



**Government of Meghalaya**

**REPORT ON INTEGRATED SAMPLE SURVEY  
FOR ESTIMATION OF PRODUCTION  
OF MILK, EGG AND MEAT  
YEAR: 2010-11**

**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 2010–2011 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 **1.17** % on Milk, **1.17** % on Egg and **1.64** % on Meat over 2009-10.

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.

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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 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. Percentage of Urban population is 19.63, and percentage of Literacy is 63.31. Table 1.2 below indicate 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 (1996-97 to 2000-2001)****Hectares.**

Sl. No.	Particulars	1996-97	1997-98	1998-99	1999-2000	2000-2001
1	2	3	4	5	6	7
	<b>Reporting Area for Land Utilisation Statistics.</b>	2240900	2240900	2240900	2240900	2240900
1.	Forest.	935334	933998	947000	941503	941823
2.	Not Available for Cultivation.	223695	226066	222495	224593	215484
3.	Other Uncultivated Land excluding Fallow Land.	632355	631466	621420	622440	630323
4.	Fallow Land.	284478	233782	228600	230622	231440
5.	Net Area Sown.	216418	215588	221385	221742	221830
6.	Area Sown more than once.	44066	44112	44445	4557	44986
	Total cropped Area.	260484	259700	265830	267319	266816

Source : Directorate of Economics & Statistics, Meghalaya.

**Table 1.4: Classification of Households possessing Bovine according to the size of the Unit during the Year 2010-11.**

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	4.08	26.53	22.45	20.40	8.17	2.04	16.33
2	Ri – Bhoi	2.99	13.43	35.82	31.34	2.99	7.46	5.97
3	West Khasi Hills	10.29	33.82	20.60	11.77	5.88	5.88	11.77
4	Jaintia Hills	1.97	29.41	19.61	19.61	13.73	7.84	7.84
5	East Garo Hills	2.08	25	20.83	22.92	6.25	8.33	14.58
6	West Garo Hills	-	3.25	4.88	12.20	17.08	13.00	49.60
7	South Garo Hills	-	-	7.70	7.70	15.38	15.38	53.85
	<b>State (Overall)</b>	<b>3.10</b>	<b>18.14</b>	<b>18.14</b>	<b>18.14</b>	<b>10.27</b>	<b>8.60</b>	<b>23.63</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>	28291	390689	418980	1551366	9298

**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>

## 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 2009-10	Estimate Current Year 2010-11	% of Increase or Decrease over previous Year
I	<b>Milk</b>				
	<b>Indigenous Cows</b>				
	<b>Population</b>				
A	In Milk	00 No.	1050	1057	(+)0.67 %
B	Milch	00 No.	2341	2350	(+)0.38 %
	<b>Yield per Day</b>				
C	In Milk	Kgs.	0.751	0.758	(+) 0.93%
D	Milch	Kgs.	0.337	0.341	(+) 1.19 %
E	Production	000 tonnes	28.758	29.25	(+) 1.71%
	<b>Crossbred Cows</b>				
	<b>Population</b>				
F	In Milk	00 Nos.	145	146	(+) 0.69%
G	Milch	00 Nos.	178	179	(+) 0.56%
	<b>Yield per day</b>				
H	In Milk	Kgs.	8.962	8.983	(+) 0.23 %
I	Milch	Kgs.	7.310	7.339	(+) 0.40%
J	Production	000 tonnes	47.44	47.87	(+) 0.91%

**Table 3.11 – contd.**

Sl No.	Items	Unit	Estimates Previous Year 2009-10	Estimate Current Year 2010-11	% of Increase or Decrease over previous Year
	<b>Buffalo Population</b>				
K	In Milk	00 No.	30	30	=
L	Milch	00 No.	57	57	=
	<b>Yield per Day</b>				
M	In Milk	Kgs.	1.855	1.846	(-) 0.49%
N	Milch	Kgs.	0.960	0.964	(+) 0.42%
O	Production	000 tonnes	2.014	2.013	(-) 0.05%
	<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	78.212	79.13	(+)1.17%
II	<b>Egg Production</b>				
	<b>Layers</b>				
U	Desi	00 No.	8370	8395	(+)0.30%
V	Improved	00 No.	675	677	(+) 0.30%
W	<b>Total</b>	00 No.	9045	9072	(+) 0.30%
	<b>Yield per layer per year</b>				
X	Desi	No.	102	103	(+) 0.98
Y	Improved	No.	216	217	(+) 0.46%
	<b>Production</b>				
Z	Desi	Lakhs Nos.	854.12	864.76	(+) 1.25%
Aa	Improved	“	145.58	146.65	(+) 0.73%
Ab	<b>Total</b>	“	999.7	1011.41	(+) 1.17%

**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	105
2. ©	No. of villages covered for detailed study.				
	i) for Milk	35	35	35	105
	ii) for Egg	35	35	35	105
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	46.05	40.05	43.32	43.51
	ii) Poultry	78.52	80.04	81.12	79.83
	iii) Sheep	1.59	1.48	0.96	1.34
	iv) Goat	25.42	21.59	22.28	23.31
	v) Pig	57.16	60.09	61.35	59.41
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)	817	551	751	2119
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	706	713	734	2153
	ii) Buffalo in Milk.	98	82	19	199
	iii) Goat in Milk.				
5. (a)	No. of Households observed for egg production.	708	793	748	2249
5. (b)	No. of Layers observed.				
	i) Desi & Improved	3262	3001	2767	9030
	.				



