



सत्यमेव जयते

**Government of Meghalaya**

**REPORT ON INTEGRATED  
SAMPLE SURVEY  
FOR**

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

**YEAR : 2011-12.**



**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 2011–2012 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.

However it may be mentioned that due to outbreak of Avian Influenza in the neighboring state of Assam there was a decline of poultry production within the State, hence import of chicken from outside is un-avoidable.

The result of the Survey indicates a growth rate of **0.68** % on Milk, **0.91** % on Egg and **0.79** % on Meat over 2010-11.

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

**Sd/-**  
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# CHAPTER - I

## GENERAL

**1.1 The State:** - Meghalaya is located in the North-Eastern part of India lying between the latitude of 25°47" and 26°10'North 89°45"East and 92°47" East longitude. The State is bounded on the North by Assam and on the South by Bangladesh and Assam again on the West. Physiographically, the State is divided into three hills section, (a) Western Meghalaya or Garo Hills (b) Central Meghalaya or Khasi Hills and (c) Eastern Meghalaya or Jaintia Hills. The total area of the State covers about 22,429 Sq. km. The State is divided into 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 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. 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	Villages 1998 Economics Census	Towns 2002
1.	East Khasi Hills	1	8	899	8
2.	Ri – Bhoi	-	3	570	1
3.	West Khasi Hills	2	6	914	2
4.	Jaintia Hills	2	5	465	1
5.	East Garo Hills	1	5	856	2
6.	West Garo Hills	2	8	1481	1
7.	South Garo Hills	-	4	595	1
	<b>State (Overall)</b>	8	39	5780	16

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

**Table 1.2: Human Population (2001)**

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	2332	512152
2.	Ri – Bhoi	99319	93471	192790	13180	179610	300	167779
3.	West Khasi Hills	150419	145630	296049	34598	261451	42	290184
4.	Jaintia Hills	149891	149217	299108	25057	274051	456	287049
5.	East Garo Hills	127474	123108	250582	35907	214675	347	241916
6.	West Garo Hills	263424	254966	518390	58978	459412	7436	397166
7.	South Garo Hills	52007	48973	100980	8643	92337	226	96616
	<b>State (Overall)</b>	<b>1176087</b>	<b>1142735</b>	<b>2318822</b>	<b>454111</b>	<b>1864711</b>	<b>11139</b>	<b>1992862</b>

Source : Final Population Totals Census of India 2001.  
Office of the Director of Census Operation, Meghalaya.

**Table 1.3: Land Use Statistics (2004-2005 to 2008-2009)****Hectares.**

Sl. No.	Particulars	2004-05	2005-06	2006-07	2007-08	2008-09
1	2	3	4	5	6	7
	<b>Reporting Area for Land Utilisation Statistics.</b>	2227100	2227100	2227100	2227100	2227100
1.	Forest.	9941786	943746	944108	946247	948133
2.	Not Available for Cultivation.	227945	226783	226939	225870	225921
3.	Other Uncultivated Land excluding Fallow Land.	607717	594976	594752	554410	553444
4.	Fallow Land.	230760	224726	224526	217981	215453
5.	Net Area Sown.	218892	236869	236775	282592	284149
6.	Area Sown more than once.	46680	49215	50419	52176	53245
	Total cropped Area.	265572	286084	287194	334768	337394

Source : Directorate of Economics & Statistics, Meghalaya.

**Table 1.4: Classification of Households possessing Bovine according to the size of the Unit during the Year 2011-12.**

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	5.56	15.28	30.56	11.11	16.66	4.16	16.67
2	Ri – Bhoi	8.11	20.27	21.62	24.32	9.46	6.76	9.46
3	West Khasi Hills	8.16	30.61	36.75	8.16	8.16	4.08	4.08
4	Jaintia Hills	1.85	16.67	27.78	16.67	9.26	9.26	18.52
5	East Garo Hills	6.90	17.24	20.69	20.69	13.80	6.90	13.79
6	West Garo Hills	-	6.42	11.93	12.84	11.93	12.84	44.04
7	South Garo Hills	3.45	10.34	31.04	13.80	13.80	10.34	17.24
	<b>State (Overall)</b>	<b>4.48</b>	<b>16.17</b>	<b>24.63</b>	<b>15.67</b>	<b>9.20</b>	<b>8.46</b>	<b>21.39</b>



**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
	<b>State (Overall)</b>	<b>22,429</b>	<b>33</b>	<b>1</b>	<b>1</b>	<b>19</b>	<b>1</b>	<b>15</b>	<b>126</b>

**Table 1.6 Density of Livestock Population per '100' Villages**

Sl. No.	Name of District	Indigenous Cattle	Crossbred Cattle	Buffaloes	Pig	Sheep	Goat	Poultry				Over all
								Fowls	Ducks	Improved	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	<b>49675</b>
2.	Ri – Bhoi	8495	1587	632	6612	29	2352	61366	553	6440	55479	<b>61919</b>
3.	West Khasi Hills	11422	78	315	6853	561	5994	40532	159	1066	39626	<b>40693</b>
4.	Jaintia Hills	28366	290	440	11649	157	53	70530	2812	5354	66457	<b>71811</b>
5.	East Garo Hills	18236	9	114	6756	5	4508	51081	127	1249	49958	<b>51228</b>
6.	West Garo Hills	14689	203	555	5479	420	8124	45219	2581	754	47046	<b>47801</b>
7.	South Garo Hills	5702	19	7	3307	22	3792	27547	921	32	28436	<b>28468</b>
	<b>State (Overall)</b>	<b>12871</b>	<b>399</b>	<b>311</b>	<b>7248</b>	<b>315</b>	<b>5663</b>	<b>47781</b>	<b>1025</b>	<b>2351</b>	<b>46386</b>	<b>48810</b>

## Chapter – 2

### Livestock Census Data 2003.

**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	8729	45705	54434	226	<b>54660</b>
2.	Ri – Bhoi	9045	48426	57471	3604	<b>61075</b>
3.	West Khasi Hills	717	104402	105119	2884	<b>108003</b>
4.	Jaintia Hills	1350	131905	133255	2048	<b>135303</b>
5.	East Garo Hills	81	156105	156186	977	<b>157163</b>
6.	West Garo Hills	3013	217549	220562	8223	<b>228785</b>
7.	South Garo Hills	113	39875	39988	41	<b>40029</b>
	<b>State (Overall)</b>	23048	743967	767015	18003	<b>785018</b>

**Table 2.1 Livestock Population (b) Horses & Ponies.**

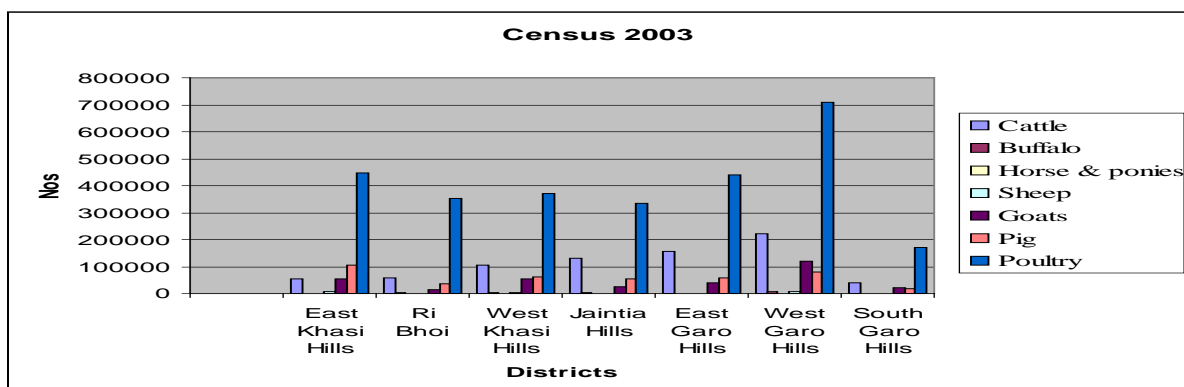
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	266	5510	5776	53041	216
2.	Ri – Bhoi	40	126	166	13407	96
3.	West Khasi Hills	16	5116	5132	54781	1050
4.	Jaintia Hills	130	602	732	24642	415
5.	East Garo Hills	-	41	41	38587	21
6.	West Garo Hills	116	6112	6228	120311	18
7.	South Garo Hills	63	65	128	22563	17
	<b>State (Overall)</b>	631	17572	18203	327332	1833

**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	16230	89566	105786	219479	915
2.	Ri – Bhoi	4112	33576	37688	112432	909
3.	West Khasi Hills	3817	58821	62638	231604	3
4.	Jaintia Hills	1556	52613	54169	215261	1278
5.	East Garo Hills	350	57533	57833	253695	2080
6.	West Garo Hills	2060	79080	81140	436482	3708
7.	South Garo Hills	166	19510	19676	82413	405
	<b>State (Overall)</b>	<b>28291</b>	<b>390689</b>	<b>418980</b>	<b>1551366</b>	<b>9298</b>

