



Government of Meghalaya

**REPORT ON INTEGRATED
SAMPLE SURVEY
FOR**

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

YEAR : 2012-13.



**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 2012– 2013 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 **1.03** % on Milk, **0.69** % on Egg and **0.76** % on Meat over 2011-12.

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. J.S.Jyrwa
Director A.H. & Veterinary Department
Meghalaya,Shillong.

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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 and 29.67 lakhs as per 2011 Census (Provisional). Percentage of Urban population is 19.63, and percentage of Literacy is 63.31. Table 1.2 below indicates the District Wise population both Rural and Urban. The Density per Sq. Km. in the State is 103 persons compared to 1991 Census with a density of 79 persons.

Table 1.1: General Information.

Sl. No.	Name of District	No of Sub-Division	No. of Blocks / Taluks / Tehsils	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
	State (Overall)	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
	State (Overall)	1176087	1142735	2318822	454111	1864711	11139	1992862

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

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

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

Source: Directorate of Economics & Statistics, Meghalaya.

Table 1.4: Classification of Households possessing Bovine according to the size of the Unit during the Year 2012-13.

Sl. No.	Name of District	Percentage of Bovines Keepers (Household)						
		0-1	2-5	6-10	11-15	16-20	21-25	26 and above
1	2	3	4	5	6	7	8	9
1	East Khasi Hills	5.00	18.4	38.3	13.3	15.00	5.0	5.0
2	Ri – Bhoi	13.80	24.14	41.38	3.44	3.44	13.80	-
3	West Khasi Hills	3.70	27.16	29.63	23.46	8.64	2.47	4.94
4	Jaintia Hills	2.13	29.79	27.66	19.15	17.02	4.25	-
5	East Garo Hills	-	-	8.11	27.02	8.11	8.11	48.65
6	West Garo Hills	-	2.15	8.60	15.05	4.30	16.14	53.76
7	South Garo Hills	-	20.51	28.20	5.13	26.65	2.56	17.95
	State (Overall)	2.84	16.58	24.35	16.32	10.90	7.80	21.24

Table 1.5 Area Sq.Km. with Density of Livestock Population per Sq.Kms.

Sl. No.	Name of District	Area (Sq. Km) 2001	Density per Sq. Km						
			Indigenous Cattle	Crossbred Cattle	Buffaloes	Pig	Sheep	Goat	Poultry
1	2	3	4	5	6	7	8	9	10
1.	East Khasi Hills	2748	17	3	-	38	2	19	163
2.	Ri – Bhoi	2448	20	4	1	15	-	5	144
3.	West Khasi Hills	5247	20	-	1	12	1	10	71
4.	Jaintia Hills	3819	35	-	1	14	-	6	87
5.	East Garo Hills	2603	60	-	-	22	-	15	168
6.	West Garo Hills	3677	59	1	2	22	2	33	193
7.	South Garo Hills	1887	21	-	-	10	-	12	90
	State (Overall)	22,429	33	1	1	19	1	15	126

Table 1.6 Density of Livestock Population per '100' Villages

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

Chapter – 2

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

Table 2.1 Livestock Population (b) Horses & Ponies.

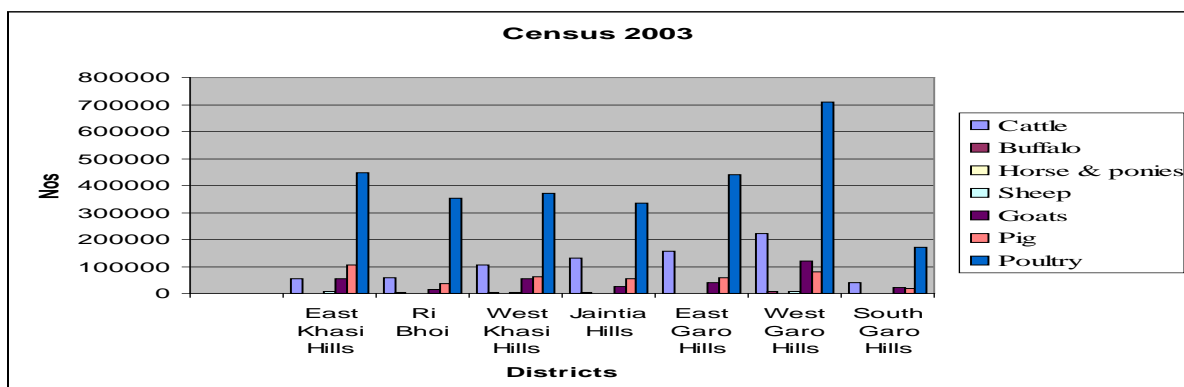
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	266	5510	5776	53041	216
2.	Ri – Bhoi	40	126	166	13407	96
3.	West Khasi Hills	16	5116	5132	54781	1050
4.	Jaintia Hills	130	602	732	24642	415
5.	East Garo Hills	-	41	41	38587	21
6.	West Garo Hills	116	6112	6228	120311	18
7.	South Garo Hills	63	65	128	22563	17
	State (Overall)	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
	State (Overall)	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	-	-	446577
2.	Ri – Bhoi	314533	35253	349786	1698	1456	3154	-	-	352940
3.	West Khasi Hills	360727	9740	370467	1451	-	1451	-	14	371932
4.	Jaintia Hills	304694	23269	327963	4333	1626	5959	-	-	333922
5.	East Garo Hills	426617	10633	437250	1021	62	1083	16	168	438517
6.	West Garo Hills	658652	11044	669696	38103	128	38231	-	-	707927
7.	South Garo Hills	163716	190	163906	5479	-	5479	-	-	169385
	State (Overall)	2625186	136559	2761745	55919	3338	59257	16	182	2821200



