



Government of Meghalaya

**REPORT ON INTEGRATED
SAMPLE SURVEY
FOR**

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

YEAR : 2014-15.



**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 2014– 2015 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 **0.97 %** on Milk, **0.73 %** on Egg and **2.45 %** on Meat over 2013-2014.

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. J.S.Jyrwa
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 (1996-97 to 2000-2001)	- 3
Table 1.4 Classification of Households possessing Bovine according to the Size of the Unit during the Year 2013-14	- 3
Table 1.5 Area Sq. Km. With Density of Livestock Population per Sq. Km.s	- 4
Table 1.6 Density of Livestock Population per 100 Villages	- 4

CHAPTER – II

LIVESTOCK CENSUS DATA 2007 & 2012

Table 2.1 Livestock Population 2007(a) Cattle & Buffaloes	- 5
Table 2.1 Livestock Population 2007(b) Horses & Ponies.....	- 5
Table 2.1 Pig Population, Livestock Population 2007 © & Rabbit.....	- 6
Table 2.2 Poultry Population 2007.....	- 6
Chart showing 2007 census.....	- 7
Table 2.3 Livestock Population 2012(a) Cattle & Buffaloes.....	- 7
Table 2.3 Livestock Population 2012(b) Horses & Ponies.....	- 8
Table 2.3 Pig Population, Livestock Population 2012 © & Rabbit.....	- 9
Chart showing Livestock Population 2012.....	- 9
Table 2.4 Poultry Population 2012	- 10
Chart showing Census 2012 District Wise.....	- 10
Table 2.5 Livestock Population 2012 & Growth rate as compared to 2007 Census.	- 11
Chart showing Census Comparison between 2007 & 2012.....	- 11
Chart showing growth rate of 2012 to 2007 census (in %).	- 12
Chart showing growth rate of 2012 to 2007 census (in nos.).....	- 12

CHAPTER – III

ANALYSIS OF THE INTEGRATED SAMPLE SURVEY

3.1 Integrated Sample Survey – Genesis & Usefulness.....	- 13
3.2 Coverage of the Survey.....	- 13
3.3 Period of the Survey.....	- 13
3.4 Methodology / Sampling Plant.....	- 14
3.5 Machinery in the Survey along with Staff Position	- 14
3.6 Schedule Prescribed in the Survey	- 15
3.7 Types of Data collected	- 15
3.8 Schedule L.P.S – 1.2; Detailed of Milk Production	- 15
3.9 Schedule L.P.S. – 2.1; Detailed of Eggs Production	- 15
3.10 Schedule Form III Detail of Meat Production	- 15
3.11 Summary Results	- 16-17
3.12 Annual Report on Sample Survey to estimate production on Milk products	- 18-19
3.13 District wise Number of Villages Selected for Complete Enumeration	- 19

CHAPTER –IV

DISTRICT WISE AND SEASONWISE ESTIMATES MILK PRODUCTION

	Page
Table 4.1 (a) Estimated Number of Productive Cows (Indigenous)	- 20
Table 4.1 (b) & © Estimated Number of Productive Cows (Indigenous)	- 21
Table 4.2 (a) & (b) Estimated Number of Productive Cows (Crossbred) In milk & dry	- 22
Table 4.2 (c) Estimated Number of Productive Cows (Crossbred) Milch.....	- 23
Table 4.3 (a) & (b) Estimated Number of Productive (Buffaloes) In milk & Dry.....	- 24
Table 4.3 c Estimated Number of Productive (Buffaloes) Milch.....	- 25
Table 4.4 a Estimated Milk Yield per day Per Animal (Indigenous) ...in milk.....	25
Table 4.4 b Estimated Milk Yield per day Per Animal (Indigenous) ...Milch.....	26
Table 4.5 a Estimated Milk Yield per day Per Animal (Crossbred).....In milk.....	26
Table 4.5 b Estimated Milk Yield per day Per Animal (Crossbred).....Milch.....	27
Table 4.6 a Estimated Milk Yield per day Per Animal (Buffaloes) ..in milk.....	27
Table 4.6 b Estimated Milk Yield per day Per Animal (Buffaloes) ..milch.....	28
Table 4.7 Milk Production (Indigenous) ...season wise.....	28
Table 4.8 Milk Production (Crossbred) ...season wise.....	29
Table 4.9 Milk Production (Buffaloes) ...season wise.....	- 29
Table 4.10 Total Milk Production in the State	- 30
Chart showing Milk Production species-wise	- 30
Table 4.11 Average Milk Yield Per Animal / Day in Milk & Milch Animals from 1983-84	- 31
Table 4.12 Estimated number in Milk & Milch Animal from 1983-84	- 32
Table 4.13 Estimated Milk Production from 1983-84.....	- 33

CHAPTER –V

DISTRICT WISE AND SEASONWISE ESTIMATES EGG PRODUCTION

Table 5.1(a) District wise and Season wise Estimated No. of Poultry (Fowls)...	- 34
Table 5.1(b) District wise and Season wise Estimated No. of Poultry (Ducks)...	- 35
Table 5.2 (a) District wise and Season wise Estimated Yield per Layer (Fowls).....	- 36
Table 5.2 (b) District wise and Season wise Estimated Yield per Layer (Ducks).....	- 37
Table 5.3 (a) District wise and Season wise Estimated Egg Production (Fowls)...	- 38
Table 5.3 (b) District wise and Season wise Estimated Egg Production (Ducks).....	- 39
Table 5.4 (a) Estimated Total Egg Production	- 40
Table 5.4 (b) Estimated Total Egg Production	- 41
Chart showing Egg Production (in lakhs nos.).....	- 41
Table 5.5 Estimated Number of Layers from 1983-84	- 42
Table 5.6 Estimated Yield Per Annum Per Layer and Total Egg Production from 1983-84	- 43

CHAPTER – VI

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

Table 6.1 Utilisation of Milk.....	- 44
Table 6.2 Utilisation of Produced Eggs	- 44
Table 6.3 Season wise Percentage of Animals which were Grazed, Stallfed or Both	- 45
Table 6.4 Distribution of Animals as per feeding practices observed in the selected households	- 46
Table 6.5 Season wise Utilisation of Dung collected from Bovine at Sample Household	- 47
Table 6.6 Per Capita availability of Milk and Eggs	- 47

CHAPTER – VII

MEAT PRODUCTION

	Page
Table 7.1 District Wise & Season Wise Number of Animals & Poultry Slaughtered...	- 48
Table 7.2 District Wise Numbers of Animals Slaughtered (Overall).....	- 49
Table 7.3 District Wise & Season Wise Average Yield per Animal.....	- 50
Table 7.4 District Wise Average Yield per Animal (Overall)	- 51
Table 7.5 District wise and Season wise Meat production	- 52
Table 7.6 District wise Season wise Total Meat Production	- 53
Table 7.7 District wise and Category wise Total Meat Production	- 54
Table 7.8 Growth Rate, Percentage contribution of each Category to Total Meat production with Per Capita Availability.....	- 54
Chart showing Annual Meat Production.....	- 55
Table 7.9 Per Capita Availability of Meat per Day / grams 2013-14	- 55
Table 7.10 Estimated Number of Animals Slaughtered from 1983-84	- 56
Table 7.11 Average Meat Yield per Animal from 1983-84	- 57
Table 7.12 Total Meat production from 1983-84	- 58
Annexure – I Comparative Analysis showing production estimate with effect from the year 1983-84 to 2013-14.....	- 59

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 seven Districts namely: (i) East Khasi Hills (ii) Ri-Bhoi (iii) West Khasi Hills (iv) Jaintia Hills (v) East Garo Hills (vi) West Garo Hills, and (vii) 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 through out 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 103 persons compared to 1991 Census with a density of 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	333553	327370	660923	277748	383175	5642	661158
2.	Ri – Bhoi	99319	93471	192790	13180	179610	590	230081
3.	West Khasi Hills	150419	145630	296049	34598	261451	168	375097
4.	Jaintia Hills	149891	149217	299108	25057	274051	1317	376099
5.	East Garo Hills	127474	123108	250582	35907	214675	509	305180
6.	West Garo Hills	263424	254966	518390	58978	459412	8810	474009
7.	South Garo Hills	52007	48973	100980	8643	92337	319	134237
	State (Overall)	1176087	1142735	2318822	454111	1864711	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 2014-15.

