



सत्यमेव जयते

**Government of Meghalaya**

**REPORT ON INTEGRATED  
SAMPLE SURVEY  
FOR**

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

**YEAR : 2007-08.**

**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 **2.52%** on Milk, **1.09%** on Egg and **0.78%** on Meat over 2006-07.

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/-  
**Dr. D. Khonglah**  
**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 throughout the State. Springtime is generally associated with the germination of seeds as well as the growth of tender grass, leaves and flowers. Then come Summer times, which is generally identified with rain and autumn with ripened and shedding of leaves from certain species of trees.

**1.3. Rainfall:** - Meghalaya had a distinct position in the world as far as rainfall is concerned. The entire State received rainfall during Summer months only through the Southwest Monsoon. The rain usually falls by the month of May and continues right up to the end of September, and sometimes evens in the middle of October after which it gradually diminishes. Sohra and Mawsynram in the East Khasi Hills are geographically considered as the rainiest places in the World.

**1.4. Population and Area:** - The State has a total area of 22,429 Sq. Kms. and a population of 23.19 Lakhs as per the 2001 Census. Percentage of Urban population is 19.63, and percentage of Literacy is 63.31. Table 1.2 below 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 2007-08.**

Sl No.	Name of District	Percentage of Bovines Keepers (Household)						
		0-1	2-5	6-10	11-15	16-20	21-25	26 and above
1	2	3	4	5	6	7	8	9
1	East Khasi Hills	6.25	21.87	25.0	15.62	6.25	10.93	14.06
2	Ri – Bhoi	4.61	12.30	21.53	24.61	18.46	6.15	12.30
3	West Khasi Hills	6.12	17.34	16.32	17.34	11.22	9.18	22.44
4	Jaintia Hills	6.97	34.88	32.55	16.27	2.32	2.32	4.65
5	East Garo Hills	1.78	8.92	21.42	12.5	17.85	19.64	16.07
6	West Garo Hills	1.38	16.66	15.27	30.55	16.66	5.55	13.88
7	South Garo Hills	9.09		22.72	13.63	4.54		4.54
	<b>State (Overall)</b>	<b>5.34</b>	<b>15.14</b>	<b>20.26</b>	<b>19.15</b>	<b>13.80</b>	<b>10.46</b>	<b>15.81</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 are 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 advise 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 enumeration's 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 2005-06	Estimate Current Year 2006-07	% of Increase or Decrease over previous Year
I	<b>Milk</b>				
	<b>Indigenous Cows</b>				
	<b>Population</b>				
A	In Milk	00 No.	999	1012	(+) 1.30%
B	Milch	00 No.	2290	2318	(+) 1.22%
	<b>Yield per Day</b>				
C	In Milk	Kgs.	0.75	0.765	(+) 2.00%
D	Milch	Kgs.	0.33	0.334	(+) 1.21%
E	Production	000 tonnes	27.33	28.267	(+) 3.43%
	<b>Crossbred Cows</b>				
	<b>Population</b>				
F	In Milk	00 Nos.	139	141	(+) 1.44%
G	Milch	00 Nos.	170	172	(+) 1.18%
	<b>Yield per day</b>				
H	In Milk	Kgs.	8.93	8.968	(+) 0.43%
I	Milch	Kgs.	7.30	7.363	(+) 0.86%
J	Production	000 tonnes	45.38	46.306	(+) 2.04%

**Table 3.11. – contd.**

Sl No.	Items	Unit	Estimates Previous Year 2005-06	Estimate Current Year 2006-07	% of Increase or Decrease over previous Year
	<b>Buffalo Population</b>				
K	In Milk	00 No.	28	29	(+) 3.57%
L	Milch	00 No.	55	56	(+) 1.82%
	<b>Yield per Day</b>				
M	In Milk	Kgs.	1.85	1.843	(-) 0.38%
n	Milch	Kgs.	0.95	0.949	(-) 0.11%
o	Production	000 tonnes	1.91	1.931	(+) 1.10%
	<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	74.62	76.504	(+) 2.52%
II	<b>Egg Production</b>				
	<b>Layers</b>				
u	Desi	00 No.	7879	8221	(+) 4.34%
v	Improved	00 No.	632	655	(+) 3.64%
w	<b>Total</b>	00 No.	8511	8876	(+) 4.29%
	<b>Yield per layer per year</b>				
x	Desi	No.	103	103	
y	Improved	No.	218	218	
	<b>Production</b>				
z	Desi	Lakhs Nos.	837	846.07	(+) 1.08%
aa	Improved	“	141	142.58	(+) 1.12%
ab	<b>Total</b>	“	978	988.65	(+) 1.09%

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

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
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. (c)	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	45.95%	41.24%	41.80%	43.09%
	ii) Poultry	79.55%	82.90%	81.12%	81.13%
	iii) Sheep	2.36%	0.44%	1.57%	1.49%
	iv) Goat	22.51%	22.90%	23.40%	22.93%
	v) Pig	55.92%	60.21%	64.59%	60.13%
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)	755	720	850	2325
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	594	522	583	1699
	ii) Buffalo in Milk.	64	62	91	217
	iii) Goat in Milk.				
5. (a)	No. of Households observed for egg production.	650	776	746	2172
5. (b)	No. of Layers observed.				
	i) Desi & Improved	2425	3198	2736	8359
	.				



