



Government of Meghalaya

**REPORT ON INTEGRATED
SAMPLE SURVEY
FOR**

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

YEAR : 2018-19.



**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 2018– 2019 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 **1.18** % on Milk, **1.56** % on Egg and **4.66** % on Meat over 2016-2017.

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.

Dr. C.Shilla
Director A.H. & Veterinary Department
Meghalaya, Shillong.

CONTENTS

CHAPTER – I

GENERAL

	Page
1.1 The State	- 1
1.2 Climate	- 1
1.3 Rainfall	- 1
1.4 Population and Area.....	- 1
Table 1.1 General Information.....	- 2
Table 1.2 Human Population (2001)	- 2
Table 1.3 Land Use Statistics (2007-08 to 2011-2012)	- 3
Table 1.4 Classification of Households possessing Bovine according to the Size of the Unit during the Year 2015-16	- 3
Table 1.5 Area Sq. Km. with Density of Livestock Population per Sq. Kms.	- 4
Table 1.6 Density of Livestock Population per 100 Villages	- 5

CHAPTER – II

LIVESTOCK CENSUS DATA 2007 & 2012

Table 2.1 Livestock Population 2007(a) Cattle & Buffaloes	- 6
Table 2.1 Livestock Population 2007(b) Sheep, Goats, Horses & Ponies.....	- 6
Table 2.1 Pig Population, Livestock Population 2007 © & Rabbit.....	- 7
Table 2.2 Poultry Population 2007.....	- 7
Chart showing 2007 census.....	- 8
Table 2.3 Livestock Population 2012(a) Cattle & Buffaloes.....	- 8
Table 2.3 Livestock Population 2012(b) Sheep, Goats, Horses & Ponies.....	- 9
Table 2.3 Pig Population, Livestock Population 2012 © & Rabbit.....	- 10
Chart showing Livestock Population 2012.....	- 10
Table 2.4 Poultry Population 2012	- 11
Chart showing Census 2012 District Wise.....	- 11
Table 2.5 Livestock Population 2012 & Growth rate as compared to 2007 Census.	- 12
Chart showing Census Comparison between 2007 & 2012.....	- 12
Chart showing growth rate of 2012 to 2007 census (in %).	- 13
Chart showing growth rate of 2012 to 2007 census (in nos.).....	- 13

CHAPTER – III

ANALYSIS OF THE INTEGRATED SAMPLE SURVEY

3.1 Integrated Sample Survey – Genesis & Usefulness.....	- 14
3.2 Coverage of the Survey.....	- 14
3.3 Period of the Survey.....	- 14
3.4 Methodology / Sampling Plant.....	- 15
3.5 Machinery in the Survey along with Staff Position	- 15&16
3.6 Schedule Prescribed in the Survey	- 16
3.7 Types of Data collected	- 16
3.8 Schedule L.P.S – 1.2; Detailed of Milk Production	- 16
3.9 Schedule L.P.S – 2.1; Detailed of Eggs Production	- 16
3.10 Schedule Form III Detail of Meat Production	- 16
3.11 Summary Results	- 17-18
3.12 Annual Report on Sample Survey to estimate production on Milk products	- 19-20
3.13 District wise Number of Villages Selected for Complete Enumeration	- 20

CHAPTER –IV

DISTRICT WISE AND SEASONWISE ESTIMATES MILK PRODUCTION

	Page
Table 4.1 (a) Estimated Number of Productive Cows (Indigenous) In milk	21
Table 4.1 (b) & © Estimated Number of Productive Cows (Indigenous) Dry & Milch...	22
Table 4.2 (a) & (b) Estimated Number of Productive Cows (Crossbred) In milk & dry	23
Table 4.2 (c) Estimated Number of Productive Cows (Crossbred) Milch.....	24
Table 4.3 (a) & (b) Estimated Number of Productive (Buffaloes) In milk & Dry.....	25
Table 4.3 c Estimated Number of Productive (Buffaloes) Milch.....	26
Table 4.4 a Estimated Milk Yield per day Per Animal (Indigenous) ... in milk.....	26
Table 4.4 b Estimated Milk Yield per day Per Animal (Indigenous) ...Milch.....	27
Table 4.5 a Estimated Milk Yield per day Per Animal (Crossbred).....In milk.....	27
Table 4.5 b Estimated Milk Yield per day Per Animal (Crossbred).....Milch.....	28
Table 4.6 a Estimated Milk Yield per day Per Animal (Buffaloes)..in milk.....	28
Table 4.6 b Estimated Milk Yield per day Per Animal (Buffaloes) ..milch.....	29
Table 4.7 Milk Production (Indigenous) ... season wise.....	29
Table 4.8 Milk Production (Crossbred) ...season wise.....	30
Table 4.9 Milk Production (Buffaloes) ...season wise.....	30
Table 4.10 Total Milk Production in the State	31
Chart showing Milk Production species-wise	31
Table 4.11 Average Milk Yield per Animal / Day in Milk & Milch Animals from 1983-84	32-33
Table 4.12 Estimated number in Milk & Milch Animal from 1983-84	34-35
Table 4.13 Estimated Milk Production from 1983-84.....	36-37

CHAPTER –V

DISTRICT WISE AND SEASONWISE ESTIMATES EGG PRODUCTION

Table 5.1(a) District wise and Season wise Estimated No. of Poultry (Fowls)...	38
Table 5.1(b) District wise and Season wise Estimated No. of Poultry (Ducks)...	39
Table 5.2 (a) District wise and Season wise Estimated Yield per Layer (Fowls).....	40
Table 5.2 (b) District wise and Season wise Estimated Yield per Layer (Ducks).....	41
Table 5.3 (a) District wise and Season wise Estimated Egg Production (Fowls)....	42
Table 5.3 (b) District wise and Season wise Estimated Egg Production (Ducks).....	43
Table 5.4 (a) Estimated Total Egg Production (Season wise).....	44
Table 5.4 (b) Estimated Total Egg Production (Species wise).....	45
Chart showing Egg Production (in lakhs nos.).....	45
Table 5.5 Estimated Number of Layers from 1983-84	46-47
Table 5.6 Estimated Yield per Annum per Layer and Total Egg Production from 1983-84	48-49

CHAPTER – VI

SEASON WISE PERCENTAGE UTILISATION OF MILK AND EGGS IN SAMPLE HOUSEHOLDS.

Table 6.1 Utilisation of Milk.....	50
Table 6.2 Utilisation of Produced Eggs	50
Table 6.3 Season wise Utilisation of Dung collected from Bovine at Sample Household	51
Table 6.4 Per Capita availability of Milk and Eggs	51
Table 6.5 Season wise Percentage of Animals which were Grazed, Stallfed or Both	52
Table 6.5 Distribution of Animals as per feeding practices observed in the selected households	53

CHAPTER – VII

MEAT PRODUCTION

	Page
Table 7.1 District Wise & Season Wise Number of Animals & Poultry Slaughtered...	- 54
Table 7.2 District Wise Numbers of Animals Slaughtered (Overall).....	- 55
Table 7.3 District Wise & Season Wise Average Yield per Animal.....	- 56
Table 7.4 District Wise Average Yield per Animal (Overall)	- 57
Table 7.5 District wise and Season wise Meat production	- 58
Table 7.6 District wise Season wise Total Meat Production	- 59
Table 7.7 District wise and Category wise Total Meat Production	- 60
Table 7.8 Growth Rate, Percentage contribution of each Category to Total Meat production with Per Capita Availability.....	- 60
Chart showing Annual Meat Production.....	- 61
Table 7.9 Per Capita Availability of Meat per Day / grams 2017-18	- 61
Table 7.10 Estimated Number of Animals Slaughtered from 1983-84	- 62-63
Table 7.11 Average Meat Yield per Animal from 1983-84	- 64-65
Table 7.12 Total Meat production from 1983-84	- 66-67
Annexure – I Comparative Analysis showing production estimate with effect from the year 1983-84 to 2017-18.....	- 68-69

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 2018-19.

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	10.48	30.48	19.05	16.19	9.52	2.86	11.43	100%
2.	Ri Bhoi	11.96	40.22	27.17	9.78	7.61	0.00	3.26	100%
3	West Khasi Hills	11.30	31.30	16.52	14.78	10.43	1.74	13.91	100%
4	South West Khasi Hills	6.25	28.13	23.44	12.50	10.94	3.13	15.63	100%
5	East Jaintia Hills	1.49	28.36	13.43	14.93	14.93	5.97	20.90	100%
6	West Jaintia Hills	9.52	26.98	17.46	11.11	9.52	7.94	17.46	100%
7	North Garo Hills	2.67	10.67	29.33	18.67	17.33	6.67	14.67	100%
8	East Garo Hills	8.51	24.47	31.91	11.70	11.70	4.26	7.45	100%
9	West Garo Hills	3.50	15.38	24.48	15.38	11.19	6.29	23.78	100%
10.	South West Garo Hills	7.84	20.59	6.86	19.61	14.71	10.78	19.61	100%
11	South Garo Hills	3.37	48.31	21.35	15.73	4.49	0.00	6.74	100%
	Meghalaya	7.14	27.35	21.01	14.77	11.00	4.46	14.27	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	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.