Sl. No.	Name of District	Percentage of Bovines Keepers (Household)						
		0-1	2-5	6-10	11-15	16-20	21-25	26 and above
1	2	3	4	5	6	7	8	9
1.	East Khasi Hills	6.09	24.4	19.51	21.95	14.63	4.88	8.54
2.	Ri Bhoi	2.13	21.29	42.53	10.64	8.51	6.38	8.52
3	West Khasi Hills	-	40.92	13.63	18.19	13.63	4.54	9.09
4	South West Khasi Hills	3.23	12.9	29.03	19.36	12.9	12.9	9.68
5	East Jaintia Hills	9.09	9.09	9.09	36.37	18.18	9.09	9.09
6	West Jaintia Hills	3.08	20	47.69	10.77	7.69	3.08	7.69
7	North Garo Hills	4.17	-	33.33	29.17	8.33	8.33	16.67
8	East Garo Hills	-	5.26	31.58	36.85	5.26	5.26	15.79
9	West Garo Hills	0.86	1.74	2.61	7.83	21.74	13.04	52.18
10.	South West Garo Hills	4.34	4.34	4.35	34.78	13.05	8.7	30.44
11	South Garo Hills	-	15.15	15.15	19.7	12.12	7.58	30.3
	Meghalaya	2.57	14.06	21.39	17.43	13.66	7.92	22.97

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	2748	17	3	-	38	2	19	163
2.	Ri – Bhoi	2448	20	4	1	15	-	5	144
3.	West Khasi Hills	5247	20	-	1	12	1	10	71
4.	Jaintia Hills	3819	35	-	1	14	-	6	87
5.	East Garo Hills	2603	60	-	-	22	-	15	168
6.	West Garo Hills	3677	59	1	2	22	2	33	193
7.	South Garo Hills	1887	21	-	-	10	-	12	90
	State (Overall)	22,429	33	1	1	19	1	15	126

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	5084	911	25	11767	642	5900	49241	434	5172	44503	49675
2.	Ri – Bhoi	8495	1587	632	6612	29	2352	61366	553	6440	55479	61919
3.	West Khasi Hills	11422	78	315	6853	561	5994	40532	159	1066	39626	40693
4.	Jaintia Hills	28366	290	440	11649	157	53	70530	2812	5354	66457	71811
5.	East Garo Hills	18236	9	114	6756	5	4508	51081	127	1249	49958	51228
6.	West Garo Hills	14689	203	555	5479	420	8124	45219	2581	754	47046	47801
7.	South Garo Hills	5702	19	7	3307	22	3792	27547	921	32	28436	28468
	State (Overall)	12871	399	311	7248	315	5663	47781	1025	2351	46386	48810

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) Horses & Ponies.

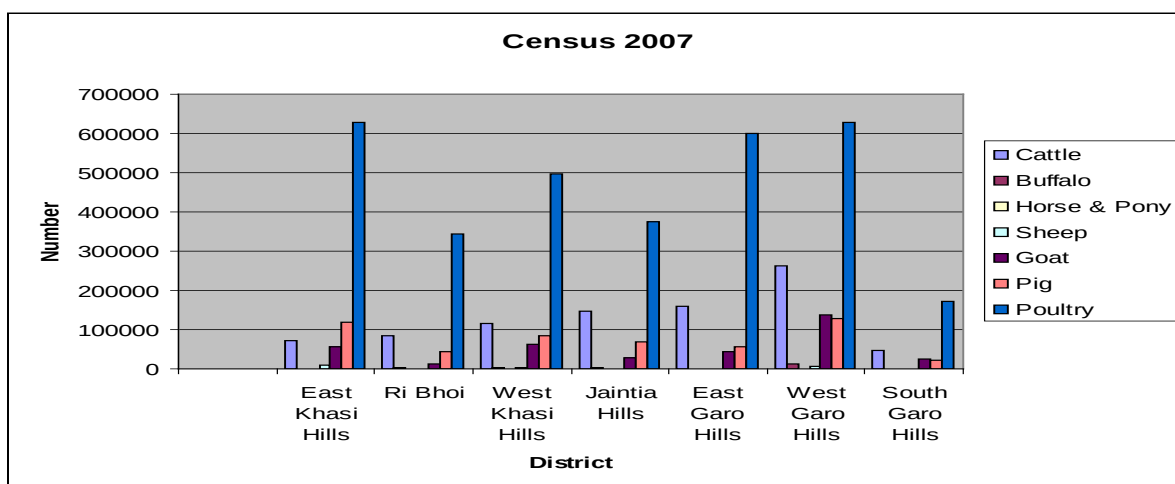
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	3	8954	8957	56632	48
2.	Ri – Bhoi	-	116	116	13835	24
3.	West Khasi Hills	189	3327	3516	61786	1732
4.	Jaintia Hills	30	12	42	27005	33
5.	East Garo Hills	-	1260	1260	43652	0
6.	West 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	196	66400	66596	8	66604
8	East Garo Hills	241	76379	76620	18	76638
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) 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	16	16	30172	15
8	East Garo Hills	0	8	8	5787	0
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 and Rabbit.

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

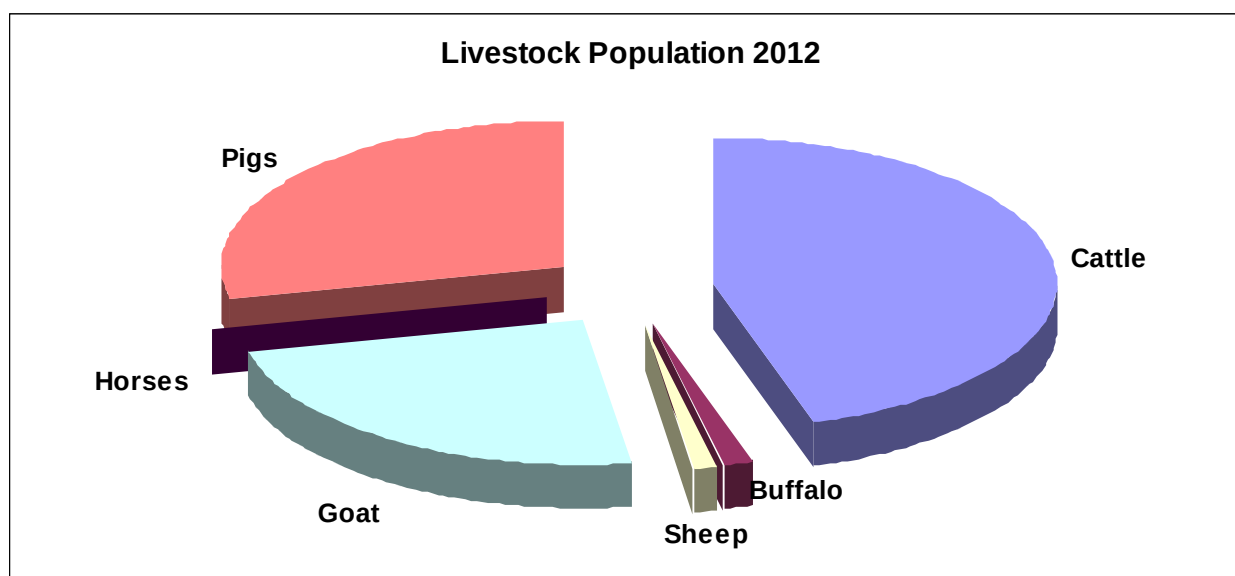
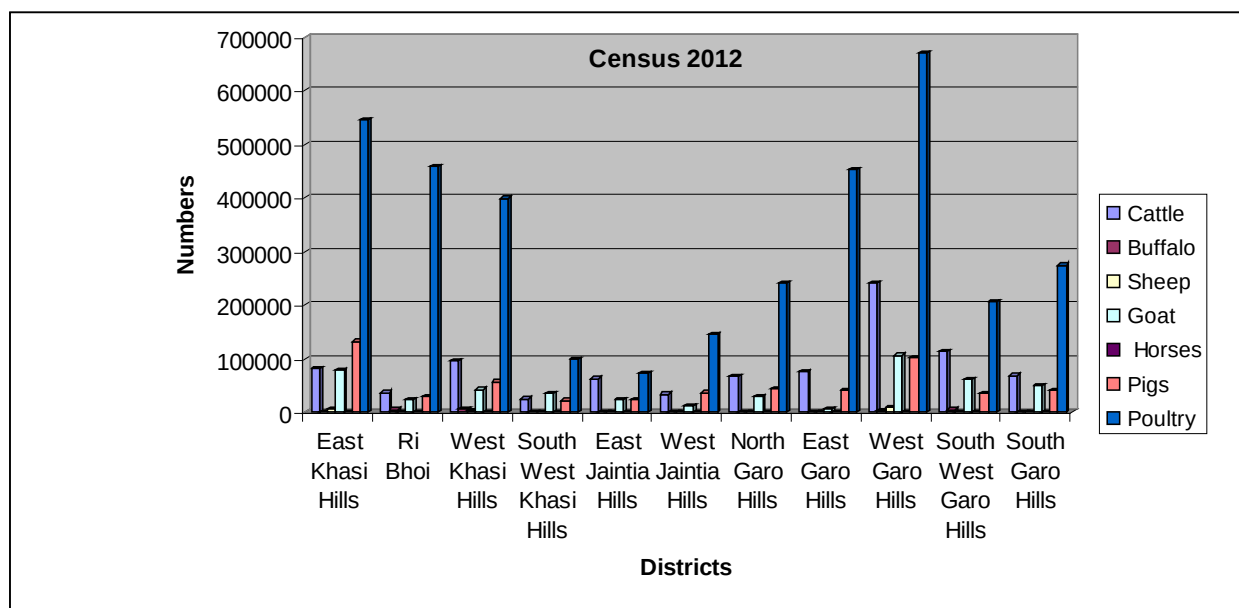