**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	396247	46430	442677	3834	66	3900	-	-	<b>446577</b>
2.	Ri – Bhoi	314533	35253	349786	1698	1456	3154	-	-	<b>352940</b>
3.	West Khasi Hills	360727	9740	370467	1451	-	1451	-	14	<b>371932</b>
4.	Jaintia Hills	304694	23269	327963	4333	1626	5959	-	-	<b>333922</b>
5.	East Garo Hills	426617	10633	437250	1021	62	1083	16	168	<b>438517</b>
6.	West Garo Hills	658652	11044	669696	38103	128	38231	-	-	<b>707927</b>
7.	South Garo Hills	163716	190	163906	5479	-	5479	-	-	<b>169385</b>
	<b>State (Overall)</b>	<b>2625186</b>	<b>136559</b>	<b>2761745</b>	<b>55919</b>	<b>3338</b>	<b>59257</b>	<b>16</b>	<b>182</b>	<b>2821200</b>



**Livestock Census Data 2007.**  
(Provisional)

**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	8789	64485	73274	413	<b>73687</b>
2.	Ri – Bhoi	13188	69933	83121	3289	<b>86410</b>
3.	West Khasi Hills	982	114727	115709	2787	<b>118496</b>
4.	Jaintia Hills	1208	146289	147497	2224	<b>149721</b>
5.	East Garo Hills	211	157823	158034	1415	<b>159449</b>
6.	West Garo Hills	2344	260999	263343	11133	<b>274476</b>
7.	South Garo Hills	126	46139	46265	1366	<b>47631</b>
	<b>State (Overall)</b>	<b>26848</b>	<b>860395</b>	<b>887243</b>	<b>22627</b>	<b>909870</b>

**Table 2.3 Livestock Population (b) Horses & Ponies.**

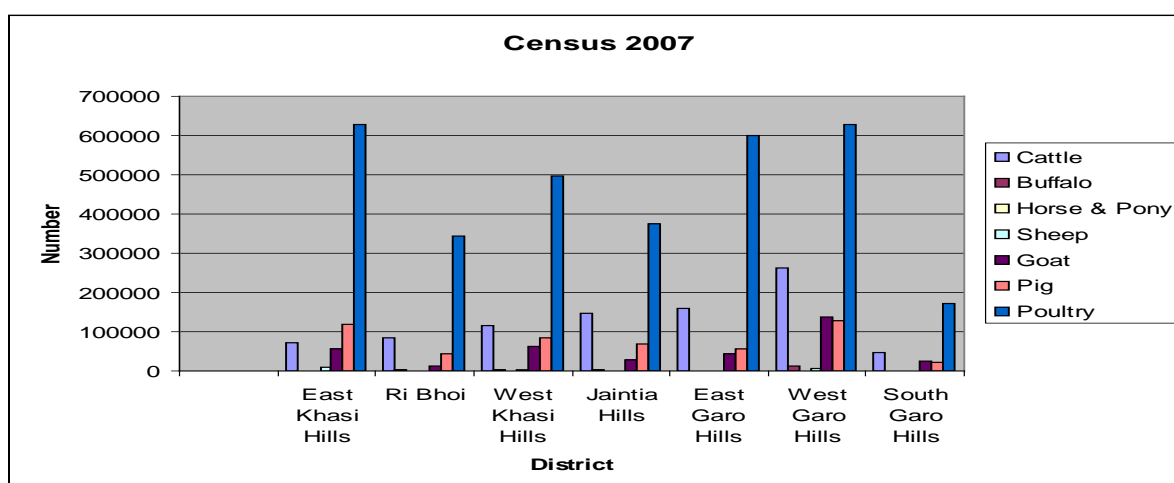
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	3	8954	8957	56632	48
2.	Ri – Bhoi	-	116	116	13835	24
3.	West Khasi Hills	189	3327	3516	61786	1732
4.	Jaintia Hills	30	12	42	27005	33
5.	East Garo Hills	-	1260	1260	43652	0
6.	West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

**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	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
	<b>State (Overall)</b>	<b>70157</b>	<b>454200</b>	<b>524357</b>	<b>1824032</b>	<b>1423</b>

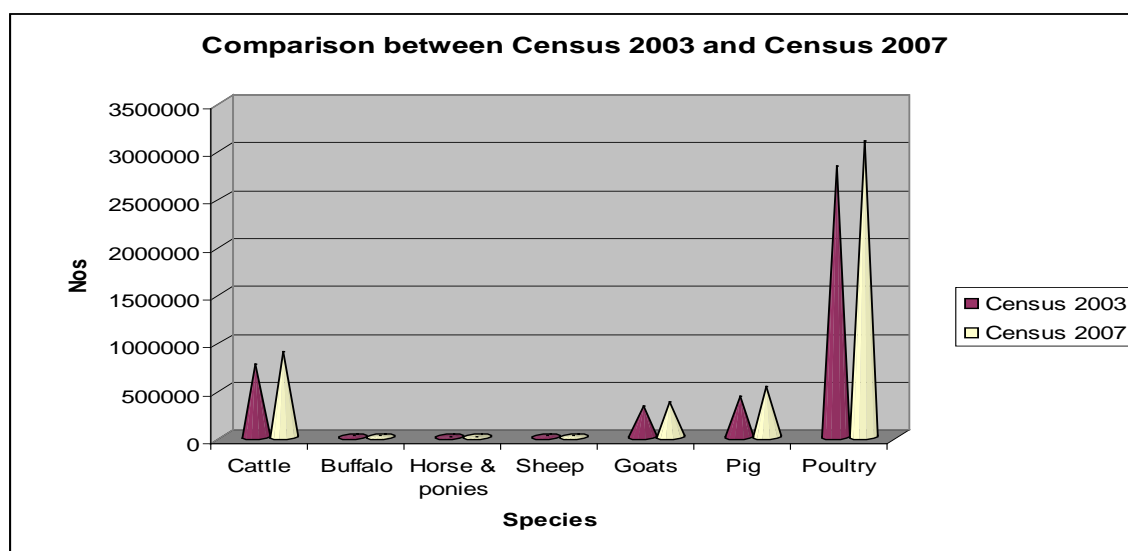
**Table 2.4: Poultry Population.**

SL No.	Name of Districts	Fowls			Ducks			Turkey	Other Poultry Birds like Guineas, Fowls etc.	Grand Total
		Desi	Improved	Total	Desi	Improved	Total			
1.	East Khasi Hills	417099	53292	470391	4492	370	4862	-	-	<b>629036</b>
2.	Ri – Bhoi	312519	27422	339941	2739	1771	4510	12	-	<b>344451</b>
3.	West Khasi Hills	457059	37166	494225	2727	1285	4012	-	-	<b>498237</b>
4.	Jaintia Hills	329824	37479	367303	5704	1832	7536	-	-	<b>374839</b>
5.	East Garo Hills	505718	88695	594413	4671	659	5330	-	-	<b>599743</b>
6.	West Garo Hills	565964	25131	591095	36037	1904	37941	-	-	<b>629036</b>
7.	South Garo Hills	164816	4313	169129	2032	155	2187	-	9	<b>171316</b>
	<b>State (Overall)</b>	<b>2752999</b>	<b>273498</b>	<b>3026497</b>	<b>58402</b>	<b>7976</b>	<b>66378</b>	<b>12</b>	<b>9</b>	<b>3092875</b>

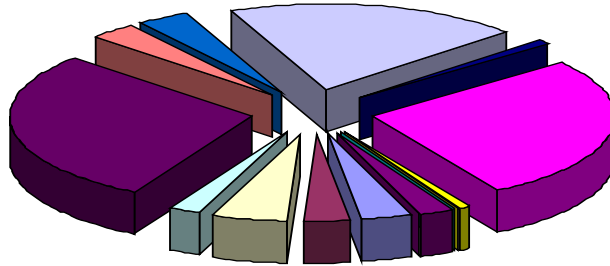


**TABLE – 2.5: LIVESTOCK POPULATION: (as per 2007 Census)  
and Growth Rate as compared to 2003 Census**

SI No	Species	Population (Numbers)			Total	Growth Rate (%)
1	Cattle	Crossbred	Male	2443	26848	16.40
			Female	24405		
		Indigenous	Male	374334	860395	
			Female	486061		
2	Buffalo	Indigenous	Male	13985	22627	25.60
			Female	8642		
3	Goat	Indigenous	Male	135341	365483	11.65
			Female	230142		
4	Pig	Exotic/Crossbred	Male	36802	70157	147.90
			Female	33355		
		Indigenous	Male	234437	454200	
			Female	219763		
5	Sheep	Exotic/Crossbred	Male	120	242	(-) 61.60
			Female	122		
		Indigenous	Male	7954	20799	
			Female	12845		
6	Poultry	Fowl	Improved	273498	3026497	100.28
			Desi	2752999		4.87
		Duck	Improved	7976	66378	138.95
			Desi	58402		4.44
		Others	Turkey	21	21	-
		7	Dog		224126	224126

