



**Government of Meghalaya**

**REPORT ON INTEGRATED  
SAMPLE SURVEY  
FOR**

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

**YEAR : 2008-09.**

**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 2007–2008 showing production estimates for each season, the number of Livestock and Poultry population including the numbers of Livestock brought from outside the State for Meat. Besides, information of Livestock per Sq. Kms and per 100 Villages are shown in this report. This report provides a reliable data-base relating to the progress and achievement of different schemes of the Department that enables us to estimate the contribution to the livestock sector.

The result of the Survey indicates a growth rate of **1.31%** on Milk, **0.88%** on Egg and **1.06%** on Meat over 2007-08.

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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**Director A.H. & Veterinary Department**  
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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 2008-09.**

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	37.14	8.57	5.71	30.0	10.0	5.71	2.85
2	Ri – Bhoi	14.28	7.14	52.38	19.04	7.14	-	-
3	West Khasi Hills	4.87	7.14	2.14	31.70	21.95	7.31	4.87
4	Jaintia Hills	1.56	15.62	41.46	26.82	21.87	9.37	3.13
5	East Garo Hills	4.0	20.0	28.0	12.0	12.0	12.0	12.0
6	West Garo Hills	1.63	9.83	19.67	21.31	14.75	4.91	27.86
7	South Garo Hills	1.81	16.36	20.0	18.18	20.0	12.72	10.90
	<b>State (Overall)</b>	<b>10.01</b>	<b>11.73</b>	<b>11.73</b>	<b>22.06</b>	<b>15.64</b>	<b>7.26</b>	<b>9.78</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 2007-08	Estimate Current Year 2008-09	% of Increase or Decrease over previous Year
I	<b>Milk</b>				
	<b>Indigenous Cows</b>				
	<b>Population</b>				
A	In Milk	00 No.	1012	1039	(+) 2.67 %
B	Milch	00 No.	2318	2321	(+) 0.13 %
	<b>Yield per Day</b>				
C	In Milk	Kgs.	0.765	0.751	(-) 0.01 %
D	Milch	Kgs.	0.334	0.336	(+) 0.60 %
E	Production	000 tonnes	28.267	28.463	(+) 0.69 %
	<b>Crossbred Cows</b>				
	<b>Population</b>				
F	In Milk	00 Nos.	141	144	(+) 2.13 %
G	Milch	00 Nos.	172	176	(+) 2.33 %
	<b>Yield per day</b>				
H	In Milk	Kgs.	8.968	8.954	(+) 0.16 %
I	Milch	Kgs.	7.363	7.311	(+) 0.71 %
J	Production	000 tonnes	46.306	47.05	(+) 1.61 %

**Table 3.11 – contd.**

Sl No.	Items	Unit	Estimates Previous Year 2007-08	Estimate Current Year 2008-09	% of Increase or Decrease over previous Year
	<b>Buffalo Population</b>				
K	In Milk	00 No.	29	29	00
L	Milch	00 No.	56	57	(+) 1.69 %
	<b>Yield per Day</b>				
M	In Milk	Kgs.	1.843	1.856	(+) 0.07 %
n	Milch	Kgs.	0.949	0.952	(+) 0.03 %
o	Production	000 tonnes	1.931	1.856	(-) 3.88 %
	<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	76.504	77.50	(+) 1.31 %
II	<b>Egg Production</b>				
	<b>Layers</b>				
u	Desi	00 No.	8221	8083	(-) 1.68 %
v	Improved	00 No.	655	652	(-) 0.46 %
w	<b>Total</b>	00 No.	8876	8735	(-) 1.59 %
	<b>Yield per layer per year</b>				
x	Desi	No.	103	102	
y	Improved	No.	218	216	
	<b>Production</b>				
z	Desi	Lakhs Nos.	846.07	827.75	(-) 2.71 %
aa	Improved	“	142.58	104.69	(-) 1.33 %
ab	<b>Total</b>	“	988.65	968.44	(-) 2.04 %

**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. (c)	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	45.00%	44.19%	41.09%	43.54%
	ii) Poultry	79.98%	83.83%	81.32%	81.44%
	iii) Sheep	1.91%	0.80%	1.28%	1.43%
	iv) Goat	22.59%	23.26%	23.48%	23.05%
	v) Pig	56.42%	60.54%	64.31%	60.04%
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)	607	630	661	1898
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	704	632	697	2033
	ii) Buffalo in Milk.	84	82	112	276
	iii) Goat in Milk.				
5. (a)	No. of Households observed for egg production.	660	786	746	2202
5. (b)	No. of Layers observed.				
	i) Desi & Improved	2851	3361	3066	9278
	.				