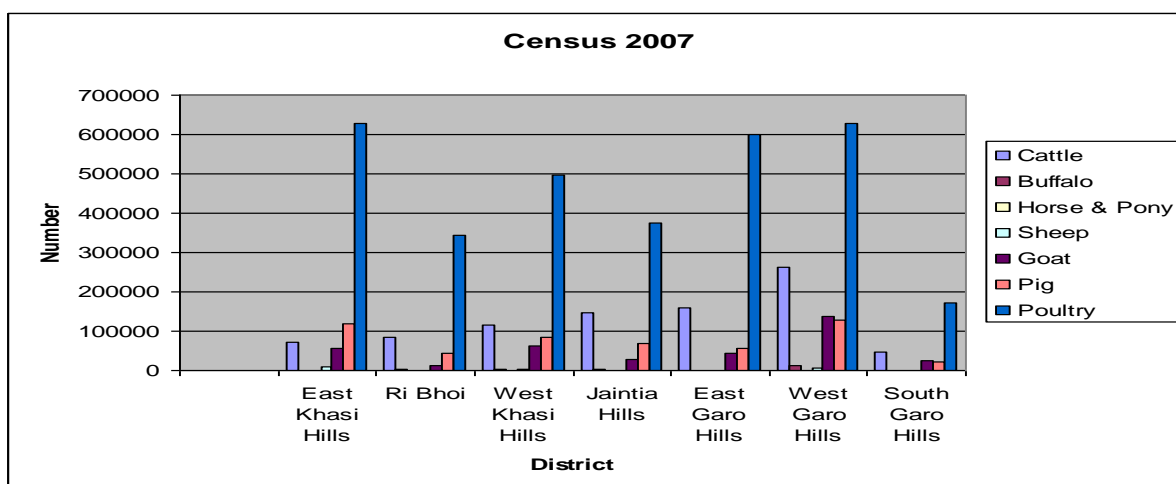
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	3	8954	8957	56632	48
2.	Ri – Bhoi	-	116	116	13835	24
3.	West Khasi Hills	189	3327	3516	61786	1732
4.	Jaintia Hills	30	12	42	27005	33
5.	East Garo Hills	-	1260	1260	43652	0
6.	West 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

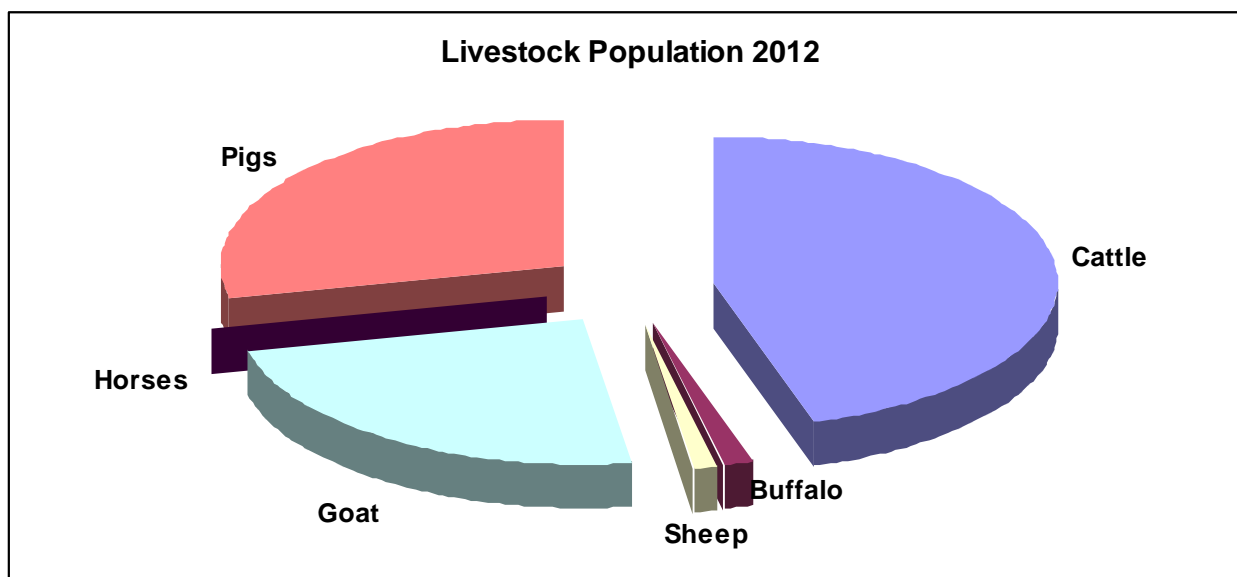
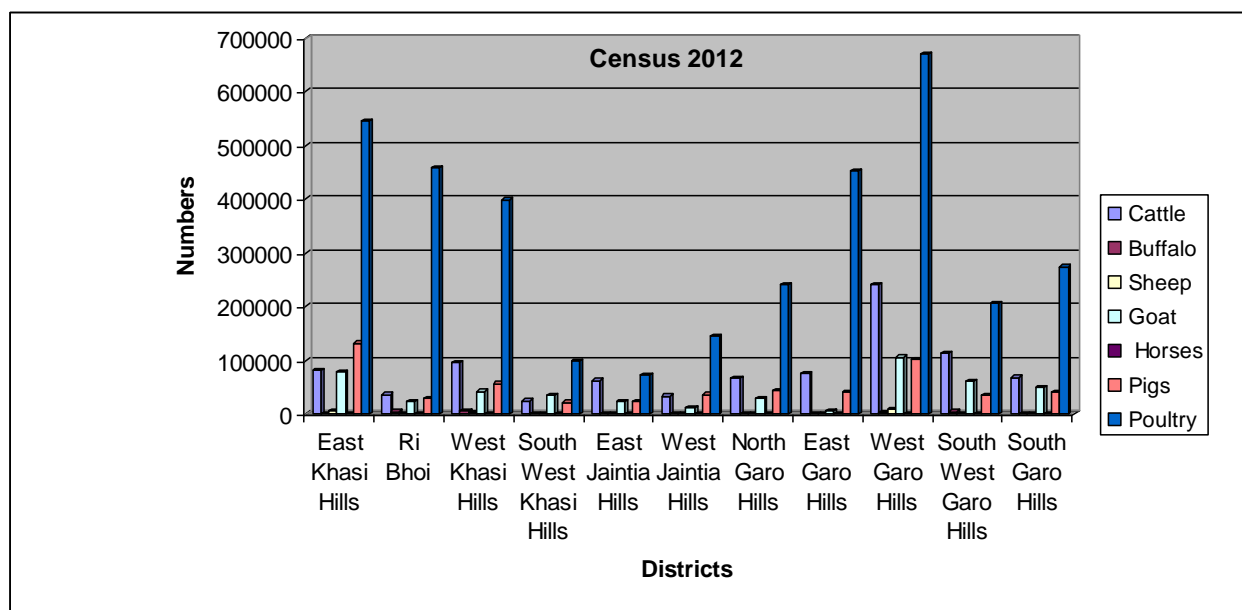


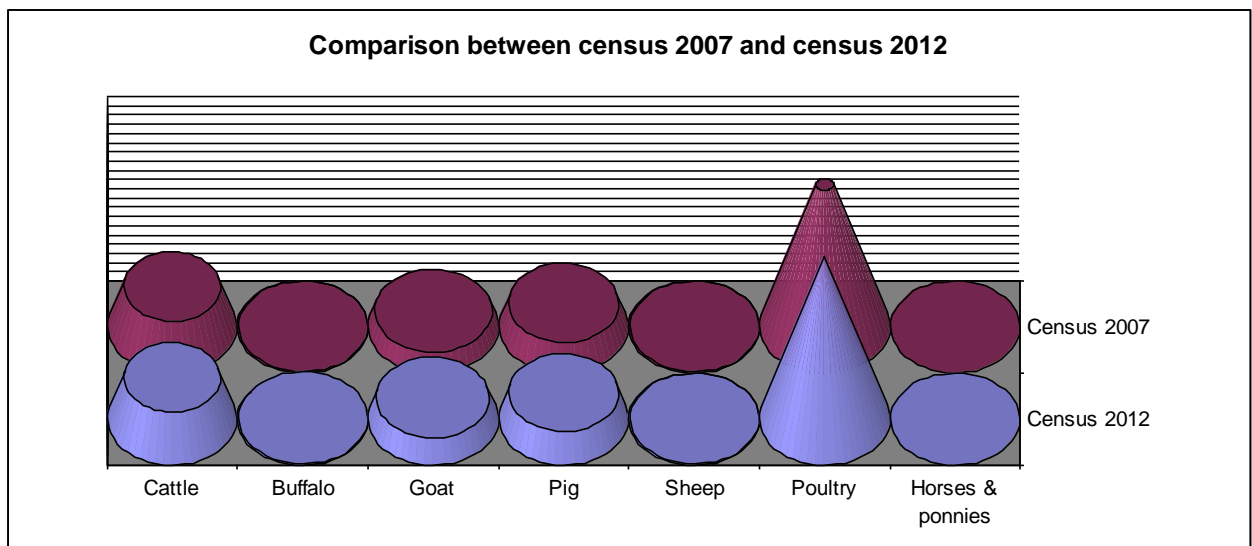
Table 2.4: Poultry Population.

