.03	0.26	81.29	83.66	-2.83%
7	North Garo Hills	82.53	0	82.53	82.75	-0.27%
8	East Garo Hills	78.57	0.1	78.67	80.51	-2.29%
9	West Garo Hills	171.23	11.11	182.34	182.1	0.13%
10.	South West Garo Hills	62.24	2.04	64.28	42.47	51.35%
11	South Garo Hills	63.87	0.19	64.06	65.14	-1.66%
	Meghalaya	1092.0	15.86	1107.86	1102.8	0.46%

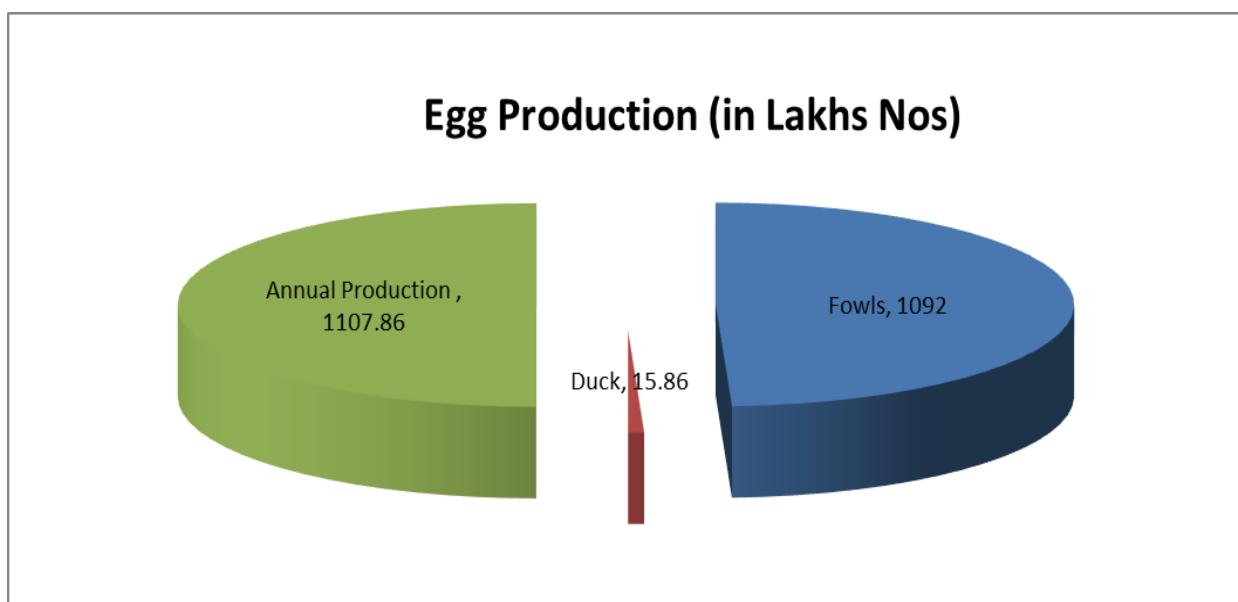


Table 5.5: Estimated Numbers of Layers in Meghalaya from 1983-84.
Lakhs Nos.

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
2020-21	8.976	0.723	9.699	0.15	0.00	0.15	9.126	0.723	9.849

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%
2020-21	104	214	113	952.89	154.97	1107.86	(+) 0.46%

Chapter – 6

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

2020-21

Table 6.1: Utilisation of Milk.

Season	Sold as fluid Milk	Converted into Milk products	Consumed as Fluid Milk in the Household	Total
Summer	94.70	1.15	4.14	100
Monsoon	95.20	1.16	3.64	100
Winter	94.73	1.17	4.10	100
Overall	94.89	1.16	3.95	100

Table 6.2: Percentage Utilization of Produced Eggs.

Season	Utilisation for Home consumption	Set for Hatching	Egg Sold	Damaged or spoiled	Total
Summer	10.42	17.74	68.87	2.97	100
Monsoon	7.06	15.05	76.10	1.80	100
Winter	17.31	27.23	53.91	1.54	100
Overall	9.64	17.68	70.52	2.16	100

Table 6.5: Season wise Utilisation rate of Dung collected From Bovine at Sample Household 2020-21.