**Livestock Census Data 2007
(Provisional)**

Table 2.3: Livestock Population (a) Cattle & Buffaloes.

Sl. No.	Name of District	Cattle		Total Cattle	Buffalo	Total Bovine
		Crossbred	Indigenous			
1.	East Khasi Hills	8789	64485	73274	413	73687
2.	Ri – Bhoi	13188	69933	83121	3289	86410
3.	West Khasi Hills	982	114727	115709	2787	118496
4.	Jaintia Hills	1208	146289	147497	2224	149721
5.	East Garo Hills	211	157823	158034	1415	159449
6.	West Garo Hills	2344	260999	263343	11133	274476
7.	South Garo Hills	126	46139	46265	1366	47631
	State (Overall)	26848	860395	887243	22627	909870

Table 2.3 Livestock Population (b) Horses & Ponies.

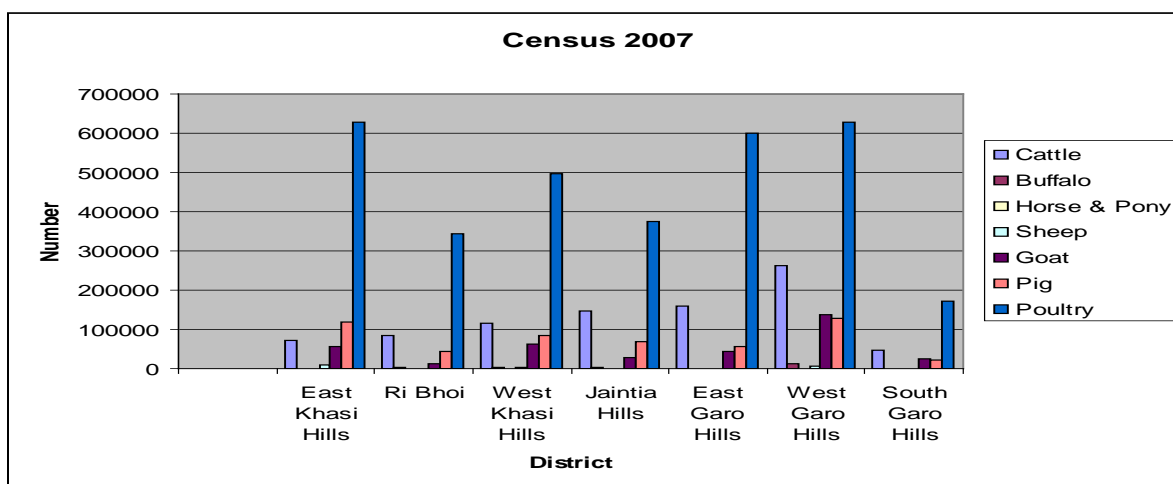
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	3	8954	8957	56632	48
2.	Ri – Bhoi	-	116	116	13835	24
3.	West Khasi Hills	189	3327	3516	61786	1732
4.	Jaintia Hills	30	12	42	27005	33
5.	East Garo Hills	-	1260	1260	43652	0
6.	West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

Table 2.3 (c) Pig Population & Livestock Population and Rabbit.

Sl. No.	Name of District	Pigs		Total Pigs	Total Livestock	Total Rabbits
		Crossbred	Indigenous			
1.	East Khasi Hills	28671	90686	119357	258690	9
2.	Ri – Bhoi	4044	38426	42470	143599	744
3.	West Khasi Hills	9272	76438	85710	270482	85
4.	Jaintia Hills	13776	56432	70208	247013	4
5.	East Garo Hills	9466	46071	55537	259907	9
6.	West Garo Hills	2152	126194	128346	549868	565
7.	South Garo Hills	2776	19953	22729	94473	7
	State (Overall)	70157	454200	524357	1824032	1423