**Table 3.12 – Contd.**

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered.'000' Nos.				
	i) Cattle	80.14	79.32	81.66	241.12
	ii) Buffalo	1.17	1.68	1.38	4.23
	iii) Sheep & Goat	37.54	40.79	37.20	115.53
	iv) Pig	78.26	79.12	82.13	239.51
	v) Poultry	1190.71	1232.48	1227.18	3650.37

**Table 3.13: District-wise Number of Villages selected for complete enumeration during the year 2008-09.**

Sl. No.	Name of District	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	48	43	44	135
2.	Ri – Bhoi	45	46	42	133
3.	West Khasi Hills	21	23	22	66
4.	Jaintia Hills	39	36	32	107
5.	East Garo Hills	27	35	38	100
6.	West Garo Hills	78	73	65	216
7.	South Garo Hills	35	19	18	72
	<b>State (Overall)</b>	293	275	261	829

## Chapter – 4

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

#### Milk Production.

**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	4066	4194	4109	4123
2.	Ri – Bhoi	7293	7429	7361	7361
3.	West Khasi Hills	15684	15880	16076	15880
4.	Jaintia Hills	15132	15444	15288	15288
5.	East Garo Hills	23114	23774	23444	23444
6.	West Garo Hills	32767	33222	32312	32767
7.	South Garo Hills	4938	5081	5009	5009
	<b>State (Overall)</b>	<b>102994</b>	<b>105024</b>	<b>103599</b>	<b>103872</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	4860	4812	4977	4883
2.	Ri – Bhoi	11304	11588	10537	11143
3.	West Khasi Hills	23178	25249	22138	23522
4.	Jaintia Hills	26307	28016	24466	26263
5.	East Garo Hills	26988	24949	20223	24053
6.	West Garo Hills	34482	33326	33536	33781
7.	South Garo Hills	4852	4496	4355	4568
	<b>State (Overall)</b>	<b>131971</b>	<b>132436</b>	<b>120232</b>	<b>128213</b>

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	8926	9006	9086	9006
2.	Ri – Bhoi	18597	19017	17898	18504
3.	West Khasi Hills	38862	41129	38214	39402
4.	Jaintia Hills	41439	43460	39754	41551
5.	East Garo Hills	50102	48723	43667	47497
6.	West Garo Hills	67249	66548	65848	66548
7.	South Garo Hills	9790	9577	9364	9577
	<b>State (Overall)</b>	<b>234965</b>	<b>237460</b>	<b>223831</b>	<b>232085</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	5959	6026	5978	5978
2.	Ri – Bhoi	5973	6060	6017	6017
3.	West Khasi Hills	322	331	325	326
4.	Jaintia Hills	792	812	805	803
5.	East Garo Hills	34	36	35	35
6.	West Garo Hills	1184	1214	1199	1199
7.	South Garo Hills	38	39	39	39
	<b>State (Overall)</b>	<b>14272</b>	<b>14518</b>	<b>14398</b>	<b>14397</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	864	900	882	882
2.	Ri – Bhoi	1236	1203	1300	1246
3.	West Khasi Hills	61	59	61	60
4.	Jaintia Hills	113	101	92	102
5.	East Garo Hills	10	9	10	10
6.	West Garo Hills	930	913	901	915
7.	South Garo Hills	19	20	19	19
	<b>State (Overall)</b>	<b>3233</b>	<b>3205</b>	<b>3265</b>	<b>3234</b>

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6793	6926	6860	6860
2.	Ri – Bhoi	7209	7263	7317	7263
3.	West Khasi Hills	383	390	386	386
4.	Jaintia Hills	905	913	897	905
5.	East Garo Hills	44	45	45	45
6.	West Garo Hills	2114	2127	2100	2114
7.	South Garo Hills	57	59	58	58
	<b>State (Overall)</b>	<b>17504</b>	<b>17723</b>	<b>17663</b>	<b>17631</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	683	699	689	690
3.	West Khasi Hills	391	395	387	391
4.	Jaintia Hills	290	293	288	290
5.	East Garo Hills	290	295	293	293
6.	West Garo Hills	1260	1273	1246	1260
7.	South Garo Hills	18	18	19	18
	<b>State (Overall)</b>	<b>2932</b>	<b>2973</b>	<b>2922</b>	<b>2942</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	626	629	629	628
3.	West Khasi Hills	421	427	430	426
4.	Jaintia Hills	199	213	209	207
5.	East Garo Hills	186	188	187	187
6.	West Garo Hills	1278	1406	1339	1341
7.	South Garo Hills	2	3	3	3
	<b>State (Overall)</b>	<b>2712</b>	<b>2866</b>	<b>2797</b>	<b>2792</b>