Sl No.	Season	Unit	Dung Utilized for manure.	Dung Utilized for Dung cake	Dung Utilized for others such as Bio-gas.	Over all
1.	Summer	Percentage	97.13	1.82	1.04	100.00%
2.	Monsoon.	Percentage	96.65	2.14	1.21	100.00%
3.	Winter	Percentage	96.74	2.14	1.12	100.00%
	Over-All	Percentage	96.85	2.03	1.12	100.00%

Table 6.6: Per Capita availability of Milk and Egg

Items	Unit	Per Capita Availability
Milk	Grams / day	84
Eggs	Nos. / year	38

Table 6.3: Season wise Percentage of Animals which were Grazed, Stallfed or Both. 2020-21

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	CATTLE INDIGENOUS												
	(a) In Milk	48.41	15.74	35.85	100.00	61.91	4.78	33.31	100.00	21.44	33.3	45.26	100.00
	(b) Adult Male	54.02	12.39	33.59	100.00	60.42	6.35	33.23	100.00	46.47	20.22	33.31	100.00
	(c) Young Stock upto 3 Years old.	57.54	9.34	33.19	100.07	64.12	2.58	33.3	100.00	28.81	37.91	33.28	100.00
	Overall: -				0.00				0.00				0.00
1.2	CROSS BRED												
	(a) In Milk	7.22	54.15	38.63	100.00	0	21.95	78.05	100.00	33.33	25.8	40.87	100.00
	(b) Adult Male	0	0	100	100.00	15.72	47.17	37.11	100.00	33.33	15.58	51.09	100.00
	(c) Young Stock upto 3 Years old.	0	9.55	90.45	100.00	0	100	0	100.00	0	0	100	100.00
	Overall: -				0.00				0.00				0.00
2	BUFFALOES												
	(a) In Milk	57.47	0	42.53	100.00	68.55	0	31.45	100.00	62.5	0	37.5	100.00
	© Adult Male	46.67	0	53.33	100.00	66.67	0	33.33	100.00	70.59	0	29.41	100.00
	(d) Young Stock upto 3 Years old.	37.5	25	37.5	100.00	48.39	16.13	35.48	100.00	0	0	100	100.00
	Overall: -				0.00				0.00				0.00

ANNEXURE – X

Distributions of Animals as per the feeding practices observed in the selected households
Name of State: Meghalaya, Year- 2020-21

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/ NonDescript)																
	a) Adult Female	4.80	6.86	4.88	5.42	2.28	3.08	2.93	2.81	1.60	0.00	0.00	0.40	1138	1276	2099	4513
	b) Adult Male	4.10	4.52	4.40	4.33	2.16	2.43	2.50	2.38	0.00	0.00	0.00	0.00	896	662	1276	2834
	c) Young Stock upto 3 years	3.40	3.48	3.12	3.33	0.00	1.08	0.99	0.68	0.00	0.00	0.00	0.00	1220	1123	1187	3530
	d) Overall (%)	27.39	32.28	40.33	100.00	20.78	30.98	48.24	100.00	100.00	0.00	0.00	100.00	3254	3061	4562	10877
2	Cattle (Exotic/ Cross-bred)																
	a) Adult Female	19.20	19.42	10.20	17.59	6.10	6.77	17.86	8.85	5.00	3.68	5.18	4.15	277	1367	400	2044
	b) Adult Male	6.80	15.66	8.95	14.45	4.90	6.08	16.82	7.40	3.35	2.08	3.28	2.28	23	477	73	573
	c) Young Stock upto 2 & 1/2 years	13.50	13.54	8.15	12.47	3.10	2.78	15.66	5.37	1.38	1.16	1.30	1.22	129	646	191	966
	d) Overall (%)	12.82	76.00	11.18	100.00	8.00	50.70	41.30	100.00	14.95	61.72	23.33	100.00	429	2490	664	3583
3	Buffalo																
	a) Adult Female	4.20	4.53	4.33	4.39	2.00	1.65	1.80	1.78	0.00	0.00	0.00	0.00	87	159	80	326
	b) Adult Male	3.55	3.94	3.29	3.58	1.90	0.00	1.70	1.27	0.00	0.00	0.00	0.00	75	60	68	203
	c) Young Stock upto 3 years	1.45	2.20	1.85	1.80	1.30	0.00	1.48	0.94	0.00	0.00	0.00	0.00	80	62	54	196
	d) Overall (%)	29.78	43.54	26.69	100.00	41.13	25.66	33.21	100.00	0.00	0.00	0.00	0.00	242	281	202	725