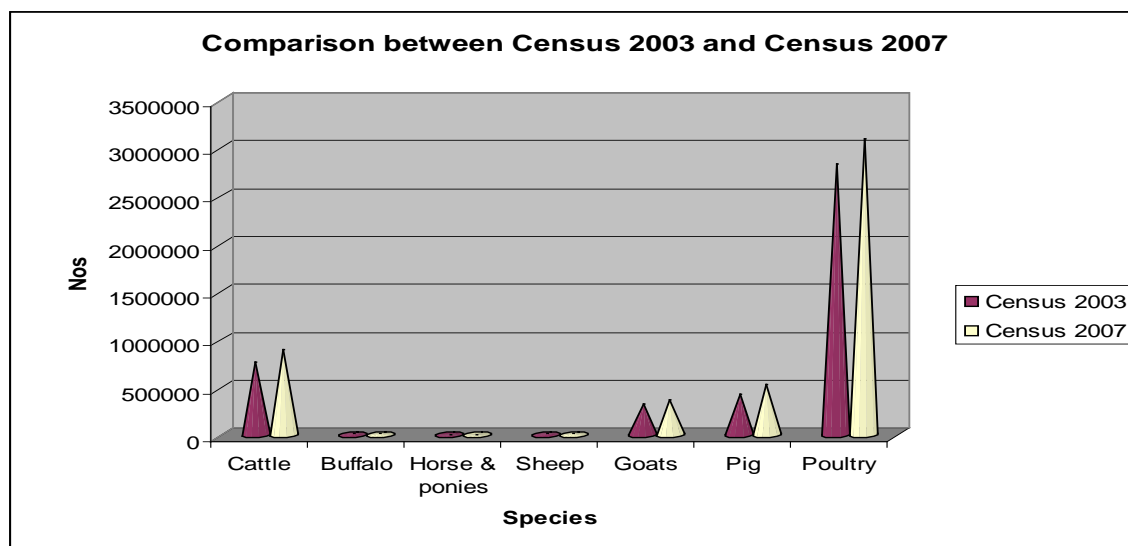
Table 2.4: Poultry Population.

SL No.	Name of Districts	Fowls			Ducks			Turkey	Other Poultry Birds like Guineas, Fowls etc.	Grand Total
		Desi	Impro-ved	Total	Desi	Impro-ved	Total			
1.	East Khasi Hills	417099	53292	470391	4492	370	4862	-	-	629036
2.	Ri – Bhoi	312519	27422	339941	2739	1771	4510	12	-	344451
3.	West Khasi Hills	457059	37166	494225	2727	1285	4012	-	-	498237
4.	Jaintia Hills	329824	37479	367303	5704	1832	7536	-	-	374839
5.	East Garo Hills	505718	88695	594413	4671	659	5330	-	-	599743
6.	West Garo Hills	565964	25131	591095	36037	1904	37941	-	-	629036
7.	South Garo Hills	164816	4313	169129	2032	155	2187	-	9	171316
	State (Overall)	2752999	273498	3026497	58402	7976	66378	12	9	3092896

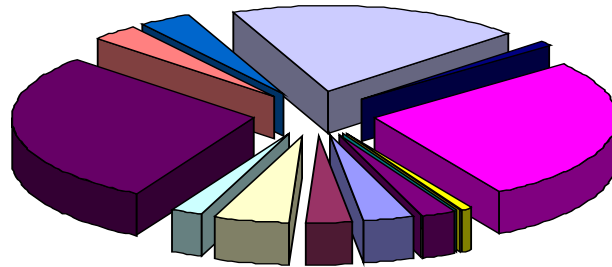


**TABLE – 2.5: LIVESTOCK POPULATION: (as per 2007 Census)
and Growth Rate as compared to 2003 Census**

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

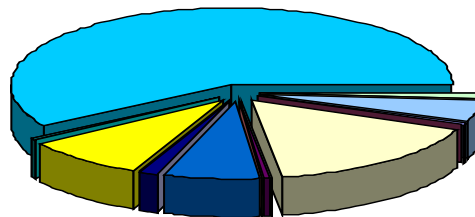


Growth Rate of Census 2007 to 2003 (in %)



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

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



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

Chapter –3

ANALYSIS OF THE INTEGRATED SAMPLE SURVEY RESULTS FOR THE YEAR

3.1. - Integrated Sample Survey- Genesis and its usefulness.

Integrated Sample Survey for estimation of Major Livestock Products was first conducted during the year 1983-84. Prior to this period, the basic data for planning and formulation of Schemes for economic developments on scientific lines both in A.H. & Dairying was the census figures only, but the census figures gives the information only the Livestock numbers at five years intervals as no information was collected therein on Livestock Production and other aspects of Livestock economy. The census is inadequate to provide timely and available data on the Livestock numbers and products. The importance of availability of Livestock production data which is badly needed for formulating Livestock Development Programmes at all levels has activate the State Animal Husbandry & Veterinary Department to take initiative steps in conducting Sample Survey on the basis of the Methodology evolved by the Indian Agricultural Statistics Research Institute as per the recommendation of the Government of India, Ministry of Agriculture, Department of Animal Husbandry & Dairying.