**Table 4.3 (c): 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	489	506	497	497
5.	East Garo Hills	476	483	480	480
6.	West Garo Hills	2538	2679	2585	2601
7.	South Garo Hills	20	21	22	21
	<b>State (Overall)</b>	<b>5644</b>	<b>5839</b>	<b>5719</b>	<b>5734</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	0.830	0.850	0.820	0.834
2.	Ri – Bhoi	1.100	1.130	1.020	1.084
3.	West Khasi Hills	0.810	0.850	0.780	0.813
4.	Jaintia Hills	0.730	0.760	0.710	0.734
5.	East Garo Hills	0.650	0.680	0.640	0.657
6.	West Garo Hills	0.710	0.750	0.720	0.727
7.	South Garo Hills	0.620	0.670	0.630	0.640
	<b>State (Overall)</b>	<b>0.743</b>	<b>0.778</b>	<b>0.731</b>	<b>0.751</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	0.378	0.396	0.371	0.382
2.	Ri – Bhoi	0.431	0.441	0.420	0.431
3.	West Khasi Hills	0.327	0.328	0.328	0.328
4.	Jaintia Hills	0.267	0.270	0.273	0.270
5.	East Garo Hills	0.300	0.332	0.344	0.324
6.	West Garo Hills	0.346	0.374	0.353	0.358
7.	South Garo Hills	0.313	0.355	0.337	0.335
	<b>State (Overall)</b>	<b>0.326</b>	<b>0.344</b>	<b>0.338</b>	<b>0.336</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	9.050	9.290	8.790	9.046
2.	Ri – Bhoi	9.080	9.280	8.780	9.049
3.	West Khasi Hills	8.220	8.610	8.170	8.338
4.	Jaintia Hills	8.910	9.050	8.810	8.925
5.	East Garo Hills	8.780	8.830	8.050	8.558
6.	West Garo Hills	8.430	8.480	7.870	8.263
7.	South Garo Hills	7.380	7.800	7.320	7.439
	<b>State (Overall)</b>	<b>8.980</b>	<b>9.184</b>	<b>8.691</b>	<b>8.954</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	7.899	8.083	7.660	7.883
2.	Ri – Bhoi	7.523	7.743	7.220	7.497
3.	West Khasi Hills	6.911	7.307	6.879	7.042
4.	Jaintia Hills	7.797	8.049	7.906	7.919
5.	East Garo Hills	6.785	7.064	6.261	6.656
6.	West Garo Hills	4.721	4.840	4.493	4.687
7.	South Garo Hills	4.920	5.156	4.922	5.002
	<b>State (Overall)</b>	<b>7.321</b>	<b>7.523</b>	<b>7.084</b>	<b>7.311</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	1.890	1.920	1.790	1.868
3.	West Khasi Hills	1.890	1.950	1.850	1.898
4.	Jaintia Hills	1.830	1.850	1.800	1.829
5.	East Garo Hills	1.720	1.770	1.680	1.722
6.	West Garo Hills	1.850	1.910	1.870	1.877
7.	South Garo Hills	1.590	1.620	1.530	1.608
	<b>State (Overall)</b>	<b>1.848</b>	<b>1.896</b>	<b>1.820</b>	<b>1.856</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	1.011	0.936	0.978
3.	West Khasi Hills	0.910	0.937	0.876	0.908
4.	Jaintia Hills	1.085	1.071	1.043	1.067
5.	East Garo Hills	1.048	1.081	1.026	1.051
6.	West Garo Hills	0.918	0.908	0.901	0.909
7.	South Garo Hills	1.431	1.389	1.321	1.379
	<b>State (Overall)</b>	<b>0.960</b>	<b>0.965</b>	<b>0.930</b>	<b>0.952</b>

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	412	438	404	1254
2.	Ri – Bhoi	979	1033	901	2913
3.	West Khasi Hills	1550	1660	1505	4715
4.	Jaintia Hills	1348	1444	1302	4094
5.	East Garo Hills	1833	1988	1800	5621
6.	West Garo Hills	2838	3065	2792	8695
7.	South Garo Hills	373	419	379	1171
	<b>State (Overall)</b>	<b>9333</b>	<b>10047</b>	<b>9083</b>	<b>28463</b>

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6546	6886	6306	19738
2.	Ri – Bhoi	6617	6917	6339	19873
3.	West Khasi Hills	323	350	319	992
4.	Jaintia Hills	861	904	851	2616
5.	East Garo Hills	36	39	34	109
6.	West Garo Hills	1218	1266	1132	3616
7.	South Garo Hills	34	37	34	105
	<b>State (Overall)</b>	<b>15635</b>	<b>16399</b>	<b>15015</b>	<b>47049</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	157	165	148	470
3.	West Khasi Hills	90	95	86	271
4.	Jaintia Hills	65	67	62	194
	East Garo Hills	61	64	59	184
6.	West Garo Hills	284	299	280	863
7.	South Garo Hills	3	4	3	10
	<b>State (Overall)</b>	<b>660</b>	<b>694</b>	<b>638</b>	<b>1992</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 2007-2008	% Increase or Decrease over 2007-08
		Indigenous	Crossbred	Total				
1.	East Khasi Hills	1.25	19.74	20.99	-	20.99	20.71	(+) 1.35%
2.	Ri – Bhoi	2.91	19.88	22.79	0.47	23.26	22.98	(+) 1.22%
3.	West Khasi Hills	4.72	0.99	5.71	0.27	5.98	5.92	(+) 1.01%
4.	Jaintia Hills	4.09	2.62	6.71	0.19	6.90	6.84	(+) 0.88%
5.	East Garo Hills	5.62	0.11	5.73	0.18	5.91	5.88	(+) 0.51%
6.	West Garo Hills	8.70	3.62	12.32	0.86	13.18	12.89	(+)2.25%
7.	South Garo Hills	1.17	0.10	1.27	0.01	1.28	1.28	(=)
	<b>State (Overall)</b>	<b>28.46</b>	<b>47.05</b>	<b>75.51</b>	<b>1.98</b>	<b>77.50</b>	<b>76.50</b>	(+) 1.31%