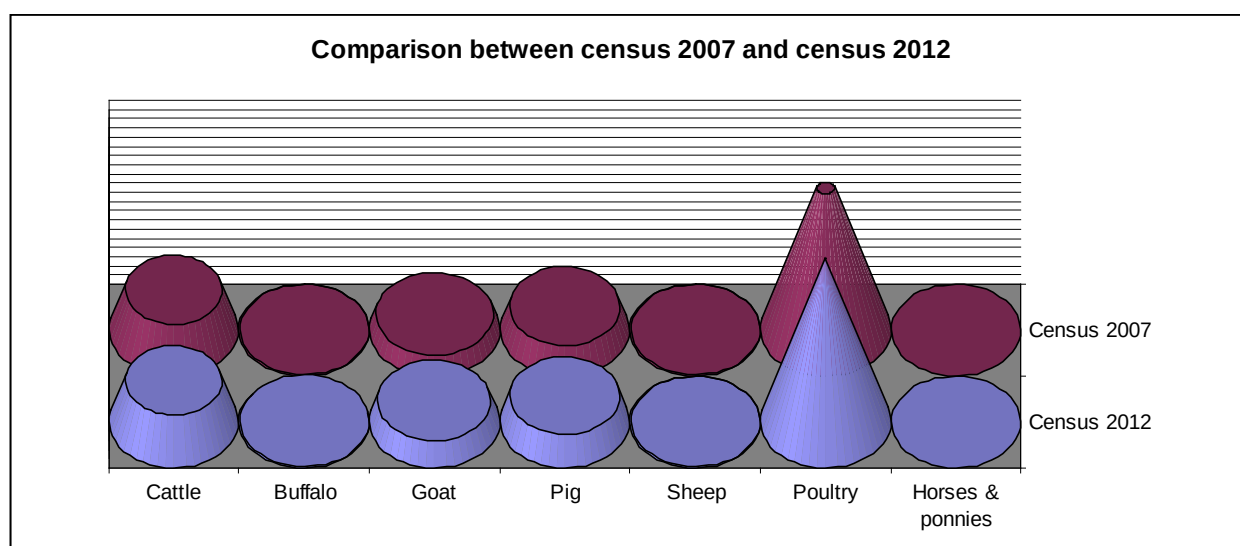
Table 2.4: Poultry Population.

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

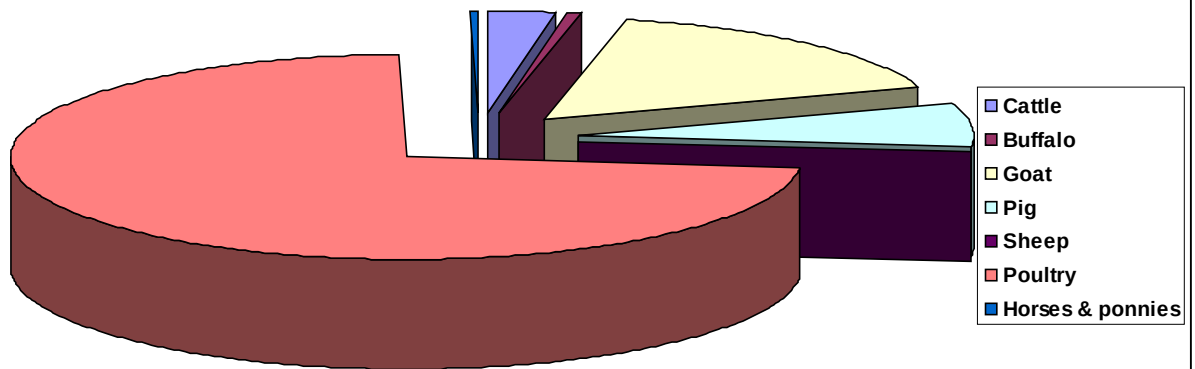


**TABLE – 2.5: LIVESTOCK POPULATION: (as per 2012 Census)
and Growth Rate as compared to 2007 Census**

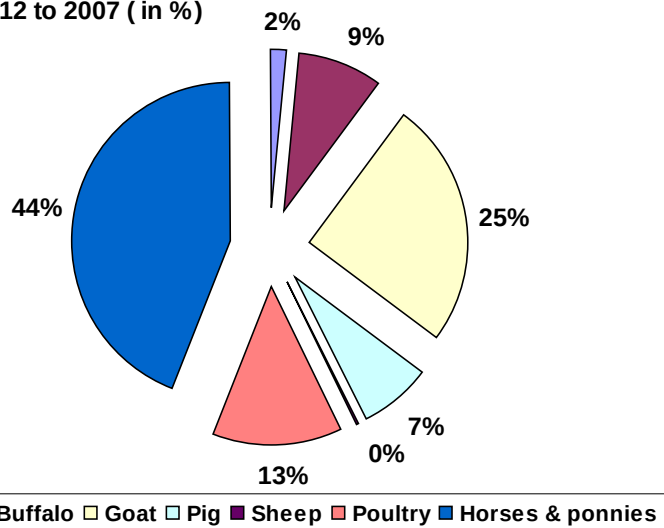
Sl No	Species	Population (Numbers)			Total	Growth Rate (%)
1	Cattle	Crossbred	Male	5602	26458	-1.45
			Female	20856		
		Indigenous	Male	355705	879295	2.2
			Female	523590		
2	Buffalo	Indigenous	Male	16363	24894	10.02
			Female	8531		
3	Goat	Indigenous	Male	179502	472325	29.23
			Female	292823		
4	Pig	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	14.66



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 gives 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 Cell in the Directorate of Animal Husbandry in various States in Union Territories for the purpose of conducting Sample Survey for Estimation of Major Livestock Products and carrying out other Statistical activities, the Government of India initiated a Centrally Sponsored Schemes for our State during the Fifth Five Year Plan 50:50 sharing basis between the States and the Center.

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 all the Districts of the State.

3.3. Period of Survey: - **The year is divided into three season 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 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 where as 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 alongwith 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: - 2 Clusters of 2 households each, eggs- 2 clusters of 5 households each and meat 2 clusters of 10 households in the first round and double of this numbers in the subsequent rounds. The data on Wool Yield will be collected from 5 flocks in the shearing season only. 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 where as no Sub-Sampling within a household would be done in the cases of eggs and meat. Information for estimating Meat production per animal would be recorded from a Sample of 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 Deputy Director (Stats.) who is the implementing Officer of the Sample Survey Scheme the Research Officer, The Statistical Officer, The Inspector Statistics, The Statistical Assistants, The Senior Veterinary Field 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 2013-14	Estimate Current Year 2014-15	% of Increase or Decrease over previous Year
I	Milk				
	Indigenous Cows				
	Population				
A	In Milk	00 No.	1155	1146	(-)0.78%
B	Milch	00 No.	2400	2413	(+)0.54%
	Yield per Day				
C	In Milk	Kgs.	0.758	0.768	(+) 1.32%
D	Milch	Kgs.	0.365	0.365	=
E	Production	000 tonnes	31.95	32.14	(+) 0.59%
	Crossbred Cows				
	Population				
F	In Milk	00 Nos.	148	151	(+)2.03%
G	Milch	00 Nos.	183	180	(-) 1.64%
	Yield per day				
H	In Milk	Kgs.	8.961	8.909	(-)0.58 %
I	Milch	Kgs.	7.239	7.471	(+) 3.20%
J	Production	000 tonnes	48.46	49.43	(+) 2.00%

Table 3.11 – contd.

Sl No.	Items	Unit	Estimates Previous Year 2013-14	Estimate Current Year 2014-15	% of Increase or Decrease over previous Year
	Buffalo Population				
K	In Milk	00 No.	26	25	(-)3.85%
L	Milch	00 No.	49	47	(-)4.08%
	Yield per Day				
M	In Milk	Kgs.	1.827	1.844	(-) 0.93%
N	Milch	Kgs.	0.976	0.976	=
O	Production	000 tonnes	1.749	1.671	(-) 4.46%
	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	82.16	82.94	(+)0.95%
II	Egg Production				
	Layers				
U	Desi	00 No.	8501	8466	(-) 0.41%
V	Improved	00 No.	853	831	(+) 2.58%
W	Total	00 No.	9354	9297	(-) 0.61%
	Yield per layer per year				
X	Desi	No.	103	104	0.97%
Y	Improved	No.	212	214	0.94%
	Production				
Z	Desi	Lakhs Nos.	868.99	879.38	(+) 1.20%
Aa	Improved	“	180.39	177.60	(-) 1.55%
Ab	Total	“	1049.37	1056.98	(+) 0.73%

Table 3.12 Annual Report on Sample Surveys to estimate production of Livestock products.
State: - Meghalaya.
2014-2015

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.	68	68	67	203
2. ©	No. of villages covered for detailed study.				
	i) for Milk	68	68	67	203
	ii) for Egg	68	68	67	203
3.(a)	Total No. of households in the State. (2012 Census) Lakhs Nos.	5.44	5.44	5.44	5.44
3. (b)	Percentage of Households keeping :-				
	i) Bovine	47.72%	45.61%	43.92%	45.68%
	ii) Poultry	81.43%	80.15%	85.38%	81.39%
	iii) Sheep	1.09%	0.48%	1.07%	0.85%
	iv) Goat	26.31%	20.89%	13.15%	1.96%
	v) Pig	57.69%	65.40%	67.05%	63.54%
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)	759	594	446	1799
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	665	1177	414	2256
	ii) Buffalo in Milk.	60	69	8	137
	iii) Goat in Milk.	-	-	-	-
5. (a)	No. of Households observed for egg production.	730	898	720	2348
5. (b)	No. of Layers observed.				
	i) Desi & Improved	3096	3274	3052	9422
	.				

Table 3.12 – Contd.

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered.'000' Nos.				
	i) Cattle	89.41	89.73	89.6	268.74
	ii) Buffalo	1.57	1.65	1.64	4.86
	iii) Sheep & Goat	42.14	42.69	42.45	127.28
	iv) Pig	85.38	85.48	85.54	256.4
	v) Poultry	1115.26	1105.5	1077.74	3298.5

Table 3.13: District-wise Number of Villages selected for complete enumeration during the year 2014-15.