**Table 3.12 – Contd.**

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered.'000' Nos.				
	i) Cattle	82.96	85.31	83.21	251.48
	ii) Buffalo	1.24	1.78	1.44	4.46
	iii) Sheep & Goat	38.54	41.6	37.95	118.09
	iv) Pig	80.05	73.4	82.68	236.13
	v) Poultry	1235.99	1274.76	1288.62	3799.37

**Table 3.13: District-wise Number of Villages selected for complete enumeration during the year 2010-11.**

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.

2010-2011

**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	4152	4194	4194	4180
2.	Ri – Bhoi	7429	7429	7361	7406
3.	West Khasi Hills	16076	16272	16272	16207
4.	Jaintia Hills	15132	15444	15288	15288
5.	East Garo Hills	23774	24105	24105	23995
6.	West Garo Hills	33677	33677	33222	33525
7.	South Garo Hills	5081	5152	5152	5128
	<b>State (Overall)</b>	<b>105321</b>	<b>106273</b>	<b>105594</b>	<b>105729</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	4934	4972	4972	4959
2.	Ri – Bhoi	11029	11308	10537	10958
3.	West Khasi Hills	23110	24533	21618	23087
4.	Jaintia Hills	26307	28016	25477	26600
5.	East Garo Hills	25409	25997	22320	24575
6.	West Garo Hills	34973	34272	34027	34424
7.	South Garo Hills	4709	4744	4531	4662
	<b>State (Overall)</b>	<b>130471</b>	<b>133842</b>	<b>123482</b>	<b>129265</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	9086	9166	9166	9139
2.	Ri – Bhoi	18458	18737	17898	18364
3.	West Khasi Hills	39186	40805	37890	39294
4.	Jaintia Hills	41439	43460	40765	41888
5.	East Garo Hills	49183	50102	46425	48570
6.	West Garo Hills	68650	67949	67249	67949
7.	South Garo Hills	9790	9896	9683	9790
	<b>State (Overall)</b>	<b>235792</b>	<b>240115</b>	<b>229076</b>	<b>234994</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	6075	6124	6026	6075
2.	Ri – Bhoi	6060	6148	6104	6104
3.	West Khasi Hills	328	331	331	330
4.	Jaintia Hills	805	818	805	809
5.	East Garo Hills	36	37	37	37
6.	West Garo Hills	1199	1206	1206	1204
7.	South Garo Hills	39	40	39	39
	<b>State (Overall)</b>	<b>14542</b>	<b>14704</b>	<b>14548</b>	<b>14598</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	851	936	967	918
2.	Ri – Bhoi	1257	1223	1159	1213
3.	West Khasi Hills	62	62	55	60
4.	Jaintia Hills	108	102	115	109
5.	East Garo Hills	9	9	9	9
6.	West Garo Hills	942	948	935	941
7.	South Garo Hills	19	19	21	20
	<b>State (Overall)</b>	<b>3248</b>	<b>3299</b>	<b>3261</b>	<b>3270</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	6926	7060	6993	6993
2.	Ri – Bhoi	7317	7371	7263	7317
3.	West Khasi Hills	390	393	386	390
4.	Jaintia Hills	913	920	920	918
5.	East Garo Hills	45	46	46	46
6.	West Garo Hills	2141	2154	2141	2145
7.	South Garo Hills	58	59	60	59
	<b>State (Overall)</b>	<b>17790</b>	<b>18003</b>	<b>17809</b>	<b>17868</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	689	694	689	691
3.	West Khasi Hills	405	402	395	401
4.	Jaintia Hills	295	298	293	295
5.	East Garo Hills	295	298	293	295
6.	West Garo Hills	1286	1300	1273	1286
7.	South Garo Hills	19	19	20	19
	<b>State (Overall)</b>	<b>2989</b>	<b>3011</b>	<b>2963</b>	<b>2987</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	620	634	629	627
3.	West Khasi Hills	407	420	422	416
4.	Jaintia Hills	202	216	217	212
5.	East Garo Hills	181	192	187	187
6.	West Garo Hills	1252	1332	1289	1291
7.	South Garo Hills	3	3	2	3
	<b>State (Overall)</b>	<b>2665</b>	<b>2797</b>	<b>2746</b>	<b>2736</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	1309	1328	1318	1318
3.	West Khasi Hills	812	822	817	817
4.	Jaintia Hills	497	514	510	507
5.	East Garo Hills	476	490	480	482
6.	West Garo Hills	2538	2632	2562	2577
7.	South Garo Hills	22	22	22	22
	<b>State (Overall)</b>	<b>5654</b>	<b>5808</b>	<b>5709</b>	<b>5723</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	0.838	0.860	0.826	0.841
2.	Ri – Bhoi	1.092	1.140	1.035	1.090
3.	West Khasi Hills	0.840	0.850	0.800	0.830
4.	Jaintia Hills	0.720	0.780	0.700	0.734
5.	East Garo Hills	0.660	0.700	0.640	0.667
6.	West Garo Hills	0.720	0.760	0.720	0.734
7.	South Garo Hills	0.640	0.670	0.610	0.640
	<b>State (Overall)</b>	<b>0.752</b>	<b>0.789</b>	<b>0.732</b>	<b>0.758</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	0.383	0.394	0.378	0.385
2.	Ri – Bhoi	0.440	0.452	0.426	0.439
3.	West Khasi Hills	0.345	0.339	0.344	0.342
4.	Jaintia Hills	0.263	0.277	0.263	0.268
5.	East Garo Hills	0.319	0.337	0.332	0.329
6.	West Garo Hills	0.353	0.377	0.356	0.362
7.	South Garo Hills	0.332	0.349	0.325	0.335
	<b>State (Overall)</b>	<b>0.336</b>	<b>0.349</b>	<b>0.337</b>	<b>0.341</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	9.200	9.290	8.790	9.097
2.	Ri – Bhoi	9.080	9.300	8.800	9.063
3.	West Khasi Hills	8.240	8.580	8.170	8.332
4.	Jaintia Hills	8.940	9.000	8.810	8.922
5.	East Garo Hills	8.760	8.860	8.200	8.530
6.	West Garo Hills	8.450	8.520	7.880	8.284
7.	South Garo Hills	7.400	7.800	7.350	7.586
	<b>State (Overall)</b>	<b>9.046</b>	<b>9.194</b>	<b>8.700</b>	<b>8.983</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	8.070	8.058	7.575	7.903
2.	Ri – Bhoi	7.520	7.757	7.396	7.560
3.	West Khasi Hills	6.930	7.226	7.006	7.050
4.	Jaintia Hills	7.882	8.002	7.709	7.863
5.	East Garo Hills	7.008	7.127	6.596	6.861
6.	West Garo Hills	4.732	4.770	4.439	4.650
7.	South Garo Hills	4.976	5.288	4.778	5.014
	<b>State (Overall)</b>	<b>7.395</b>	<b>7.509</b>	<b>7.107</b>	<b>7.339</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	1.850	1.900	1.780	1.843
3.	West Khasi Hills	1.880	1.940	1.860	1.892
4.	Jaintia Hills	1.840	1.860	1.810	1.839
5.	East Garo Hills	1.730	1.760	1.670	1.723
6.	West Garo Hills	1.840	1.900	1.860	1.868
7.	South Garo Hills	1.580	1.610	1.540	1.604
	<b>State (Overall)</b>	<b>1.835</b>	<b>1.886</b>	<b>1.816</b>	<b>1.846</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	0.974	0.993	0.931	0.966
3.	West Khasi Hills	0.938	0.949	0.899	0.929
4.	Jaintia Hills	1.092	1.078	1.040	1.070
5.	East Garo Hills	1.072	1.070	1.019	1.054
6.	West Garo Hills	0.932	0.938	0.924	0.932
7.	South Garo Hills	1.365	1.390	1.400	1.385
	<b>State (Overall)</b>	<b>0.970</b>	<b>0.978</b>	<b>0.942</b>	<b>0.964</b>