**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

**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

**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%

## Chapter – 5

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

#### Egg Production

**Table 5.1 (a): District-wise and Season-Wise Estimated No. of Poultry (Fowls), 2008-09  
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	805	1143	1045	1061	2358	570	8043
Monsoon	1071	813	1162	1025	1080	2397	575	8123
Winter	1050	821	1161	1035	1071	2378	565	8081
<b>Overall</b>	<b>1061</b>	<b>813</b>	<b>1155</b>	<b>1035</b>	<b>1071</b>	<b>2378</b>	<b>570</b>	<b>8083</b>
<b><u>Improved</u></b>								
Summer	198	144	28	191	34	51	2	648
Monsoon	200	146	29	194	34	51	2	656
Winter	203	143	27	193	33	50	2	651
<b>Overall</b>	<b>200</b>	<b>144</b>	<b>28</b>	<b>193</b>	<b>34</b>	<b>51</b>	<b>2</b>	<b>652</b>
<b><u>Total</u></b>								
Summer	1259	949	1171	1236	1095	2409	572	8691
Monsoon	1271	959	1191	1219	1184	2448	577	8779
Winter	1254	964	1188	1228	1104	2428	567	8732
<b>Overall</b>	<b>1261</b>	<b>957</b>	<b>1183</b>	<b>1228</b>	<b>1105</b>	<b>2429</b>	<b>572</b>	<b>8735</b>

**Table 5.1(b): District-wise and Season-wise Estimated No. of Poultry (Ducks) 2008-09.  
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	20	9	10	19	7	169	16	250
Monsoon	21	10	10	19	7	170	16	253
Winter	21	9	10	19	7	167	16	249
<b>Overall</b>	<b>21</b>	<b>9</b>	<b>10</b>	<b>19</b>	<b>7</b>	<b>169</b>	<b>16</b>	<b>251</b>
<b><u>Improved</u></b>								
Summer	1	6	-	9	-	1	-	17
Monsoon	1	6	-	9	-	1	-	17
Winter	1	6	-	9	-	1	-	17
<b>Overall</b>	<b>1</b>	<b>6</b>	<b>-</b>	<b>9</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>17</b>
<b><u>Total</u></b>								
Summer	21	15	10	28	7	170	16	267
Monsoon	22	16	10	28	7	171	16	270
Winter	22	15	10	28	7	168	16	266
<b>Overall</b>	<b>22</b>	<b>15</b>	<b>10</b>	<b>28</b>	<b>7</b>	<b>170</b>	<b>16</b>	<b>268</b>

**Table 5.2 (a): District-wise and Season-Wise Estimated Yield per Layer (Fowls) 2008-09**

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	35	34	35	33	35	32	34
Monsoon	36	36	34	36	34	34	34	35
Winter	34	34	32	34	33	34	32	33
<b>Overall</b>	<b>104</b>	<b>105</b>	<b>100</b>	<b>105</b>	<b>100</b>	<b>103</b>	<b>98</b>	<b>102</b>
<b><u>Improved</u></b>								
Summer	74	74	66	71	63	67	61	72
Monsoon	75	76	68	73	64	68	61	73
Winter	73	74	67	70	62	66	60	71
<b>Overall</b>	<b>222</b>	<b>224</b>	<b>201</b>	<b>214</b>	<b>189</b>	<b>201</b>	<b>182</b>	<b>216</b>
<b><u>Total</u></b>								
Summer	40	41	35	40	34	36	32	37
Monsoon	42	42	35	42	33	35	34	38
Winter	40	40	33	40	34	35	32	36
<b>Overall</b>	<b>122</b>	<b>123</b>	<b>103</b>	<b>122</b>	<b>102</b>	<b>106</b>	<b>98</b>	<b>111</b>



**Table 5.2(b): District-wise and Season-wise Estimated Yield per Layer (Ducks) 2008-09.**

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	35	34	35	33	34	32	34
Monsoon	34	34	33	34	34	36	34	35
Winter	34	34	32	34	33	33	32	33
<b>Overall</b>	<b>102</b>	<b>103</b>	<b>99</b>	<b>103</b>	<b>100</b>	<b>103</b>	<b>98</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>223</b>	<b>224</b>	<b>-</b>	<b>214</b>	<b>-</b>	<b>202</b>	<b>-</b>	<b>217</b>
<b><u>Total</u></b>								
Summer	37	51	34	46	33	34	32	36
Monsoon	36	48	33	46	34	36	34	38
Winter	35	49	32	44	33	33	32	35
<b>Overall</b>	<b>107</b>	<b>148</b>	<b>99</b>	<b>136</b>	<b>100</b>	<b>103</b>	<b>98</b>	<b>109</b>