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

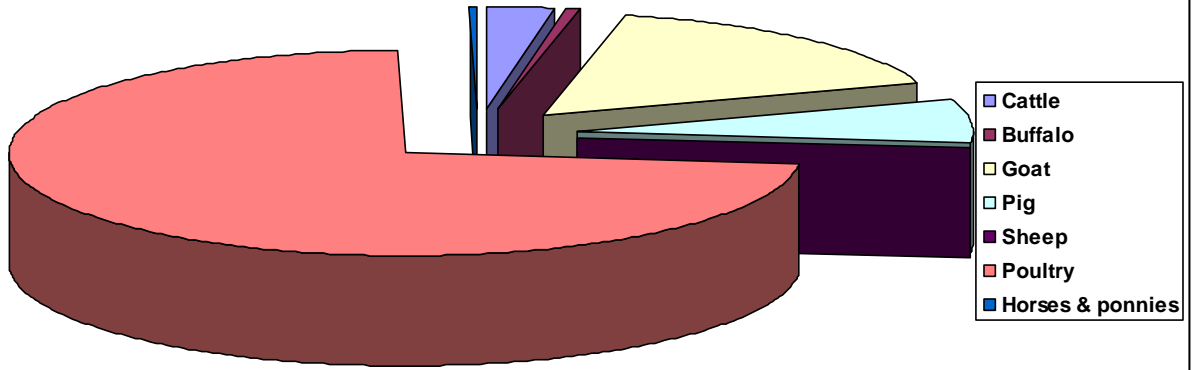


**TABLE – 2.5: LIVESTOCK POPULATION: (as per 2012 Census)
and Growth Rate as compared to 2007 Census**

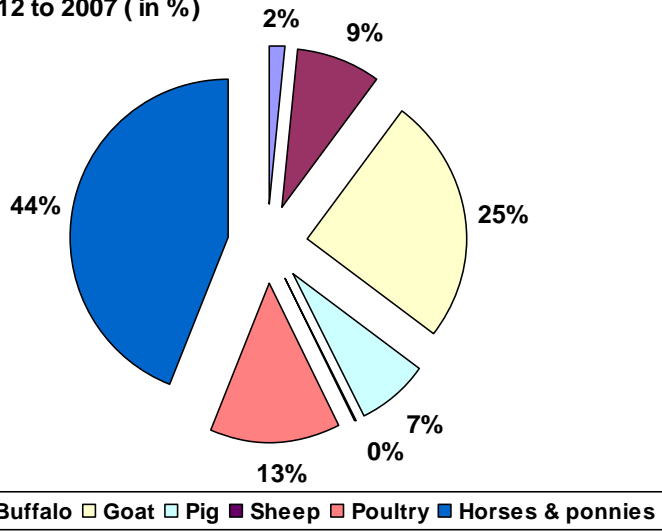
Sl No	Species	Population (Numbers)			Total	Growth Rate (%)
1	Cattle	Crossbred	Male	5602	26458	-1.45
			Female	20856		
		Indigenous	Male	355705	879295	2.2
			Female	523590		
2	Buffalo	Indigenous	Male	16363	24894	10.02
			Female	8531		
3	Goat	Indigenous	Male	179502	472325	29.23
			Female	292823		
4	Pig	Exotic/ Crossbred	Male	72834	137984	96.68
			Female	65150		
		Indigenous	Male	224672	431317	-5.04
			Female	206645		
5	Sheep	Exotic/ Crossbred	Male	299	805	232.64
			Female	506		
		Indigenous	Male	7434	20186	-2.95
			Female	12752		
6	Poultry	Fowl	Improved	344157	3541716	25.84
			Desi	3197559		16.15
		Duck	Improved	514	22845	-93.56
			Desi	22331		-61.76
		Others	Turkey	498	498	2271.43
		7	Dog		256972	256972



Growth Rate of Census 2012 to 2007 (Nos)



Growth Rate of Census 2012 to 2007 (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 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 2017-18	Estimate Current Year 2018-19	% of Increase or Decrease over previous Year
I	Milk				
	Indigenous Cows				
	Population				
A	In Milk	00 No.	1228	1230.3	0.19%
B	Milch	00 No.	2206	2260.7	2.48%
	Yield per Day				
C	In Milk	Kgs.	0.774	0.778	0.52%
D	Milch	Kgs.	0.43	0.422	-1.86%
E	Production	000 tonnes	34.681	39.943	15.17%
	Crossbred Cows				
	Population				
F	In Milk	00 Nos.	152	153.8	1.18%
G	Milch	00 Nos.	175	181.6	3.77%
	Yield per day				
H	In Milk	Kgs.	8.951	8.957	0.07%
I	Milch	Kgs.	7.746	7.587	-2.05%
J	Production	000 tonnes	49.654	50.43	1.56%

Table 3.11 – contd.

Sl No.	Items	Unit	Estimates Previous Year 2017-18	Estimate Current Year 2018-19	% of Increase or Decrease over previous Year
	Buffalo Population				
K	In Milk	00 No.	14	13.4	-4.29%
L	Milch	00 No.	23	22.2	-3.48%
	Yield per Day				
M	In Milk	Kgs.	1.843	1.843	0%
N	Milch	Kgs.	1.12	1.121	0.09%
O	Production	000 tonnes	0.938	0.907	-3.3%
	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	86.28	1.18%
II	Egg Production				
	Layers				
U	Desi	00 No.	8703	8845	1.63%
V	Improved	00 No.	738	770	4.34%
W	Total	00 No.	9441	9522	0.86%
	Yield per layer per year				
X	Desi	No.	105	105	0%
Y	Improved	No.	216	212	-1.85%
	Production				
Z	Desi	Lakhs Nos.	914.22	926.98	1.4%
Aa	Improved	“	159.48	163.42	2.47%
Ab	Total	“	1073.7	1090.4	1.56%

**Table 3.12 Annual Report on Sample Surveys to estimate production of Livestock products.
State: - Meghalaya.
2018-2019**

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.	69	88	88	245
2. ©	No. of villages covered for detailed study.				
	i) for Milk	69	72	68	209
	ii) for Egg	69	72	68	209
3.(a)	Total No. of households in the State. (2012 Census) Lakhs Nos.				
3. (b)	Percentage of Households keeping: -				
	i) Bovine	48.61	46.18	44.58	46.49
	ii) Poultry	82.10	81.69	85.16	83.02
	iii) Sheep	0.07	0.98	0.44	0.47
	iv) Goat	28.4	22.03	17.09	22.58
	v) Pig	59.05	65.07	67.69	63.85
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)	548	604	501	1653
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	562	550	520	1632
	ii) Buffalo in Milk.	49	35	51	135
	iii) Goat in Milk.	0	0	0	0
5. (a)	No. of Households observed for egg production.	1199	982	913	3094
5. (b)	No. of Layers observed.				
	i) Desi & Improved	3551	3628	5064	12243
	.				

Table 3.12 – Contd.

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered. '000' Nos.				
	i) Cattle	86.457	87.713	90.775	264.945
	ii) Buffalo	1.739	1.998	1.784	5.521
	iii) Sheep & Goat	40.775	44.102	44.035	128.912
	iv) Pig	109.414	108.67	118.117	336.201
	v) Poultry	1093.912	1218.773	815.885	3128.57

Table 3.13: District-wise Number of Villages selected for complete enumeration during the year 2018-19.

Sl. No.	Name of District	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	38	39	39	116
2.	Ri Bhoi	21	21	20	62
3	West Khasi Hills	28	28	28	84
4	South West Khasi Hills	15	15	14	44
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	19	19	20	58
11	South Garo Hills	26	27	27	80
	State (Overall)	255	257	258	770

Chapter – 4
District-wise & Season-wise Estimates
Milk Production
2018-2019

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	11820	6621	7229	8557
2.	Ri Bhoi	2808	5232	6987	5009
3	West Khasi Hills	10434	14682	15728	13615
4	South West Khasi Hills	3602	6256	6503	5454
5	East Jaintia Hills	6990	9278	12131	9466
6	West Jaintia Hills	3503	5158	2281	3647
7	North Garo Hills	10330	9838	13228	11132
8	East Garo Hills	8403	9145	9480	9009
9	West Garo Hills	43106	30375	29426	34302
10.	South West Garo Hills	16032	14586	14744	15121
11	South Garo Hills	7846	8087	7238	7724
	Meghalaya	124874	119258	124975	123036

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	5785	6935	7491	6737
2.	Ri Bhoi	4007	5785	5795	5196
3	West Khasi Hills	11387	10908	10557	10951
4	South West Khasi Hills	2298	3293	4625	3405
5	East Jaintia Hills	9403	9711	14220	11111
6	West Jaintia Hills	5930	8057	8095	7361
7	North Garo Hills	7235	7235	12995	9155
8	East Garo Hills	5986	5366	5695	5682
9	West Garo Hills	31818	25162	27760	28247
10.	South West Garo Hills	9191	10564	12509	10755
11	South Garo Hills	4297	4798	4209	4435
	Meghalaya	97337	97814	113951	103035