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	424	444	416	1284
2.	Ri – Bhoi	990	1042	914	2946
3.	West Khasi Hills	1648	1701	1562	4911
4.	Jaintia Hills	1329	1482	1284	4095
5.	East Garo Hills	1914	2075	1852	5841
6.	West Garo Hills	2958	3148	2870	8976
7.	South Garo Hills	397	424	377	1198
	<b>State (Overall)</b>	<b>9660</b>	<b>10316</b>	<b>9275</b>	<b>29251</b>

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6819	6998	6356	20173
2.	Ri – Bhoi	6713	7033	6446	20192
3.	West Khasi Hills	330	349	325	1004
4.	Jaintia Hills	878	906	851	2635
5.	East Garo Hills	38	40	37	115
6.	West Garo Hills	1236	1264	1140	3640
7.	South Garo Hills	35	38	34	107
	<b>State (Overall)</b>	<b>16049</b>	<b>16628</b>	<b>15189</b>	<b>47866</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	156	162	147	465
3.	West Khasi Hills	93	96	88	277
4.	Jaintia Hills	66	68	64	198
	East Garo Hills	62	65	59	185
6.	West Garo Hills	289	304	284	877
7.	South Garo Hills	3	4	4	11
	<b>State (Overall)</b>	<b>669</b>	<b>698</b>	<b>646</b>	<b>2013</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 2009-2010	% Increase or Decrease over 2009-10
		Indigenous	Crossbred	Total				
1.	East Khasi Hills	1.28	20.17	21.45	-	21.45	21.19	(+)1.23%
2.	Ri – Bhoi	2.95	20.19	23.14	0.46	23.60	23.414	(+)0.79%
3.	West Khasi Hills	4.91	1.00	5.91	0.28	6.19	6.068	(+)2.01%
4.	Jaintia Hills	4.09	2.64	6.73	0.20	6.93	6.901	(+)0.42%
5.	East Garo Hills	5.84	0.12	5.96	0.18	6.14	6.003	(+)2.28%
6.	West Garo Hills	8.98	3.64	12.62	0.88	13.5	13.331	(+)1.27%
7.	South Garo Hills	1.20	0.11	1.31	0.01	1.32	1.307	(+)0.99%
	<b>State (Overall)</b>	<b>29.25</b>	<b>47.87</b>	<b>77.12</b>	<b>2.01</b>	<b>79.13</b>	<b>78.212</b>	<b>(+)1.17%</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 4.12: 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