**Table 5.3(a): District-wise and Season-Wise Estimated Egg Production (Fowls) 2008-09. (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	28.19	38.87	36.57	35.02	82.53	18.25	275.50
Monsoon	38.56	29.27	39.49	36.90	36.73	81.51	19.56	282.02
Winter	35.71	27.90	37.17	35.19	35.33	80.84	18.09	270.23
<b>Overall</b>	<b>110.33</b>	<b>85.36</b>	<b>115.53</b>	<b>108.66</b>	<b>107.08</b>	<b>244.88</b>	<b>55.90</b>	<b>827.75</b>
<b><u>Improved</u></b>								
Summer	14.68	10.69	1.87	13.55	2.13	3.40	0.11	46.43
Monsoon	15.03	11.09	1.94	14.20	2.18	3.49	0.11	48.04
Winter	14.79	10.59	1.84	13.49	2.08	3.32	0.11	46.22
<b>Overall</b>	<b>44.50</b>	<b>32.37</b>	<b>5.65</b>	<b>41.24</b>	<b>6.39</b>	<b>10.21</b>	<b>0.33</b>	<b>140.69</b>
<b><u>Total</u></b>								
Summer	50.74	38.88	40.74	50.12	37.15	85.93	18.36	321.93
Monsoon	53.59	40.36	41.43	51.10	38.91	85.00	19.67	330.06
Winter	50.50	38.49	39.01	48.68	37.41	84.16	18.20	316.45
<b>Overall</b>	<b>154.83</b>	<b>117.73</b>	<b>121.18</b>	<b>149.90</b>	<b>113.47</b>	<b>255.09</b>	<b>56.23</b>	<b>968.44</b>

**Table 5.3(b): District-wise and Season-wise Estimated Egg production (Ducks) 2008-09.  
(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	0.69	0.34	0.34	0.67	0.22	5.74	0.51	8.51
Monsoon	0.70	0.33	0.34	0.65	0.23	6.13	0.55	8.93
Winter	0.70	0.32	0.32	0.64	0.22	5.52	0.50	8.22
<b>Overall</b>	<b>2.09</b>	<b>0.99</b>	<b>1.00</b>	<b>1.96</b>	<b>0.67</b>	<b>17.39</b>	<b>1.56</b>	<b>25.66</b>
<b><u>Improved</u></b>								
Summer	0.09	0.42	-	0.61	-	0.08	-	1.20
Monsoon	0.09	0.44	-	0.64	-	0.08	-	1.25
Winter	0.08	0.42	-	0.60	-	0.07	-	1.18
<b>Overall</b>	<b>0.26</b>	<b>1.28</b>	<b>-</b>	<b>1.85</b>	<b>-</b>	<b>0.23</b>	<b>-</b>	<b>3.63</b>
<b><u>Total</u></b>								
Summer	0.78	0.76	0.34	1.28	0.22	5.82	0.51	9.71
Monsoon	0.79	0.77	0.34	1.29	0.23	6.21	0.55	10.18
Winter	0.78	0.74	0.32	1.24	0.22	5.59	0.50	9.40
<b>Overall</b>	<b>2.35</b>	<b>2.27</b>	<b>1.00</b>	<b>3.81</b>	<b>0.67</b>	<b>17.62</b>	<b>1.56</b>	<b>29.29</b>

**Table 5.4 (a) : Estimated Total Egg production. (Lakhs Numbers) 2008-09.**

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	50.74	0.78	53.59	0.79	50.50	0.78
2.	Ri – Bhoi	38.88	0.76	40.36	0.77	38.49	0.74
3.	West Khasi Hills	40.74	0.34	41.43	0.34	39.01	0.32
4.	Jaintia Hills	50.12	1.28	51.10	1.29	48.68	1.24
5.	East Garo Hills	37.15	0.22	38.91	0.23	37.41	0.22
6.	West Garo Hills	85.93	5.82	85.00	6.21	84.16	5.59
7.	South Garo Hills	18.36	0.51	19.67	0.55	18.20	0.50
	<b>State (Overall)</b>	<b>321.93</b>	<b>9.71</b>	<b>330.06</b>	<b>10.18</b>	<b>316.45</b>	<b>9.40</b>

**Table 5.4 (b) : Estimated Total Egg production. (Lakhs Numbers) 2008-09.**

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2008-09	Annual Production Previous Year 2007-08	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	154.83	2.35	157.18	155.79	(+) 0.89%
2.	Ri – Bhoi	117.73	2.37	120.00	117.72	(+) 1.94%
3.	West Khasi Hills	121.18	1.00	122.00	119.48	(+) 2.11%
4.	Jaintia Hills	149.90	3.81	153.71	150.95	(+) 1.83%
5.	East Garo Hills	113.47	0.67	114.14	114.33	(-) 0.17%
6.	West Garo Hills	255.09	17.62	272.71	273.00	(-) 0.11%
7.	South Garo Hills	56.23	1.56	57.79	57.37	(+) 0.73%
	<b>State (Overall)</b>	<b>968.44</b>	<b>29.29</b>	<b>997.73</b>	<b>988.64</b>	<b>(+) 0.92%</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