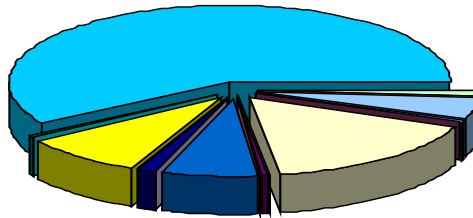


**Growth Rate of Census 2007 to 2003 (in %)**



- |                        |                     |                      |                   |
|------------------------|---------------------|----------------------|-------------------|
| ■ Crossbred Cattle     | ■ Indigenous Cattle | ■ Indigenous Buffalo | ■ Indigenous Goat |
| ■ Exotic/Crossbred Pig | ■ Indigenous Pig    | ■ Indigenous Sheep   | ■ Fowl (Improved) |
| ■ Fowl (Desi)          | ■ Duck (Improved)   | ■ Duck (Desi)        | ■ Turkey          |
| ■ Dog                  |                     |                      |                   |

**Growth rate of Census 2007 compared to Census 2003 ( in Nos)**



- |                          |                        |                      |
|--------------------------|------------------------|----------------------|
| ■ Crossbred Cattle       | ■ Indigenous Cattle    | ■ Indigenous Buffalo |
| ■ Indigenous Goat        | ■ Exotic/Crossbred Pig | ■ Indigenous Pig     |
| ■ Exotic/Crossbred Sheep | ■ Indigenous Sheep     | ■ Fowl               |
| ■ Duck                   | ■ Dog                  |                      |



## 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 2010-11	Estimate Current Year 2011-12	% of Increase or Decrease over previous Year
I	<b>Milk</b>				
	<b>Indigenous Cows</b>				
	<b>Population</b>				
A	In Milk	00 No.	1057	1065	(+)0.76%
B	Milch	00 No.	2350	2364	(+)0.60 %
	<b>Yield per Day</b>				
C	In Milk	Kgs.	0.758	0.760	(+) 0.26%
D	Milch	Kgs.	0.341	0.342	(+) 0.29 %
E	Production	000 tonnes	29.25	29.54	(+) 0.99%
	<b>Crossbred Cows</b>				
	<b>Population</b>				
F	In Milk	00 Nos.	146	147	(+) 0.68%
G	Milch	00 Nos.	179	180	(+) 0.56%
	<b>Yield per day</b>				
H	In Milk	Kgs.	8.983	8.960	(-) 0.26 %
I	Milch	Kgs.	7.339	7.329	(+) 0.14%
J	Production	000 tonnes	47.87	48.11	(+) 0.50%

**Table 3.11 – contd.**

Sl No.	Items	Unit	Estimates Previous Year 2010-11	Estimate Current Year 2011-12	% of Increase or Decrease over previous Year
	<b>Buffalo Population</b>				
K	In Milk	00 No.	30	30	=
L	Milch	00 No.	57	58	(+)1.75%
	<b>Yield per Day</b>				
M	In Milk	Kgs.	1.846	1.843	(-) 0.16%
N	Milch	Kgs.	0.964	0.962	(-) 0.21%
O	Production	000 tonnes	2.013	2.023	(+) 0.50%
	<b>Goat Production</b>				
P	In Milk	00 No.			
Q	Milch	00 No.			
	<b>Yield per Day</b>				
R	In Milk	Kgs.			
S	Milch	Kgs.			
T	Production	000 tonnes			
	<b>Total Milk Production</b>	000 tonnes	79.13	79.67	(+)0.68%
II	<b>Egg Production</b>				
	<b>Layers</b>				
U	Desi	00 No.	8395	8398	(+)0.04%
V	Improved	00 No.	677	680	(+) 0.44%
W	<b>Total</b>	00 No.	9072	9078	(+) 0.07%
	<b>Yield per layer per year</b>				
X	Desi	No.	103	104	(+) 0.97%
Y	Improved	No.	217	217	=
	<b>Production</b>				
Z	Desi	Lakhs Nos.	864.76	872.84	(+) 0.93%
Aa	Improved	“	146.65	147.81	(+) 0.79%
Ab	<b>Total</b>	“	1011.41	1020.65	(+) 0.91%

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

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Over-all)
1. (a)	Total No. of District in the State.	7	7	7	7
1. (b)	Strata formed for District levels Estimates.				
2. (a)	Total No. of Villages in the State (inhabited)	5780	5780	5780	5780
2. (b)	No. of villages covered for detailed study.	35	35	35	35
2. ©	No. of villages covered for detailed study.				
	i) for Milk	35	35	35	35
	ii) for Egg	35	35	35	35
3.(a)	Total No. of households in the State. (2001 Census) Lakhs Nos.	4.20	4.20	4.20	4.20
3. (b)	Percentage of Households keeping :-				
	i) Bovine	46.29	41.06	44.94	44.19
	ii) Poultry	79.76	80.36	80.86	80.21
	iii) Sheep	1.39	1.47	0.98	1.32
	iv) Goat	26.37	20.60	21.61	23.32
	v) Pig	57.38	61.11	66.78	60.76
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)	826	560	761	2147
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	713	723	742	2178
	ii) Buffalo in Milk.	52	63	75	190
	iii) Goat in Milk.				
5. (a)	No. of Households observed for egg production.	713	776	769	2258
5. (b)	No. of Layers observed.				
	i) Desi & Improved	3536	3132	2508	9176
	.				

**Table 3.12 – Contd.**

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered. '000' Nos.				
	i) Cattle	83.33	85.21	84.55	253.09
	ii) Buffalo	1.37	1.86	1.49	4.72
	iii) Sheep & Goat	39.05	42.75	38.63	120.43
	iv) Pig	80.39	74.35	83.43	238.17
	v) Poultry	1235.4	1279.58	1281.2	3796.18

**Table 3.13: District-wise Number of Villages selected for complete enumeration during the year 2011-12.**

Sl. No.	Name of District	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	43	43	43	129
2.	Ri – Bhoi	27	27	27	81
3.	West Khasi Hills	40	40	40	120
4.	Jaintia Hills	23	23	23	69
5.	East Garo Hills	42	42	42	126
6.	West Garo Hills	76	76	76	228
7.	South Garo Hills	25	25	25	75
	<b>State (Overall)</b>	276	276	276	828

## Chapter – 4

### District-wise & Season-wise Estimates.

#### Milk Production.

2011-2012

**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	4194	4280	4237	4237
2.	Ri – Bhoi	7429	7361	7498	7429
3.	West Khasi Hills	16272	16468	16272	16337
4.	Jaintia Hills	15288	15444	15444	15392
5.	East Garo Hills	24105	24435	24105	24215
6.	West Garo Hills	33222	34133	33677	33677
7.	South Garo Hills	5224	5224	5295	5248
	<b>State (Overall)</b>	<b>105734</b>	<b>107345</b>	<b>106528</b>	<b>106535</b>

**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	4972	4965	5008	4982
2.	Ri – Bhoi	11168	11376	10960	11168
3.	West Khasi Hills	23238	23689	22914	23281
4.	Jaintia Hills	26488	27005	25995	26496
5.	East Garo Hills	25537	25667	21860	24355
6.	West Garo Hills	34727	34517	35673	34973
7.	South Garo Hills	4672	4779	4495	4648
	<b>State (Overall)</b>	<b>130802</b>	<b>131998</b>	<b>126905</b>	<b>129903</b>



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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	9166	9245	9245	9219
2.	Ri – Bhoi	18597	18737	18458	18597
3.	West Khasi Hills	39510	40157	39186	39618
4.	Jaintia Hills	41776	42449	41439	41888
5.	East Garo Hills	49642	50102	45965	48570
6.	West Garo Hills	67949	68650	69350	68650
7.	South Garo Hills	9896	10003	9790	9896
	<b>State (Overall)</b>	<b>236536</b>	<b>239343</b>	<b>233433</b>	<b>236438</b>

**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	6124	6172	6075	6124
2.	Ri – Bhoi	6148	6104	6191	6148
3.	West Khasi Hills	331	331	334	332
4.	Jaintia Hills	812	825	818	818
5.	East Garo Hills	37	38	38	38
6.	West Garo Hills	1206	1206	1214	1209
7.	South Garo Hills	40	41	41	41
	<b>State (Overall)</b>	<b>14698</b>	<b>14717</b>	<b>14711</b>	<b>14710</b>