**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%

## Chapter – 5

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

#### Egg Production

**Table 5.1 (a): District-wise and Season-Wise Estimated No. of Poultry (Fowls), 2010-11  
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	1061	821	1180	1045	1061	2397	555	8120
Monsoon	1071	828	1198	1055	1080	2378	575	8185
Winter	1040	813	1161	1035	1090	2417	565	8121
<b>Overall</b>	<b>1057</b>	<b>821</b>	<b>1180</b>	<b>1045</b>	<b>1077</b>	<b>2397</b>	<b>565</b>	<b>8142</b>
<b><u>Improved</u></b>								
Summer	203	146	27	193	34	49	2	654
Monsoon	209	149	28	194	34	50	2	666
Winter	207	147	28	195	34	50	2	663
<b>Overall</b>	<b>206</b>	<b>147</b>	<b>28</b>	<b>194</b>	<b>34</b>	<b>50</b>	<b>2</b>	<b>661</b>
<b><u>Total</u></b>								
Summer	1264	967	1207	1238	1095	2446	557	8774
Monsoon	1280	977	1226	1249	1114	2428	577	8851
Winter	1247	960	1189	1230	1124	2467	567	8784
<b>Overall</b>	<b>1263</b>	<b>968</b>	<b>1208</b>	<b>1239</b>	<b>1111</b>	<b>2447</b>	<b>567</b>	<b>8803</b>

**Table 5.1(b): District-wise and Season-wise Estimated No. of Poultry (Ducks) 2010-11.  
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	170	16	253
Monsoon	21	10	11	19	7	172	16	256
Winter	21	9	10	19	7	169	16	251
<b>Overall</b>	<b>21</b>	<b>10</b>	<b>10</b>	<b>19</b>	<b>7</b>	<b>170</b>	<b>16</b>	<b>253</b>
<b><u>Improved</u></b>								
Summer	1	6		8		1		16
Monsoon	1	6		9		1		17
Winter	1	6		8		1		16
<b>Overall</b>	<b>1</b>	<b>6</b>		<b>8</b>		<b>1</b>		<b>16</b>
<b><u>Total</u></b>								
Summer	22	16	10	27	7	171	16	269
Monsoon	22	16	11	28	7	173	16	273
Winter	22	15	10	27	7	170	16	267
<b>Overall</b>	<b>22</b>	<b>16</b>	<b>10</b>	<b>27</b>	<b>7</b>	<b>171</b>	<b>16</b>	<b>269</b>

**Table 5.2 (a): District-wise and Season-Wise Estimated Yield per Layer (Fowls) 2010-11**

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	34	34	33	33	36	35	33	34
Monsoon	35	35	35	34	34	36	34	35
Winter	34	35	33	32	34	35	32	34
<b>Overall</b>	<b>103</b>	<b>104</b>	<b>101</b>	<b>99</b>	<b>104</b>	<b>106</b>	<b>99</b>	<b>103</b>
<b><u>Improved</u></b>								
Summer	73	75	67	72	62	66	62	72
Monsoon	76	76	68	72	64	67	60	73
Winter	74	74	66	71	63	66	61	72
<b>Overall</b>	<b>223</b>	<b>225</b>	<b>201</b>	<b>215</b>	<b>189</b>	<b>199</b>	<b>183</b>	<b>217</b>
<b><u>Total</u></b>								
Summer	40	40	34	39	37	36	33	37
Monsoon	42	41	36	40	35	37	34	38
Winter	41	41	34	38	35	36	32	37
<b>Overall</b>	<b>41</b>	<b>41</b>	<b>34</b>	<b>39</b>	<b>36</b>	<b>36</b>	<b>33</b>	<b>112</b>



**Table 5.2(b): District-wise and Season-wise Estimated Yield per Layer (Ducks) 2010-11**

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	33	34	34	31	34
Monsoon	33	33	32	34	34	36	33	35
Winter	34	33	32	33	33	33	31	33
<b>Overall</b>	<b>102</b>	<b>102</b>	<b>99</b>	<b>100</b>	<b>101</b>	<b>103</b>	<b>95</b>	<b>102</b>
<b><u>Improved</u></b>								
Summer	74	74		71		67		72
Monsoon	75	76		73		68		74
Winter	73	74		70		66		71
<b>Overall</b>	<b>222</b>	<b>224</b>		<b>214</b>		<b>201</b>		<b>217</b>
<b><u>Total</u></b>								
Summer	37	50	35	45	34	34	31	36
Monsoon	35	49	32	46	34	36	33	37
Winter	36	48	32	44	33	33	31	35
<b>Overall</b>	<b>36</b>	<b>49</b>	<b>33</b>	<b>45</b>	<b>34</b>	<b>35</b>	<b>32</b>	<b>109</b>