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

With the financial help and technical advice and guidance through training programmes based as per prescribed Methodology formulated by the Ministry of Agriculture, Department of Animal Husbandry & Dairying an actual production estimate of Milk, Meat & Egg, etc could be arrived at. The result of the Survey data could be published every year, which provides basic information on the actual production level. The availability of current level estimates has become a source of data base information in the State Animal Husbandry Sector for planning and formulating development programmes.

3.2. Coverage of the Survey: - The Survey covered all the Districts of the State.

3.3. Period of Survey: - **The year is divided into three season for Field Work as detailed below.**

- | | | |
|-------------------|---|----------------------|
| 1. Summer Season | : | March – June. |
| 2. Monsoon Season | : | July – October. |
| 3. Winter Season | : | November – February. |

3.4. Methodology / Sampling Plan. :-

The Sampling Plan approved by the Technical Committee of Direction (TCD) was as follows:-

The Animal Husbandry Districts in the State would be the strata, Primary Stage unit of Sampling would be villages and the household possessing Livestock / Poultry form the second stage unit. The ultimate units for recording Milk / Wool Yield would be animal in Milk / Sheep where as no Sub-Sampling in a household would be done for recording the production of eggs and meat.

For estimating the numbers of Livestock and Poultry, complete enumeration of household's alongwith Bovines, Sheep and Poultry is taken would be done in a Sample of 15% Villages in the State. The allocation of the Sample of Villages to strata would be done in proportion to the Livestock and Poultry population in them as per latest Livestock Census. Each District / Stratum would be further Sub-divided into two or three Sub-strata according to the intensity of Livestock and Poultry population and the Sample of villages in the stratum as per allocation mentioned above further allocated to them sub-strata proportionally.

For recording data on yield of Milk, Wool, Eggs and Meat and attendant Livestock Practices, a sub-sample of 5 villages out of that has been enumerated would be selected with equal probability and without replacement. These villages would again be suitable allocated to the different sub-strata form as mentioned above, from each of the selected villages, the numbers of second stage units to be selected for studying different products would be as follows :-

Milk: - 2 Clusters of 2 households each, eggs- 2 clusters of 5 households each and meat 2 clusters of 10 households in the first round and double of this numbers in the subsequent rounds. The data on Wool Yield will be collected from 5 flocks in the shearing season only. For estimating the numbers of animals slaughtered all the butchers in the selected villages will be covered. The data from the households and butchers will be supplemented by similar data from registered slaughterhouses, for which complete record are available.

The ultimate units of Sampling for recording detailed information will be 2 animals in milk (Cows, buffaloes or both) for estimation of Milk production and 2 rams (or 1 ram and 1 weather) 2 ewes and 2 lambs for recording Wool production where as no Sub-Sampling within a household would be done in the cases of eggs and meat. Information for estimating Meat production per animal would be recorded from a Sample of 3 animals of each species Viz. Sheep, Goat, Pigs and Buffaloes.

3.5. Machinery in the Survey along with staff position.

The complete enumerations of Livestock and Poultry in the 15 % villages are carried out by the departmental staff of Animal Husbandry and Veterinary located close to the selected villages. The information are collected in prescribed schedules I and II and passed out to the Statistical section in the

State Directorate of Animal Husbandry thereof in respective District & Sub-Divisional A.H. & Veterinary Officers.

The collection of data on Yield and other related items are taken up by the Field staff of Statistical Wing of the Directorate and the information are collected and recorded in relevant Schedules.

Regarding Staff Position:-

The Statistical Wing consists of The Deputy Director (Stats.) who is the implementing Officer of the Sample Survey Scheme the Research Officer, The Statistical Officer, The Inspector Statistics, The Statistical Assistants, The Senior Veterinary Field Assistants and some ministerial staff.

3.6. Schedule Prescribed in the Survey.

1. Village Schedule –I – General Information about the Village.
2. Village Schedule – II – Complete enumeration regarding the numbers of Household in the Selected Villages, the numbers of Cattle, both Cross Bred and Indigenous, Buffaloes, Sheep, Goat, Pigs, Poultry and Numbers of Animals slaughtered.

3.7. Types of Data collected.

The details of data collected as mentioned above in each schedules include recording of Milk, Yield of the selected animals, Feed consumption of Bovines, particulars such as breed, number of lactation's completed, production and disposal of milk and milk products, production and disposal of Dung and study of bovines practices, production purchased and disposal of eggs during last twenty four hours feed supplied to poultry birds, diseases, death and disposal during the last one month and breed composition etc. and study of poultry practices. Numbers of animals slaughtered according to species, breed and age on the day of visit, live weight and carcass weight after slaughter in the case of meat production.