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	17605	13556	14720	15294
2.	Ri Bhoi	6815	11017	12782	10205
3	West Khasi Hills	21821	25590	26285	24565
4	South West Khasi Hills	5900	9549	11128	8859
5	East Jaintia Hills	16393	18989	26351	20578
6	West Jaintia Hills	9433	13215	10376	11008
7	North Garo Hills	17565	17073	26223	20287
8	East Garo Hills	14389	14511	15175	14692
9	West Garo Hills	74924	55537	57186	62549
10.	South West Garo Hills	25223	25150	27253	25875
11	South Garo Hills	12143	12885	11447	12158
	Meghalaya	222211	217072	238926	226070

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	6475	7215	7720	7137
2.	Ri Bhoi	7852	6404	5933	6730
3	West Khasi Hills	57	118	116	97
4	South West Khasi Hills	37	104	113	85
5	East Jaintia Hills	483	457	449	463
6	West Jaintia Hills	220	165	307	231
7	North Garo Hills	32	77	45	51
8	East Garo Hills	53	79	54	62
9	West Garo Hills	221	572	562	452
10.	South West Garo Hills	40	87	102	76
11	South Garo Hills	0	0	0	0
	Meghalaya	15470	15276	15398	15384

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	1583	1397	1516	1499
2.	Ri Bhoi	619	647	581	616
3	West Khasi Hills	39	37	35	37
4	South West Khasi Hills	67	62	67	65
5	East Jaintia Hills	147	143	163	151
6	West Jaintia Hills	143	142	145	143
7	North Garo Hills	46	46	44	45
8	East Garo Hills	32	38	48	39
9	West Garo Hills	158	142	151	150
10.	South West Garo Hills	31	29	37	32
11	South Garo Hills	0	0	0	0
	Meghalaya	2865	2683	2787	2777

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	8058	8612	9236	8635
2.	Ri Bhoi	8471	7051	6514	7345
3	West Khasi Hills	96	155	151	134
4	South West Khasi Hills	104	166	180	150
5	East Jaintia Hills	630	600	612	614
6	West Jaintia Hills	363	307	452	374
7	North Garo Hills	78	123	89	97
8	East Garo Hills	85	117	102	101
9	West Garo Hills	379	714	713	602
10.	South West Garo Hills	71	116	139	109
11	South Garo Hills	0	0	0	0
	Meghalaya	18335	17961	18185	18161

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

Sl. No.	Name of Districts	In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	71	64	57	64
2.	Ri Bhoi	305	346	221	290
3	West Khasi Hills	133	111	112	119
4	South West Khasi Hills	0	0	0	0
5	East Jaintia Hills	46	53	48	49
6	West Jaintia Hills	36	45	36	39
7	North Garo Hills	0	0	0	0
8	East Garo Hills	7	0	0	2
9	West Garo Hills	356	267	391	338
10.	South West Garo Hills	453	434	444	444
11	South Garo Hills	0	0	0	0
	Meghalaya	1407	1319	1308	1345

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

Sl. No.	Name of Districts	Dry			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	11	36	33	27
2.	Ri Bhoi	98	265	370	244
3	West Khasi Hills	123	120	167	137
4	South West Khasi Hills	2	0	0	1
5	East Jaintia Hills	20	18	30	23
6	West Jaintia Hills	28	29	27	28
7	North Garo Hills	0	0	0	0
8	East Garo Hills	0	0	0	0
9	West Garo Hills	290	229	229	249
10.	South West Garo Hills	202	146	141	163
11	South Garo Hills	0	0	0	0
	Meghalaya	774	843	997	872

Table 4.3 ©: Estimated Number of Productive Buffaloes.

Sl. No.	Name of Districts	Milch			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	82	100	90	91
2.	Ri Bhoi	403	611	590.5	534
3	West Khasi Hills	256	231	279	256
4	South West Khasi Hills	2	0	0	1
5	East Jaintia Hills	66	71	78	72
6	West Jaintia Hills	64	74	63	67
7	North Garo Hills	0	0	0	0
8	East Garo Hills	7	0	0	2
9	West Garo Hills	646	496	620	587
10.	South West Garo Hills	655	580	584.5	607
11	South Garo Hills	0	0	0	0
	Meghalaya	2181	2162	2305	2217

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	0.930	0.880	0.870	0.901
2.	Ri Bhoi	1.020	1.010	1.010	1.01
3	West Khasi Hills	0.840	0.840	0.870	0.851
4	South West Khasi Hills	0.820	0.820	0.800	0.812
5	East Jaintia Hills	0.740	0.750	0.780	0.759
6	West Jaintia Hills	0.750	0.750	0.750	0.752
7	North Garo Hills	0.730	0.750	0.750	0.743
8	East Garo Hills	0.700	0.750	0.740	0.731
9	West Garo Hills	0.730	0.760	0.740	0.742
10.	South West Garo Hills	0.730	0.750	0.740	0.74
11	South Garo Hills	0.690	0.740	0.720	0.717
	Meghalaya	0.764	0.785	0.786	0.778

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	0.624	0.43	0.427	0.504
2.	Ri Bhoi	0.420	0.48	0.552	0.496
3	West Khasi Hills	0.402	0.482	0.521	0.472
4	South West Khasi Hills	0.501	0.537	0.467	0.500
5	East Jaintia Hills	0.316	0.366	0.359	0.349
6	West Jaintia Hills	0.278	0.293	0.165	0.249
7	North Garo Hills	0.429	0.432	0.378	0.408
8	East Garo Hills	0.409	0.473	0.462	0.448
9	West Garo Hills	0.420	0.416	0.381	0.407
10.	South West Garo Hills	0.464	0.435	0.4	0.432
11	South Garo Hills	0.446	0.464	0.455	0.456
	Meghalaya	0.429	0.431	0.411	0.422

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	8.970	8.989
2.	Ri Bhoi	9.050	9.050	9.030	9.048
3	West Khasi Hills	8.410	8.440	8.400	8.385
4	South West Khasi Hills	8.380	8.440	8.390	8.333
5	East Jaintia Hills	8.830	8.830	8.840	8.825
6	West Jaintia Hills	8.840	8.830	8.840	8.796
7	North Garo Hills	8.760	8.730	8.780	8.798
8	East Garo Hills	8.740	8.740	8.730	8.703
9	West Garo Hills	8.450	8.600	8.450	8.499
10.	South West Garo Hills	8.440	8.540	8.450	8.489
11	South Garo Hills	0.000	0.000	0.000	0
	Meghalaya	8.989	9.005	8.880	8.957

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	7.207	7.574	7.498	7.43
2.	Ri Bhoi	8.388	8.219	8.225	8.29
3	West Khasi Hills	4.95	6.398	6.453	6.07
4	South West Khasi Hills	2.941	5.288	5.244	4.722
5	East Jaintia Hills	6.763	6.718	6.478	6.655
6	West Jaintia Hills	5.358	4.746	5.994	5.433
7	North Garo Hills	3.594	5.465	4.39	4.626
8	East Garo Hills	5.45	5.864	4.579	5.342
9	West Garo Hills	4.927	6.884	6.66	6.382
10.	South West Garo Hills	4.755	6.405	6.17	5.919
11	South Garo Hills	0	0	0	0
	Meghalaya	7.585	7.658	7.519	7.587

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	1.830	1.850	1.844
2.	Ri Bhoi	1.850	1.840	1.860	1.853
3	West Khasi Hills	1.850	1.850	1.850	1.85
4	South West Khasi Hills	0.000	0.000	0.000	0.000
5	East Jaintia Hills	1.840	1.850	1.860	1.849
6	West Jaintia Hills	1.840	1.850	1.850	1.85
7	North Garo Hills	0.000	0.000	0.000	0
8	East Garo Hills	1.850	0.000	0.000	2.164
9	West Garo Hills	1.850	1.860	1.860	1.854
10.	South West Garo Hills	1.850	1.840	1.840	1.843
11	South Garo Hills	0.000	0.000	0.000	0
	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	1.602	1.171	1.172	1.297
2.	Ri Bhoi	1.400	1.041	0.695	1.007
3	West Khasi Hills	0.958	0.887	0.743	0.855
4	South West Khasi Hills	0.000	0.000	0.000	0.000
5	East Jaintia Hills	1.282	1.378	1.145	1.255
6	West Jaintia Hills	1.035	1.125	1.057	1.076
7	North Garo Hills	0.000	0.000	0.000	0.000
8	East Garo Hills	1.850	0.000	0.000	2.164
9	West Garo Hills	1.020	1.001	1.173	1.067
10.	South West Garo Hills	1.278	1.377	1.396	1.346
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	1.192	1.126	1.051	1.121