**Table 5.3(a): District-wise and Season-Wise Estimated Egg Production (Fowls) 2010-11. (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	36.06	27.90	38.93	34.48	38.20	83.91	18.33	277.81
Monsoon	37.49	28.99	41.92	35.86	36.73	85.60	19.56	286.15
Winter	35.35	28.46	38.33	33.12	37.05	84.59	18.09	274.99
<b>Overall</b>	<b>108.90</b>	<b>85.35</b>	<b>119.18</b>	<b>103.46</b>	<b>111.98</b>	<b>254.10</b>	<b>55.98</b>	<b>838.95</b>
<b><u>Improved</u></b>								
Summer	14.79	10.95	1.83	13.87	2.10	3.26	0.11	46.91
Monsoon	15.88	11.31	1.90	14.00	2.21	3.34	0.11	48.75
Winter	15.30	10.91	1.87	13.81	2.15	3.29	0.11	47.44
<b>Overall</b>	<b>45.97</b>	<b>33.17</b>	<b>5.60</b>	<b>41.68</b>	<b>6.46</b>	<b>9.89</b>	<b>0.33</b>	<b>143.10</b>
<b><u>Total</u></b>								
Summer	50.85	38.85	40.76	48.35	40.30	87.17	18.44	324.72
Monsoon	53.37	40.30	43.82	49.86	38.94	88.94	19.68	334.90
Winter	50.65	39.37	40.20	46.93	39.20	87.88	18.20	322.43
<b>Overall</b>	<b>154.87</b>	<b>118.52</b>	<b>124.78</b>	<b>145.14</b>	<b>118.44</b>	<b>263.99</b>	<b>56.31</b>	<b>982.05</b>

**Table 5.3(b): District-wise and Season-wise Estimated Egg production (Ducks) 2010-11.  
(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	0.72	0.35	0.36	0.64	0.23	5.79	0.50	8.59
Monsoon	0.69	0.32	0.34	0.66	0.23	6.19	0.53	8.96
Winter	0.70	0.31	0.32	0.63	0.23	5.57	0.50	8.26
<b>Overall</b>	<b>2.11</b>	<b>0.98</b>	<b>1.02</b>	<b>1.93</b>	<b>0.69</b>	<b>17.55</b>	<b>1.53</b>	<b>25.81</b>
<b><u>Improved</u></b>								
Summer	0.09	0.41		0.60		0.08		1.18
Monsoon	0.09	0.43		0.62		0.08		1.22
Winter	0.08	0.41		0.59		0.07		1.15
<b>Overall</b>	<b>0.26</b>	<b>1.25</b>		<b>1.81</b>		<b>0.23</b>		<b>3.55</b>
<b><u>Total</u></b>								
Summer	0.81	0.76	0.36	1.24	0.23	5.87	0.50	9.77
Monsoon	0.78	0.75	0.34	1.28	0.23	6.27	0.53	10.18
Winter	0.78	0.72	0.32	1.22	0.23	5.64	0.50	9.41
<b>Overall</b>	<b>2.37</b>	<b>2.23</b>	<b>1.02</b>	<b>3.74</b>	<b>0.69</b>	<b>17.78</b>	<b>1.53</b>	<b>29.36</b>

**Table 5.4 (a): Estimated Total Egg production. (Lakhs Numbers) 2010-11.**

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	50.85	0.81	53.37	0.78	50.65	0.78
2.	Ri – Bhoi	38.85	0.76	40.30	0.75	39.37	0.72
3.	West Khasi Hills	40.76	0.36	43.82	0.34	40.20	0.32
4.	Jaintia Hills	48.35	1.24	49.86	1.28	46.93	1.22
5.	East Garo Hills	40.30	0.23	38.94	0.23	39.20	0.23
6.	West Garo Hills	87.17	5.87	88.94	6.27	87.88	5.64
7.	South Garo Hills	18.44	0.50	19.68	0.53	18.20	0.50
	<b>State (Overall)</b>	<b>324.72</b>	<b>9.77</b>	<b>334.90</b>	<b>10.18</b>	<b>322.43</b>	<b>9.41</b>

**Table 5.4 (b) : Estimated Total Egg production. (Lakhs Numbers) 2010-11.**

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2010-11	Annual Production Previous Year 2009-10	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	154.87	2.37	157.24	153.72	(+) 2.29%
2.	Ri – Bhoi	118.52	2.23	120.75	119.52	(+) 1.03%
3.	West Khasi Hills	124.78	1.02	125.80	123.40	(+) 1.94%
4.	Jaintia Hills	145.14	3.74	148.88	153.08	(-) 2.74%
5.	East Garo Hills	118.44	0.69	119.13	115.12	(+) 3.48%
6.	West Garo Hills	263.99	17.78	281.77	276.96	(+) 1.74%
7.	South Garo Hills	56.31	1.53	57.84	57.89	(-) 0.08%
	<b>State (Overall)</b>	<b>982.05</b>	<b>29.36</b>	<b>1011.41</b>	<b>999.69</b>	<b>(+) 1.17%</b>