**Table 3.12. – Contd.**

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered.'000' Nos.				
	i) Cattle	78.66	78.90	79.94	237.5
	ii) Buffalo	1.16	1.68	1.38	4.22
	iii) Sheep & Goat	37.33	40.46	36.98	114.77
	iv) Pig	77.86	78.88	80.56	237.77
	v) Poultry	1188.13	1230.32	1277.79	3696.24

**Table 3.13 : Districtwise Number of Villages selected for complete enumeration during the year 2006-07.**

Sl. No.	Name of District	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	43	43	42	128
2.	Ri – Bhoi	18	18	18	54
3.	West Khasi Hills	43	43	42	128
4.	Jaintia Hills	37	37	37	111
5.	East Garo Hills	37	38	37	112
6.	West Garo Hills	78	79	78	235
7.	South Garo Hills	18	19	18	55
	<b>State (Overall)</b>	274	277	272	823

## Chapter – 4

### Districtwise & Seasonwise 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	3980	4066	4023	4023
2.	Ri – Bhoi	7225	7293	7089	7202
3.	West Khasi Hills	15292	15684	15488	15488
4.	Jaintia Hills	14976	15132	14820	14976
5.	East Garo Hills	22784	23114	22454	22784
6.	West Garo Hills	31857	32312	31402	31857
7.	South Garo Hills	4795	5009	4866	4890
	<b>State (Overall)</b>	<b>100909</b>	<b>102610</b>	<b>100142</b>	<b>101220</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	5026	4621	4346	4664
2.	Ri – Bhoi	11372	11724	10809	11302
3.	West Khasi Hills	23570	25445	22726	23914
4.	Jaintia Hills	26463	28328	24934	26575
5.	East Garo Hills	27318	25609	21213	24713
6.	West Garo Hills	35392	34236	34446	34691
7.	South Garo Hills	4995	4568	4498	4687
	<b>State (Overall)</b>	<b>134136</b>	<b>134531</b>	<b>122972</b>	<b>130546</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	9006	8687	8369	8687
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>235045</b>	<b>237141</b>	<b>223114</b>	<b>231766</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	5881	5929	5832	5881
2.	Ri – Bhoi	5886	5973	5930	5930
3.	West Khasi Hills	319	325	322	332
4.	Jaintia Hills	779	792	772	781
5.	East Garo Hills	32	32	31	32
6.	West Garo Hills	1154	1169	1162	1162
7.	South Garo Hills	40	38	36	38
	<b>State (Overall)</b>	<b>14091</b>	<b>14258</b>	<b>14085</b>	<b>14146</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	846	864	895	868
2.	Ri – Bhoi	1268	1019	1008	1098
3.	West Khasi Hills	57	58	58	58
4.	Jaintia Hills	110	105	109	108
5.	East Garo Hills	8	12	12	10
6.	West Garo Hills	919	931	925	925
7.	South Garo Hills	14	19	17	17
	<b>State (Overall)</b>	<b>3222</b>	<b>3008</b>	<b>3024</b>	<b>3087</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	6727	6793	6727	6749
2.	Ri – Bhoi	7154	6992	6938	7028
3.	West Khasi Hills	376	383	380	380
4.	Jaintia Hills	889	897	881	889
5.	East Garo Hills	40	44	43	42
6.	West Garo Hills	2073	2100	2087	2087
7.	South Garo Hills	54	57	53	55
	<b>State (Overall)</b>	<b>17313</b>	<b>17266</b>	<b>17109</b>	<b>17230</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	663	689	673	675
3.	West Khasi Hills	380	384	380	381
4.	Jaintia Hills	280	285	283	283
5.	East Garo Hills	281	286	278	282
6.	West Garo Hills	1233	1246	1219	1233
7.	South Garo Hills	16	17	16	16
	<b>State (Overall)</b>	<b>2853</b>	<b>2907</b>	<b>2846</b>	<b>2870</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	692	565	590	616
3.	West Khasi Hills	368	428	437	411
4.	Jaintia Hills	179	212	223	204
5.	East Garo Hills	167	194	205	188
6.	West Garo Hills	1141	1527	1178	1282
7.	South Garo Hills	3	3	4	4
	<b>State (Overall)</b>	<b>2550</b>	<b>2929</b>	<b>2637</b>	<b>2705</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	1355	1254	1263	1291
3.	West Khasi Hills	748	812	817	792
4.	Jaintia Hills	459	497	506	487
5.	East Garo Hills	448	480	483	470
6.	West Garo Hills	2374	2773	2397	2515
7.	South Garo Hills	19	20	20	20
	<b>State (Overall)</b>	<b>5403</b>	<b>5836</b>	<b>5486</b>	<b>5575</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	0.850	0.870	0.840	0.854
2.	Ri – Bhoi	1.140	1.150	1.050	1.114
3.	West Khasi Hills	0.830	0.860	0.790	0.827
4.	Jaintia Hills	0.750	0.780	0.720	0.751
5.	East Garo Hills	0.670	0.690	0.660	0.674
6.	West Garo Hills	0.720	0.750	0.730	0.734
7.	South Garo Hills	0.630	0.690	0.650	0.657
	<b>State (Overall)</b>	<b>0.761</b>	<b>0.786</b>	<b>0.745</b>	<b>0.765</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	0.376	0.407	0.404	0.395
2.	Ri – Bhoi	0.443	0.441	0.416	0.434
3.	West Khasi Hills	0.327	0.328	0.320	0.325
4.	Jaintia Hills	0.271	0.272	0.268	0.271
5.	East Garo Hills	0.305	0.327	0.339	0.323
6.	West Garo Hills	0.341	0.364	0.348	0.351
7.	South Garo Hills	0.309	0.361	0.338	0.336
	<b>State (Overall)</b>	<b>0.327</b>	<b>0.341</b>	<b>0.335</b>	<b>0.334</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	9.090	9.310	8.780	9.064
2.	Ri – Bhoi	9.100	9.300	8.750	9.052
3.	West Khasi Hills	8.250	8.580	8.200	8.346
4.	Jaintia Hills	8.920	9.080	8.850	8.953
5.	East Garo Hills	8.800	8.820	8.030	8.471
6.	West Garo Hills	8.480	8.500	7.900	8.294
7.	South Garo Hills	7.400	7.750	7.350	7.505
	<b>State (Overall)</b>	<b>9.010</b>	<b>9.205</b>	<b>8.680</b>	<b>8.968</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	7.947	8.126	7.612	7.898
2.	Ri – Bhoi	7.487	7.945	7.479	7.638
3.	West Khasi Hills	6.999	7.281	6.948	7.072
4.	Jaintia Hills	7.816	8.017	7.755	7.865
5.	East Garo Hills	7.040	6.415	5.789	6.454
6.	West Garo Hills	4.721	4.732	4.399	4.618
7.	South Garo Hills	5.481	5.167	4.992	5.185
	<b>State (Overall)</b>	<b>7.333</b>	<b>7.601</b>	<b>7.146</b>	<b>7.363</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	1.910	1.900	1.780	1.864
3.	West Khasi Hills	1.880	1.870	1.840	1.865
4.	Jaintia Hills	1.840	1.850	1.810	1.831
5.	East Garo Hills	1.720	1.750	1.690	1.719
6.	West Garo Hills	1.840	1.880	1.860	1.860
7.	South Garo Hills	1.610	1.580	1.540	1.610
	<b>State (Overall)</b>	<b>1.848</b>	<b>1.866</b>	<b>1.815</b>	<b>1.843</b>