Sl. No.	Name of District	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	39	39	39	117
2.	Ri Bhoi	20	20	20	60
3	West Khasi Hills	19	19	20	58
4	South West Khasi Hills	19	19	19	57
5	East Jaintia Hills	11	11	8	30
6	West Jaintia Hills	9	9	9	27
7	North Garo Hills	19	19	10	48
8	East Garo Hills	20	20	20	60
9	West Garo Hills	28	28	28	84
10.	South West Garo Hills	28	28	28	84
11	South Garo Hills	27	27	27	81
	State (Overall)	239	239	228	706

Chapter – 4
District-wise & Season-wise Estimates
Milk Production
2014-2015

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	6522	6624	6827	6624
2.	Ri Bhoi	8590	8590	8651	8620
3	West Khasi Hills	11739	11909	11739	11739
4	South West Khasi Hills	6475	6411	6475	6475
5	East Jaintia Hills	11840	11724	11840	11840
6	West Jaintia Hills	2800	2822	2800	2800
7	North Garo Hills	14234	14408	14234	14234
8	East Garo Hills	10437	10290	10437	10437
9	West Garo Hills	24095	23535	24655	24095
10.	South West Garo Hills	11480	11760	11480	11480
11	South Garo Hills	6308	6448	6308	6308
	Meghalaya	114520	114521	115446	114652

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	4840	4915	4840	4840
2.	Ri Bhoi	10723	10740	10723	10723
3	West Khasi Hills	18530	18584	18530	18530
4	South West Khasi Hills	4584	4603	4584	4584
5	East Jaintia Hills	20481	20402	20481	20481
6	West Jaintia Hills	5139	5166	5139	5139
7	North Garo Hills	17149	17230	17149	17149
8	East Garo Hills	5830	5885	5830	5830
9	West Garo Hills	23667	23375	23667	23667
10.	South West Garo Hills	12090	12195	12090	12090
11	South Garo Hills	3616	3676	3616	3616
	Meghalaya	126649	126771	126649	126649

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	11362	11539	11667	11464
2.	Ri Bhoi	19313	19330	19374	19343
3	West Khasi Hills	30269	30493	30269	30269
4	South West Khasi Hills	11059	11014	11059	11059
5	East Jaintia Hills	32321	32126	32321	32321
6	West Jaintia Hills	7939	7988	7939	7939
7	North Garo Hills	31383	31638	31383	31383
8	East Garo Hills	16267	16175	16267	16267
9	West Garo Hills	47762	46910	48322	47762
10.	South West Garo Hills	23570	23955	23570	23570
11	South Garo Hills	9924	10124	9924	9924
	Meghalaya	241169	241292	242095	241301

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	6222	6222	6159	6222
2.	Ri Bhoi	6528	6528	6483	6528
3	West Khasi Hills	198	197	198	198
4	South West Khasi Hills	130	130	132	130
5	East Jaintia Hills	465	463	460	463
6	West Jaintia Hills	198	201	203	200
7	North Garo Hills	47	48	47	47
8	East Garo Hills	39	40	39	39
9	West Garo Hills	817	812	807	812
10.	South West Garo Hills	106	106	107	106
11	South Garo Hills	395	364	364	364
	Meghalaya	15145	15111	14999	15109

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	1356	1371	1429	1385
2.	Ri Bhoi	581	584	606	592
3	West Khasi Hills	34	34	34	34
4	South West Khasi Hills	62	63	64	63
5	East Jaintia Hills	152	153	157	154
6	West Jaintia Hills	33	33	33	33
7	North Garo Hills	12	12	12	12
8	East Garo Hills	20	20	21	20
9	West Garo Hills	147	144	153	147
10.	South West Garo Hills	33	33	34	33
11	South Garo Hills	429	429	447	435
	Meghalaya	2859	2876	2990	2908

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	7578	7593	7588	7607
2.	Ri Bhoi	7109	7112	7089	7120
3	West Khasi Hills	232	231	232	232
4	South West Khasi Hills	192	193	196	193
5	East Jaintia Hills	617	616	617	617
6	West Jaintia Hills	231	234	236	233
7	North Garo Hills	59	60	59	59
8	East Garo Hills	59	60	60	59
9	West Garo Hills	964	956	960	959
10.	South West Garo Hills	139	139	141	139
11	South Garo Hills	824	793	811	799
	Meghalaya	18004	17987	17989	18017

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

Sl. No.	Name of Districts	In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	132	131	131	131
2.	Ri Bhoi	534	531	531	531
3	West Khasi Hills	277	274	274	274
4	South West Khasi Hills	32	32	32	32
5	East Jaintia Hills	140	140	140	140
6	West Jaintia Hills	67	67	67	67
7	North Garo Hills	2	2	2	2
8	East Garo Hills	6	6	6	6
9	West Garo Hills	612	606	599	606
10.	South West Garo Hills	702	693	684	693
11	South Garo Hills	0	0	0	0
	Meghalaya	2504	2482	2466	2482

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

Sl. No.	Name of Districts	Dry			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	50	50	51	50
2.	Ri Bhoi	398	399	400	399
3	West Khasi Hills	213	215	216	215
4	South West Khasi Hills	16	16	16	16
5	East Jaintia Hills	64	64	65	64
6	West Jaintia Hills	131	129	130	129
7	North Garo Hills	3	3	3	3
8	East Garo Hills	0	0	0	0
9	West Garo Hills	828	833	833	833
10.	South West Garo Hills	500	498	500	498
11	South Garo Hills	3	3	3	3
	Meghalaya	2206	2210	2217	2210

Table 4.3 ©: Estimated Number of Productive Buffaloes.

Sl. No.	Name of Districts	Milch			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	182	181	182	181
2.	Ri Bhoi	932	930	931	930
3	West Khasi Hills	490	489	490	489
4	South West Khasi Hills	48	48	48	48
5	East Jaintia Hills	204	204	205	204
6	West Jaintia Hills	198	196	197	196
7	North Garo Hills	5	5	5	5
8	East Garo Hills	6	6	6	6
9	West Garo Hills	1440	1439	1432	1439
10.	South West Garo Hills	1202	1191	1184	1191
11	South Garo Hills	3	3	3	3
	Meghalaya	4710	4692	4683	4692

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	0.840	0.850	0.860	0.850
2.	Ri Bhoi	1.030	1.030	1.050	1.038
3	West Khasi Hills	0.840	0.830	0.850	0.840
4	South West Khasi Hills	0.810	0.820	0.840	0.826
5	East Jaintia Hills	0.740	0.750	0.750	0.744
6	West Jaintia Hills	0.740	0.730	0.750	0.742
7	North Garo Hills	0.720	0.720	0.670	0.706
8	East Garo Hills	0.670	0.670	0.670	0.667
9	West Garo Hills	0.740	0.730	0.740	0.737
10.	South West Garo Hills	0.730	0.720	0.730	0.732
11	South Garo Hills	0.670	0.670	0.660	0.672
	Meghalaya	0.768	0.766	0.768	0.768

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	0.482	0.488	0.491	0.494
2.	Ri Bhoi	0.458	0.458	0.457	0.461
3	West Khasi Hills	0.326	0.324	0.322	0.327
4	South West Khasi Hills	0.474	0.477	0.480	0.480
5	East Jaintia Hills	0.271	0.274	0.268	0.273
6	West Jaintia Hills	0.261	0.258	0.258	0.262
7	North Garo Hills	0.327	0.328	0.296	0.320
8	East Garo Hills	0.430	0.426	0.419	0.428
9	West Garo Hills	0.373	0.366	0.368	0.372
10.	South West Garo Hills	0.356	0.353	0.347	0.357
11	South Garo Hills	0.426	0.427	0.409	0.427
	Meghalaya	0.365	0.363	0.357	0.365

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	8.940	8.950	8.940	8.914
2.	Ri Bhoi	9.060	9.050	9.030	9.026
3	West Khasi Hills	8.380	8.390	8.380	8.369
4	South West Khasi Hills	8.340	8.350	8.350	8.389
5	East Jaintia Hills	8.850	8.850	8.850	8.844
6	West Jaintia Hills	8.830	8.840	8.840	8.866
7	North Garo Hills	8.760	8.770	8.770	8.830
8	East Garo Hills	8.750	8.760	8.760	8.832
9	West Garo Hills	8.420	8.440	8.440	8.434
10.	South West Garo Hills	8.430	8.440	8.440	8.463
11	South Garo Hills	8.280	8.290	8.290	8.522
	Meghalaya	8.925	8.928	8.915	8.909

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	7.340	7.334	7.079	7.291
2.	Ri Bhoi	8.320	8.307	8.057	8.276
3	West Khasi Hills	7.152	7.155	6.977	7.143
4	South West Khasi Hills	5.647	5.624	5.486	5.651
5	East Jaintia Hills	6.670	6.652	6.437	6.637
6	West Jaintia Hills	7.569	7.593	7.418	7.610
7	North Garo Hills	6.978	7.016	6.816	7.034
8	East Garo Hills	5.784	5.840	5.555	5.838
9	West Garo Hills	7.136	7.169	6.922	7.141
10.	South West Garo Hills	6.429	6.436	6.249	6.454
11	South Garo Hills	3.969	3.805	3.630	3.883
	Meghalaya	7.508	7.501	7.252	7.471