**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

**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%

## 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	95.59	1.32	3.09	100
Monsoon	96.07	1.42	2.51	100
Winter	94.96	2.15	2.89	100
<b>Overall</b>	<b>95.67</b>	<b>1.53</b>	<b>2.80</b>	<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	36.22	15.75	47.24	0.79	100
Monsoon	37.15	13.93	47.99	0.93	100
Winter	39.32	16.93	41.67	2.08	100
<b>Overall</b>	<b>37.68</b>	<b>15.62</b>	<b>45.39</b>	<b>1.31</b>	<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.</b> <b>1.1</b>	<b><u>CATTLE</u></b> <b>INDIGENOUS</b>									
	(a) In Milk	76.86	11.04	12.10	74.21	13.83	11.96	67.97	18.50	1.35
	(b) Dry & not Calved even once	82.80	10.91	6.28	83.47	9.05	7.48	76.76	9.86	13.38
	(c) Adult Male	81.87	-	18.13	89.03	-	10.97	80.06	-	19.94
	(d) Young Stock upto 3 Years old.	82.24	7.60	10.16	87.54	5.80	6.66	75.98	10.06	13.96
	<b>Overall :-</b>	<b>81.74</b>	<b>8.42</b>	<b>9.83</b>	<b>84.37</b>	<b>7.26</b>	<b>8.37</b>	<b>75.68</b>	<b>9.75</b>	<b>14.57</b>
<b>1.2</b>	<b>CROSS BRED</b>									
	(a) In Milk	13.16	70.81	16.03	14.28	73.47	12.24	10.80	72.38	16.82
	(b) Dry & not Calved even once	30.06	45.10	24.84	24.86	21.08	54.05	54.34	18.11	27.54
	(c) Adult Male	45.69	20.69	33.62	32.77	27.73	39.49	31.25	39.06	29.69
	(d) Young Stock upto 3 Years old.	27.44	52.71	19.85	24.69	47.53	27.78	40.08	31.35	28.57
	<b>Overall :-</b>	<b>24.71</b>	<b>54.07</b>	<b>21.22</b>	<b>21.51</b>	<b>49.57</b>	<b>28.92</b>	<b>30.05</b>	<b>46.89</b>	<b>23.06</b>
<b>2</b>	<b>BUFFALOES</b>									
	(a) In Milk	66.13	14.34	19.52	76.37	6.47	17.15	65.99	13.47	20.54
	(b) Dry & not Calved even once	69.40	12.02	18.52	60.91	19.09	20.00	61.65	17.29	21.05
	(c) Adult Male	69.13	5.37	25.50	71.18	6.11	22.71	60.32	19.05	20.63
	(d) Young Stock upto 3 Years old.	64.62	12.24	23.13	48.78	21.95	29.27	54.55	20.66	24.79
	<b>Overall :-</b>	<b>67.26</b>	<b>11.51</b>	<b>21.23</b>	<b>66.48</b>	<b>12.15</b>	<b>21.37</b>	<b>60.97</b>	<b>17.30</b>	<b>21.73</b>

**ANNEXURE - X**

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

Name of State : **Meghalaya**

Year : **2010-2011**

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	2.32	2.70	1.15	1.89	1.40	1.50	0.60	1.06	1.10	1.15	1.30	1.21
	b) Dry & not Calved even once	1.90	2.30	0.80	1.50	0.25	0.50	0.48	0.42	-	-	-	-
	c) Adult Male	2.00	2.55	0.85	1.59	0.85	-	1.10	0.78	-	-	-	-
	d) Young Stock upto 3 years	0.95	1.24	0.40	0.83	-	-	0.35	0.10	-	-	-	-
	e) Overall (%)	42.77	34.70	22.53		25.09	26.69	48.22		21.58	28.60	49.82	
2	<b>Cattle (Exotic/ Cross-bred)</b>												
	a) In Milk	17.80	18.20	4.00	11.44	7.15	8.90	12.00	9.84	3.80	4.00	4.00	3.94
	b) Dry & not Calved even once	16.50	16.80	2.20	11.68	5.10	4.20	5.60	5.04	1.15	1.60	1.50	1.39
	c) Adult Male	17.10	17.30	2.30	8.05	6.10	5.30	7.10	4.33	8.10	-	-	1.54
	d) Young Stock upto 2 & 1/2 years	3.60	5.00	2.00	3.45	1.20	-	1.90	1.11	-	-	-	-
	e) Overall (%)	47.76	39.20	13.04		25.64	21.56	52.80		34.89	22.84	42.27	
3	<b>Buffalo</b>												
	(a) In Milk	3.90	4.00	1.20	2.88	0.90	1.10	1.53	1.20	0.60	0.70	0.70	0.65
	b) Dry & not Calved even once	3.20	3.50	1.00	2.39	-	-	-	-	-	-	-	-
	c) Adult Male	3.70	4.20	1.10	2.83	-	-	-	-	-	-	-	-
	d) Young Stock upto 3 years	1.20	1.30	0.50	0.92	-	-	-	-	-	-	-	-
	e) Overall (%)	36.00	47.00	17.00		24.57	25.80	49.63		29.98	30.04	39.98	

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



**Table 6.5: Season wise Utilisation of Dung collected From Bovine at Sample Household 2010-11.**

Sl No.	Particulars	Unit	Summer	Monsoon	Winter	Over all
1.	Total No. of Sample animals observed for Dung Utilisation.	No	4442	4946	4818	14206
2.	Average quantity of Dung collected per animal per day.	Kg	3.23	3.18	3.31	3.24
3.	Dung utilised for manure.	Percentage	95.87	97.13	95.86	96.29
4.	Dung utilised for Dung cake.	Percentage	2.42	2.03	2.39	2.28
5.	Dung utilised for other purpose.	Percentage	1.71	0.84	1.75	1.43