Source: LPS- 1.2. Block-II

Meat Production – 2020-21

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</u>														
	<u>Slaughter.</u>														
	<u>SUMMER</u>														
(a)	Cattle.	28610	5981	5451	2101	1404	3851	772	1357	5948	1367	2106	58948	49701	9247
(b)	Buffaloes.	224	162	0	0	537	142	0	40	424	37	0	1566	1566	
©	Pig	34971	5694	5563	2184	4094	4204	1087	1719	6816	1638	5061	73031	71378	1653
(d)	Sheep & Goat	8845	1996	371	518	2703	2238	142	1515	3628	1015	1717	24688	23822	866
(e)	Poultry.	376744	46698	47796	14576	24588	80042	4865	15927	83037	6570	16325	717168	711444	5724
	<u>MONSOON</u>														
(a)	Cattle.	32466	8417	8508	2459	2475	8707	1259	2073	8234	1924	3705	80227	76480	3747
(b)	Buffaloes.	489	705	0	0	456	116	0	27	585	45	0	2423	2423	
©	Pig.	40491	8246	6831	2857	4777	11931	1376	2197	8681	1331	8947	97665	90861	6804
(d)	Sheep & Goat	10009	2566	457	8121	4382	2006	247	2083	4623	1212	2281	37987	36652	1335
(e)	Poultry.	406137	63435	61843	128831	31648	103388	6840	21007	105605	8715	23268	960717	950393	10324
	<u>WINTER</u>														
(a)	Cattle.	44610	8651	9214	2387	2220	7961	1016	2194	7667	1734	3351	91005	84005	7000
(b)	Buffaloes.	246	162	0	0	593	107	0	29	545	45	0	1727	1727	
©	Pig.	53537	8781	7763	2729	4590	12375	1301	2355	9248	1622	7454	111755	104895	6860
(d)	Sheep & Goat	17305	2543	456	11027	4515	2165	159	1984	4613	1175	2635	48577	47338	1239
(e)	Poultry.	792801	62997	66893	18584	31060	106713	6234	19383	100394	8132	22507	1235698	1217120	18578

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	105.69	23.05	23.17	6.95	6.1	20.52	3.05	5.62	21.85	5.03	9.16	230.19	210.2	19.99
2.	Buffaloes	0.96	1.03	0	0	1.59	0.37	0	0.1	1.55	0.13	0	5.73	5.73	0
3.	Pig	129	22.72	20.16	7.77	13.46	28.51	3.76	6.27	24.75	4.59	21.46	282.45	267.13	15.32
4.	Sheep & Goat	36.16	7.11	1.28	19.67	11.60	6.41	0.55	5.58	12.86	3.40	6.63	111.25	107.81	3.44
5.	Poultry	1575.68	173.13	176.53	161.99	87.3	290.14	17.94	56.32	289.04	23.42	62.1	2913.59	2878.96	34.63

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</u> <u>Slaughter.</u> SUMMER												
(a)	Cattle.	90.18	89.99	89.99	89.76	89.79	89.88	89.50	89.77	89.75	89.61	89.89	90.01
(b)	Buffaloes.	118.00	118.00	0.00	0.00	119.00	118.00	0.00	118.00	119.00	119.00	0.00	118.00
(c)	Pig.	45.66	45.94	46.21	46.57	46.08	46.41	42.01	41.24	41.37	41.18	41.89	44.90
(d)	Sheep & Goat.	9.79	9.70	9.71	9.71	9.62	9.55	9.69	9.74	9.76	9.68	9.70	9.72
(e)	Poultry.	1.49	1.41	1.42	1.41	1.40	1.42	1.41	1.39	1.40	1.38	1.36	1.45
	MONSOON												
(a)	Cattle.	89.86	89.79	89.74	89.71	89.53	89.69	88.45	88.62	88.94	88.80	88.93	89.59
(b)	Buffaloes.	118.00	118.00	0.00	0.00	118.00	118.00	0.00	119.00	118.00	119.00	0.00	118.00
(c)	Pig.	46.36	46.44	47.06	46.49	47.36	47.48	40.95	41.94	43.20	41.29	42.18	45.70
(d)	Sheep & Goat.	9.30	9.38	9.31	9.54	9.58	9.54	9.36	9.21	9.35	9.47	9.42	9.41
(e)	Poultry.	1.40	1.38	1.38	1.36	1.38	1.38	1.34	1.33	1.36	1.35	1.33	1.38
	WINTER												
(a)	Cattle.	89.84	89.74	89.71	89.55	89.33	89.50	88.62	88.57	88.74	88.61	88.73	89.57
(b)	Buffaloes.	118.00	118.00	0.00	0.00	118.00	118.00	0.00	119.00	118.00	118.00	0.00	118.00
(c)	Pig.	46.95	46.81	46.37	46.64	46.58	47.58	43.15	43.18	43.02	42.99	42.68	46.15
(d)	Sheep & Goat.	9.33	9.46	9.38	9.39	9.50	9.48	9.75	9.33	9.42	9.55	9.74	9.41
(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	89.93	117.71	46.42	9.43	1.37
2.	Ri – Bhoi	89.80	117.48	46.48	9.42	1.38
3.	West Khasi Hills	89.86	-	46.53	9.38	1.34
4	South West Khasi Hills	89.78	-	46.59	9.46	1.36
5	East Jaintia Hills	89.51	118.24	46.73	9.57	1.36
6	West Jaintia Hills	89.67	118.92	47.35	9.52	1.38
7	North Garo Hills	88.52	-	42.02	9.09	1.39
8	East Garo Hills	88.97	110.00	42.26	9.50	1.35
9	West Garo Hills	89.06	118.06	42.63	9.41	1.36
10	South West Garo Hills	88.87	107.69	41.83	9.41	1.37
11	South Garo Hills	88.97	-	42.26	9.65	1.34
	Meghalaya	89.69	117.63	45.67	9.47	1.37