**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	827.75	140.69	968.44	(-) 2.04

## 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	94.46	1.17	4.37	100%
Monsoon	95.15	2.60	2.25	100%
Winter	94.06	1.97	3.97	100%
<b>Overall</b>	<b>94.65</b>	<b>1.91</b>	<b>3.44</b>	100%

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

Season	Utilisation for Home consumption	Set for Hatching	Egg Sold	Damaged or Spoiled	Total
Summer	19.01	15.49	64.09	1.41	100%
Monsoon	22.65	15.68	59.93	1.74	100%
Winter	32.43	16.22	49.55	1.80	100%
<b>Overall</b>	<b>24.19</b>	<b>15.49</b>	<b>58.96</b>	<b>1.36</b>	100%

**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	80.05	9.40	10.55	77.06	12.47	10.46	71.48	16.92	11.61
	(b) Dry & not Calved even once	83.94	10.40	5.66	84.60	8.51	6.90	78.20	9.29	12.51
	(c) Adult Male	83.40	-	16.60	90.41	-	9.59	82.17	-	17.83
	(d) Young Stock upto 3 Years old.	83.82	6.76	9.41	88.03	5.51	6.46	77.77	9.28	12.95
	<b>Overall :-</b>	<b>83.35</b>	<b>7.76</b>	<b>8.89</b>	<b>85.55</b>	<b>6.78</b>	<b>7.67</b>	<b>77.68</b>	<b>9.01</b>	<b>13.30</b>
<b>1.2</b>	<b>CROSS BRED</b>									
	(a) In Milk	9.76	76.10	14.15	11.63	79.07	9.30	8.59	75.93	15.49
	(b) Dry & not Calved even once	28.78	46.04	25.18	22.52	19.21	58.28	56.39	16.39	27.22
	(c) Adult Male	46.74	18.48	34.78	31.18	26.88	41.94	28.43	41.18	30.39
	(d) Young Stock upto 3 Years old.	25.93	55.97	18.11	22.22	51.59	26.19	40.10	31.88	28.02
	<b>Overall :-</b>	<b>22.09</b>	<b>57.97</b>	<b>19.94</b>	<b>18.78</b>	<b>53.20</b>	<b>28.02</b>	<b>28.98</b>	<b>48.93</b>	<b>22.09</b>
<b>2</b>	<b>BUFFALOES</b>									
	(a) In Milk	70.53	11.16	18.30	79.15	5.65	15.19	72.04	10.23	17.71
	(b) Dry & not Calved even once	71.77	11.04	17.17	60.21	16.12	18.27	68.88	12.44	18.66
	(c) Adult Male	72.46	4.34	23.18	74.38	5.91	19.70	74.38	5.91	19.70
	(d) Young Stock upto 3 Years old.	66.92	10.76	22.30	51.51	21.21	27.27	61.02	17.43	21.53
	<b>Overall :-</b>	<b>70.53</b>	<b>9.61</b>	<b>19.84</b>	<b>70.27</b>	<b>10.69</b>	<b>19.02</b>	<b>69.32</b>	<b>11.40</b>	<b>19.27</b>

**Table 6.4: Season-wise Average Quantity of Feed / Fodder Feed Per Animal Per Day (In Kg)**

Season	Type of Feed	Cows in Milk		Buffaloes in Milk
		Indigenous	Cross Bred	
Summer	Green	4.46	19.63	5.52
	Dry	2.54	10.40	3.27
	Concentrate	2.26	4.85	1.95
Monsoon	Green	4.09	20.56	7.92
	Dry	2.28	9.64	3.43
	Concentrate	2.10	4.96	2.42
Winter	Green	4.11	21.34	3.77
	Dry	2.24	9.16	7.69
	Concentrate	2.03	4.61	2.30

**Table 6.5: Season wise Utilisation of Dung collected From Bovine at Sample Household 2008-09.**

Sl No.	Particulars	Unit	Summer	Monsoon	Winter	Over all
1.	Total No. of Sample animals observed for Dung Utilisation.	No	5076	5159	4814	15149
2.	Average quantity of Dung collected per animal per day.	Kg	3.39	3.36	3.78	3.49
3.	Dung utilised for manure.	Percentage	96.10	96.71	95.36	96.06
4.	Dung utilised for Dung cake.	Percentage	2.68	2.49	2.66	2.60
5.	Dung utilised for other purpose.	Percentage	1.22	0.80	1.98	1.34