**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	869	954	985	936
2.	Ri – Bhoi	1223	1267	1126	1205
3.	West Khasi Hills	59	62	62	61
4.	Jaintia Hills	108	95	102	102
5.	East Garo Hills	9	9	9	9
6.	West Garo Hills	935	948	940	941
7.	South Garo Hills	19	19	19	19
	<b>State (Overall)</b>	<b>3222</b>	<b>3354</b>	<b>3243</b>	<b>3273</b>

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6993	7126	7060	7060
2.	Ri – Bhoi	7371	7371	7317	7353
3.	West Khasi Hills	390	393	396	393
4.	Jaintia Hills	920	920	920	920
5.	East Garo Hills	46	47	47	47
6.	West Garo Hills	2141	2154	2154	2150
7.	South Garo Hills	59	60	60	60
	<b>State (Overall)</b>	<b>17920</b>	<b>18071</b>	<b>17954</b>	<b>17983</b>

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

Sl. No.	Name of Districts	In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	-	-	-	-
2.	Ri – Bhoi	699	694	699	697
3.	West Khasi Hills	402	405	398	402
4.	Jaintia Hills	298	298	295	297
5.	East Garo Hills	298	295	295	296
6.	West Garo Hills	1286	1300	1300	1295
7.	South Garo Hills	20	20	21	20
	<b>State (Overall)</b>	<b>3003</b>	<b>3012</b>	<b>3008</b>	<b>3007</b>

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

Sl. No.	Name of Districts	Dry			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	-	-	-	-
2.	Ri – Bhoi	619	634	629	628
3.	West Khasi Hills	415	417	424	418
4.	Jaintia Hills	212	216	224	217
5.	East Garo Hills	185	192	192	190
6.	West Garo Hills	1276	1309	1309	1298
7.	South Garo Hills	3	3	2	3
	<b>State (Overall)</b>	<b>2710</b>	<b>2771</b>	<b>2780</b>	<b>2754</b>

**Table 4.3 ©: Estimated Number of Productive Buffaloes.**

Sl. No.	Name of Districts	Milch			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	-	-	-	-
2.	Ri – Bhoi	1318	1328	1328	1325
3.	West Khasi Hills	817	822	822	820
4.	Jaintia Hills	510	514	519	514
5.	East Garo Hills	483	487	487	486
6.	West Garo Hills	2562	2609	2609	2593
7.	South Garo Hills	23	23	23	23
	<b>State (Overall)</b>	<b>5713</b>	<b>5783</b>	<b>5788</b>	<b>5761</b>

**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	0.835	0.855	0.830	0.840
2.	Ri – Bhoi	1.065	1.110	1.115	1.097
3.	West Khasi Hills	0.840	0.845	0.825	0.837
4.	Jaintia Hills	0.725	0.770	0.720	0.739
5.	East Garo Hills	0.660	0.675	0.650	0.662
6.	West Garo Hills	0.725	0.755	0.715	0.732
7.	South Garo Hills	0.630	0.765	0.615	0.670
	<b>State (Overall)</b>	<b>0.751</b>	<b>0.782</b>	<b>0.746</b>	<b>0.760</b>

**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	0.382	0.396	0.380	0.386
2.	Ri – Bhoi	0.425	0.436	0.453	0.438
3.	West Khasi Hills	0.346	0.347	0.343	0.345
4.	Jaintia Hills	0.265	0.280	0.268	0.271
5.	East Garo Hills	0.320	0.329	0.341	0.330
6.	West Garo Hills	0.354	0.375	0.347	0.359
7.	South Garo Hills	0.333	0.400	0.333	0.355
	<b>State (Overall)</b>	<b>0.336</b>	<b>0.351</b>	<b>0.340</b>	<b>0.342</b>

**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	9.010	9.005	8.985
2.	Ri – Bhoi	9.050	9.120	9.130	9.099
3.	West Khasi Hills	8.350	8.480	8.220	8.350
4.	Jaintia Hills	8.930	8.990	8.920	8.951
5.	East Garo Hills	8.780	8.870	8.350	8.592
6.	West Garo Hills	8.430	8.510	8.130	8.355
7.	South Garo Hills	7.520	7.810	7.430	7.527
	<b>State (Overall)</b>	<b>8.926</b>	<b>8.998</b>	<b>8.957</b>	<b>8.960</b>

**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	7.829	7.804	7.749	7.794
2.	Ri – Bhoi	7.548	7.552	7.725	7.608
3.	West Khasi Hills	7.087	7.142	6.933	7.054
4.	Jaintia Hills	7.882	8.062	7.931	7.959
5.	East Garo Hills	7.062	7.171	6.751	6.947
6.	West Garo Hills	4.749	4.765	4.582	4.698
7.	South Garo Hills	5.098	5.337	5.077	5.143
	<b>State (Overall)</b>	<b>7.321</b>	<b>7.328</b>	<b>7.339</b>	<b>7.329</b>

**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	0	0	0	0
2.	Ri – Bhoi	1.860	1.890	1.790	1.848
3.	West Khasi Hills	1.885	1.885	1.860	1.875
4.	Jaintia Hills	1.830	1.855	1.815	1.834
5.	East Garo Hills	1.720	1.750	1.680	1.717
6.	West Garo Hills	1.845	1.890	1.860	1.866
7.	South Garo Hills	1.570	1.620	1.550	1.606
	<b>State (Overall)</b>	<b>1.838</b>	<b>1.870</b>	<b>1.820</b>	<b>1.843</b>

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

Sl. No.	Name of Districts	Milch			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0	0	0	0
2.	Ri – Bhoi	0.986	0.988	0.942	0.972
3.	West Khasi Hills	0.928	0.929	0.901	0.919
4.	Jaintia Hills	1.069	1.075	1.032	1.060
5.	East Garo Hills	1.061	1.060	1.018	1.046
6.	West Garo Hills	0.926	0.942	0.927	0.932
7.	South Garo Hills	1.365	1.409	1.415	1.396
	<b>State (Overall)</b>	0.966	0.974	0.946	0.962

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	427	450	422	1299
2.	Ri – Bhoi	965	1005	1003	2973
3.	West Khasi Hills	1668	1712	1611	4990
4.	Jaintia Hills	1352	1463	1334	4149
5.	East Garo Hills	1941	2029	1880	5850
6.	West Garo Hills	2938	3170	2889	8998
7.	South Garo Hills	402	492	391	1284
	<b>State (Overall)</b>	<b>9693</b>	<b>10319</b>	<b>9531</b>	<b>29544</b>

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6679	6840	6565	20084
2.	Ri – Bhoi	6788	6847	6783	20418
3.	West Khasi Hills	337	345	329	1012
4.	Jaintia Hills	885	912	876	2672
5.	East Garo Hills	40	41	38	119
6.	West Garo Hills	1240	1262	1184	3687
7.	South Garo Hills	37	39	37	113
	<b>State (Overall)</b>	<b>16006</b>	<b>16288</b>	<b>15812</b>	<b>48105</b>

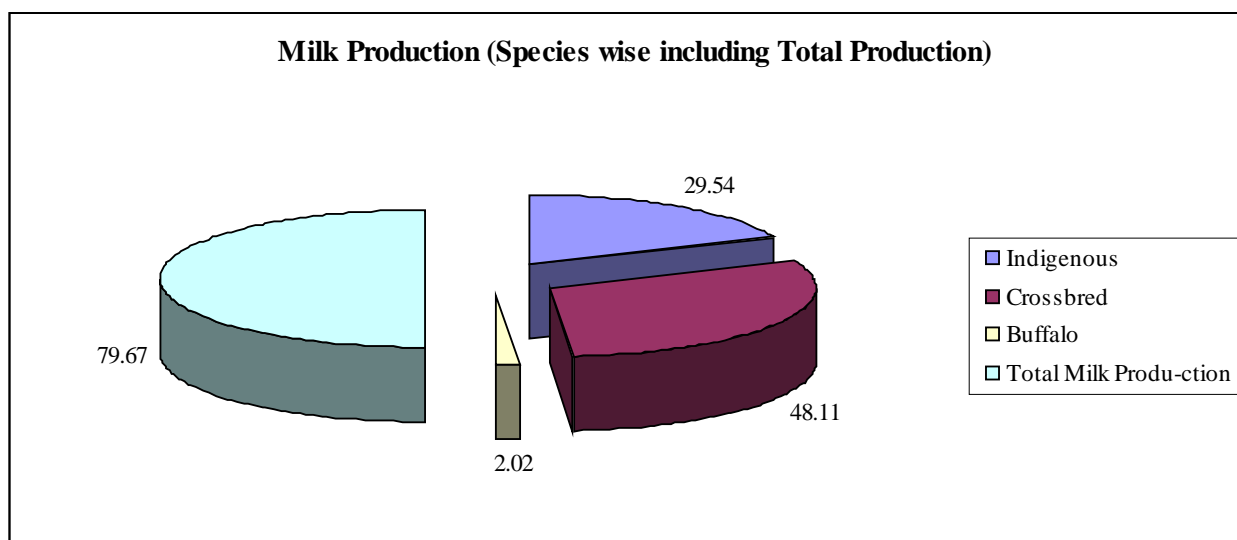
**Table 4.9: Milk Production- Buffaloes (Tonnes).**