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

Sl. No.	Name of Districts	Milch			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0	0	0	0
2.	Ri – Bhoi	0.935	1.044	0.948	0.975
3.	West Khasi Hills	0.955	0.884	0.856	0.897
4.	Jaintia Hills	1.122	1.061	1.012	1.064
5.	East Garo Hills	1.079	1.043	0.973	1.031
6.	West Garo Hills	0.956	0.845	0.946	0.912
7.	South Garo Hills	1.356	1.343	1.232	1.288
	<b>State (Overall)</b>	<b>0.976</b>	<b>0.929</b>	<b>0.943</b>	<b>0.949</b>

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	413	435	406	1254
2.	Ri – Bhoi	1005	1032	893	2930
3.	West Khasi Hills	1548	1659	1468	4675
4.	Jaintia Hills	1370	1452	1280	4102
5.	East Garo Hills	1862	1962	1778	5602
6.	West Garo Hills	2798	2981	2751	8530
7.	South Garo Hills	369	425	380	1174
	<b>State (Overall)</b>	<b>9365</b>	<b>9946</b>	<b>8956</b>	<b>28267</b>

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6522	6789	6145	19456
2.	Ri – Bhoi	6535	6833	6227	19595
3.	West Khasi Hills	321	343	317	981
4.	Jaintia Hills	848	885	820	2553
5.	East Garo Hills	34	35	30	99
6.	West Garo Hills	1194	1222	1102	3518
7.	South Garo Hills	36	36	32	104
	<b>State (Overall)</b>	<b>15490</b>	<b>16143</b>	<b>14673</b>	<b>46306</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	154	161	144	459
3.	West Khasi Hills	87	88	84	259
4.	Jaintia Hills	63	65	62	190
	East Garo Hills	59	62	56	177
6.	West Garo Hills	277	288	272	837
7.	South Garo Hills	3	3	3	9
	<b>State (Overall)</b>	<b>643</b>	<b>667</b>	<b>621</b>	<b>1931</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	19.46	20.71	-	20.71	20.37	(+) 1.67 %
2.	Ri – Bhoi	2.93	19.56	22.52	0.46	22.98	22.41	(+) 2.54 %
3.	West Khasi Hills	4.68	0.98	5.66	0.26	5.92	5.82	(+) 1.72 %
4.	Jaintia Hills	4.10	2.55	6.65	0.19	6.84	6.63	(+) 3.17 %
5.	East Garo Hills	5.60	0.10	5.70	0.18	5.88	5.64	(+) 4.26 %
6.	West Garo Hills	8.58	3.52	12.05	0.84	12.89	12.49	(+) 3.20 %
7.	South Garo Hills	1.17	0.10	1.27	0.01	1.28	1.26	(+) 1.59 %
	<b>State (Overall)</b>	<b>28.26</b>	<b>46.30</b>	<b>74.56</b>	<b>1.94</b>	<b>76.50</b>	<b>74.62</b>	<b>(+) 2.52 %</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