3.8. Schedule L.P.S. – 1.2: Detailed of Milk Production.

The information in the Schedule is (i) identification of selected household in the Sub-Sample of the villages (ii) Details of feed consumption on the day of visit (iii) Milk Yield of individual animals on the day of visit and details of utilization of milk (total production) on the previous day.

3.9. Schedule L.P.S. 2.1:-

Details of egg production and attendant practices in selected household, i.e. production purchased and disposal of egg, feed supply etc.

3.10. Schedule Form III:-

Detail of Meat production.

Table 3.11: Summary results

Sl. No.	Items	Unit	Estimates Previous Year 2011-12	Estimate Current Year 2012-13	% of Increase or Decrease over previous Year
I	Milk				
	Indigenous Cows				
	Population				
A	In Milk	00 No.	1065	1081	(+)1.50%
B	Milch	00 No.	2364	2355	(-)0.38%
	Yield per Day				
C	In Milk	Kgs.	0.760	0.769	(+) 1.18%
D	Milch	Kgs.	0.342	0.353	(+) 3.22 %
E	Production	000 tonnes	29.54	30.35	(+) 2.74%
	Crossbred Cows				
	Population				
F	In Milk	00 Nos.	147	147	=%
G	Milch	00 Nos.	180	181	(+) 0.56%
	Yield per day				
H	In Milk	Kgs.	8.960	8.983	(+)0.26 %
I	Milch	Kgs.	7.329	7.291	(-) 0.52%
J	Production	000 tonnes	48.11	48.13	(+) 0.04%

Table 3.11 – contd.

Sl No.	Items	Unit	Estimates Previous Year 2011-12	Estimate Current Year 2012-13	% of Increase or Decrease over previous Year
	Buffalo Population				
K	In Milk	00 No.	30	30	=
L	Milch	00 No.	58	57	(-)1.72%
	Yield per Day				
M	In Milk	Kgs.	1.843	1.842	(-) 0.05%
N	Milch	Kgs.	0.962	0.975	(+) 1.35%
O	Production	000 tonnes	2.023	2.015	(-) 0.40%
	Goat Production				
P	In Milk	00 No.			
Q	Milch	00 No.			
	Yield per Day				
R	In Milk	Kgs.			
S	Milch	Kgs.			
T	Production	000 tonnes			
	Total Milk Production	000 tonnes	79.67	80.49	(+)1.03%
II	Egg Production				
	Layers				
U	Desi	00 No.	8398	8451	(+)0.63%
V	Improved	00 No.	680	688	(+) 1.18%
W	Total	00 No.	9078	9139	(+) 0.67%
	Yield per layer per year				
X	Desi	No.	104	104	=
Y	Improved	No.	217	217	=
	Production				
Z	Desi	Lakhs Nos.	872.84	878.12	(+) 0.60%
Aa	Improved	“	147.81	149.51	(+) 1.15%
Ab	Total	“	1020.65	1027.63	(+) 0.68%

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

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Over-all)
1. (a)	Total No. of District in the State.	7	7	7	7
1. (b)	Strata formed for District levels Estimates.				
2. (a)	Total No. of Villages in the State (inhabited)	5780	5780	5780	5780
2. (b)	No. of villages covered for detailed study.	35	35	35	105
2. ©	No. of villages covered for detailed study.				
	i) for Milk	35	35	35	105
	ii) for Egg	35	35	35	105
3.(a)	Total No. of households in the State. (2001 Census) Lakhs Nos.	4.20	4.20	4.20	4.20
3. (b)	Percentage of Households keeping :-				
	i) Bovine	47.11	41.70	44.37	44.23
	ii) Poultry	80.09m	80.52	80.48	80.37
	iii) Sheep	1.92	1.15	0.65	1.25
	iv) Goat	27.87	22.44	23.01	24.37
	v) Pig	57.57	60.52	67.04	61.46
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)	885	645	740	2270
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	870	617	696	2183
	ii) Buffalo in Milk.	30	63	32	125
	iii) Goat in Milk.				
5. (a)	No. of Households observed for egg production.	892	651	790	2333
5. (b)	No. of Layers observed.				
	i) Desi & Improved	3399	3259	2820	9478
	.				

Table 3.12 – Contd.

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered.'000' Nos.				
	i) Cattle	84.00	85.31	83.21	252.52
	ii) Buffalo	1.37	1.78	1.44	4.59
	iii) Sheep & Goat	39.43	41.60	37.95	118.98
	iv) Pig	80.61	73.40	82.68	236.69
	v) Poultry	1229.15	1274.76	1288.62	3792.53

Table 3.13: District-wise Number of Villages selected for complete enumeration during the year 2012-13.