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0	0	0	0
2.	Ri – Bhoi	159	161	150	470
3.	West Khasi Hills	92	94	89	275
4.	Jaintia Hills	67	68	64	199
	East Garo Hills	63	63	59	186
6.	West Garo Hills	289	302	290	882
7.	South Garo Hills	4	4	4	12
	<b>State (Overall)</b>	<b>673</b>	<b>693</b>	<b>657</b>	<b>2023</b>



**Table 4.10: Total Milk Production in the State. ('000' Tonnes).**

Sl. No.	Name of Districts	Cows Milk			Buffalo	Total Milk Production	Previous Years Production 2010-2011	% Increase or Decrease over 2010-11
		Indigenous	Crossbred	Total				
1.	East Khasi Hills	1.30	20.08	21.38	0.00	21.38	21.45	-0.33
2.	Ri – Bhoi	2.97	20.42	23.39	0.47	23.86	23.60	1.10
3.	West Khasi Hills	4.99	1.01	6.00	0.28	6.28	6.19	1.45
4.	Jaintia Hills	4.15	2.67	6.82	0.20	7.02	6.93	1.30
5.	East Garo Hills	5.85	0.12	5.97	0.19	6.15	6.14	0.16
6.	West Garo Hills	9.00	3.69	12.69	0.88	13.57	13.50	0.52
7.	South Garo Hills	1.28	0.11	1.40	0.01	1.41	1.32	6.82
	<b>State (Overall)</b>	<b>29.54</b>	<b>48.11</b>	<b>77.65</b>	<b>2.02</b>	<b>79.67</b>	<b>79.13</b>	<b>0.68</b>



**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

**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	
2011-2012	8.960	0.760	1.843	7.329	0.342	0.962

**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

**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	
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

**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

**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			
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%

## Chapter – 5

### District-wise & Season-wise Estimates.

#### Egg Production

**Table 5.1 (a): District-wise and Season-Wise Estimated No. of Poultry (Fowls), 2011-12  
Layers – '00 Numbers.**

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<b><u>Desi</u></b>								
Summer	1071	813	1180	1045	1080	2397	560	8147
Monsoon	1082	828	1198	1065	1071	2417	565	8225
Winter	1061	836	1180	1055	985	2378	560	8054
<b>Overall</b>	1071	826	1186	1055	1045	2397	562	8142
<b><u>Improved</u></b>								
Summer	205	147	28	194	34	49	2	660
Monsoon	207	150	29	196	34	50	2	669
Winter	209	149	28	194	33	50	2	665
<b>Overall</b>	207	149	28	195	34	50	2	664
<b><u>Total</u></b>								
Summer	1276	960	1208	1239	1114	2446	562	8807
Monsoon	1289	978	1227	1261	1105	2467	567	8894
Winter	1270	985	1208	1249	1018	2428	562	8719
<b>Overall</b>	<b>1278</b>	<b>975</b>	<b>1214</b>	<b>1250</b>	<b>1079</b>	<b>2447</b>	<b>564</b>	<b>8806</b>

**Table 5.1(b): District-wise and Season-wise Estimated No. of Poultry (Ducks) 2011-12.  
Layers – '00 Numbers.**

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<b><u>Desi</u></b>								
Summer	21	10	10	19	7	172	16	255
Monsoon	21	10	10	20	7	174	16	258
Winter	21	10	10	19	6	172	16	255
<b>Overall</b>	21	10	10	19	7	173	16	256
<b><u>Improved</u></b>								
Summer	1	6	0	9	0	1	0	17
Monsoon	1	6	0	9	0	1	0	17
Winter	1	6	0	8	0	1	0	16
<b>Overall</b>	1	6	0	9	0	1	0	17
<b><u>Total</u></b>								
Summer	22	16	10	28	7	174	16	273
Monsoon	22	16	10	29	7	175	16	275
Winter	22	16	10	27	6	173	16	271
<b>Overall</b>	22	16	10	28	7	174	16	273

**Table 5.2 (a): District-wise and Season-Wise Estimated Yield per Layer (Fowls) 2011-12**

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<b><u>Desi</u></b>								
Summer	35	36	35	35	34	36	31	35
Monsoon	35	36	36	35	36	34	34	35
Winter	34	34	34	35	34	34	31	34
<b>Overall</b>	<b>104</b>	<b>106</b>	<b>105</b>	<b>105</b>	<b>104</b>	<b>104</b>	<b>96</b>	<b>104</b>
<b><u>Improved</u></b>								
Summer	73	75	67	72	65	67	62	72
Monsoon	75	76	69	72	65	68	62	73
Winter	74	75	68	71	64	67	60	72
<b>Overall</b>	<b>222</b>	<b>226</b>	<b>204</b>	<b>215</b>	<b>194</b>	<b>202</b>	<b>184</b>	<b>217</b>
<b><u>Total</u></b>								
Summer	41	42	36	41	35	37	31	38
Monsoon	41	42	37	41	37	35	34	38
Winter	41	40	35	41	35	35	31	37
<b>Overall</b>	<b>123</b>	<b>124</b>	<b>107</b>	<b>122</b>	<b>107</b>	<b>106</b>	<b>96</b>	<b>112</b>

**Table 5.2(b): District-wise and Season-wise Estimated Yield per Layer (Ducks) 2011-12.**

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<b><u>Desi</u></b>								
Summer	33	35	33	33	33	36	32	35
Monsoon	33	35	33	34	33	36	30	35
Winter	35	35	34	35	34	34	31	34
<b>Overall</b>	<b>101</b>	<b>105</b>	<b>100</b>	<b>102</b>	<b>100</b>	<b>106</b>	<b>93</b>	<b>104</b>
<b><u>Improved</u></b>								
Summer	73	73		72		67		72
Monsoon	74	74		73		67		73
Winter	73	74		71		69		72
<b>Overall</b>	<b>220</b>	<b>221</b>		<b>216</b>		<b>203</b>		<b>217</b>
<b><u>Total</u></b>								
Summer	35	49	33	45	33	36	32	37
Monsoon	35	50	33	46	33	36	30	37
Winter	37	49	34	46	34	34	31	36
<b>Overall</b>	<b>108</b>	<b>148</b>	<b>100</b>	<b>137</b>	<b>100</b>	<b>107</b>	<b>93</b>	<b>111</b>

**Table 5.3(a): District-wise and Season-Wise Estimated Egg Production (Fowls) 2011-12. (In Lakhs).**

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<b><u>Desi</u></b>								
Summer	37.49	29.27	41.29	36.57	36.73	86.30	17.37	285.02
Monsoon	37.86	29.82	43.12	37.26	38.55	82.18	19.22	288.00
Winter	36.06	28.42	40.11	36.92	33.48	80.84	17.37	273.19
<b>Overall</b>	<b>111.41</b>	<b>87.51</b>	<b>124.52</b>	<b>110.75</b>	<b>108.76</b>	<b>249.32</b>	<b>53.96</b>	<b>846.21</b>
<b><u>Improved</u></b>								
Summer	14.94	11.05	1.87	14.00	2.22	3.31	0.11	47.52
Monsoon	15.51	11.42	1.97	14.13	2.24	3.42	0.11	48.81
Winter	15.46	11.16	1.90	13.81	2.10	3.34	0.11	47.89
<b>Overall</b>	<b>45.91</b>	<b>33.63</b>	<b>5.74</b>	<b>41.94</b>	<b>6.56</b>	<b>10.07</b>	<b>0.33</b>	<b>144.22</b>
<b><u>Total</u></b>								
Summer	52.43	40.32	43.16	50.57	38.95	89.61	17.48	332.54
Monsoon	53.37	41.24	45.09	51.39	40.79	85.60	19.33	336.81
Winter	51.52	39.58	42.01	50.73	35.58	84.18	17.48	321.08
<b>Overall</b>	<b>157.32</b>	<b>121.14</b>	<b>130.26</b>	<b>152.69</b>	<b>115.32</b>	<b>259.39</b>	<b>54.29</b>	<b>990.43</b>