**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

**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 %

## Chapter – 5

### Districtwise & Seasonwise Estimates.

#### Egg Production

**Table 5.1. (a) : Districtwise and Season Wise Estimated No. of Poultry (Fowls), 2007-08  
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	1050	790	1125	1006	1042	2358	556	7927
Monsoon	1061	798	1143	1035	1052	2378	565	8032
Winter	1040	805	1162	1025	1033	2338	560	7963
<b>Overall</b>	<b>1050</b>	<b>798</b>	<b>1143</b>	<b>1022</b>	<b>1042</b>	<b>2358</b>	<b>560</b>	<b>7973</b>
<b><u>Improved</u></b>								
Summer	196	142	28	187	34	50	2	639
Monsoon	194	143	28	191	34	51	2	643
Winter	198	140	23	189	33	50	2	635
<b>Overall</b>	<b>196</b>	<b>142</b>	<b>26</b>	<b>189</b>	<b>34</b>	<b>50</b>	<b>2</b>	<b>639</b>
<b><u>Total</u></b>								
Summer	1246	932	1153	1193	1076	2408	558	8566
Monsoon	1255	941	1171	1226	1086	2429	567	8675
Winter	1238	945	1185	1214	1066	2388	562	8598
<b>Overall</b>	<b>1246</b>	<b>940</b>	<b>1169</b>	<b>1211</b>	<b>1076</b>	<b>2408</b>	<b>562</b>	<b>8612</b>

**Table 5.1. (b) : Districtwise and Seasonwise Estimated No. of Poultry (Ducks), 2007-08.  
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	167	16	248
Monsoon	20	9	10	19	7	169	16	250
Winter	20	9	10	18	7	166	15	245
<b>Overall</b>	<b>20</b>	<b>9</b>	<b>10</b>	<b>19</b>	<b>7</b>	<b>167</b>	<b>16</b>	<b>248</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>-</b>	<b>8</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>16</b>
<b><u>Total</u></b>								
Summer	21	15	10	27	7	168	16	264
Monsoon	21	15	10	28	7	170	16	267
Winter	21	15	10	26	7	167	15	261
<b>Overall</b>	<b>21</b>	<b>15</b>	<b>10</b>	<b>27</b>	<b>7</b>	<b>168</b>	<b>16</b>	<b>264</b>

**Table 5.2. (a) : Districtwise and Season Wise Estimated Yield per Layer (Fowls), 2007-08**

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	35	33	35	34	34	33	34
Monsoon	34	36	34	36	34	36	34	35
Winter	34	34	32	34	35	34	32	34
<b>Overall</b>	<b>103</b>	<b>105</b>	<b>99</b>	<b>105</b>	<b>103</b>	<b>104</b>	<b>99</b>	<b>103</b>
<b><u>Improved</u></b>								
Summer	76	74	66	71	63	67	60	72
Monsoon	77	76	69	73	64	68	61	74
Winter	78	74	67	67	62	66	59	72
<b>Overall</b>	<b>231</b>	<b>224</b>	<b>202</b>	<b>211</b>	<b>189</b>	<b>201</b>	<b>180</b>	<b>218</b>
<b><u>Total</u></b>								
Summer	41	41	34	41	35	35	33	37
Monsoon	41	42	35	42	35	37	34	38
Winter	41	40	33	39	36	35	32	37
<b>Overall</b>	<b>123</b>	<b>123</b>	<b>102</b>	<b>122</b>	<b>106</b>	<b>107</b>	<b>99</b>	<b>112</b>



**Table 5.2. (b) : Districtwise and Seasonwise Estimated Yield per Layer (Ducks), 2007-08.**

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	35	33	35	33	34	33	34
Monsoon	32	36	34	36	34	36	34	35
Winter	34	34	32	34	35	34	32	34
<b>Overall</b>	<b>101</b>	<b>105</b>	<b>99</b>	<b>105</b>	<b>102</b>	<b>104</b>	<b>99</b>	<b>103</b>
<b><u>Improved</u></b>								
Summer	77	74	-	72	-	68	-	73
Monsoon	77	76	-	71	-	69	-	73
Winter	76	75	-	68	-	67	-	71
<b>Overall</b>	<b>230</b>	<b>225</b>	<b>-</b>	<b>211</b>	<b>-</b>	<b>203</b>	<b>-</b>	<b>217</b>
<b><u>Total</u></b>								
Summer	38	49	33	47	33	34	33	36
Monsoon	35	51	34	46	34	36	34	38
Winter	36	49	32	46	35	34	32	36
<b>Overall</b>	<b>109</b>	<b>149</b>	<b>99</b>	<b>139</b>	<b>102</b>	<b>104</b>	<b>99</b>	<b>110</b>