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	1.341	0.717	0.755	2.812
2.	Ri Bhoi	0.349	0.650	0.847	1.846
3	West Khasi Hills	1.069	1.517	1.642	4.228
4	South West Khasi Hills	0.360	0.631	0.624	1.616
5	East Jaintia Hills	0.631	0.856	1.135	2.622
6	West Jaintia Hills	0.320	0.476	0.205	1.002
7	North Garo Hills	0.920	0.908	1.190	3.018
8	East Garo Hills	0.718	0.844	0.842	2.403
9	West Garo Hills	3.839	2.839	2.613	9.291
10.	South West Garo Hills	1.428	1.346	1.309	4.083
11	South Garo Hills	0.660	0.736	0.625	2.022
	Meghalaya	11.636	11.518	11.788	34.943

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

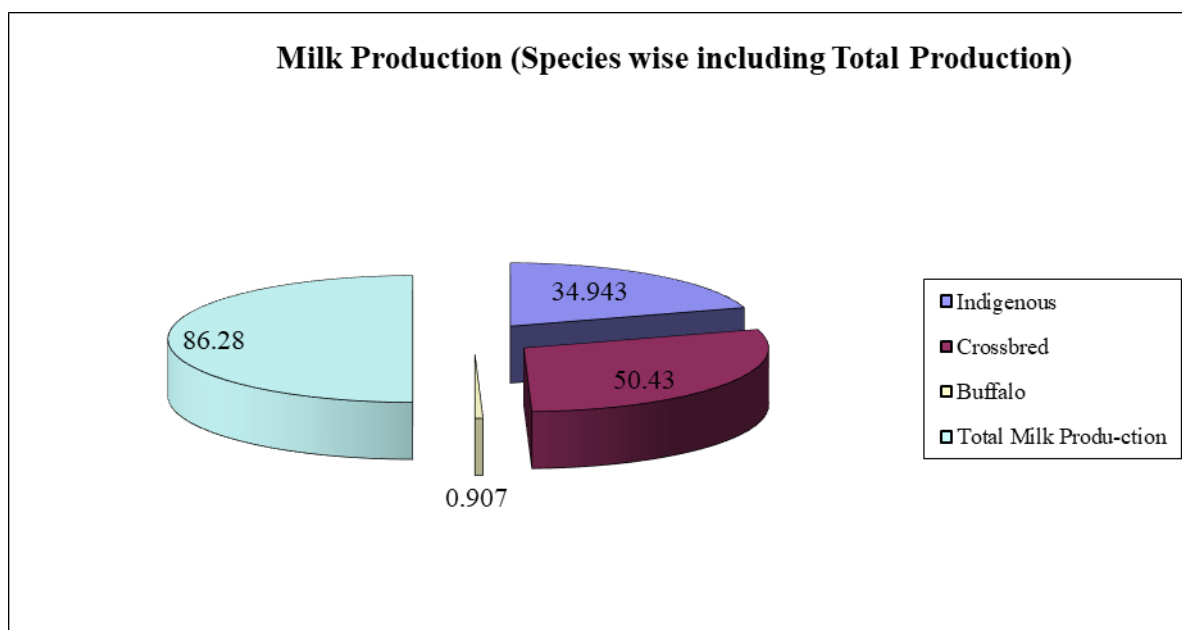
Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	7.085	8.023	8.310	23.418
2.	Ri Bhoi	8.669	7.128	6.429	22.226
3	West Khasi Hills	0.058	0.122	0.117	0.297
4	South West Khasi Hills	0.037	0.108	0.113	0.259
5	East Jaintia Hills	0.520	0.496	0.476	1.491
6	West Jaintia Hills	0.237	0.179	0.325	0.742
7	North Garo Hills	0.034	0.083	0.047	0.164
8	East Garo Hills	0.057	0.084	0.056	0.197
9	West Garo Hills	0.228	0.605	0.570	1.402
10.	South West Garo Hills	0.041	0.091	0.103	0.235
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	16.966	16.918	16.546	50.430

Table 4.9: Milk Production- Buffaloes (Tonnes).

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0.016	0.014	0.013	0.043
2.	Ri Bhoi	0.069	0.078	0.049	0.196
3	West Khasi Hills	0.030	0.025	0.025	0.080
4	South West Khasi Hills	0.000	0.000	0.000	0.000
5	East Jaintia Hills	0.010	0.012	0.011	0.033
6	West Jaintia Hills	0.008	0.010	0.008	0.026
7	North Garo Hills	0.000	0.000	0.000	0.000
8	East Garo Hills	0.002	0.000	0.000	0.002
9	West Garo Hills	0.080	0.061	0.087	0.229
10.	South West Garo Hills	0.102	0.098	0.098	0.298
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	0.317	0.299	0.291	0.907

Table 4.10: Total Milk Production in the State. ('000' Tonnes) 2018-19

Sl. No	Name of Districts	Cow's Milk			Buffalo	Total Milk Production	Previous Years Production 2017-2018	% Increase or Decrease over 2017-18
		Indigenou s	Crossbre d	Total				
1.	East Khasi Hills	2.812	23.418	26.230	0.043	26.273	25.201	4.25%
2.	Ri Bhoi	1.846	22.226	24.072	0.196	24.268	24.02	1.03%
3.	West Khasi Hills	4.228	0.297	4.525	0.080	4.605	4.714	-2.31%
4.	South West Khasi Hills	1.616	0.259	1.875	0.000	1.875	1.909	-1.78%
5.	East Jaintia Hills	2.622	1.491	4.113	0.033	4.146	4.18	-0.81%
6.	West Jaintia Hills	1.002	0.742	1.744	0.026	1.770	1.725	2.61%
7.	North Garo Hills	3.018	0.164	3.182	0.000	3.182	3.225	-1.33%
8.	East Garo Hills	2.403	0.197	2.600	0.002	2.602	2.543	2.32%
9.	West Garo Hills	9.291	1.402	10.693	0.229	10.922	11.262	-3.02%
10.	South West Garo Hills	4.083	0.235	4.318	0.298	4.616	4.492	2.76%
11.	South Garo Hills	2.022	0.000	2.022	0.000	2.022	2.004	0.9%
	Meghalaya	34.943	50.430	85.373	0.907	86.280	85.273	1.18%



**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

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

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%

Chapter – 5

District-wise & Season-wise Estimates

Egg Production

**Table 5.1 (a): District-wise and Season-Wise Estimated No. of Poultry (Fowls), 2018-19
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	1277	1022	965	270	357	630	667	472	1864	452	589	8564
Monsoon	1696	1148	914	211	292	635	721	507	1493	361	614	8594
Winter	1998	1148	826	221	506	760	848	598	1208	350	635	9098
Over All	1657	1106	902	234	385	675	746	526	1521	388	613	8752
<u>Improved</u>												
Summer	254	154	58	2	56	95	29	89	67	18	0	824
Monsoon	216	158	69	2	39	45	24	89	87	19	9	757
Winter	213	200	56	0	24	45	25	91	47	0	9	709
Over All	228	171	61	1	40	61	26	90	67	19	6	770
<u>Total</u>												
Summer	1531	1176	1023	272	413	725	696	561	1931	470	589	9388
Monsoon	1912	1306	983	213	331	680	745	596	1580	380	623	9351
Winter	2211	1348	882	221	530	805	873	689	1255	350	644	9807
Over All	1885	1277	963	235	425	736	772	616	1588	407	619	9522

**Table 5.1(b): District-wise and Season-wise Estimated No. of Poultry (Ducks) 2018-19.
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	3	1	7	2	3	117	32	11	211
Monsoon	8	4	0	1	0	2	0	0	24	9	2	49
Winter	4	2	0	0	0	0	0	0	19	0	0	25
Over All	12	6	0	1	0	3	1	1	53	13	3	93
<u>Improved</u>												
Summer	0	0	0	0	0	0	0	0	0	0	0	0
Monsoon	0	0	0	0	0	0	0	0	0	0	0	0
Winter	0	0	0	0	0	0	0	0	0	0	0	0
Over All	0	0	0	0	0	0	0	0	0	0	0	0
<u>Total</u>												
Summer	23	12	1	3	1	7	2	3	117	32	11	211
Monsoon	8	4	0	1	0	2	0	0	24	9	2	49
Winter	4	2	0	0	0	0	0	0	19	0	0	25
Over All	12	6	0	1	0	3	1	1	53	13	3	93

Table 5.2 (a): District-wise and Season-Wise Estimated Yield per Layer (Fowls) 2018-19.

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	36	35	34	35	35	35	35	35	35	34	35
Monsoon	36	36	34	34	34	34	34	34	36	34	36	35
Winter	35	35	34	34	34	35	34	34	35	34	35	35
Over All	106	107	103	102	103	104	103	103	106	103	105	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	69	69	68	68	71
Winter	72	73	68	0	68	68	66	69	70	0	69	71
Over All	219	221	206	207	208	209	204	208	210	136	206	212
<u>Total</u>												
Summer	41	41	37	34	40	40	36	41	36	36	34	38
Monsoon	40	41	36	34	38	36	35	39	38	36	36	38
Winter	39	41	36	34	36	37	35	39	36	34	35	37
Over All	120	122	110	103	113	113	106	118	110	106	106	114

Table 5.2(b): District-wise and Season-wise Estimated Yield per Layer (Ducks) 2018-19.