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	1.840	1.850	1.850	1.842
2.	Ri Bhoi	1.840	1.850	1.850	1.849
3	West Khasi Hills	1.860	1.860	1.850	1.861
4	South West Khasi Hills	1.840	1.860	1.850	1.850
5	East Jaintia Hills	1.840	1.850	1.850	1.851
6	West Jaintia Hills	1.840	1.840	1.840	1.831
7	North Garo Hills	1.720	1.730	1.730	1.727
8	East Garo Hills	1.720	1.730	1.730	1.727
9	West Garo Hills	1.840	1.840	1.840	1.840
10.	South West Garo Hills	1.840	1.840	1.830	1.828
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	1.842	1.845	1.841	1.844

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	1.335	1.339	1.332	1.340
2.	Ri Bhoi	1.054	1.056	1.055	1.056
3	West Khasi Hills	1.051	1.042	1.034	1.044
4	South West Khasi Hills	1.227	1.240	1.233	1.233
5	East Jaintia Hills	1.263	1.270	1.236	1.267
6	West Jaintia Hills	0.623	0.629	0.626	0.629
7	North Garo Hills	0.688	0.692	0.692	0.691
8	East Garo Hills	1.720	1.730	1.730	1.727
9	West Garo Hills	0.782	0.775	0.770	0.774
10.	South West Garo Hills	1.075	1.071	1.057	1.069
11	South Garo Hills	0.000	0.000	0.000	0.000
	Meghalaya	0.979	0.976	0.970	0.976

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	668	692	705	2065
2.	Ri Bhoi	1080	1088	1090	3258
3	West Khasi Hills	1203	1216	1197	3616
4	South West Khasi Hills	640	647	653	1939
5	East Jaintia Hills	1069	1081	1066	3216
6	West Jaintia Hills	253	254	252	758
7	North Garo Hills	1250	1276	1145	3671
8	East Garo Hills	853	848	839	2540
9	West Garo Hills	2175	2113	2190	6478
10.	South West Garo Hills	1023	1041	1006	3070
11	South Garo Hills	516	531	500	1547
	Meghalaya	10729	10788	10641	32158

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6786	6850	6607	20243
2.	Ri Bhoi	7216	7267	7025	21507
3	West Khasi Hills	203	203	199	605
4	South West Khasi Hills	132	134	132	398
5	East Jaintia Hills	502	504	489	1495
6	West Jaintia Hills	213	219	215	647
7	North Garo Hills	50	52	49	151
8	East Garo Hills	42	43	41	126
9	West Garo Hills	839	843	817	2500
10.	South West Garo Hills	109	110	108	327
11	South Garo Hills	399	371	362	1132
	Meghalaya	16491	16595	16046	49131

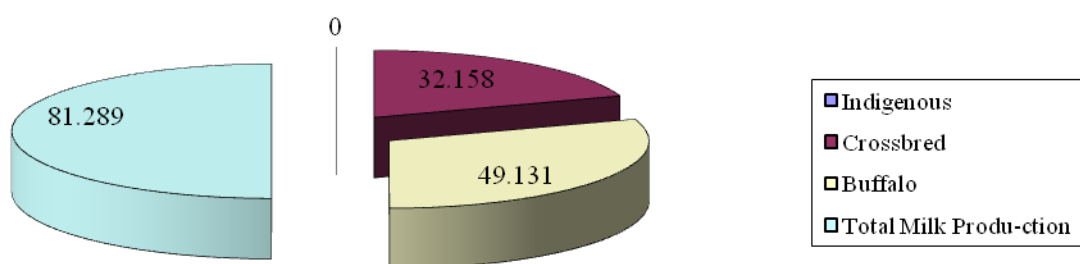
Table 4.9: Milk Production- Buffaloes (Tonnes).

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	30	30	29	89
2.	Ri Bhoi	120	121	118	359
3	West Khasi Hills	63	63	61	187
4	South West Khasi Hills	7	8	7	22
5	East Jaintia Hills	31	32	31	94
6	West Jaintia Hills	15	15	15	45
7	North Garo Hills				
8	East Garo Hills	1	2	1	4
9	West Garo Hills	138	137	132	407
10.	South West Garo Hills	158	156	151	465
11	South Garo Hills	0	0	0	0
	Meghalaya	563	564	545	1672

Table 4.10: Total Milk Production in the State. ('000' Tonnes) 2014-15

Sl. No.	Name of Districts	Cows Milk			Buffalo	Total Milk Production	Previous Years Production 2013-2014	% Increase or Decrease over 2013-14
		Indigenous	Crossbred	Total				
1.	East Khasi Hills	2.065	20.243	22.308	0.089	22.397	22.10	
2.	Ri Bhoi	3.258	21.507	24.765	0.359	25.21	25.21	
3	West Khasi Hills	3.616	0.605	4.221	0.187	4.408		
4	South West Khasi Hills	1.939	0.398	2.337	0.022	2.359		
5	East Jaintia Hills	3.216	1.495	4.711	0.094	4.805		
6	West Jaintia Hills	0.758	0.647	1.405	0.045	1.450		
7	North Garo Hills	3.671	0.151	3.822		3.822	6.37	
8	East Garo Hills	2.540	0.126	2.666	0.004	2.670	7.00	
9	West Garo Hills	6.478	2.500	8.978	0.407	9.385	6.37	
10.	South West Garo Hills	3.070	0.327	3.397	0.465	3.862	13.54	
11	South Garo Hills	1.547	1.132	2.679	0	2.679	1.56	
	Meghalaya	32.158	49.131	81.289	1.672	82.961	82.16	0.97%

Milk Production (Species wise including Total Production)



**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

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

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%

Chapter – 5

District-wise & Season-wise Estimates

Egg Production

**Table 5.1 (a): District-wise and Season-Wise Estimated No. of Poultry (Fowls), 2014-15
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	1131	942	933	256	401	637	635	420	1845	476	564	8240
Monsoon	1111	956	946	253	399	632	635	427	1845	476	563	8243
Winter	1091	969	933	253	399	633	635	427	1845	476	563	8224
Over All	1111	956	933	253	399	632	635	427	1845	476	563	8230
<u>Improved</u>												
Summer	241	154	57	2	67	113	29	70	62	18	6	819
Monsoon	244	153	58	2	66	114	29	69	61	18	6	820
Winter	248	154	59	2	66	115	30	70	62	19	6	831
Over All	245	154	58	2	66	114	29	70	62	18	6	824
<u>Total</u>												
Summer	1372	1096	990	258	468	750	664	490	1907	494	570	9059
Monsoon	1355	1109	1004	255	465	746	664	496	1906	494	569	9063
Winter	1339	1123	992	255	465	748	665	497	1907	495	569	9055
Over All	1355	1110	992	255	465	747	664	497	1907	494	569	9054

Table 5.1(b): District-wise and Season-wise Estimated No. of Poultry (Ducks) 2014-15.
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	22	11	3	7	3	13	3	6	114	45	9	236
Monsoon	22	12	3	7	3	12	3	6	114	46	9	236
Winter	22	11	3	7	3	12	3	6	114	45	9	235
Over All	22	11	3	7	3	13	3	6	114	45	9	236
<u>Improved</u>												
Summer	1	1	0	0	0	0	0	1	4	0	0	7
Monsoon	1	1	0	0	0	0	0	1	4	0	0	7
Winter	1	1	0	0	0	0	0	1	4	0	0	7
Over All	1	1	0	0	0	0	0	1	4	0	0	7
<u>Total</u>												
Summer	23	12	3	7	3	13	3	7	118	45	9	243
Monsoon	23	13	3	7	3	12	3	7	118	46	9	243
Winter	23	12	3	7	3	12	3	7	118	45	9	242
Over All	23	12	3	7	3	13	3	7	118	45	9	243

Table 5.2 (a): District-wise and Season-Wise Estimated Yield per Layer (Fowls) 2014-15

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	35	35	35	34	35	35	35	32	35
Monsoon	36	35	35	35	35	35	35	35	35	35	33	35
Winter	35	35	34	34	34	34	33	34	34	33	32	34
Over All	106	106	104	104	104	104	102	103	104	103	97	104
<u>Improved</u>												
Summer	73	74	68	68	70	71	68	71	69	68	64	71
Monsoon	73	74	68	69	70	71	68	71	69	69	65	72
Winter	72	72	69	69	71	70	69	70	69	69	66	71
Over All	218	219	205	206	211	212	206	210	206	206	197	214
<u>Total</u>												
Summer	42	41	37	35	40	40	35	40	36	36	32	38
Monsoon	43	40	37	35	40	40	36	40	36	36	33	38
Winter	42	40	36	34	39	40	35	39	35	34	32	37
Over All	126	122	110	105	119	120	107	119	107	107	98	114

Table 5.2(b): District-wise and Season-wise Estimated Yield per Layer (Ducks) 2014-15.