**Table 5.3. (a) : Districtwise and Season Wise Estimated Egg Production (Fowls), 2007-08. (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	36.76	27.66	37.13	35.19	35.43	80.17	18.33	270.67
Monsoon	36.06	28.72	38.87	37.26	35.76	85.60	19.22	281.49
Winter	35.35	27.38	37.17	34.86	36.14	79.50	17.93	268.33
<b>Overall</b>	<b>108.17</b>	<b>83.76</b>	<b>113.17</b>	<b>107.31</b>	<b>107.33</b>	<b>245.27</b>	<b>55.48</b>	<b>820.49</b>
<b><u>Improved</u></b>								
Summer	14.91	10.48	1.85	13.30	2.11	3.37	0.11	46.13
Monsoon	14.95	10.87	1.95	13.93	2.16	3.46	0.11	47.43
Winter	15.47	10.37	1.53	12.67	2.06	3.29	0.11	45.50
<b>Overall</b>	<b>45.33</b>	<b>31.72</b>	<b>5.33</b>	<b>39.90</b>	<b>6.33</b>	<b>10.12</b>	<b>0.33</b>	<b>139.06</b>
<b><u>Total</u></b>								
Summer	51.67	38.14	38.98	48.49	37.54	83.54	18.44	316.80
Monsoon	51.01	39.59	40.82	51.19	37.92	89.06	19.33	328.92
Winter	50.82	37.75	38.70	47.53	38.20	82.79	18.04	313.83
<b>Overall</b>	<b>153.50</b>	<b>115.48</b>	<b>118.50</b>	<b>147.21</b>	<b>113.66</b>	<b>255.39</b>	<b>55.81</b>	<b>959.55</b>

**Table 5.3. (b) : Districtwise and Seasonwise Estimated Egg production (Ducks), 2007-08.  
(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	0.71	0.32	0.33	0.65	0.22	5.68	0.52	8.43
Monsoon	0.65	0.34	0.34	0.68	0.23	6.08	0.54	8.86
Winter	0.67	0.32	0.31	0.63	0.23	5.63	0.50	8.29
<b>Overall</b>	<b>2.03</b>	<b>0.98</b>	<b>0.98</b>	<b>1.96</b>	<b>0.68</b>	<b>17.39</b>	<b>1.56</b>	<b>25.58</b>
<b><u>Improved</u></b>								
Summer	0.09	0.41	-	0.61	-	0.07	-	1.18
Monsoon	0.09	0.43	-	0.61	-	0.07	-	1.20
Winter	0.08	0.42	-	0.56	-	0.08	-	1.14
<b>Overall</b>	<b>0.26</b>	<b>1.26</b>	<b>-</b>	<b>1.78</b>	<b>-</b>	<b>0.22</b>	<b>-</b>	<b>3.52</b>
<b><u>Total</u></b>								
Summer	0.80	0.73	0.33	1.26	0.22	5.75	0.52	9.61
Monsoon	0.74	0.77	0.34	1.29	0.23	6.15	0.54	10.06
Winter	0.75	0.74	0.31	0.19	0.23	5.71	0.50	9.43
<b>Overall</b>	<b>2.29</b>	<b>2.24</b>	<b>0.98</b>	<b>3.74</b>	<b>0.68</b>	<b>17.61</b>	<b>1.56</b>	<b>29.10</b>

**Table 5.4. (a) : Estimated Total Egg production. (Lakhs Numbers), 2007-08.**

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	51.67	0.79	51.01	0.74	50.82	0.76
2.	Ri – Bhoi	38.14	0.73	39.60	0.77	37.76	0.73
3.	West Khasi Hills	38.98	0.33	40.82	0.34	38.70	0.31
4.	Jaintia Hills	48.49	1.26	51.19	1.29	47.52	1.19
5.	East Garo Hills	37.54	0.22	37.92	0.23	38.19	0.23
6.	West Garo Hills	83.54	5.76	89.05	6.15	82.80	5.70
7.	South Garo Hills	18.44	0.52	19.33	0.54	18.04	0.50
	<b>State (Overall)</b>	<b>316.80</b>	<b>9.61</b>	<b>328.92</b>	<b>10.06</b>	<b>313.83</b>	<b>9.42</b>

**Table 5.4. (b) : Estimated Total Egg production. (Lakhs Numbers), 2007-08.**

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2007-08	Annual Production Previous Year 2006-07	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	153.50	2.29	155.79	153.14	(+) 1.73 %
2.	Ri – Bhoi	115.48	2.24	117.72	117.52	(+) 0.17 %
3.	West Khasi Hills	118.50	0.98	119.48	118.39	(+) 0.92 %
4.	Jaintia Hills	147.21	3.74	150.95	151.09	(-) 0.66 %
5.	East Garo Hills	113.65	0.68	114.33	113.65	(+) 0.60 %
6.	West Garo Hills	255.39	17.61	273.00	268.65	(+) 1.62 %
7.	South Garo Hills	55.81	1.56	57.37	55.55	(+) 3.28 %
	<b>State (Overall)</b>	<b>959.54</b>	<b>29.10</b>	<b>988.64</b>	<b>977.99</b>	(+) 1.09 %