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	34	34	35	34	35	35	34	34	35
Monsoon	36	36	34	34	0	34	0	0	34	34	34	34
Winter	35	35	0	0	0	0	0	0	34	0	0	34
Over All	106	106	104	102	102	104	102	105	104	102	102	104
<u>Improved</u>												
Summer	0	0	0	0	0	0	0	0	0	0	0	0
Monsoon	0	0	0	0	0	0	0	0	0	0	0	0
Winter	0	0	0	0	0	0	0	0	0	0	0	0
Over All	0	0	0	0	0	0	0	0	0	0	0	0
<u>Total</u>												
Summer	35	35	35	34	34	35	34	35	35	34	34	35
Monsoon	36	36	34	34	0	34	0	0	34	34	34	34
Winter	35	35	0	0	0	0	0	0	34	0	0	34
Over All	106	106	105	102	102	104	102	105	104	102	102	104

Table 5.3(a): District-wise and Season-Wise Estimated Egg Production (Fowls) 2018-19.
(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	44.69	36.80	33.77	9.17	12.49	22.06	23.35	16.53	65.23	15.83	20.02	299.94
Monsoon	61.05	41.33	31.09	7.19	9.94	21.59	24.53	17.24	53.74	12.28	22.10	302.08
Winter	69.93	40.19	28.09	7.53	17.22	26.58	28.85	20.33	42.27	11.88	22.22	315.09
Over All	175.67	118.32	92.95	23.89	39.65	70.23	76.73	54.1	161.24	39.99	64.34	917.11
<u>Improved</u>												
Summer	18.80	11.43	4.05	0.14	3.95	6.74	2.05	6.25	4.79	1.25	0.00	59.45
Monsoon	15.78	11.69	4.72	0.11	2.72	3.07	1.63	6.16	5.97	1.32	0.60	53.77
Winter	15.33	14.58	3.79	0.00	1.62	3.05	1.65	6.27	3.32	0.00	0.59	50.20
Over All	49.91	37.7	12.56	0.25	8.29	12.86	5.33	18.68	14.08	2.57	1.19	163.42
<u>Total</u>												
Summer	63.49	48.23	37.82	9.31	16.44	28.8	25.4	22.78	70.02	17.08	20.02	359.39
Monsoon	76.83	53.02	35.81	7.3	12.66	24.66	26.16	23.4	59.71	13.6	22.7	355.85
Winter	85.26	54.77	31.88	7.53	18.84	29.63	30.5	26.6	45.59	11.88	22.81	365.29
Over All	225.58	156.02	105.51	24.14	47.94	83.09	82.06	72.78	175.32	42.56	65.53	1080.53

Table 5.3(b): District-wise and Season-wise Estimated Egg production (Ducks) 2018-19.
(In Lakhs)

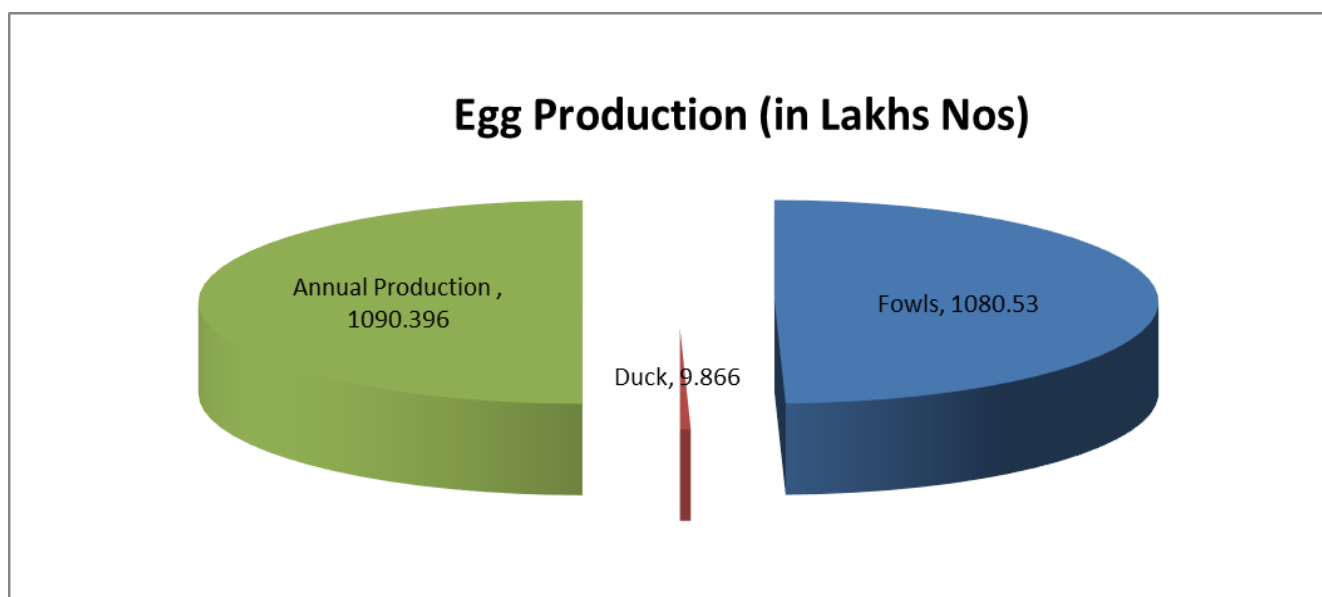
Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State
<u>Desi</u>												
Summer	0.82	0.411	0.034	0.097	0.037	0.23	0.06	0.102	4.086	1.077	0.371	7.325
Monsoon	0.286	0.131	0.007	0.02	0	0.057	0	0	0.826	0.297	0.071	1.695
Winter	0.135	0.076	0	0	0	0	0	0	0.635	0	0	0.846
Over All	1.241	0.618	0.041	0.117	0.037	0.287	0.06	0.102	5.547	1.374	0.442	9.866
<u>Improved</u>												
Summer	0	0	0	0	0	0	0	0	0	0	0	0
Monsoon	0	0	0	0	0	0	0	0	0	0	0	0
Winter	0	0	0	0	0	0	0	0	0	0	0	0
Over All	0	0	0	0	0	0	0	0	0	0	0	0
<u>Total</u>												
Summer	0.82	0.411	0.034	0.097	0.037	0.23	0.06	0.102	4.086	1.077	0.371	7.325
Monsoon	0.286	0.131	0.007	0.02	0	0.057	0	0	0.826	0.297	0.071	1.695
Winter	0.135	0.076	0	0	0	0	0	0	0.635	0	0	0.846
Over All	1.241	0.618	0.041	0.117	0.037	0.287	0.06	0.102	5.547	1.374	0.442	9.866

Table 5.4 (a): Estimated Total Egg production. (Lakhs Numbers) 2018-19.

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	63.49	0.82	76.83	0.286	85.26	0.135
2.	Ri Bhoi	48.23	0.411	53.02	0.131	54.77	0.076
3	West Khasi Hills	37.82	0.034	35.81	0.007	31.88	0
4	South West Khasi Hills	9.31	0.097	7.3	0.02	7.53	0
5	East Jaintia Hills	16.44	0.037	12.66	0	18.84	0
6	West Jaintia Hills	28.8	0.23	24.66	0.057	29.63	0
7	North Garo Hills	25.4	0.06	26.16	0	30.5	0
8	East Garo Hills	22.78	0.102	23.4	0	26.6	0
9	West Garo Hills	70.02	4.086	59.71	0.826	45.59	0.635
10.	South West Garo Hills	17.08	1.077	13.6	0.297	11.88	0
11	South Garo Hills	20.02	0.371	22.7	0.071	22.81	0
	Meghalaya	359.39	7.325	355.85	1.695	365.29	0.846

Table 5.4 (b): Estimated Total Egg production. (Lakhs Numbers) 2018-19.

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2018-19	Annual Production Previous Year 2017-18	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	225.58	1.241	226.821	224.44	1.06%
2.	Ri Bhoi	156.02	0.618	156.638	158.63	-1.26%
3	West Khasi Hills	105.51	0.041	105.551	107.31	-1.64%
4	South West Khasi Hills	24.14	0.117	24.257	21.88	10.86%
5	East Jaintia Hills	47.94	0.037	47.977	39.44	21.65%
6	West Jaintia Hills	83.09	0.287	83.377	82.00	1.68%
7	North Garo Hills	82.06	0.06	82.12	79.9	2.78%
8	East Garo Hills	72.78	0.102	72.882	69.41	5%
9	West Garo Hills	175.32	5.547	180.867	184.56	-2%
10.	South West Garo Hills	42.56	1.374	43.934	39.94	10%
11	South Garo Hills	65.53	0.442	65.972	66.2	-0.34%
	Meghalaya	1080.53	9.866	1090.396	1073.71	1.55%



**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

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%

Chapter – 6

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

2018-19

Table 6.1: Utilisation of Milk.