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	35	35	35	34	35	35	35	32	35
Monsoon	36	35	35	35	35	35	35	35	35	35	33	35
Winter	35	35	34	34	34	34	33	34	34	33	32	34
Over All	106	106	104	104	104	104	102	104	104	103	97	104
<u>Improved</u>												
Summer	73	74	68	-	-	71	-	71	69	68	64	70
Monsoon	73	74	68	-	-	71	-	71	69	69	65	70
Winter	72	72	69	-	-	70	-	70	69	69	66	70
Over All	218	220	219	-	-	212	-	213	207	218	197	210
<u>Total</u>												
Summer	37	37	36	35	35	36	34	39	36	35	33	36
Monsoon	38	36	36	35	35	36	35	39	36	35	34	36
Winter	37	36	35	34	34	35	33	38	35	33	33	35
Over All	113	110	106	104	104	108	102	115	108	103	100	107

Table 5.3(a): District-wise and Season-Wise Estimated Egg Production (Fowls) 2014-15.
(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	39.57	33.93	32.67	8.97	14.03	22.31	21.60	14.69	64.56	16.65	18.03	287.01
Monsoon	40.00	33.45	33.11	8.86	13.96	22.14	22.23	14.93	64.56	16.66	18.59	288.49
Winter	38.21	33.91	31.73	8.60	13.56	21.51	20.96	14.51	62.72	15.70	18.03	279.44
Over All	117.78	101.29	97.51	26.43	41.55	65.96	64.79	44.13	191.84	49.01	54.65	854.94
<u>Improved</u>												
Summer	17.59	11.43	3.89	0.11	4.71	8.01	1.99	4.98	4.27	1.22	0.37	58.57
Monsoon	17.83	11.33	3.97	0.11	4.62	8.07	1.99	4.86	4.21	1.26	0.37	58.62
Winter	17.82	11.12	4.10	0.11	4.72	8.07	2.05	4.91	4.27	1.28	0.39	58.84
Over All	53.24	33.88	11.96	0.33	14.05	24.15	6.03	14.75	12.75	3.76	1.13	176.03
<u>Total</u>												
Summer	57.16	45.36	36.56	9.08	18.74	30.32	23.59	19.67	68.83	17.87	18.40	345.58
Monsoon	57.83	44.78	37.08	8.97	18.58	30.21	24.22	19.79	68.77	17.92	18.96	347.11
Winter	56.03	45.03	35.83	8.71	18.28	29.58	23.01	19.42	66.99	16.98	18.42	338.28
Over All	171.02	135.17	109.47	26.76	55.60	90.11	70.82	58.88	204.59	52.77	55.78	1030.97

Table 5.3(b): District-wise and Season-wise Estimated Egg production (Ducks) 2014-15.
(In Lakhs)

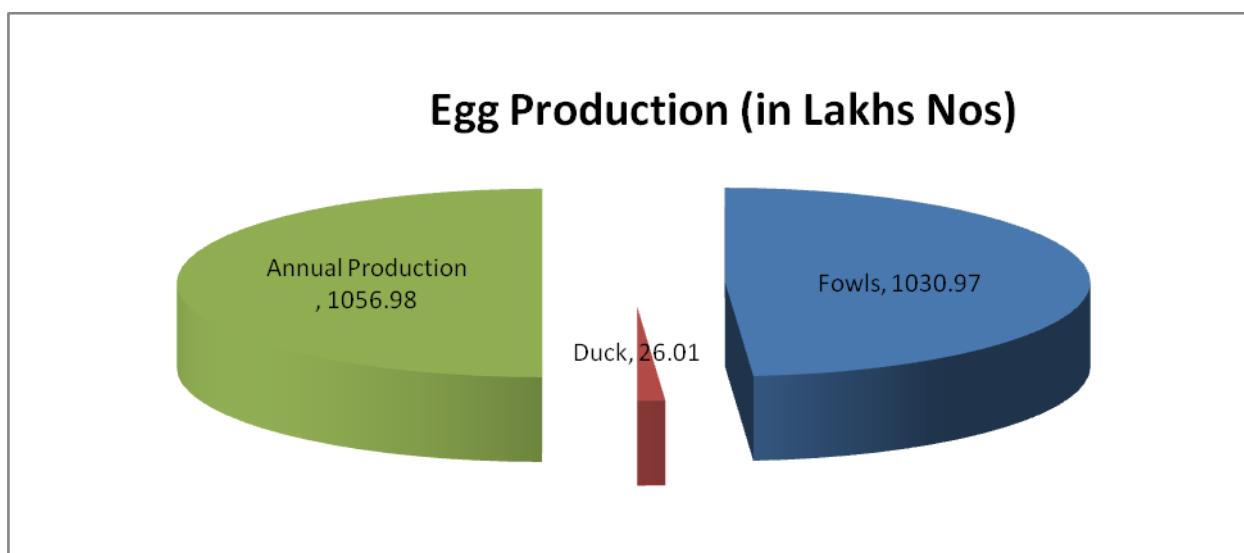
Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State
<u>Desi</u>												
Summer	0.76	0.41	0.11	0.24	0.10	0.44	0.09	0.20	3.98	1.59	0.30	8.22
Monsoon	0.79	0.40	0.11	0.24	0.10	0.44	0.10	0.20	3.97	1.60	0.30	8.25
Winter	0.77	0.40	0.11	0.23	0.09	0.42	0.09	0.19	3.85	1.51	0.31	7.97
Over All	2.32	1.21	0.33	0.71	0.29	1.30	0.28	0.59	11.80	4.70	0.91	24.44
<u>Improved</u>												
Summer	0.10	0.03	-	-	-	0.03	-	0.05	0.28	-	0.02	0.51
Monsoon	0.11	0.04	-	-	-	0.03	-	0.05	0.28	-	0.02	0.53
Winter	0.10	0.03	-	-	-	0.04	-	0.05	0.28	-	0.03	0.53
Over All	0.31	0.10	-	-	-	0.10	-	0.15	0.84	-	0.07	1.57
<u>Total</u>												
Summer	0.86	0.44	0.11	0.24	0.10	0.47	0.09	0.25	4.26	1.59	0.32	8.73
Monsoon	0.90	0.44	0.11	0.24	0.10	0.47	0.10	0.25	4.25	1.60	0.32	8.78
Winter	0.87	0.43	0.11	0.23	0.09	0.46	0.09	0.24	4.13	1.51	0.34	8.50
Over All	2.63	1.31	0.33	0.71	0.29	1.40	0.28	0.74	12.64	4.70	0.98	26.01

Table 5.4 (a): Estimated Total Egg production. (Lakhs Numbers) 2014-15.

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	57.16	0.86	57.83	0.90	56.03	0.87
2.	Ri Bhoi	45.36	0.44	44.78	0.44	45.03	0.43
3	West Khasi Hills	36.56	0.11	37.08	0.11	35.83	0.11
4	South West Khasi Hills	9.08	0.24	8.97	0.24	8.71	0.23
5	East Jaintia Hills	18.74	0.10	18.58	0.10	18.28	0.09
6	West Jaintia Hills	30.32	0.47	30.21	0.47	29.58	0.46
7	North Garo Hills	23.59	0.09	24.22	0.10	23.01	0.09
8	East Garo Hills	19.67	0.25	19.79	0.25	19.42	0.24
9	West Garo Hills	68.83	4.26	68.77	4.25	66.99	4.13
10.	South West Garo Hills	17.87	1.59	17.92	1.60	16.98	1.51
11	South Garo Hills	18.40	0.32	18.96	0.32	18.42	0.34
	Meghalaya	345.58	8.73	347.11	8.78	338.28	8.50

Table 5.4 (b) : Estimated Total Egg production. (Lakhs Numbers) 2014-15.

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2014-15	Annual Production Previous Year 2013-14	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	171.02	2.63	173.65	171.10	
2.	Ri Bhoi	135.17	1.31	136.48	135.20	
3	West Khasi Hills	109.47	0.33	109.80	145.59	
4	South West Khasi Hills	26.76	0.71	27.47		
5	East Jaintia Hills	55.60	0.29	55.89		
6	West Jaintia Hills	90.11	1.40	91.51	165.80	
7	North Garo Hills	70.82	0.28	71.10		
8	East Garo Hills	58.88	0.74	59.62	121.85	
9	West Garo Hills	204.59	12.64	217.23	251.92	
10.	South West Garo Hills	52.77	4.70	57.47		
11	South Garo Hills	55.78	0.98	56.76	57.91	
	Meghalaya	1030.97	26.01	1056.98	1049.37	(+) 0.73%



**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

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%

Chapter – 6

SEASON WISE PERCENTAGE UTILISATION OF MILK AND EGGS IN SAMPLE HOUSEHOLD. 2014-15

Table 6.1: Utilisation of Milk.

Season	Sold as fluid Milk	Converted into Milk products	Consumed as Fluid Milk in the Household	Total
Summer	96.72	1.31	1.97	100
Monsoon	96.79	1.46	1.75	100
Winter	95.16	1.97	2.87	100
Overall	96.24	1.55	2.15	100

Table 6.2: Percentage Utilization of Produced Eggs.