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
	SUMMER														
1.	Cattle.	2580	538	491	189	126	346	69	122	534	122	189	5306	4474	832
2.	Buffaloes	26	19	0	0	64	17	0	5	50	4	0	185	185	0
3.	Pigs	1597	262	257	102	189	195	46	71	282	67	212	3280	3206	74
4.	Sheep &Goat.	87	19	4	5	26	21	1	15	35	10	17	240	232	8
5.	Poultry.	561	66	68	21	34	114	7	22	116	9	22	1040	1032	8
	TOTAL	4851	904	820	317	439	693	123	235	1017	212	440	10051	9129	922
	MONSOON														
1.	Cattle.	2917	756	764	221	222	781	111	184	732	171	329	7188	6852	336
2.	Buffaloes	58	83	0	0	54	14	0	3	69	5	0	286	286	0
3.	Pigs	1877	383	321	133	226	566	56	92	375	55	377	4461	4150	311
4.	Sheep &Goat.	93	24	4	77	42	19	2	19	43	11	21	355	342	13
5.	Poultry.	569	88	85	175	44	143	9	28	144	12	31	1328	1314	14
	TOTAL	5514	1334	1174	606	588	1523	178	326	1363	254	758	13618	12944	674
	WINTER														
1.	Cattle.	4008	776	827	214	198	713	90	194	680	154	297	8151	7524	627
2.	Buffaloes	29	19	0	0	70	13	0	3	64	5	0	203	203	0
3.	Pigs	2514	411	360	127	214	589	56	102	398	70	318	5159	4842	317
4.	Sheep &Goat.	161	24	4	104	43	21	2	19	43	11	26	458	446	12
5.	Poultry.	1031	85	84	25	41	142	9	26	133	11	30	1617	1593	24
	TOTAL	7743	1315	1275	470	566	1478	157	344	1318	251	671	15588	14608	980
	OVERALL	18108	3553	3269	1393	1593	3694	458	905	3698	717	1869	39257	36681	2576