**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 – 2010-11

**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.	43903	6600	9707	5580	4192	10179	2799	<b>82960</b>	<b>46460</b>	<b>36500</b>
(b)	Buffaloes.	126	107		462	74	468		<b>1237</b>	<b>1237</b>	
(c)	Sheep & Goat	19750	2705	987	5581	3308	4609	1595	<b>38535</b>	<b>37757</b>	<b>778</b>
(d)	Pig	40637	6000	8973	8142	6017	6906	3377	<b>80052</b>	<b>70716</b>	<b>9336</b>
(e)	Poultry.	763315	72072	95509	112360	65561	107050	20126	<b>1235993</b>	<b>1056178</b>	<b>179815</b>
	<b><u>MONSOON</u></b>										
(a)	Cattle.	47809	5778	9466	5996	4165	9317	2780	<b>85311</b>	<b>51612</b>	<b>33699</b>
(b)	Buffaloes.	160	102		787	85	644		<b>1778</b>	<b>1778</b>	
(c)	Sheep & Goat	19834	2738	1228	5553	3221	7120	1907	<b>41601</b>	<b>40872</b>	<b>729</b>
(d)	Pig.	32785	5580	8534	7336	5294	10502	3369	<b>73400</b>	<b>64814</b>	<b>8586</b>
(e)	Poultry.	751464	95013	105533	141555	53490	110014	17689	<b>1274758</b>	<b>1102369</b>	<b>172389</b>
	<b><u>WINTER</u></b>										
(a)	Cattle.	45571	5315	9627	5788	4196	9586	3122	<b>83205</b>	<b>54066</b>	<b>29139</b>
(b)	Buffaloes.	126	82		660	56	520		<b>1444</b>	<b>1444</b>	
(c)	Sheep & Goat	19616	2006	1106	4699	2805	6112	1607	<b>37951</b>	<b>37003</b>	<b>948</b>
(d)	Pig.	40049	6313	9795	8359	5032	9692	3444	<b>82684</b>	<b>74178</b>	<b>8506</b>
(e)	Poultry.	761396	78972	100314	130680	67820	132061	17373	<b>1288616</b>	<b>1123073</b>	<b>165543</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	137.28	17.69	28.8	17.36	12.55	29.08	8.7	<b>251.46</b>	152.12	99.34
2.	Buffaloes	0.41	0.29		1.91	0.22	1.63		<b>4.46</b>	4.46	
3.	Pig	113.47	17.89	27.3	23.84	16.34	27.1	10.19	<b>236.13</b>	209.7	26.43
4.	Sheep & Goat	59.20	7.45	3.32	15.83	9.33	17.84	5.11	<b>118.08</b>	115.62	2.46
5.	Poultry	2276.18	246.06	301.36	384.6	186.87	349.13	55.19	<b>3799.39</b>	3281.64	517.75

**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. SUMMER</u></b>								
(a)	Cattle.	89.62	89.10	89.75	89.15	89.54	88.58	87.11	<b>89.35</b>
(b)	Buffaloes.	119.00	117.00		118.46	115.0	118.0		<b>118.01</b>
(c)	Sheep & Goat.	8.91	8.88	8.85	8.93	9.02	8.92	9.22	<b>8.93</b>
(d)	Pig	43.57	42.27	41.99	41.58	41.55	41.71	40.13	<b>42.64</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.	88.20	86.04	86.25	88.02	87.69	84.32	86.43	<b>87.32</b>
(b)	Buffaloes.	117.00	113.0		119.0	117.0	118.0		<b>118.02</b>
(c)	Sheep & Goat.	9.12	9.12	9.00	9.13	9.00	8.83	9.08	<b>9.06</b>
(d)	Pig	42.33	41.83	42.26	40.90	41.72	40.09	40.20	<b>41.68</b>
(e)	Poultry.	1.16	1.06	1.02	1.04	1.10	1.08	1.04	<b>1.12</b>
	<b><u>WINTER</u></b>								
(a)	Cattle.	89.93	86.75	85.82	86.70	87.35	89.42	86.96	<b>88.73</b>
(b)	Buffaloes.	119.0	115.0		116.01	116.0	114.0	115.0	<b>115.77</b>
(c)	Sheep & Goat.	9.04	9.13	9.07	8.90	8.77	8.95	8.70	<b>8.98</b>
(d)	Pig	44.25	42.60	42.0	41.19	41.80	41.55	40.39	<b>42.92</b>
(e)	Poultry.	1.12	1.02	0.98	1.01	0.93	0.94	0.96	<b>1.06</b>