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

Chapter – 4

District-wise & Season-wise Estimates

Milk Production

2012-2013

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	4237	4323	4280	4280
2.	Ri – Bhoi	7498	7566	7634	7566
3.	West Khasi Hills	16468	16860	16664	16664
4.	Jaintia Hills	15444	15600	15444	15496
5.	East Garo Hills	24435	25095	24435	24655
6.	West Garo Hills	33677	34133	34588	34133
7.	South Garo Hills	5295	5367	5295	5319
	State (Overall)	107054	108944	108340	108113

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	4849	4843	4965	4886
2.	Ri – Bhoi	10960	11031	10824	10938
3.	West Khasi Hills	22718	22650	22522	22630
4.	Jaintia Hills	25995	26176	25658	25943
5.	East Garo Hills	22909	23168	23369	23149
6.	West Garo Hills	34973	35918	34762	35217
7.	South Garo Hills	4708	4636	4601	4648
	State (Overall)	127112	128422	126701	127411

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	9086	9166	9245	9166
2.	Ri – Bhoi	18458	18597	18458	18504
3.	West Khasi Hills	39186	39510	39186	39294
4.	Jaintia Hills	41439	41776	41102	41439
5.	East Garo Hills	47344	48263	47804	47804
6.	West Garo Hills	68650	70051	69350	69350
7.	South Garo Hills	10003	10003	9896	9967
	State (Overall)	234166	237366	235041	235524

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	6026	6124	6075	6075
2.	Ri – Bhoi	6191	6148	6235	6191
3.	West Khasi Hills	328	331	331	330
4.	Jaintia Hills	799	812	805	805
5.	East Garo Hills	37	38	38	38
6.	West Garo Hills	1199	1206	1206	1204
7.	South Garo Hills	35	36	36	36
	State (Overall)	14615	14695	14726	14679

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	1034	1069	1051	1051
2.	Ri – Bhoi	1180	1277	1082	1180
3.	West Khasi Hills	65	65	69	66
4.	Jaintia Hills	129	124	115	123
5.	East Garo Hills	10	9	9	9
6.	West Garo Hills	955	962	948	955
7.	South Garo Hills	23	24	23	23
	State (Overall)	3396	3530	3297	3407

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	7060	7193	7126	7126
2.	Ri – Bhoi	7371	7425	7317	7371
3.	West Khasi Hills	393	396	400	396
4.	Jaintia Hills	928	936	920	928
5.	East Garo Hills	47	47	47	47
6.	West Garo Hills	2154	2168	2154	2159
7.	South Garo Hills	58	60	59	59
	State (Overall)	18011	18225	18023	18086

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

Sl. No.	Name of Districts	In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0	0	0	0
2.	Ri – Bhoi	1318	1309	1300	1309
3.	West Khasi Hills	812	806	806	808
4.	Jaintia Hills	510	506	506	507
5.	East Garo Hills	480	480	476	479
6.	West Garo Hills	2562	2538	2515	2538
7.	South Garo Hills	24	23	22	23
	State (Overall)	2988	2997	3002	2997

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

Sl. No.	Name of Districts	Dry			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0	0	0	0
2.	Ri – Bhoi	624	620	617	620
3.	West Khasi Hills	414	404	404	407
4.	Jaintia Hills	215	213	213	214
5.	East Garo Hills	185	187	186	186
6.	West Garo Hills	1276	1238	1202	1239
7.	South Garo Hills	4	3	1	3
	State (Overall)	2718	2665	2623	2667

Table 4.3 ©: Estimated Number of Productive Buffaloes.

Sl. No.	Name of Districts	Milch			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0	0	0	0
2.	Ri – Bhoi	1318	1309	1300	1309
3.	West Khasi Hills	812	806	806	808
4.	Jaintia Hills	510	506	506	507
5.	East Garo Hills	480	480	476	479
6.	West Garo Hills	2562	2538	2515	2538
7.	South Garo Hills	24	23	22	23
	State (Overall)	5706	5662	5625	5664

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	0.860	0.840	0.850
2.	Ri – Bhoi	1.080	1.120	1.130	1.110
3.	West Khasi Hills	0.850	0.860	0.840	0.850
4.	Jaintia Hills	0.740	0.760	0.730	0.744
5.	East Garo Hills	0.670	0.690	0.660	0.674
6.	West Garo Hills	0.730	0.760	0.720	0.737
7.	South Garo Hills	0.660	0.750	0.650	0.687
	State (Overall)	0.762	0.788	0.757	0.769

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	0.396	0.406	0.389	0.397
2.	Ri – Bhoi	0.439	0.456	0.467	0.454
3.	West Khasi Hills	0.357	0.367	0.357	0.361
4.	Jaintia Hills	0.276	0.284	0.274	0.278
5.	East Garo Hills	0.346	0.359	0.337	0.347
6.	West Garo Hills	0.358	0.370	0.359	0.363
7.	South Garo Hills	0.349	0.402	0.348	0.367
	State (Overall)	0.348	0.362	0.349	0.353

Table 4.5 (a): Estimated Milk Yield per day per animal (Kg.) Crossbred Cows.