Season	Utilisation for Home consumption	Set for Hatching	Egg Sold	Damaged or Spoiled	Total
Summer	34.64	16.36	47.73	1.27	100
Monsoon	34.53	15.11	49.28	1.08	100
Winter	34.96	16.30	47.92	0.82	100
Overall	34.71	15.87	48.37	1.05	100

Table 6.3: Season wise Percentage of Animals which were Grazed, Stallfed or Both. 2014-15

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. 1.1	<u>CATTLE</u> INDIGENOUS												
	(a) In Milk	66.88	16.24	16.88	100%	65.11	18.36	16.53	100%	61.60	21.20	17.20	100%
	(b) Dry & not Calved even once	78.84	12.72	8.44	100%	79.65	10.89	9.46	100%	72.68	12.14	15.18	100%
	© Adult Male	77.74	-	22.26	100%	84.92	-	15.08	100%	75.56	-	24.44	100%
	(d) Young Stock upto 3 Years old.	57.65	32.22	10.13	100%	82.61	8.28	9.11	100%	71.62	12.13	16.25	100%
	Overall :-	69.28	18.74	11.98	100%	79.06	9.56	11.38	100%	70.92	11.82	17.26	100%
1.2	CROSS BRED												
	(a) In Milk	18.03	61.64	20.33	100%	20.39	60.58	19.03	100%	16.04	63.68	20.28	100%
	(b) Dry & not Calved even once	32.72	41.87	25.41	100%	30.63	24.32	45.05	100%	48.54	22.33	29.13	100%
	© Adult Male	43.87	25.65	30.48	100%	36.19	29.85	33.96	100%	33.97	35.89	30.14	100%
	(d) Young Stock upto 3 Years old.	30.00	45.85	24.15	100%	29.36	39.45	31.19	100%	39.32	31.55	29.13	100%
	Overall :-	28.75	47.11	24.14	100%	27.72	41.72	30.56	100%	32.06	42.31	25.63	100%
2	BUFFALOES												
	(a) In Milk	53.59	22.73	23.68	100%	66.24	9.40	24.36	100%	52.83	20.66	26.51	100%
	(b) Dry & not Calved even once	54.33	19.40	26.27	100%	46.35	28.33	25.32	100%	50.10	23.63	26.27	100%
	© Adult Male	56.20	10.22	33.58	100%	61.11	6.57	32.32	100%	48.18	24.48	27.34	100%
	(d) Young Stock upto 3 Years old.	54.35	15.22	30.43	100%	42.35	23.47	34.18	100%	44.25	26.77	28.98	100%
	Overall :-	54.49	17.65	27.86	100%	55.20	16.00	28.80	100%	49.02	23.75	27.23	100%

ANNEXURE – X

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

Name of State : **Meghalaya**

Year : **2014-2015**

Sl. No	Category of Animals	Total No. Animals	Average Feed Consumption (in Kg.per animals/ per day)											
			Green Fodder				Dry Fodder				Concentrate			
			Summer	Rainy	Winter	Annual	Summer	Rainy	Winter	Annual	Summer	Rainy	Winter	Annual
1	Cattle Indigenous/Non Discript)													
	(a) In Milk	593	2.57	2.91	1.30	2.18	1.57	1.77	0.86	1.35	1.31	1.36	1.46	1.38
	b) Dry & not Calved even once	924	2.15	2.52	1.16	1.80	0.44	0.77	0.61	0.60	-	-	-	-
	c) Adult Male	305	2.25	2.77	1.12	1.86	1.15	-	1.25	0.94	-	-	-	-
	d) Young Stock up to 3 years	1105	1.16	1.41	0.70	1.06	-	-	0.54	0.16	-	-	-	-
	e) Overall (%)	2927	44.77	30.73	24.50	-	32.05	24.37	43.58	-	35.24	24.95	39.81	-
2	Cattle (Exotic/ Cross-bred)													
	a) In Milk	1264	18.09	18.59	4.18	11.74	7.38	9.09	12.39	10.12	4.09	4.18	4.29	4.20
	b) Dry & not Calved even once	567	16.99	17.09	2.59	12.12	5.30	4.49	5.89	5.29	1.29	1.80	1.69	1.56
	c) Adult Male	259	17.59	17.59	2.89	12.08	6.28	5.59	7.29	6.42	2.25	2.26	2.25	2.25
	d) Young Stock up to 2 & ½ years	501	3.90	5.18	2.16	3.68	1.39	-	2.13	1.26	-	-	-	-
	e) Overall (%)	2591	47.31	39.26	13.43	-	25.87	21.76	52.37	-	29.12	25.67	45.21	-
3	Buffalo													
	(a) In Milk	283	4.10	4.20	1.40	3.09	1.11	1.30	1.71	1.40	0.78	0.90	0.90	0.86
	b) Dry & not Calved even once	271	3.42	3.81	1.20	2.65	-	-	-	-	-	-	-	-
	c) Adult Male	213	3.90	4.40	1.30	3.05	-	-	-	-	-	-	-	-
	d) Young Stock up to 3 years	275	1.39	1.50	0.71	1.13	-	-	-	-	-	-	-	-
	e) Overall (%)	1042	35.42	45.76	18.82	-	25.85	26.98	47.17	-	29.45	30.29	40.26	-

Source : LPS- 1.2. Block-II

Table 6.5: Season wise Utilisation of Dung collected From Bovine at Sample Household 2014-15.

Sl No.	Particulars	Unit	Summer	Monsoon	Winter	Over all
1.	Total No. of Sample animals observed for Dung Utilisation.	Nos.	3175	2501	2300	7976
2.	Average quantity of Dung collected per animal per day.	Kg	3.00	3.20	3.15	3.11
3.	Dung utilized for manure.	Percentage	95.85	97.53	97.79	96.96
4.	Dung utilized for Dung cake.	Percentage	2.62	1.10	0.97	1.65
5.	Dung utilized for other purpose.	Percentage	1.52	1.37	1.24	1.39

Table 6.6: Per Capita availability of Milk and Egg

Items	Unit	Per Capita Availability
Milk	Grams / day	74
Eggs	Nos. / year	35

Meat Production – 2014-15

Meat Production – 2014-15

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

Sl No.	Particulars	East Khasi Hills	West Khasi Hills	South West Khasi Hills	Ri Bhoi	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.	46420	7258	8406	2242	3578	5658	2292	1884	7284	1154	3231	89407	55408	33999
(b)	Buffaloes.	244	38	0	0	482	204	0	57	448	94	0	1567	1567	
©	Pig	44742	7479	7321	2441	4093	7491	864	1890	5919	689	2451	85380	73188	12192
(d)	Sheep & Goat	18297	3111	391	250	5464	3191	320	2467	4729	661	3254	42135	40886	1249
(e)	Poultry.	535820	99229	79462	19097	60023	123748	22227	36370	101906	14504	22877	1115263	1052590	62673
	<u>MONSOON</u>														
(a)	Cattle.	46452	7291	8492	2287	3565	5666	2286	1915	7290	1204	3279	89727	55470	34257
(b)	Buffaloes.	246	34	0	0	484	306	0	57	450	68	0	1645	1645	
©	Pig.	44784	7498	7269	2424	4127	7503	894	1913	5966	664	2440	85482	73151	12331
(d)	Sheep & Goat	18544	3167	408	256	5525	3263	311	2530	4771	637	3275	42687	41056	1631
(e)	Poultry.	539769	100373	78855	16632	57944	119999	17397	35139	101744	14709	22939	1105500	1079574	25926
	<u>WINTER</u>														
(a)	Cattle.	46215	7310	8487	2263	3548	5649	2341	1938	7401	1171	3275	89598	60177	29421
(b)	Buffaloes.	240	17	0	0	493	306	0	63	444	81	0	1644	1644	
©	Pig.	44773	7625	7189	2456	4129	7477	927	1916	5930	718	2402	85542	76879	8663
(d)	Sheep & Goat	18231	3185	450	295	5416	3212	369	2556	4812	657	3267	42450	40635	1815
(e)	Poultry.	533224	104741	71850	15704	58470	115996	14238	32601	94147	13111	23658	1077740	1038876	38864

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	139.09	21.86	25.39	6.79	10.69	16.97	6.92	5.74	21.98	3.53	9.79	240.82	143.14	97.68
2.	Buffaloes	0.73	0.09	0	0	1.46	0.82	0	0.18	1.34	0.24	0	3.16	3.16	0
3.	Pig	134.3	22.6	21.78	7.32	12.35	22.47	2.69	5.72	17.82	2.07	7.29	231.98	198.79	33.19
4.	Sheep & Goat	55.07	9.46	1.25	0.80	16.41	9.67	1.00	7.55	14.31	1.96	9.80	107.11	102.41	4.70
5.	Poultry	1608.81	304.34	230.17	51.43	176.44	359.74	53.86	104.11	297.8	42.32	69.47	2974.44	2846.98	127.46