7.6: District-wise & Category-wise Meat Production

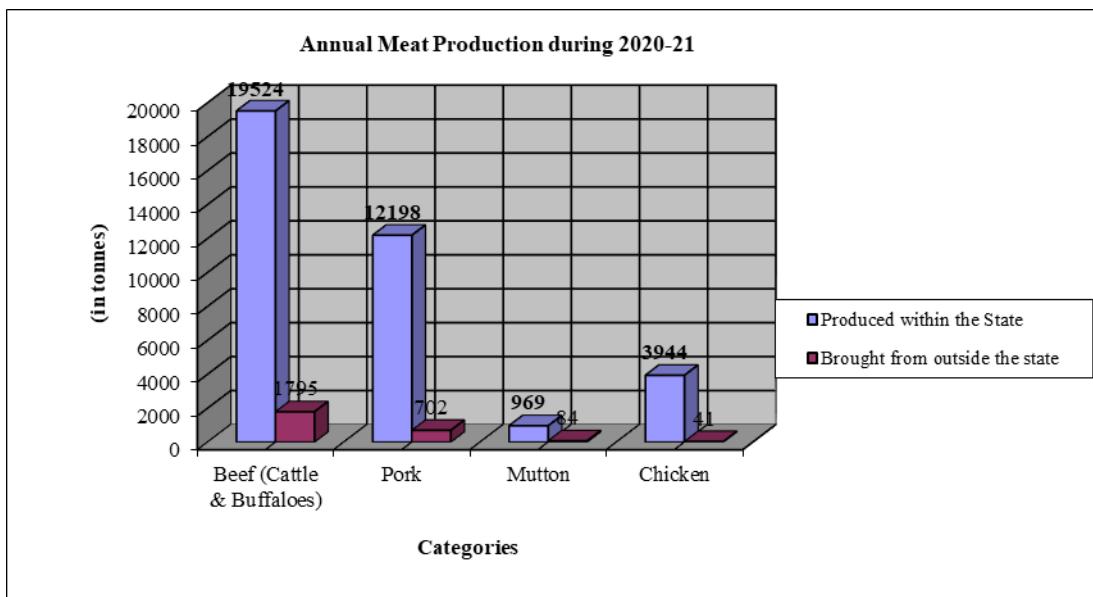
Sl No	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	Total	Source	
														Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.	Cattle	9505	2070	2082	624	546	1840	270	500	1946	447	815	20645	18850	1795
2	Buffaloes	113	121	0	0	188	44	0	11	183	14	0	674	674	0
3.	Pig	5988	1056	938	362	629	1350	158	265	1055	192	907	12900	12198	702
4.	Sheep & Goat	341	67	12	186	111	61	5	53	121	32	64	1053	1020	33
5.	Poultry	2161	239	237	221	119	399	25	76	393	32	83	3985	3939	46
	TOTAL	18108	3553	3269	1393	1593	3694	458	905	3698	717	1869	39257	36681	2576

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 2020-21	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	9505	113	9618	5988	341	2161	18108	46.13 %		
2.	Ri – Bhoi	2070	121	2191	1056	67	239	3553	9.05 %		
3.	West Khasi Hills	2082	0	2082	938	12	237	3269	8.33 %		
4	South West Khasi Hills	624	0	624	362	186	221	1393	3.55 %		
5	East Jaintia Hills	546	188	734	629	111	119	1593	4.06 %		
6	West Jaintia Hills	1840	44	1884	1350	61	399	3694	9.41 %		
7	North Garo Hills	270	0	270	158	5	25	458	1.17 %		
8	East Garo Hills	500	11	511	265	53	76	905	2.31 %		
9	West Garo Hills	1946	183	2129	1055	121	393	3698	9.42 %		
10	South West Garo Hills	447	14	461	192	32	32	717	1.83 %		
11	South Garo Hills	815	0	815	907	64	83	1869	4.76 %		
	State (Overall)	20645	674	21319	12900	1053	3985	39257	100 %		
	Percentage Contribution of each species to total production	52.59%	1.72%	54.31%	32.86%	2.68%	10.15%	100%			

Table 7.8: Growth Rate & Total Meat production.

Sl No.	Items	Annual Meat Production (in tonnes)						Percentage Increase (+) or Decrease (-) over previous year	
		2020-21			2019-20				
		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)	19524	1795	21319	13287	12036	25323	-15.81%	
2	Pork	12198	702	12900	13997	1272	15269	-15.52%	
3	Mutton	1020	33	1053	1180	58	1238	-14.94%	
4	Chicken	3939	46	3985	4289	152	4441	-10.27%	
5	Total	36681	2576	39257	32753	13518	46271	-15.16%	



7.9: Per Capita Availability of Meat Grams / Day 2020-21

Items	Per Capita Availability
Beef	18.93
Pork	11.45
Mutton	0.93
Chicken	3.54
Total	34.85

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
2020-21	230.19	5.73	282.45	111.25	2913.59

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
2020-21	89.69	117.63	45.67	9.47	1.37

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
2020-21	21.319	12.900	1.053	3.985	39.257

ANNEXURE – I

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

Year 1	Milk Production (‘000’ tonnes) 2	Meat Production (‘000’ tonnes) 3	Egg Production (Million Nos.) 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	7650	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 1	Milk Production ('000' tonnes) 2	Meat Production ('000' tonnes) 3	Egg Production (Million Nos.) 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
2020-21	89.136	39.257	1107.86





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