Sl. No.	Name of Districts	Cows In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	8.950	9.030	9.000	8.994
2.	Ri – Bhoi	9.080	9.130	9.200	9.136
3.	West Khasi Hills	8.370	8.470	8.240	8.361
4.	Jaintia Hills	8.950	8.990	8.940	8.964
5.	East Garo Hills	8.790	8.870	8.370	8.602
6.	West Garo Hills	8.450	8.530	8.170	8.382
7.	South Garo Hills	7.530	7.830	7.450	7.535
	State (Overall)	8.947	9.013	8.991	8.983

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	7.639	7.688	7.673	7.667
2.	Ri – Bhoi	7.626	7.560	7.840	7.674
3.	West Khasi Hills	6.986	7.080	6.819	6.967
4.	Jaintia Hills	7.706	7.799	7.823	7.776
5.	East Garo Hills	6.920	7.171	6.767	6.954
6.	West Garo Hills	4.704	4.745	4.574	4.675
7.	South Garo Hills	4.544	4.698	4.546	4.598
	State (Overall)	7.260	7.267	7.346	7.291

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	0.000	0.000	0.000	0.000
2.	Ri – Bhoi	1.860	1.890	1.790	1.846
3.	West Khasi Hills	1.885	1.885	1.860	1.875
4.	Jaintia Hills	1.830	1.855	1.815	1.831
5.	East Garo Hills	1.720	1.750	1.680	1.715
6.	West Garo Hills	1.845	1.890	1.860	1.865
7.	South Garo Hills	1.570	1.620	1.550	1.606
	State (Overall)	1.838	1.870	1.820	1.842

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	0.979	0.995	0.940	0.972
3.	West Khasi Hills	0.924	0.940	0.928	0.931
4.	Jaintia Hills	1.059	1.074	1.051	1.062
5.	East Garo Hills	1.057	1.068	1.024	1.049
6.	West Garo Hills	0.926	0.968	0.971	0.955
7.	South Garo Hills	1.308	1.409	1.480	1.396
	State (Overall)	0.963	0.990	0.971	0.975

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	439	457	431	1328
2.	Ri – Bhoi	988	1042	1035	3065
3.	West Khasi Hills	1708	1783	1680	5171
4.	Jaintia Hills	1394	1458	1353	4205
5.	East Garo Hills	1997	2130	1935	6062
6.	West Garo Hills	2999	3191	2988	9178
7.	South Garo Hills	426	495	413	1334
	State (Overall)	9952	10557	9836	30345

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6580	6802	6561	19943
2.	Ri – Bhoi	6858	6904	6883	20646
3.	West Khasi Hills	335	345	327	1007
4.	Jaintia Hills	872	898	864	2634
5.	East Garo Hills	40	41	38	119
6.	West Garo Hills	1236	1265	1182	3684
7.	South Garo Hills	32	35	32	99
	State (Overall)	15953	16290	15888	48131

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	160	147	464
3.	West Khasi Hills	92	93	90	274
4.	Jaintia Hills	66	67	64	197
	East Garo Hills	62	63	58	183
6.	West Garo Hills	289	302	293	885
7.	South Garo Hills	4	4	4	12
	State (Overall)	670	689	656	2015

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 2011-2012	% Increase or Decrease over 2011-12
		Indigenous	Crossbred	Total				
1.	East Khasi Hills	1.33	19.94	21.27	0.00	21.27	21.38	-0.51
2.	Ri – Bhoi	3.07	20.65	23.71	0.46	24.18	23.86	1.34
3.	West Khasi Hills	5.17	1.01	6.18	0.27	6.45	6.28	2.71
4.	Jaintia Hills	4.21	2.63	6.84	0.20	7.04	7.02	0.28
5.	East Garo Hills	6.06	0.12	6.18	0.18	6.37	6.15	3.58
6.	West Garo Hills	9.18	3.68	12.86	0.88	13.75	13.57	1.33
7.	South Garo Hills	1.33	0.10	1.43	0.01	1.45	1.41	2.84
	State (Overall)	30.35	48.13	78.48	2.02	80.49	79.67	1.03