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.	89.42	89.61	89.60	89.43	89.68	89.57	89.00	89.74	89.92	90.00	89.42	89.52
(b)	Buffaloes.	117.00	118.00	0	0	118	119	0	118	118	118	0	118
(c)	Pig.	43.30	43.22	43.13	43.36	43.07	43.07	43.44	43.44	43.13	43.35	43.46	43.25
(d)	Sheep & Goat.	10.19	10.38	10.21	10.14	10.20	10.18	10.21	10.21	10.28	10.23	10.42	10.23
(e)	Poultry.	1.29	1.30	1.27	1.30	1.29	1.28	1.27	1.27	1.25	1.25	1.25	1.28
	<u>MONSOON</u>												
(a)	Cattle.	89.58	89.71	89.50	89.56	89.38	89.62	89.00	89.88	89.44	90.00	89.85	89.57
(b)	Buffaloes.	118.00	117.50	0	0	118	117	0	118	117	118	0	117.56
(c)	Pig.	43.36	43.26	43.24	43.21	43.15	43.10	43.00	43.18	43.13	43.35	43.30	43.28
(d)	Sheep & Goat.	10.24	10.04	10.13	10.05	9.97	10.07	10.00	10.02	10.09	9.98	10.14	10.13
(e)	Poultry.	1.30	1.30	1.34	1.34	1.31	1.33	1.39	1.29	1.28	1.29	1.29	1.31
	<u>WINTER</u>												
(a)	Cattle.	89.77	89.62	89.64	89.87	89.54	89.27	89.00	89.88	89.86	89.81	89.85	89.7
(b)	Buffaloes.	118.00	118.00	0	0	118	118	0	118	118	118	0	117.84
(c)	Pig.	43.18	43.26	43.22	43.36	43.14	43.08	43.00	43.26	43.13	43.34	43.30	43.19
(d)	Sheep & Goat.	10.19	10.40	10.29	10.37	10.17	10.20	10.50	10.25	10.28	10.23	10.43	10.24
(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	89.59	117.67	43.28	10.21	1.30
2.	Ri – Bhoi	89.65	117.83	43.25	10.27	1.32
3.	West Khasi Hills	89.58	0	43.2	10.21	1.29
4.	South West Khasi Hills	89.62	0	43.31	10.19	1.32
5.	East Jaintia Hills	89.53	117.69	43.12	10.11	1.31
6.	West Jaintia Hills	89.49	118.00	43.08	10.15	1.31
7.	North Garo Hills	89.00	0	43.15	10.24	1.35
8.	East Garo Hills	89.83	118.00	43.29	10.16	1.30
9.	West Garo Hills	89.74	117.89	43.13	10.22	1.28
10.	South West Garo Hills	89.94	117.83	43.35	10.15	1.29
11.	South Garo Hills	89.71	0.00	43.35	10.33	1.29
	State (Overall)	89.6	117.80	43.24	10.20	1.30

Table 7.5: District wise Total Meat Production (In Tonnes)

Sl No.	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	State	Source	
														Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	<u>SUMMER</u>														
1.	Cattle.	4151	650	753	201	321	507	204	169	655	104	289	8004	4960	3044
2.	Buffaloes	29	4	0	0	57	24	0	7	53	11	0	185	185	0
3.	Pigs	1937	323	316	106	176	323	38	82	255	30	107	3693	3166	527
4.	Sheep & Goat.	186	32	4	3	56	32	3	25	49	7	34	431	418	13
5.	Poultry.	691	129	101	25	77	158	28	46	127	18	29	1429	1349	80
	TOTAL	6994	1138	1174	335	687	1044	273	329	1139	170	459	13742	10078	3664
	<u>MONSOON</u>														
1.	Cattle.	4161	654	760	205	319	508	203	172	652	108	295	8037	4969	3068
2.	Buffaloes	29	4	0	0	57	36	0	7	53	8	0	194	194	0
3.	Pigs	1942	324	314	105	178	323	38	83	257	29	106	3699	3165	534
4.	Sheep & Goat.	190	32	4	3	55	33	3	25	48	6	33	432	415	17
5.	Poultry.	702	130	106	22	76	160	24	45	130	19	30	1444	1410	34
	TOTAL	7024	1144	1184	335	685	1060	268	332	1140	170	464	13806	10153	3653
	<u>WINTER</u>														
1.	Cattle.	4149	655	761	203	318	504	208	174	665	105	294	8036	5397	2639
2.	Buffaloes	28	2	0	0	58	36	0	7	52	10	0	193	193	0
3.	Pigs	1933	330	311	106	178	322	40	83	256	31	104	3694	3320	374
4.	Sheep & Goat.	186	33	5	3	55	33	4	26	49	7	34	435	416	19
5.	Poultry.	693	141	91	21	78	154	20	43	124	18	31	1414	1363	51
	TOTAL	6989	1161	1168	333	687	1049	272	333	1146	171	463	13772	10689	3083
	OVERALL	21007	3443	3526	1003	2059	3153	813	994	3425	511	1386	41320	30920	10400

Table 7.6: District wise Season wise Total Meat Production (In Tonnes)

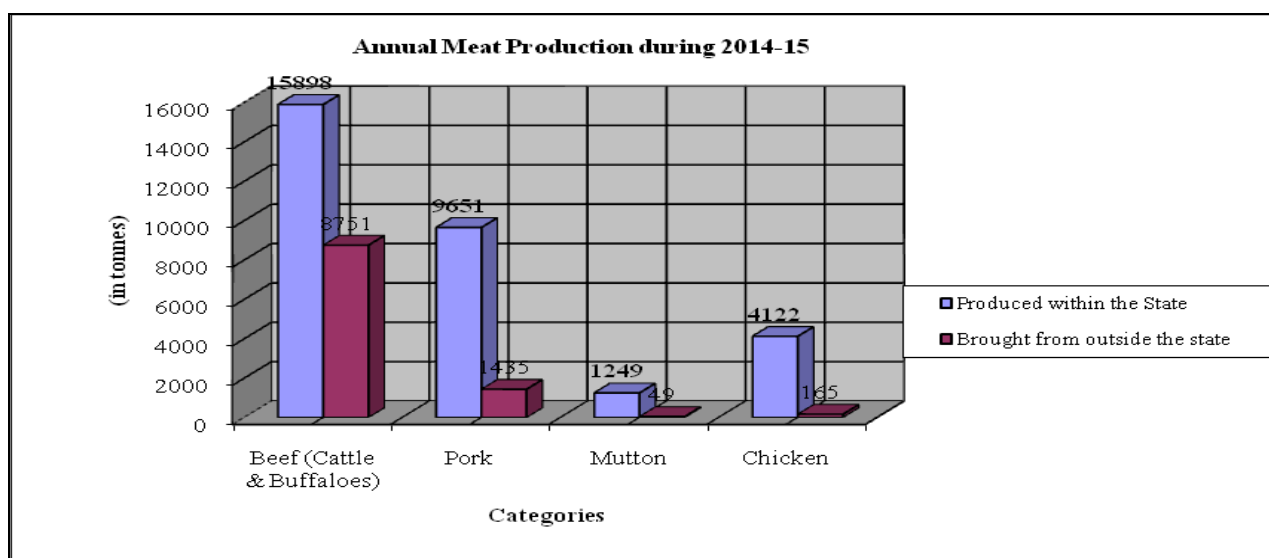
Sl No	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	South West Khasi Hills	East Jaintia Hills	West Jaintia Hills	North Garo Hills	East Garo Hills	West Garo Hills	South West Garo Hills	South Garo Hills	Total	Source	
														Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.	Cattle	12461	1959	2274	609	958	1519	615	515	1972	317	878	24077	15326	8751
2	Buffaloes	86	10	0	0	172	96	0	21	158	29	0	572	572	0
3.	Pig	5812	977	941	317	532	968	116	248	768	90	317	11086	9651	1435
4.	Sheep & Goat	562	97	13	9	166	98	10	76	146	20	101	1298	1249	49
5.	Poultry	2086	400	298	68	231	472	72	134	381	55	90	4287	4122	165
	TOTAL	21007	3443	3526	1003	2059	3153	813	994	3425	511	1386	41320	30920	10400

Table 7.7: District wise and Category wise Total Meat Production.

Table 7.7: District Wise and Category Wise Total Meat Production.									
Sl No.	Name of Districts	Meat Production Category Wise (Tonnes)						Annual Production 2014-15	Percentage Contribution to Total Meat Production
		Cattle	Buffalo	Total	Pork	Mutton	Chicken		
				Beef				(Col 5 – 8)	
1	2	3	4	5	6	7	8	9	10
1.	East Khasi Hills	12461	86	12547	5812	562	2086	21007	50.84 %
2.	Ri – Bhoi	1959	10	1969	977	97	400	3443	8.33 %
3.	West Khasi Hills	2274	0	2274	941	13	298	3526	8.53 %
4	South West Khasi Hills	609	0	609	317	9	68	1003	2.43 %
5	East Jaintia Hills	958	172	1130	532	166	231	2059	4.98 %
6	West Jaintia Hills	1519	96	1615	968	98	472	3153	7.63 %
7	North Garo Hills	615	0	615	116	10	72	813	1.97 %
8	East Garo Hills	515	21	536	248	76	134	994	2.41 %
9	West Garo Hills	1972	158	2130	768	146	381	3425	8.29 %
10	South West Garo Hills	317	29	346	90	20	55	511	1.24 %
11	South Garo Hills	878	0	878	317	101	90	1386	3.35 %
	State (Overall)	24077	572	24649	11086	1298	4287	41320	100 %
	Percentage Contribution of each species to total production	58.27%	1.38%	59.65%	26.83%	3.14%	10.38%	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 2013-14
		2014-15			2013-14			
		Produced within the State	Brought from outside the	Total	Produced within the State	Brought from outside the State	Total	
			State			State		
1	2	3	4	5	6	7	8	9
1	Beef (Cattle & Buffaloes)	15898	8751	24649	12780	10522	23302	(+) 5.78%
2	Pork	9651	1435	11086	9666	1495	11161	(-) 0.67%
3	Mutton	1249	49	1298	1271	41	1312	(-) 1.07%
4	Chicken	4122	165	4287	4371	187	4558	(-) 5.95%
5	Total	30920	10400	41320	28088	12245	40333	(+) 2.45%



7.9: Per Capita Availability of Meat Grams / Day 2014-15

Items	Per Capita Availability
Beef	22.78
Pork	10.25
Mutton	1.20
Chicken	3.96
Total	38.19

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

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

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

ANNEXURE – I
Comparative Analysis showing production estimate with effect from the year 1983-84
and Target for the Year 2013-14.

Year	Milk Production (‘000’ □ones)	Meat Production (‘000’ □ones)	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





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E-mail-ID: meghvety@gmail.com, website :<http://www.megahvt.gov.in>