**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

**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

## 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	92.66	3.14	4.20	100 %
Monsoon	90.67	5.03	4.30	100 %
Winter	92.79	3.24	3.97	100 %
<b>Overall</b>	<b>92.04</b>	<b>3.80</b>	<b>4.16</b>	<b>100 %</b>

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

Season	Utilisation for Home consumption	Set for Hatching	Egg Sold	Damaged or Spoiled	Total
Summer	36.08	13.92	84.82	1.18	100 %
Monsoon	25.98	14.32	58.64	1.06	100 %
Winter	36.34	14.53	47.68	1.45	100 %
<b>Overall</b>	<b>32.31</b>	<b>14.24</b>	<b>52.24</b>	<b>1.21</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	84.17	7.29	8.54	79.87	10.82	9.31	74.33	15.69	9.98
	(b) Dry & not Calved even once	91.21	3.43	5.36	86.58	6.94	6.48	78.79	8.68	11.98
	(c) Adult Male	83.62	-	14.89	91.78	-	8.22	83.70	-	16.30
	(d) Young Stock upto 3 Years old.	86.26	5.00	8.74	90.15	4.47	5.38	79.08	8.74	12.18
	<b>Overall :-</b>	<b>87.96</b>	<b>3.92</b>	<b>8.12</b>	<b>87.68</b>	<b>5.60</b>	<b>6.72</b>	<b>79.20</b>	<b>8.40</b>	<b>16.80</b>
<b>1.2</b>	<b>CROSS BRED</b>									
	(a) In Milk	6.81	81.20	11.99	8.85	85.77	5.38	6.63	71.60	22.11
	(b) Dry & not Calved even once	21.78	58.28	19.94	16.06	28.47	55.47	10.74	52.62	36.64
	(c) Adult Male	42.50	27.50	30.00	28.36	25.37	46.27	27.16	41.97	30.86
	(d) Young Stock upto 3 Years old.	21.61	62.31	16.08	17.02	59.57	23.40	35.06	32.18	32.76
	<b>Overall :-</b>	<b>17.80</b>	<b>65.23</b>	<b>16.97</b>	<b>14.34</b>	<b>60.04</b>	<b>25.63</b>	<b>14.84</b>	<b>58.21</b>	<b>28.61</b>
<b>2</b>	<b>BUFFALOES</b>									
	(a) In Milk	77.54	6.95	15.51	83.78	4.63	11.58	79.02	6.25	14.73
	(b) Dry & not Calved even once	83.33	4.86	11.81	80.67	6.00	13.33	77.27	8.08	14.65
	(c) Adult Male	86.79	3.78	9.43	84.77	5.08	10.15	75.86	9.48	14.66
	(d) Young Stock upto 3 Years old.	73.64	7.27	19.09	68.42	13.16	18.42	67.30	13.83	18.87
	<b>Overall :-</b>	<b>80.07</b>	<b>5.85</b>	<b>14.08</b>	<b>81.67</b>	<b>6.01</b>	<b>12.32</b>	<b>75.32</b>	<b>9.04</b>	<b>15.64</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	3.65	17.47	3.64
	Dry	1.87	7.75	1.82
	Concentrate	1.41	3.91	0.38
Monsoon	Green	3.19	17.00	3.98
	Dry	1.91	9.31	1.67
	Concentrate	1.31	3.93	0.65
Winter	Green	3.01	14.42	1.62
	Dry	1.08	12.31	3.13
	Concentrate	1.35	3.73	0.62

**Table 6.5. : Season wise Utilisation of Dung collected From Bovine at Sample Household 2007-08.**

Sl No.	Particulars	Unit	Summer	Monsoon	Winter	Over all
1.	Total No. of Sample animals observed for Dung Utilisation.	No	4779	4771	5316	14866
2.	Average quantity of Dung collected per animal per day.	Kg	3.46	3.28	3.36	3.34
3.	Dung utilised for manure.	Percentage	95.65	95.69	95.41	95.59
4.	Dung utilised for Dung cake.	Percentage	3.60	3.23	3.34	3.39
5.	Dung utilised for other purpose.	Percentage	0.75	1.07	1.25	1.03