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

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



## Chapter -7

### Meat Production – 2008-09

**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.	42652	6327	9438	5187	3916	9655	2963	<b>80138</b>	<b>57994</b>	<b>22144</b>
(b)	Buffaloes.	122	100	-	445	57	447	-	<b>1171</b>	<b>1171</b>	<b>-</b>
(c)	Pig	40409	5823	8631	7766	5828	6591	3216	<b>78264</b>	<b>70590</b>	<b>7674</b>
(d)	Sheep & Goat.	19449	2564	945	5394	3203	4495	1492	<b>37542</b>	<b>36551</b>	<b>991</b>
(e)	Poultry.	740572	69895	92346	107992	62062	102648	15195	<b>1190710</b>	<b>-</b>	<b>-</b>
	<b><u>MONSOON</u></b>										
(a)	Cattle.	44024	5111	9120	5596	3958	9074	2436	<b>79319</b>	<b>56970</b>	<b>22349</b>
(b)	Buffaloes.	142	92	-	743	70	634	-	<b>1681</b>	<b>1681</b>	<b>-</b>
(c)	Pig.	37053	6217	9499	7952	5125	10211	3058	<b>79115</b>	<b>71013</b>	<b>8102</b>
(d)	Sheep & Goat.	19659	2701	1139	5406	3151	6976	1754	<b>40786</b>	<b>39024</b>	<b>1762</b>
(e)	Poultry.	726241	92223	101859	136004	50128	109845	16175	<b>1232475</b>	<b>-</b>	<b>-</b>
	<b><u>WINTER</u></b>										
(a)	Cattle.	44951	5187	9514	5732	3849	9457	2967	<b>81657</b>	<b>57263</b>	<b>24394</b>
(b)	Buffaloes.	120	69	-	640	48	507	-	<b>1384</b>	<b>1384</b>	<b>-</b>
(c)	Pig.	38725	6198	9794	8235	5006	10384	3788	<b>82130</b>	<b>73346</b>	<b>8784</b>
(d)	Sheep & Goat.	19213	1972	1166	4614	2761	5977	1497	<b>37200</b>	<b>35710</b>	<b>1490</b>
(e)	Poultry.	725895	73768	95849	126403	65763	124295	15207	<b>1227180</b>	<b>-</b>	<b>-</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	131.63	16.63	28.07	16.52	11.72	28.19	8.37	<b>241.13</b>	68.89	172.24
2.	Buffaloes	0.38	0.26	-	1.83	0.18	1.59	-	<b>4.24</b>	4.24	-
3.	Pig	116.19	18.24	27.92	23.95	15.96	27.19	10.06	<b>239.51</b>	24.56	214.95
4.	Sheep & Goat	58.32	7.24	3.25	15.41	-	17.45	4.74	<b>115.51</b>	4.24	111.29
5.	Poultry	2192.71	235.89	290.05	370.40	177.95	336.79	46.58	<b>3650.37</b>	3650.37	-

**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.	89.85	88.69	89.06	89.70	88.73	89.46	88.58	<b>89.51</b>
(b)	Buffaloes.	119.00	118.06	-	118.32	118.53	117.30	-	<b>117.99</b>
(c)	Pig.	43.39	41.85	42.06	41.46	41.56	41.81	39.92	<b>42.52</b>
(d)	Sheep & Goat.	8.89	8.85	8.99	8.92	8.98	8.90	9.43	<b>8.92</b>
(e)	Poultry.	1.12	1.06	0.91	0.93	0.92	0.95	0.93	<b>1.06</b>
	<b><u>MONSOON</u></b>								
(a)	Cattle.	89.63	86.44	85.44	88.00	86.57	83.99	86.89	<b>87.95</b>
(b)	Buffaloes.	119.35	117.00	-	118.41	118.20	118.8	-	<b>118.55</b>
(c)	Pig.	42.41	41.84	42.35	40.85	41.35	40.49	40.40	<b>41.81</b>
(d)	Sheep & Goat.	9.12	9.15	9.05	9.17	9.00	8.86	9.02	<b>9.07</b>
(e)	Poultry.	1.12	1.11	1.08	1.08	1.10	1.06	0.98	<b>1.10</b>
	<b><u>WINTER</u></b>								
(a)	Cattle.	89.89	86.65	85.69	86.46	87.00	89.67	88.00	<b>88.72</b>
(b)	Buffaloes.	118.50	118.12	-	115.00	116.52	115.47	-	<b>115.68</b>
(c)	Pig.	44.20	42.60	42.08	41.23	41.86	41.64	40.42	<b>42.89</b>
(d)	Sheep & Goat.	9.05	9.13	9.00	8.90	8.96	8.93	8.81	<b>8.98</b>
(e)	Poultry.	1.22	1.05	0.98	0.99	0.91	0.94	0.94	<b>1.12</b>