Season	Sold as fluid Milk	Converted into Milk products	Consumed as Fluid Milk in the Household	Total
Summer	89.70	2.58	7.73	100
Monsoon	91.81	2.17	6.02	100
Winter	98.33	0.42	1.25	100
Overall	96.34	0.94	2.72	100

Table 6.2: Percentage Utilization of Produced Eggs.

Season	Utilisation for Home consumption	Set for Hatching	Egg Sold	Damaged or Spoiled	Total
Summer	15.66	19.22	62.11	3.01	100
Monsoon	20.68	16.67	62.05	0.60	100
Winter	17.73	34.52	45.86	1.89	100
Overall	18.09	24.14	55.97	1.80	100

Table 6.5: Season wise Utilisation of Dung collected From Bovine at Sample Household 2018-19.

Sl No.	Particulars	Unit	Summer	Monsoon	Winter	Over all
1.	Total No. of Sample animals observed for Dung Utilisation.	Nos.	4318	4425	4166	12909
2.	Average quantity of Dung collected per animal per day.	Kg	3.27	3.36	3.30	3.31
3.	Dung Utilized for manure.	Percentage	96.19	96.12	96.44	96.45
4.	Dung Utilized for Dung cake.	Percentage	2.30	2.02	2.20	2.17
5.	Dung Utilized for other purpose.	Percentage	1.51	1.26	1.36	1.37

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. 2018-19

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	83.87	4.65	11.48	100.00	85.78	8.40	5.82	100.00	88.98	2.58	8.44	100.00
	(b) Adult Male	84.65	5.12	10.23	100.00	78.34	4.78	16.88	100.00	86.01	4.02	9.97	100.00
	(c) Young Stock upto 3 Years old.	58.98	18.14	22.88	100.00	84.60	13.49	1.91	100.00	77.04	18.63	4.33	100.00
	Overall: -	78.43	7.91	13.66	100.00	84.36	9.41	6.23	100.00	85.69	6.41	7.90	100.00
1.2	CROSS BRED												
	(a) In Milk	8.51	81.35	10.14	100.00	16.24	77.93	5.83	100.00	15.74	73.31	10.95	100.00
	(b) Adult Male	68.21	16.18	15.61	100.00	44.19	45.93	9.88	100.00	18.38	67.65	13.97	100.00
	(c) Young Stock upto 3 Years old.	59.34	18.45	22.21	100.00	25.83	61.85	12.32	100.00	22.22	67.49	10.29	100.00
	Overall: -	41.94	40.65	17.41	100.00	20.16	72.49	7.35	100.00	17.87	71.13	11.00	100.00
2	BUFFALOES												
	(a) In Milk	94.10		5.90	100.00	91.86		8.14	100.00	91.12		8.88	100.00
	© Adult Male	89.86		10.14	100.00	93.31		6.69	100.00	90.48		9.52	100.00
	(d) Young Stock upto 3 Years old.	94.77		5.23	100.00	90.20		9.80	100.00	84.04		15.96	100.00
	Overall: -	93.63		6.37	100.00	92.88		7.72	100.60	89.27		10.73	100.00

Distributions of Animals as per the feeding practices observed in the selected households
Name of State: Meghalaya, Year- 2018-19

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	Total
		Summer	Rainy	Winter	Annual	Summer	Rainy	Winter	Annual	Summer	Rainy	Winter	Annual				
1	Cattle Indigenous/ NonDiscript)																
	a) Adult Female	4.67	5.85	4.85	5.19	0.25	2.80	2.92	2.65	1.52	0.00	0.00	0.59	1008	1215	860	3083
	b) Adult Male	4.05	4.35	4.35	4.25	2.06	2.21	2.48	2.25	0.00	0.00	0.00	0.00	572	644	562	1778
	c) Young Stock upto 3 years	3.30	3.25	3.15	3.23	0.00	0.80	0.99	0.61	0.00	0.00	0.00	0.00	611	664	625	1900
	d) Overall (%)	30.45	40.64	28.91	100.00	25.86	40.19	33.95	100.00	100.00	0.00	0.00	100.00	2191	2523	2047	6761
2	Cattle (Exotic/ Cross-bred)																
	a) Adult Female	19.02	19.10	10.15	11.22	5.85	6.55	17.82	11.35	4.81	3.45	5.15	13.41	664	1935	2001	4600
	b) Adult Male	16.02	15.45	8.92	12.45	4.75	5.86	16.78	10.86	3.20	1.85	3.25	8.30	78	344	371	793
	c) Young Stock upto 2 & 1/2 years	13.38	13.35	8.05	18.27	3.00	2.62	15.62	8.08	1.20	1.05	1.25	3.50	273	572	599	1444
	d) Overall (%)	31.64	56.80	11.56	100.00	7.00	22.33	70.67	100.00	36.00	25.71	38.29	100.00	1015	2851	2971	6837
3	Buffalo																
	a) Adult Female	4.15	4.42	4.30	4.30	1.95	1.55	1.75	1.74	0.00	0.00	0.00	0.00	125	158	180	463
	b) Adult Male	3.50	3.85	3.25	3.51	1.80	0.00	1.62	1.13	0.00	0.00	0.00	0.00	33	50	69	152
	c) Young Stock upto 3 years	1.40	2.05	1.82	1.78	1.25	0.00	1.44	0.67	0.00	0.00	0.00	0.00	47	53	86	186
	d) Overall (%)	37.32	0.00	62.68	100.00	39.74	0.00	60.26	100.00	0.00	0.00	0.00	0.00	205	261	335	801

Meat Production – 2018-19

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.	45524	8006	9353	1974	2631	5858	1180	1646	6186	1585	2514	86457	1868	84589
(b)	Buffaloes.	243	90	0	0	569	108	0	38	657	34	0	1739	1739	
©	Pig	50542	10151	8090	2656	4142	12503	1066	1700	9869	1131	7564	109414	101355	8059
(d)	Sheep & Goat	20835	2530	416	510	5134	1583	190	1771	4506	1133	2167	40775	39267	1508
(e)	Poultry.	696642	49741	59529	11653	30611	99776	5742	16523	95594	9366	18735	1093912	1064707	29205
	<u>MONSOON</u>														
(a)	Cattle.	40800	8508	9768	2490	2146	8531	1046	1641	7232	1664	3887	87713	52053	35660
(b)	Buffaloes.	368	197	0	0	550	200	0	22	589	72	0	1998	1998	
©	Pig.	55071	9132	7572	3016	4198	12474	1148	1806	7217	1270	5766	108670	100235	8435
(d)	Sheep & Goat	18135	2853	475	6644	4505	1688	260	1749	4586	1086	2121	44102	42348	1754
(e)	Poultry.	702834	58080	68616	81664	41310	110533	7233	18924	98253	9274	22052	1218773	1195032	23741
	<u>WINTER</u>														
(a)	Cattle.	44232	8257	8987	2378	2312	8351	1204	1685	8422	1607	3340	90775	54767	36008
(b)	Buffaloes.	360	171	0	0	588	103	0	44	484	34	0	1784	1784	
©	Pig.	62615	9133	8390	2570	4053	11933	1338	1868	7774	1540	6903	118117	108636	9481
(d)	Sheep & Goat	16442	3148	412	8650	4220	1668	238	1677	4279	1057	2244	44035	41945	2090
(e)	Poultry.	596161	64314	68364	18269	29108	105268	5973	16714	96548	8932	21851	1031502	994380	37122

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	130.56	24.77	28.11	6.84	7.09	22.74	3.43	4.97	21.84	4.86	9.74	264.95	108.69	156.26
2.	Buffaloes	0.97	0.46	0	0	1.71	0.41	0	0.1	1.73	0.14	0	5.52	5.52	0
3.	Pig	168.23	28.42	24.05	8.24	12.39	36.91	3.55	5.37	24.86	3.94	20.23	336.19	310.21	25.98
4.	Sheep & Goat	55.41	8.53	1.30	15.80	13.86	4.94	0.69	5.20	13.37	3.28	6.53	128.91	123.56	5.35
5.	Poultry	1995.64	172.14	196.51	111.59	101.03	315.58	18.95	52.16	290.4	27.57	62.64	3344.21	3254.14	90.07