**Table 5.3(b): District-wise and Season-wise Estimated Egg production (Ducks) 2011-12.  
(In Lakhs).**

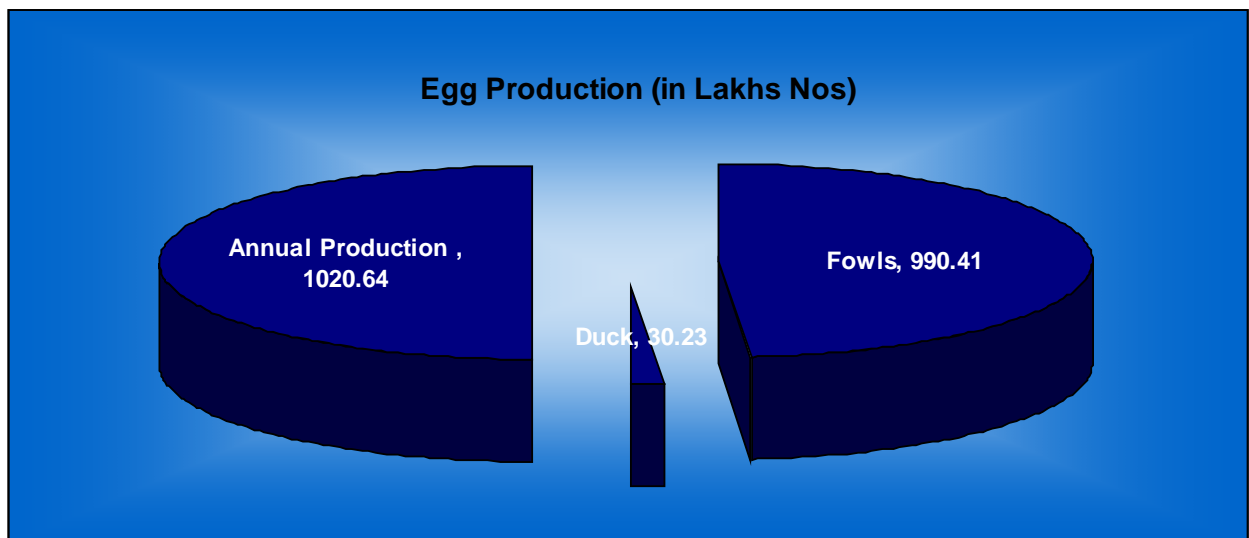
Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<b><u>Desi</u></b>								
Summer	0.68	0.34	0.34	0.64	0.23	6.19	0.52	8.94
Monsoon	0.69	0.34	0.34	0.67	0.23	6.25	0.49	9.01
Winter	0.74	0.34	0.35	0.68	0.21	5.85	0.51	8.68
<b>Overall</b>	<b>2.11</b>	<b>1.02</b>	<b>1.03</b>	<b>1.99</b>	<b>0.67</b>	<b>18.29</b>	<b>1.52</b>	<b>26.63</b>
<b><u>Improved</u></b>								
Summer	0.09	0.41	0.00	0.62	0.00	0.08	0.00	1.20
Monsoon	0.09	0.43	0.00	0.63	0.00	0.08	0.00	1.23
Winter	0.09	0.41	0.00	0.60	0.00	0.07	0.00	1.17
<b>Overall</b>	<b>0.27</b>	<b>1.25</b>	<b>0.00</b>	<b>1.85</b>	<b>0.00</b>	<b>0.23</b>	<b>0.00</b>	<b>3.60</b>
<b><u>Total</u></b>								
Summer	0.77	0.75	0.34	1.26	0.23	6.27	0.52	10.14
Monsoon	0.78	0.77	0.34	1.30	0.23	6.33	0.49	10.24
Winter	0.83	0.75	0.35	1.28	0.21	5.92	0.51	9.85
<b>Overall</b>	<b>2.38</b>	<b>2.27</b>	<b>1.03</b>	<b>3.84</b>	<b>0.67</b>	<b>18.52</b>	<b>1.52</b>	<b>30.23</b>

**Table 5.4 (a): Estimated Total Egg production. (Lakhs Numbers) 2011-12.**

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	52.43	0.77	53.37	0.78	51.52	0.82
2.	Ri – Bhoi	40.32	0.75	41.24	0.77	39.58	0.75
3.	West Khasi Hills	43.16	0.34	45.09	0.34	42.01	0.35
4.	Jaintia Hills	50.57	1.25	51.39	1.30	50.72	1.28
5.	East Garo Hills	38.95	0.23	40.79	0.23	35.58	0.21
6.	West Garo Hills	89.61	6.27	85.60	6.33	84.18	5.92
7.	South Garo Hills	17.49	0.52	19.34	0.49	17.48	0.51
	<b>State (Overall)</b>	<b>332.54</b>	<b>10.13</b>	<b>336.81</b>	<b>10.24</b>	<b>321.08</b>	<b>9.85</b>

**Table 5.4 (b) : Estimated Total Egg production. (Lakhs Numbers) 2011-12.**

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2011-12	Annual Production Previous Year 2010-11	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	157.32	2.38	159.70	157.24	1.56
2.	Ri – Bhoi	121.14	2.27	123.41	120.75	2.20
3.	West Khasi Hills	130.26	1.03	131.29	125.80	4.36
4.	Jaintia Hills	152.69	3.84	156.53	148.88	5.14
5.	East Garo Hills	115.32	0.67	115.99	119.13	-2.64
6.	West Garo Hills	259.39	18.52	277.91	281.77	-1.37
7.	South Garo Hills	54.29	1.52	55.81	57.84	-3.51
	<b>State (Overall)</b>	990.41	30.23	1020.64	1011.41	0.91



**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

**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%

## Chapter – 6

### SEASON WISE PERCENTAGE UTILISATION OF MILK AND EGGS IN SAMPLE HOUSEHOLD.

**Table 6.1: Utilisation of Milk.**

Season	Sold as fluid Milk	Converted into Milk products	Consumed as Fluid Milk in the Household	Total
Summer	96.53	1.48	1.99	100
Monsoon	95.75	2.09	2.16	100
Winter	94.02	2.49	3.49	100
<b>Overall</b>	95.49	2.01	2.50	<b>100</b>

**Table 6.2: Percentage Utilization of Produced Eggs.**

Season	Utilisation for Home consumption	Set for Hatching	Egg Sold	Damaged or Spoiled	Total
Summer	36.90	14.76	47.42	0.92	100
Monsoon	37.38	14.95	46.92	0.75	100
Winter	39.24	15.70	43.49	1.57	100
<b>Overall</b>	37.92	15.17	45.80	1.11	<b>100</b>

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

Sl No.	Category of Animals	SUMMER			MONSOON			WINTER		
		Only Grazed (%)	Only Stallfed (%)	Both	Only Grazed (%)	Only Stallfed (%)	Both	Only Grazed (%)	Only Stallfed (%)	Both
1	2	3	4	5	6	7	8	9	10	11
<b>1.1</b>	<b><u>CATTLE</u></b> <b>INDIGENOUS</b>									
	(a) In Milk	74.21	12.30	13.49	71.35	15.28	13.37	66.33	19.12	14.55
	(b) Dry & not Calved even once	81.31	11.56	7.13	82.49	9.52	7.99	75.64	10.44	13.92
	(c) Adult Male	80.92	-	19.08	87.87	-	12.13	79.17	-	20.83
	(d) Young Stock upto 3 Years old.	59.80	32.03	8.17	86.40	6.34	7.26	74.94	10.51	14.55
	<b>Overall :-</b>	<b>72.36</b>	<b>17.89</b>	<b>9.75</b>	<b>82.96</b>	<b>7.87</b>	<b>9.17</b>	<b>74.51</b>	<b>10.24</b>	<b>15.25</b>
<b>1.2</b>	<b>CROSS BRED</b>									
	(a) In Milk	14.50	68.83	16.67	15.57	70.77	13.66	11.94	70.74	17.32
	(b) Dry & not Calved even once	31.69	44.18	24.13	25.74	21.78	52.48	52.80	19.24	27.96
	(c) Adult Male	45.57	21.92	31.51	33.33	28.03	38.64	31.88	38.41	29.71
	(d) Young Stock upto 3 Years old.	28.23	51.02	20.75	25.41	46.41	28.18	39.93	31.34	28.73
	<b>Overall :-</b>	<b>26.24</b>	<b>52.33</b>	<b>21.43</b>	<b>22.59</b>	<b>48.13</b>	<b>29.28</b>	<b>30.45</b>	<b>46.04</b>	<b>23.51</b>
<b>2</b>	<b>BUFFALOES</b>									
	(a) In Milk	62.54	17.87	19.59	74.49	7.04	18.47	61.33	16.31	22.36
	(b) Dry & not Calved even once	64.28	14.29	21.43	58.00	21.20	20.80	58.39	19.25	22.36
	(c) Adult Male	66.64	6.63	28.73	67.41	6.67	25.92	56.17	21.28	22.55
	(d) Young Stock upto 3 Years old.	60.30	14.07	25.63	46.51	22.79	30.70	50.34	22.79	26.87
	<b>Overall :-</b>	<b>62.91</b>	<b>13.85</b>	<b>23.24</b>	<b>63.29</b>	<b>13.38</b>	<b>23.33</b>	<b>56.77</b>	<b>19.71</b>	<b>23.52</b>