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

Items	Unit	Per Capita Availability
Milk	Grams / day	76
Eggs	Nos. / year	36



## Chapter -7

### Meat Production – 2007-08

**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.	42599	6298	9333	4919	3672	9594	2241	<b>78656</b>	<b>36904</b>	<b>41752</b>
(b)	Buffaloes.	122	78	-	436	54	467	-	<b>1157</b>	<b>1157</b>	<b>-</b>
(c)	Pig	40145	5801	8598	7714	5814	6576	3208	<b>77856</b>	<b>70191</b>	<b>7665</b>
(d)	Sheep & Goat.	19361	2542	928	5377	3171	4475	1474	<b>37328</b>	<b>36500</b>	<b>828</b>
(e)	Poultry.	740027	69629	92058	107593	61920	101877	15023	<b>1188127</b>	<b>983199</b>	<b>204928</b>
	<b><u>MONSOON</u></b>										
(a)	Cattle.	43861	5066	9052	5567	3924	9014	2419	<b>78903</b>	<b>47220</b>	<b>31683</b>
(b)	Buffaloes.	143	90	-	742	68	632	-	<b>1675</b>	<b>1675</b>	<b>-</b>
(c)	Pig.	36971	6189	9448	7916	5111	10174	3068	<b>78877</b>	<b>71450</b>	<b>7427</b>
(d)	Sheep & Goat.	19552	2675	1104	5381	3078	6940	1727	<b>40457</b>	<b>39661</b>	<b>796</b>
(e)	Poultry.	724725	92041	101699	135854	49983	109932	16083	<b>1230317</b>	<b>1050042</b>	<b>180275</b>
	<b><u>WINTER</u></b>										
(a)	Cattle.	44614	5284	9379	5603	3795	8677	2583	<b>79935</b>	<b>52946</b>	<b>26989</b>
(b)	Buffaloes.	120	68	-	629	51	510	-	<b>1375</b>	<b>1375</b>	<b>-</b>
(c)	Pig.	38589	6136	9674	8135	4957	9633	3433	<b>80557</b>	<b>72893</b>	<b>7664</b>
(d)	Sheep & Goat.	19166	1963	1100	4589	2716	5998	1452	<b>36984</b>	<b>36117</b>	<b>867</b>
(e)	Poultry.	769606	74126	96361	127543	66263	126141	17747	<b>1277787</b>	<b>1078421</b>	<b>199366</b>

**Table 7.2. : District wise Numbers of Animals Slaughtered (Overall)**

**'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	131.07	16.65	27.76	16.09	11.39	27.29	7.24	<b>237.49</b>	137.07	100.42
2.	Buffaloes	0.38	0.24	-	1.81	0.17	1.61	-	<b>4.21</b>	-	-
3.	Pig	115.71	18.13	27.72	23.77	15.88	26.38	9.71	<b>237.3</b>	214.54	22.76
4.	Sheep & Goat	58.08	7.18	3.13	15.35	8.97	17.41	4.65	<b>114.77</b>	112.28	2.49
5.	Poultry	2234.36	235.79	290.12	370.99	178.17	337.95	48.85	<b>3696.23</b>	3111.66	584.57

**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.	89.61	88.84	89.03	89.51	88.14	89.25	88.39	<b>89.33</b>
(b)	Buffaloes.	119.35	118.04	-	118.48	120.53	117.37	-	<b>118.19</b>
(c)	Pig.	43.46	41.89	42.09	41.50	41.57	41.73	39.98	<b>42.57</b>
(d)	Sheep & Goat.	8.93	8.88	9.04	8.94	9.06	8.93	9.53	<b>8.97</b>
(e)	Poultry.	1.11	1.06	0.90	0.94	0.91	0.96	0.92	<b>1.05</b>
	<b><u>MONSOON</u></b>								
(a)	Cattle.	89.53	86.50	85.47	88.16	86.59	84.43	87.40	<b>87.98</b>
(b)	Buffaloes.	118.35	117.50	-	118.42	118.22	118.90	-	<b>118.54</b>
(c)	Pig.	42.43	41.89	42.37	40.87	41.39	40.62	40.32	<b>41.84</b>
(d)	Sheep & Goat.	9.14	9.14	9.06	9.17	9.03	8.88	9.14	<b>9.09</b>
(e)	Poultry.	1.12	1.10	1.07	1.07	1.11	1.05	0.98	<b>1.10</b>
	<b><u>WINTER</u></b>								
(a)	Cattle.	89.91	86.59	85.68	87.13	87.28	89.60	89.32	<b>88.82</b>
(b)	Buffaloes.	118.12	119.09	-	115.37	116.22	115.47	-	<b>115.86</b>
(c)	Pig.	44.23	42.63	42.10	41.26	41.88	41.76	40.32	<b>42.95</b>
(d)	Sheep & Goat.	9.03	9.12	9.02	8.93	8.87	8.91	8.90	<b>8.99</b>
(e)	Poultry.	1.21	1.04	0.95	0.98	0.90	0.93	0.94	<b>1.11</b>

**Table 7.4. : District wise Average Yield per Animal (In Kg.) Overall.**

Sl No.	Name of Districts	Cattle	Buffaloes	Pigs	Sheep & Goat	Poultry
1	2	3	4	5	6	7
1.	East Khasi Hills	89.68	118.61	43.37	9.03	1.15
2.	Ri – Bhoi	87.31	118.21	42.14	9.05	1.07
3.	West Khasi Hills	86.73	-	42.19	9.04	0.97
4.	Jaintia Hills	88.27	117.42	41.21	9.01	1.00
5.	East Garo Hills	87.34	118.32	41.61	8.99	0.97
6.	West Garo Hills	87.76	117.25	41.37	8.91	0.98
7.	South Garo Hills	88.37	-	40.21	9.19	0.95
	<b>State (Overall)</b>	<b>88.71</b>	<b>117.57</b>	<b>42.46</b>	<b>9.02</b>	<b>1.09</b>