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

Sl No.	Name of Districts	Cattle	Buffaloes	Sheep & Goat	Pig	Poultry
1	2	3	4	5	6	7
1.	East Khasi Hills	89.25	118.33	9.02	43.38	1.13
2.	Ri – Bhoi	87.30	115.0	9.04	42.08	1.07
3.	West Khasi Hills	87.27		8.97	41.22	0.97
4.	Jaintia Hills	87.96	117.82	8.99	41.22	0.99
5.	East Garo Hills	88.19	115.33	8.93	41.69	0.99
6.	West Garo Hills	87.44	117.0	8.9	40.24	0.99
7.	South Garo Hills	86.83		9.0	42.44	0.98
	<b>State (Overall)</b>	<b>88.46</b>	<b>117.29</b>	<b>8.99</b>	<b>42.48</b>	<b>1.08</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><u>SUMMER</u></b>										
1.	Cattle.	3935	588	871	497	375	902	244	<b>7412</b>	4151	3261
2.	Buffaloes	15	13		55	9	55		<b>147</b>	147	
3.	Sheep & Goat.	176	24	9	50	30	41	15	<b>345</b>	338	7
4.	Pig	1771	254	377	339	250	288	136	<b>3415</b>	3017	398
5.	Poultry.	847	81	86	102	61	102	19	<b>1298</b>	1109	189
	<b>TOTAL</b>	<b>6744</b>	<b>960</b>	<b>1343</b>	<b>1043</b>	<b>725</b>	<b>1388</b>	<b>414</b>	<b>12617</b>	8762	3855
	<b><u>MONSOON</u></b>										
1.	Cattle.	4217	497	816	528	365	786	240	<b>7449</b>	4506	2943
2.	Buffaloes	19	12		94	10	76		<b>211</b>	211	
3.	Sheep & Goat.	181	25	11	51	29	63	17	<b>377</b>	370	7
4.	Pig	1388	233	361	300	221	421	135	<b>3059</b>	2701	358
5.	Poultry.	872	101	108	147	59	119	18	<b>1424</b>	1231	193
	<b>TOTAL</b>	<b>6677</b>	<b>868</b>	<b>1296</b>	<b>1120</b>	<b>684</b>	<b>1465</b>	<b>410</b>	<b>12520</b>	9019	3501
	<b><u>WINTER</u></b>										
1.	Cattle.	4098	461	826	502	367	857	271	<b>7382</b>	4796	2586
2.	Buffaloes	15	9		77	6	59		<b>166</b>	166	
3.	Sheep & Goat.	177	18	10	42	25	55	14	<b>341</b>	332	9
4.	Pig	1772	269	411	344	210	403	139	<b>3548</b>	3183	365
5.	Poultry.	853	81	98	132	63	124	17	<b>1368</b>	1193	175
	<b>TOTAL</b>	<b>6915</b>	<b>838</b>	<b>1345</b>	<b>1097</b>	<b>671</b>	<b>1498</b>	<b>441</b>	<b>12805</b>	9670	3135
	<b>OVERALL</b>	<b>20336</b>	<b>2666</b>	<b>3984</b>	<b>3260</b>	<b>2080</b>	<b>4351</b>	<b>1265</b>	<b>37942</b>	27451	10491

**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	12250	1546	2513	1527	1107	2545	755	<b>22243</b>	13453	8790
2.	Buffaloes	49	34		226	25	190		<b>524</b>	524	
3.	Sheep & Goat	534	67	30	143	84	159	46	<b>1063</b>	1040	23
4.	Pig	4931	756	1149	983	681	1112	410	<b>10022</b>	8901	1121
5.	Poultry	2572	263	292	381	183	345	54	<b>4090</b>	3533	557
	<b>TOTAL</b>	<b>20336</b>	<b>2666</b>	<b>3984</b>	<b>3260</b>	<b>2080</b>	<b>4351</b>	<b>1265</b>	<b>37942</b>	<b>27451</b>	<b>10491</b>

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

Sl No.	Name of Districts	Meat Production Category Wise (Tonnes)						Annual Production 2010-11 (Col 5 – 8)	Percentage Contribution to Total Meat Production
		Cattle	Buffalo	Total Beef	Mutton	Pork	Chicken		
1	2	3	4	5	6	7	8	9	10
1.	East Khasi Hills	12250	49	12299	534	4931	2572	20336	53.6%
2.	Ri – Bhoi	1546	34	1580	67	756	263	2666	7.03%
3.	West Khasi Hills	2513		2513	30	1149	292	3984	10.5%
4.	Jaintia Hills	1527	226	1753	143	983	381	3260	8.59%
5.	East Garo Hills	1107	25	1132	84	681	183	2080	5.48%
6.	West Garo Hills	2545	190	2735	159	1112	54	4060	10.7%
7.	South Garo Hills	755		755	46	410	345	1556	4.1%
	<b>State (Overall)</b>	<b>22243</b>	<b>524</b>	<b>22767</b>	<b>1063</b>	<b>10022</b>	<b>4090</b>	<b>37942</b>	<b>100%</b>
	Percentage Contribution of each species to total production	58.62%	1.38%	60%	2.8%	26.41%	10.78%	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 2009-10
		2010-11			2009-10			
		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)	13977	8790	22767	14329	7994	22323	(+) 1.99%
2	Mutton	1040	23	1063	931	121	1052	(-) 1.05%
3	Pork	8901	1121	10022	8905	984	9889	(+) 1.34%
4	Chicken	3533	557	4090	3728	336	4064	(+) 0.64%
<b>5</b>	<b>Total</b>	<b>27451</b>	<b>10491</b>	<b>37942</b>	<b>27893</b>	<b>9435</b>	<b>37328</b>	<b>(+) 1.64%</b>

**7.9: Per Capita Availability of Meat per Day / Grams 2010-11**

Items	Per Capita Availability
Beef	21.26
Mutton	0.99
Pork	9.36
Chicken	3.82
<b>Total</b>	<b>35.43</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 7.11: 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



**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

**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
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