**ANNEXURE - X**

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

Name of State : **Meghalaya**

Year : **2011-2012**

Sl. No	Category of Animals	Average Feed Consumption (in Kg.per animals/ per day)											
		Green Fodder				Dry Fodder				Concentrate			
		Summer	Rainy	Winter	Over-all	Summer	Rainy	Winter	Over-all	Summer	Rainy	Winter	Over-all
1	<b>Cattle Indigenous/Non Discript)</b>												
	(a) In Milk	2.40	2.80	1.20	1.97	1.40	1.60	1.60	0.70	1.20	1.25	1.35	1.28
	b) Dry & not Calved even once	2.00	2.40	1.00	1.65	0.35	0.60	0.51	0.45	-	-	-	-
	c) Adult Male	2.10	2.65	1.05	1.74	1.00	-	1.15	0.85	-	-	-	-
	d) Young Stock upto 3 years	1.05	1.30	0.60	0.95	-	-	0.40	0.12	-	-	-	-
	e) Overall (%)	41.71	33.09	25.20		25.72	26.73	47.55		22.41	29.18	48.41	
2	<b>Cattle (Exotic/ Cross-bred)</b>												
	a) In Milk	18.01	18.50	4.10	11.63	7.30	9.01	12.20	10.00	4.00	4.10	4.20	4.12
	b) Dry & not Calved even once	16.90	17.01	2.50	12.00	5.20	4.40	5.80	5.20	1.20	1.70	1.60	1.47
	c) Adult Male	17.50	17.50	2.80	11.92	6.20	5.50	7.20	6.34	8.15	-	-	2.24
	d) Young Stock upto 2 & 1/2 years	3.80	5.10	2.05	3.58	1.30	-	2.01	1.19	-	-	-	-
	e) Overall (%)	47.62	39.01	13.37		25.75	21.60	52.65		34.94	22.58	42.48	
3	<b>Buffalo</b>												
	(a) In Milk	4.00	4.10	1.30	2.98	1.00	1.20	1.60	1.29	0.70	0.80	0.80	0.77
	b) Dry & not Calved even once	3.30	3.60	1.10	2.49	-	-	-	-	-	-	-	-
	c) Adult Male	3.80	4.30	1.20	2.94	-	-	-	-	-	-	-	-
	d) Young Stock upto 3 years	1.30	1.40	0.60	1.02	-	-	-	-	-	-	-	-
	e) Overall (%)	35.32	46.39	18.29		24.44	26.27	48.29		29.95	29.45	40.60	

**Source : LPS- 1.2. Block-II**

**Table 6.5: Season wise Utilisation of Dung collected From Bovine at Sample Household 2011-12.**

Sl No.	Particulars	Unit	Summer	Monsoon	Winter	Over all
1.	Total No. of Sample animals observed for Dung Utilisation.	Nos.	2959	2532	2435	7926
2.	Average quantity of Dung collected per animal per day.	Kg	3.31	2.76	2.89	3.01
3.	Dung utilised for manure.	Percentage	95.45	96.91	95.02	95.75
4.	Dung utilised for Dung cake.	Percentage	2.81	2.14	2.89	2.64
5.	Dung utilised for other purpose.	Percentage	1.74	0.95	2.09	1.61

**Table 6.6: Per Capita availability of Milk and Egg.**

Items	Unit	Per Capita Availability
Milk	Grams / day	74
Eggs	Nos. / year	34



## Meat Production – 2011-12

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

Sl No.	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	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
	<b><u>Category of Animals Slaughter.</u></b> <b><u>SUMMER</u></b>										
(a)	Cattle.	44033	6612	9755	5642	4282	10190	2811	<b>83325</b>	<b>53869</b>	<b>29456</b>
(b)	Buffaloes.	127	111	0	547	80	502	0	<b>1367</b>	<b>1367</b>	
(c)	Pig	40697	6010	9013	8193	6161	6920	3396	<b>80390</b>	<b>71240</b>	<b>9150</b>
(d)	Sheep & Goat	19892	2788	1024	5612	3379	4623	1733	<b>39051</b>	<b>38267</b>	<b>784</b>
(e)	Poultry.	763454	71895	95170	112145	65561	107050	20126	<b>1235401</b>	<b>1221526</b>	<b>13875</b>
	<b><u>MONSOON</u></b>										
(a)	Cattle.	47537	5814	9486	6015	4185	9371	2804	<b>85212</b>	<b>53608</b>	<b>31604</b>
(b)	Buffaloes.	172	120	0	804	102	662	0	<b>1860</b>	<b>1860</b>	
(c)	Pig.	32949	5611	8781	7424	5274	10926	3386	<b>74351</b>	<b>63230</b>	<b>11121</b>
(d)	Sheep & Goat	20183	2792	1290	5745	3320	7330	2089	<b>42749</b>	<b>41999</b>	<b>750</b>
(e)	Poultry.	754826	95457	106005	141856	53590	109981	17863	<b>1279578</b>	<b>1265107</b>	<b>14471</b>
	<b><u>WINTER</u></b>										
(a)	Cattle.	45981	5454	9749	6078	4383	9658	3242	<b>84545</b>	<b>44544</b>	<b>40001</b>
(b)	Buffaloes.	132	86	0	676	68	532	0	<b>1494</b>	<b>1494</b>	
(c)	Pig.	40411	6384	9877	8481	5119	9689	3467	<b>83428</b>	<b>70787</b>	<b>12641</b>
(d)	Sheep & Goat	19682	2084	1143	4810	3004	6222	1680	<b>38625</b>	<b>37651</b>	<b>974</b>
(e)	Poultry.	764722	79582	100896	130912	55119	132445	17522	<b>1281198</b>	<b>1264189</b>	<b>17009</b>

**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	Jaintia Hills	East Garo Hills	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	137.55	17.88	28.99	17.74	12.85	29.22	8.86	<b>253.09</b>	152.03	<b>101.06</b>
2.	Buffaloes	0.43	0.32	0	2.03	0.25	1.7	0	<b>4.73</b>	4.73	<b>0</b>
3.	Pig	114.06	18.01	27.67	24.1	16.55	27.54	10.25	<b>238.18</b>	205.27	<b>32.91</b>
4.	Sheep & Goat	59.76	7.66	3.46	16.17	9.70	18.18	5.50	<b>120.43</b>	117.92	<b>2.51</b>
5.	Poultry	2283	246.93	302.07	384.91	174.27	349.48	55.51	<b>3796.17</b>	3750.81	<b>45.36</b>

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

Sl No.	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
1	2	3	4	5	6	7	8	9	10
	<b><u>Category of Animals Slaughter.</u></b>								
	<b><u>SUMMER</u></b>								
(a)	Cattle.	88.91	89.04	89.65	89.05	89.33	88.7	87.50	<b>88.96</b>
(b)	Buffaloes.	118.20	117.50	0	117.40	116.2	117.1	0	<b>117.3</b>
(c)	Pig	43.36	42.50	42.01	41.85	41.68	41.82	40.78	<b>42.62</b>
(d)	Sheep & Goat.	9.02	8.92	8.73	8.98	8.99	8.93	9.01	<b>8.99</b>
(e)	Poultry.	1.11	1.13	0.90	0.91	0.93	0.95	0.94	<b>1.05</b>
	<b><u>MONSOON</u></b>								
(a)	Cattle.	88.45	86.64	86.09	88.06	87.46	84.58	86.38	<b>87.49</b>
(b)	Buffaloes.	117.20	113.50	0	118.04	116.55	117.9	0	<b>117.54</b>
(c)	Pig	42.37	41.76	42.30	41.03	41.76	40.15	40.25	<b>41.72</b>
(d)	Sheep & Goat.	9.13	9.14	9.10	9.12	9.02	8.84	9.08	<b>9.07</b>
(e)	Poultry.	1.19	1.04	1.03	1.03	1.11	1.07	1.03	<b>1.13</b>
	<b><u>WINTER</u></b>								
(a)	Cattle.	89.80	86.83	86.08	86.63	87.5	89.38	86.77	<b>88.67</b>
(b)	Buffaloes.	118.30	115.50	0	116.05	116.0	114.21	115.1	<b>115.8</b>
(c)	Pig	43.90	42.70	42.00	41.30	42.01	41.66	40.69	<b>42.81</b>
(d)	Sheep & Goat.	9.06	9.15	9.10	8.95	8.82	8.93	8.72	<b>9</b>
(e)	Poultry.	1.15	1.05	0.98	1.03	0.94	0.95	0.96	<b>1.09</b>