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

Sl No.	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State	Source	
										Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12
	<b><u>SUMMER</u></b>										
1.	Cattle.	3817	560	831	440	324	856	198	<b>7026</b>	3296	3730
2.	Buffaloes	15	9	-	52	6	55	-	<b>137</b>	137	-
3.	Pigs	1745	243	362	320	242	274	128	<b>3314</b>	2988	326
4.	Sheep & Goat.	173	23	8	48	29	40	14	<b>335</b>	300	35
5.	Poultry.	821	74	83	101	56	98	14	<b>1247</b>	1247	-
	<b>TOTAL</b>	<b>6571</b>	<b>909</b>	<b>1284</b>	<b>961</b>	<b>657</b>	<b>1323</b>	<b>354</b>	<b>12059</b>	7968	4091
	<b><u>MONSOON</u></b>										
1.	Cattle.	3927	438	774	491	340	761	211	<b>6942</b>	4155	2787
2.	Buffaloes	17	10	-	88	8	75	-	<b>198</b>	198	-
3.	Pigs	1569	259	400	323	212	413	124	<b>3300</b>	2989	311
4.	Sheep & Goat.	179	24	10	49	28	62	16	<b>368</b>	361	7
5.	Poultry.	812	101	109	145	56	115	16	<b>1353</b>	1353	-
	<b>TOTAL</b>	<b>6504</b>	<b>832</b>	<b>1293</b>	<b>1096</b>	<b>643</b>	<b>1426</b>	<b>367</b>	<b>12161</b>	9056	3105
	<b><u>WINTER</u></b>										
1.	Cattle.	4011	458	804	488	331	777	231	<b>7100</b>	4703	2397
2.	Buffaloes	14	8	-	73	6	59	-	<b>160</b>	160	-
3.	Pigs	1707	262	407	336	208	402	138	<b>3460</b>	3131	329
4.	Sheep & Goat.	173	18	10	41	24	53	13	<b>332</b>	324	8
5.	Poultry.	931	77	91	125	60	117	17	<b>1418</b>	1418	-
	<b>TOTAL</b>	<b>6836</b>	<b>823</b>	<b>1312</b>	<b>1063</b>	<b>629</b>	<b>1408</b>	<b>399</b>	<b>12470</b>	9736	2734
	<b>OVERALL</b>	<b>19911</b>	<b>2564</b>	<b>3889</b>	<b>3120</b>	<b>1929</b>	<b>4157</b>	<b>1120</b>	<b>36690</b>	26760	9930

**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	11755	1456	2409	1419	995	2394	640	<b>21068</b>	12154	8914
2.	Buffaloes	46	27	-	213	20	189	-	<b>495</b>	495	-
3.	Pig	5021	764	1169	979	662	1089	390	<b>10074</b>	9108	966
4.	Sheep & Goat	525	65	28	138	81	155	43	<b>1035</b>	985	50
5.	Poultry	2564	252	283	371	171	330	47	<b>4018</b>	4018	-
	<b>TOTAL</b>	<b>19911</b>	<b>2564</b>	<b>3889</b>	<b>3120</b>	<b>1929</b>	<b>4157</b>	<b>1120</b>	<b>36690</b>	<b>26760</b>	<b>9930</b>

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

Sl No.	Name of Districts	Meat Production Category Wise (Tonnes)						Annual Production 2007-08 (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	11755	46	11801	5020	525	2564	19910	54.27%
2.	Ri – Bhoi	1456	28	1484	764	65	252	2564	6.99%
3.	West Khasi Hills	2408	-	2408	1170	28	283	3889	10.60%
4.	Jaintia Hills	1419	212	1631	979	138	372	3120	8.50%
5.	East Garo Hills	995	20	1015	661	81	171	1928	5.25%
6.	West Garo Hills	2395	189	2584	1090	155	331	4160	11.34%
7.	South Garo Hills	640	-	640	390	43	46	1119	3.05%
	<b>State (Overall)</b>	<b>21068</b>	<b>495</b>	<b>21563</b>	<b>10074</b>	<b>1035</b>	<b>4019</b>	<b>36690</b>	<b>100%</b>
	Percentage Contribution of each species to total production	57.42%	1.35%	58.77%	27.46%	2.82%	10.95%	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
		2007-08			2006-07			
		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)	12649	8914	21563	11730	9670	21400	(+)0.76%
2	Pork	9108	966	10074	8543	1453	9996	(+)0.78%
3	Mutton	985	50	1035	1001	29	1030	(+)0.49%
4	Chicken	4018	-	4018	3979	-	3979	(+)0.98%
5	<b>Total</b>	26760	9930	36690	25253	11152	36405	(+)0.78%

**7.9. : Per Capita Availability of Meat per Day / Grams 2007-08**

Items	Per Capita Availability
Beef	21.40
Pork	10.00
Mutton	1.03
Chicken	3.99
<b>Total</b>	<b>36.42</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

**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

**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



## ANNEXURE – I

### Comparative Analysis showing production estimate with effect from the year 1983-84 to 2006-07 and Target for the Year 2007-08.

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	98.9
Anticipated for 2008-09	79.30	42	102.0

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