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.	90.00	89.62	89.61	89.46	89.49	89.60	89.05	89.36	89.36	89.53	88.73	89.75
(b)	Buffaloes.	118.00	0.00	0.00	0.00	119.00	118.00	0.00	118.00	119.00	120.00	0.00	119.00
(c)	Pig.	45.57	46.25	46.06	46.45	46.83	46.15	43.56	43.21	43.48	42.73	43.21	45.37
(d)	Sheep & Goat.	10.20	10.04	9.99	9.63	10.05	9.62	9.65	9.70	9.71	9.65	9.75	10.02
(e)	Poultry.	1.39	1.37	1.38	1.38	1.37	1.36	1.34	1.33	1.33	1.35	1.32	1.38
	<u>MONSOON</u>												
(a)	Cattle.	89.88	89.75	89.66	89.73	89.45	89.55	88.68	88.63	88.71	88.55	88.62	89.58
(b)	Buffaloes.	118.00	118.00	0.00	0.00	119.00	118.00	0.00	120.00	119.00	119.00	0.00	119.00
(c)	Pig.	43.70	43.90	43.82	43.69	43.66	43.91	40.29	40.18	40.19	40.60	41.22	43.25
(d)	Sheep & Goat.	9.61	9.84	9.79	9.79	9.86	9.72	9.71	9.62	9.58	9.65	9.66	9.69
(e)	Poultry.	1.40	1.40	1.40	1.38	1.38	1.39	1.39	1.37	1.38	1.39	1.38	1.39
	<u>WINTER</u>												
(a)	Cattle.	90.02	89.87	89.86	89.78	89.70	89.79	89.06	89.34	89.05	88.88	89.00	89.78
(b)	Buffaloes.	118.00	0.00	0.00	0.00	118.00	119.00	0.00	119.00	119.00	117.00	0.00	118.00
(c)	Pig.	45.27	45.20	45.26	44.50	45.28	45.71	40.82	41.09	40.57	41.05	40.72	44.54
(d)	Sheep & Goat.	9.47	9.69	9.55	9.73	9.26	9.66	9.61	9.43	9.52	9.34	9.41	9.52
(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	90.00	118.00	43.39	10.32	1.34
2.	Ri – Bhoi	89.76	0.00	43.34	10.32	1.33
3.	West Khasi Hills	89.66	0.00	43.35	10.32	1.30
4	South West Khasi Hills	89.61	0.00	43.34	10.21	1.29
5	East Jaintia Hills	89.65	117.63	43.34	10.27	1.30
6	West Jaintia Hills	89.71	118.41	43.24	10.31	1.30
7	North Garo Hills	89.59	0.00	43.25	10.31	1.29
8	East Garo Hills	89.73	117.88	43.36	10.26	1.28
9	West Garo Hills	89.94	117.97	43.31	10.37	1.32
10	South West Garo Hills	89.74	0.00	43.28	10.29	1.29
11	South Garo Hills	89.75	0.00	43.39	10.36	1.29
1.	East Khasi Hills	89.86	117.89	43.35	10.32	1.32

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.	4097	717	838	177	235	525	105	147	553	142	223	7759	167	7592
2.	Buffaloes	29	0	0	0	68	13	0	4	78	4	0	196	196	0
3.	Pigs	2303	469	373	123	194	577	46	73	429	48	327	4962	4596	366
4.	Sheep &Goat.	213	25	4	5	52	15	2	17	44	11	21	409	394	15
5.	Poultry.	968	68	82	16	42	136	8	22	127	13	25	1507	1467	40
	TOTAL	7610	1279	1297	321	591	1266	161	263	1231	218	596	14833	6820	8013
	MONSOON														
1.	Cattle.	3667	764	876	223	192	764	93	145	642	147	344	7857	4663	3194
2.	Buffaloes	43	23	0	0	65	24	0	3	70	9	0	237	237	0
3.	Pigs	2407	401	332	132	183	548	46	73	290	52	238	4702	4337	365
4.	Sheep &Goat.	174	28	5	65	44	16	3	17	44	10	20	426	409	17
5.	Poultry.	984	81	96	113	57	154	10	26	136	13	30	1700	1667	33
	TOTAL	7275	1297	1309	533	541	1506	152	264	1182	231	632	14922	11313	3609
	WINTER														
1.	Cattle.	3982	742	808	213	207	750	107	151	750	143	297	8150	4917	3233
2.	Buffaloes	42	0	0	0	69	12	0	5	58	4	0	190	190	0
3.	Pigs	2835	413	380	114	184	545	55	77	315	63	281	5262	4840	422
4.	Sheep &Goat.	156	31	4	84	39	16	2	16	41	10	21	420	400	20
5.	Poultry.	775	87	86	24	39	140	8	22	127	12	29	1349	1300	49
	TOTAL	7790	1273	1278	435	538	1463	172	271	1291	232	628	15371	11647	3724
	OVERALL	22675	3849	3884	1289	1670	4235	485	798	3704	681	1856	45126	29780	15346

7.6: District-wise & Category-wise Meat Production

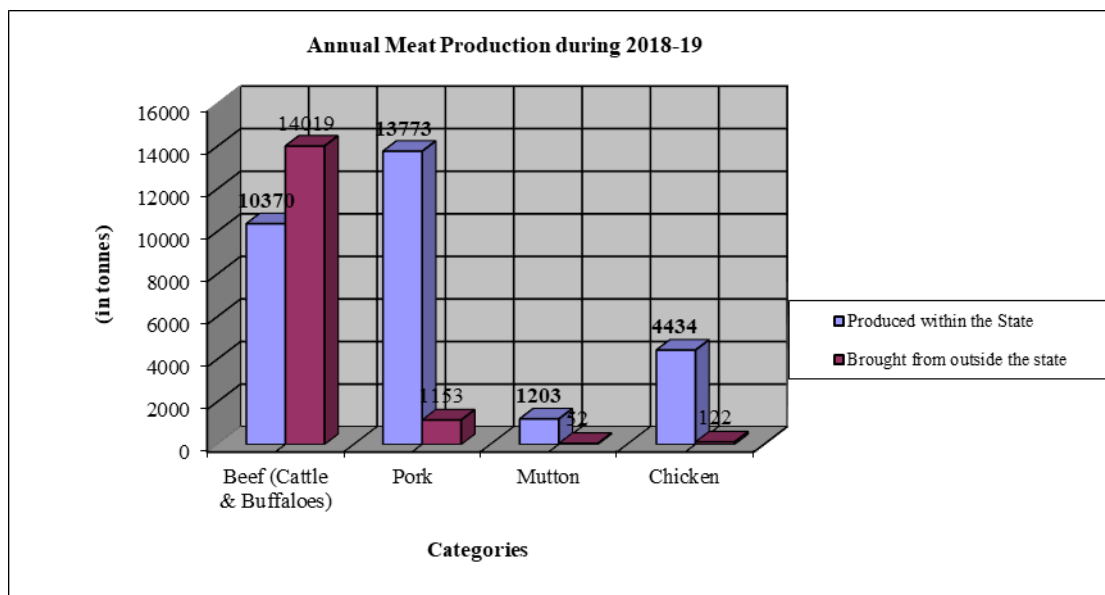
Sl No	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	Total	Source	
														Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.	Cattle	11746	2223	2522	613	634	2039	305	443	1945	432	864	23766	9747	14019
2	Buffaloes	114	23	0	0	202	49	0	12	206	17	0	623	623	0
3.	Pig	7545	1283	1085	369	561	1670	147	223	1034	163	846	14926	13773	1153
4.	Sheep & Goat	543	84	13	154	135	47	7	50	129	31	62	1255	1203	52
5.	Poultry	2727	236	264	153	138	430	26	70	390	38	84	4556	4434	122
	TOTAL	22675	3849	3884	1289	1670	4235	485	798	3704	681	1856	45126	29780	15346

Table 7.7: District wise and Category wise Meat Production and Percentage Contribution to Total Meat Production

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	11746	114	11860	7545	543	2727	22675	50.25 %
2.	Ri – Bhoi	2223	23	2246	1283	84	236	3849	8.53 %
3.	West Khasi Hills	2522	0	2522	1085	13	264	3884	8.61 %
4	South West Khasi Hills	613	0	613	369	154	153	1289	2.86 %
5	East Jaintia Hills	634	202	836	561	135	138	1670	3.7 %
6	West Jaintia Hills	2039	49	2088	1670	47	430	4235	9.38 %
7	North Garo Hills	305	0	305	147	7	26	485	1.07 %
8	East Garo Hills	443	12	455	223	50	70	798	1.77 %
9	West Garo Hills	1945	206	2151	1034	129	390	3704	8.21 %
10	South West Garo Hills	432	17	449	163	31	38	681	1.51 %
11	South Garo Hills	864	0	864	846	62	84	1856	4.11 %
	State (Overall)	23766	623	24389	14926	1255	4556	45126	100 %
	Percentage Contribution of each species to total production	52.67%	1.38%	54.05%	33.08%	2.78%	10.1%	100%	

Table 7.8: Growth Rate, Percentage Contribution of each Category to Total Meat production with Per Capita Availability.

Sl No.	Items	Annual Meat Production (in tones)						Percentage Increase (+) or Decrease (-) over 2017-18
		2018-19			2017-18			
		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)	10370	14019	24389	11053	12688	23741	(+) 2.73%
2	Pork	13773	1153	14926	13390	1024	14414	(+) 3.55%
3	Mutton	1203	52	1255	1282	66	1348	(-) 6.9%
4	Chicken	4434	122	4556	3473	142	3615	(+) 26.03%
5	Total	29780	15346	45126	29198	13920	43118	(+) 4.66%



7.9: Per Capita Availability of Meat Grams / Day 2018-19

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

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

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

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





Published and Computerized by the Directorate of Animal Husbandry & Veterinary Department, Meghalaya; Shillong.
E-mail-ID: meghvety@gmail.com