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

Sl No.	Name of Districts	Cattle	Buffaloes	Pig	Sheep & Goat	Poultry
1	2	3	4	5	6	7
1.	East Khasi Hills	89.05	117.9	43.21	9.07	1.15
2.	Ri – Bhoi	87.50	115.5	42.1	9.07	1.07
3.	West Khasi Hills	87.27	0	41.39	8.98	0.97
4.	Jaintia Hills	87.91	117.16	41.39	9.02	0.99
5.	East Garo Hills	88.1	115.65	41.82	8.94	0.99
6.	West Garo Hills	87.55	116.7	40.57	8.9	0.99
7.	South Garo Hills	86.88	0	42.41	8.94	0.98
	<b>State (Overall)</b>	<b>88.37</b>	<b>116.92</b>	<b>42.48</b>	<b>9.02</b>	<b>1.09</b>

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

Sl No.	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	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
	<b>SUMMER</b>										
1.	Cattle.	3915	589	875	502	383	904	246	<b>7414</b>	4794	2620
2.	Buffaloes	15	13	0	64	9	59	0	<b>160</b>	160	0
3.	Pig	1765	255	379	343	257	289	138	<b>3426</b>	3036	390
4.	Sheep &Goat.	179	25	9	50	30	41	16	<b>350</b>	343	7
5.	Poultry.	847	81	86	102	61	102	19	<b>1298</b>	1283	15
	<b>TOTAL</b>	<b>6721</b>	<b>963</b>	<b>1349</b>	<b>1061</b>	<b>740</b>	<b>1395</b>	<b>419</b>	<b>12648</b>	<b>9616</b>	<b>3032</b>
	<b>MONSOON</b>										
1.	Cattle.	4205	504	817	530	366	793	242	<b>7457</b>	4692	2765
2.	Buffaloes	20	14	0	95	12	78	0	<b>219</b>	219	0
3.	Pig	1396	234	371	305	220	439	136	<b>3101</b>	2637	464
4.	Sheep &Goat.	184	26	12	52	30	65	19	<b>388</b>	381	7
5.	Poultry.	898	99	109	146	59	118	18	<b>1447</b>	1431	16
	<b>TOTAL</b>	<b>6703</b>	<b>877</b>	<b>1309</b>	<b>1128</b>	<b>687</b>	<b>1493</b>	<b>415</b>	<b>12612</b>	<b>9360</b>	<b>3252</b>
	<b>WINTER</b>										
1.	Cattle.	4129	474	839	527	384	863	281	<b>7497</b>	3950	3547
2.	Buffaloes	16	10	0	78	8	61	0	<b>173</b>	173	0
3.	Pig	1774	273	415	350	215	404	141	<b>3572</b>	3031	541
4.	Sheep &Goat.	178	19	10	43	26	56	15	<b>347</b>	338	9
5.	Poultry.	879	84	99	135	52	126	17	<b>1392</b>	1373	19
	<b>TOTAL</b>	<b>6976</b>	<b>860</b>	<b>1363</b>	<b>1133</b>	<b>685</b>	<b>1510</b>	<b>454</b>	<b>12981</b>	<b>8865</b>	<b>4116</b>
	<b>OVERALL</b>	<b>20400</b>	<b>2700</b>	<b>4021</b>	<b>3322</b>	<b>2112</b>	<b>4398</b>	<b>1288</b>	<b>38241</b>	<b>27841</b>	<b>10400</b>

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

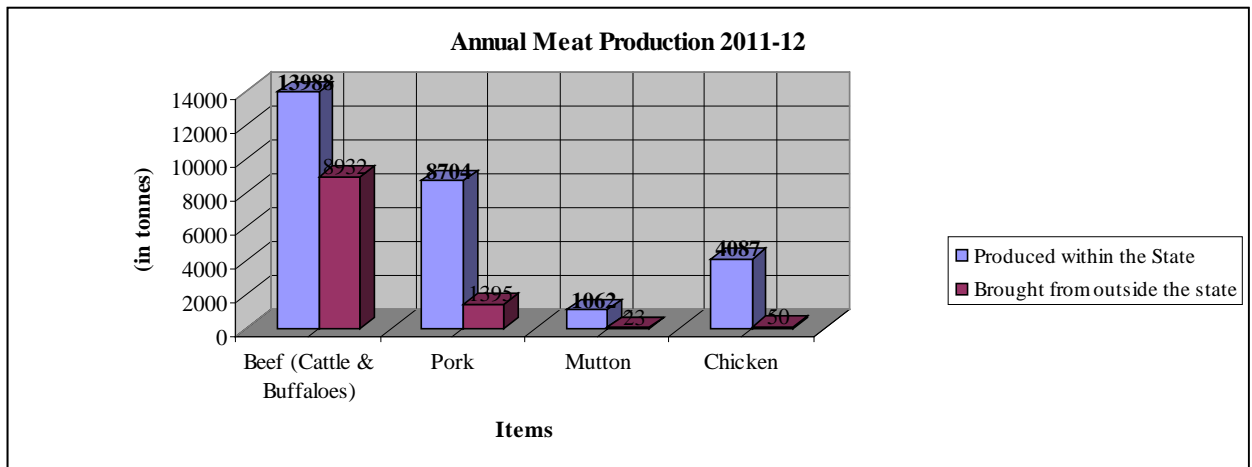
Sl No	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	Total	Source	
										Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12
1.	Cattle	12249	1567	2531	1559	1133	2560	769	<b>22368</b>	13436	8932
2.	Buffaloes	51	37	0	237	29	198	0	<b>552</b>	552	0
3.	Pig	4935	762	1165	998	692	1132	415	<b>10099</b>	8704	1395
4.	Sheep & Goat	541	70	31	145	86	162	50	<b>1085</b>	1062	23
5.	Poultry	2624	264	294	383	172	346	54	<b>4137</b>	4087	50
	<b>TOTAL</b>	<b>20400</b>	<b>2700</b>	<b>4021</b>	<b>3322</b>	<b>2112</b>	<b>4398</b>	<b>1288</b>	<b>38241</b>	<b>27841</b>	<b>10400</b>

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

Sl No.	Name of Districts	Meat Production Category Wise (Tonnes)						Annual Production 2011-12 (Col 5 – 8)	Percentage Contribution to Total Meat Production
		Cattle	Buffalo	Total Beef	Pork	Mutton	Chicken		
1	2	3	4	5	6	7	8	9	10
1.	East Khasi Hills	12249	51	12300	4935	541	2624	20400	53.35 %
2.	Ri – Bhoi	1567	37	1604	762	70	264	2700	7.06 %
3.	West Khasi Hills	2531	0	2531	1165	31	294	4021	10.51 %
4.	Jaintia Hills	1559	237	1796	998	145	383	3322	8.69 %
5.	East Garo Hills	1133	29	1162	692	86	172	2112	5.52 %
6.	West Garo Hills	2560	198	2758	1132	162	54	4106	10.74 %
7.	South Garo Hills	769	0	769	415	50	346	1580	4.13 %
	<b>State (Overall)</b>	<b>22368</b>	<b>552</b>	<b>22920</b>	<b>10099</b>	<b>1085</b>	<b>4137</b>	<b>38241</b>	100 %
	Percentage Contribution of each species to total production	<b>58.49%</b>	<b>1.44%</b>	<b>59.94%</b>	<b>26.41%</b>	<b>2.84%</b>	<b>10.82%</b>	<b>100%</b>	

**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 2009-10
		2011-12			2010-11			
		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		
1	Beef (Cattle & Buffaloes)	13988	8932	22920	13977	8790	22767	0.67%
2	Pork	8704	1395	10099	8901	1121	10022	0.77%
3	Mutton	1062	23	1085	1040	23	1063	2.07%
4	Chicken	4087	50	4137	3533	557	4090	1.15%
5	<b>Total</b>	<b>27841</b>	<b>10400</b>	<b>38241</b>	<b>27451</b>	<b>10491</b>	<b>37942</b>	<b>0.79%</b>



**7.9: Per Capita Availability of Meat per Day / Grams 2011-12**

Items	Per Capita Availability
Beef	21.19
Pork	9.33
Mutton	1.01
Chicken	3.82
<b>Total</b>	<b>35.35</b>

**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

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

Year	Number of Animals Slaughtered '000' Nos.				
	Cattle	Buffaloes	Pig	Sheep & Goat	Poultry
2011-12	253.09	4.72	238.17	120.43	3796.18

**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

**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
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	116.94	42.40	9.02	1.09

**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



**Table 7.12: Total Meat production from 1983-84.**

Year	Total Meat Production '000' Tonnes.				
	Cattle & Buffaloes	Pig	Sheep & Goat	Poultry	Total
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

**ANNEXURE – I****Comparative Analysis showing production estimate with effect from the year 1983-84 to 2009-10 and Target for the Year 2010-11.**

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

**ANNEXURE – I**

**Comparative Analysis showing production estimate with effect from the year 1983-84 to 2009-10  
and Target for the Year 2010-11.**

Year	Milk Production (‘000’ tonnes)	Meat Production (‘000’ tonnes)	Egg Production (Million Nos.)
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





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