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

Sl No.	Name of Districts	Cattle	Buffaloes	Pigs	Sheep & Goat	Poultry
1	2	3	4	5	6	7
1.	East Khasi Hills	89.79	118.97	43.35	9.02	1.15
2.	Ri – Bhoi	87.36	117.70	42.10	9.04	1.08
3.	West Khasi Hills	86.74	-	42.16	9.01	0.99
4.	Jaintia Hills	88.00	119.19	41.18	9.00	1.01
5.	East Garo Hills	87.43	117.85	41.59	8.92	0.97
6.	West Garo Hills	87.77	117.31	41.25	8.89	0.98
7.	South Garo Hills	87.83	-	40.26	9.09	0.96
	<b>State (Overall)</b>	<b>88.73</b>	<b>117.46</b>	<b>42.41</b>	<b>8.99</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><u>SUMMER</u></b>										
1.	Cattle.	3832	561	841	465	347	864	262	<b>7172</b>	5191	1981
2.	Buffaloes	15	12	-	53	7	52	-	<b>139</b>	139	-
3.	Pigs	1753	244	363	322	242	276	128	<b>3328</b>	3001	327
4.	Sheep & Goat.	173	23	9	48	29	40	14	<b>336</b>	326	10
5.	Poultry.	829	74	84	100	57	98	14	<b>1256</b>	1256	-
	<b>TOTAL</b>	<b>6602</b>	<b>914</b>	<b>1297</b>	<b>988</b>	<b>682</b>	<b>1330</b>	<b>418</b>	<b>12231</b>	9913	2318
	<b><u>MONSOON</u></b>										
1.	Cattle.	3946	442	779	492	343	762	212	<b>6976</b>	5011	1965
2.	Buffaloes	17	11	-	88	8	75	-	<b>199</b>	199	-
3.	Pigs	1571	260	402	325	212	413	124	<b>3307</b>	2969	338
4.	Sheep & Goat.	179	25	10	50	28	62	16	<b>370</b>	354	16
5.	Poultry.	813	102	110	147	55	117	16	<b>1360</b>	1360	-
	<b>TOTAL</b>	<b>6526</b>	<b>840</b>	<b>1301</b>	<b>1102</b>	<b>646</b>	<b>1429</b>	<b>368</b>	<b>12212</b>	9893	2319
	<b><u>WINTER</u></b>										
1.	Cattle.	4041	449	815	496	335	848	261	<b>7245</b>	5080	2165
2.	Buffaloes	14	8	-	74	6	59	-	<b>161</b>	161	-
3.	Pigs	1712	264	412	340	210	432	153	<b>3523</b>	3146	377
4.	Sheep & Goat.	174	18	11	41	24	53	13	<b>334</b>	312	22
5.	Poultry.	886	77	94	125	60	117	14	<b>1373</b>	1373	-
	<b>TOTAL</b>	<b>6827</b>	<b>816</b>	<b>1332</b>	<b>1076</b>	<b>635</b>	<b>1509</b>	<b>441</b>	<b>12636</b>	10072	2564
	<b>OVERALL</b>	<b>19955</b>	<b>2570</b>	<b>3930</b>	<b>3166</b>	<b>1963</b>	<b>4268</b>	<b>1227</b>	<b>37079</b>	29878	7201

**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	11819	1452	2435	1453	1025	2474	735	<b>21393</b>	15282	6111
2.	Buffaloes	46	31	-	215	21	186	-	<b>499</b>	499	-
3.	Pig	5036	768	1177	987	664	1121	405	<b>10158</b>	9116	1042
4.	Sheep & Goat	526	66	30	139	81	155	43	<b>1040</b>	992	48
5.	Poultry	2528	253	288	372	172	332	44	<b>3989</b>	3989	-
	<b>TOTAL</b>	<b>19955</b>	<b>2570</b>	<b>3930</b>	<b>3166</b>	<b>1963</b>	<b>4268</b>	<b>1227</b>	<b>37079</b>	<b>29878</b>	<b>7201</b>

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

Sl No.	Name of Districts	Meat Production Category Wise (Tonnes)						Annual Production 2008-09 (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	11819	46	11865	5036	526	2528	19955	53.82%
2.	Ri – Bhoi	1452	31	1483	768	66	253	2570	6.93%
3.	West Khasi Hills	2435	-	2435	1177	30	288	3930	10.60%
4.	Jaintia Hills	1453	215	1668	987	139	372	3166	8.54%
5.	East Garo Hills	1025	21	1046	664	81	172	1963	5.29%
6.	West Garo Hills	2474	186	2660	1121	155	332	4268	11.51%
7.	South Garo Hills	735	-	735	405	43	44	1227	3.31%
	<b>State (Overall)</b>	<b>21393</b>	<b>499</b>	<b>21892</b>	<b>10158</b>	<b>1040</b>	<b>3989</b>	<b>37079</b>	<b>100%</b>
	Percentage Contribution of each species to total production	57.70%	1.34%	59.04%	27.39%	2.81%	10.76%	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 2007-08
		2008-09			2007-08			
		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)	15781	6111	21892	12649	8914	21563	(+) 1.53%
2	Pork	9116	1042	10158	9108	966	10074	(+) 0.83%
3	Mutton	992	48	1040	985	50	1035	(+) 0.48%
4	Chicken	3989	-	3989	4018	-	4018	(-) 0.72%
5	Total	29878	7201	37079	26760	9930	36690	(+) 1.06%

**7.9: Per Capita Availability of Meat per Day / Grams 2008-09**

Items	Per Capita Availability
Beef	20.98
Pork	9.74
Mutton	1.00
Chicken	3.82
<b>Total</b>	<b>35.54</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	241.11	4.24	239.51	115.53	3650

**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

**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



**ANNEXURE – I**  
**Comparative Analysis showing production estimate with effect from the year 1983-84 to 2008-09**  
**and Target for the Year 2009-10.**

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
Anticipated for 2009-10	79.00	38.00	101.00

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