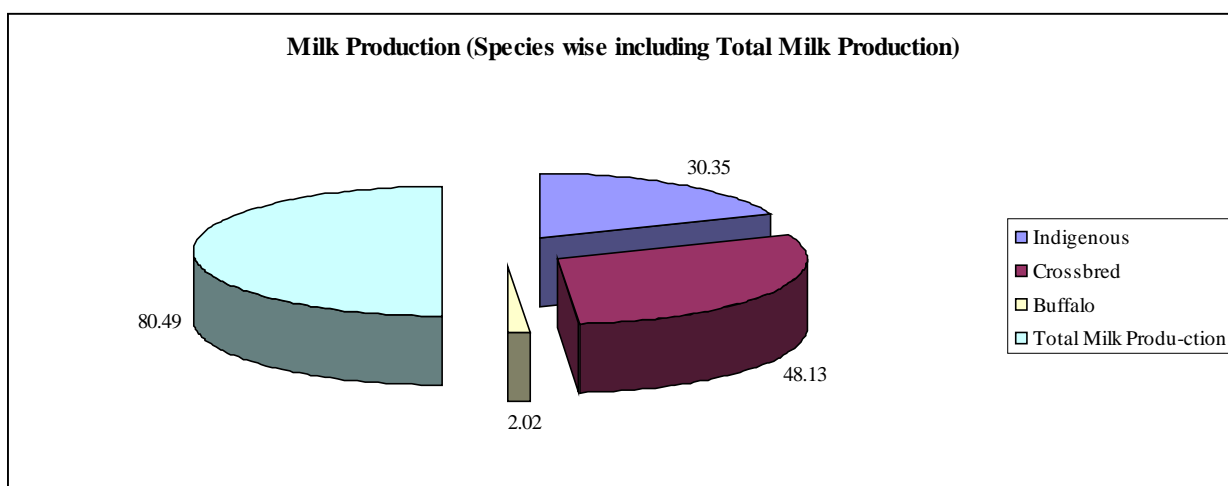


Table 4.11: Average Milk Yield per Animal / Day in Milk and Milch Animals in Meghalaya from 1983-84. In Kgs.

Year	In Milk		Buffalo	Milch		Buffalo
	Cows			Cows		
	Crossbred	Indigenous		Crossbred	Indigenous	
1983-84	8.37	0.63	2.05	5.08	0.36	1.04
1984-85	8.38	0.64	2.07	4.56	0.34	1.07
1985-86	8.38	0.64	2.07	4.56	0.34	1.07
1986-87	8.56	0.64	2.07	5.78	0.36	1.12
1987-88	7.28	0.57	2.07	4.99	0.28	1.12
1988-89	8.46	0.68	2.07	5.99	0.37	1.12
1989-90	8.69	0.69	2.07	6.21	0.38	1.12
1990-91	8.38	0.70	2.14	5.92	0.38	1.05
1991-92	8.41	0.72	1.96	6.29	0.38	1.01
1992-93	8.56	0.72	1.78	6.55	0.37	0.93
1993-94	8.36	0.73	1.91	6.51	0.41	0.97
1994-95	8.83	0.75	1.66	6.52	0.40	0.85
1995-96	8.83	0.75	1.66	6.70	0.38	0.79
1996-97	8.74	0.71	1.70	6.50	0.34	0.80
1997-98	8.80	0.73	1.80	6.65	0.34	0.85
1998-99	8.81	0.75	1.80	6.85	0.35	0.83
1999-2000	8.89	0.75	1.69	7.31	0.36	0.85
2000-01	8.94	0.72	1.76	7.02	0.33	0.88
2001-02	8.90	0.75	1.75	6.88	0.33	1.17
2002-03	8.93	0.76	1.76	7.21	0.33	0.90
2003-04	8.96	0.74	1.76	7.09	0.32	0.92
2004-05	8.99	0.76	1.79	7.11	0.33	0.93
2005-06	8.93	0.74	1.83	7.28	0.32	0.96
2006-07	8.93	0.75	1.85	7.30	0.33	0.95
2007-08	8.97	0.77	1.84	7.36	0.33	0.95
2008-09	8.95	0.75	1.86	7.31	0.34	0.95
2009-10	8.962	0.751	1.855	7.310	0.337	0.960
2010-11	8.963	0.758	1.846	7.339	0.341	0.964

**Table 4.11: Average Milk Yield per Animal / Day in Milk and Milch Animals in Meghalaya from 1983-84.
In Kgs.**

Year	In Milk		Buffalo	Milch		Buffalo
	Cows			Cows		
	Crossbred	Indigenous		Crossbred	Indigenous	
2011-2012	8.960	0.760	1.843	7.329	0.342	0.962
2012-13	8.983	0.769	1.842	7.291	0.353	0.975

**Table 4.12: Estimated Number in Milk and Milch Animals in Meghalaya from 1983-84.
'000' Numbers**

Year	Animals In Milk		Buffaloes	Milch Animals		Buffaloes
	Cows			Cows		
	Crossbred	Indigenous		Crossbred	Indigenous	
1983-84	5.1	90.8	5.2	8.4	158.2	10.1
1984-85	5.6	97.2	5.6	9.1	168.6	10.6
1985-86	6.2	98.5	5.3	9.2	174.6	10.9
1986-87	6.1	100.0	6.0	9.0	174.7	11.1
1987-88	6.0	100.1	5.4	8.8	175.8	10.9
1988-89	6.1	96.9	4.7	8.7	178.9	9.7
1989-90	6.3	95.5	4.0	8.8	175.0	8.3
1990-91	6.9	94.2	4.1	9.8	175.6	8.3
1991-92	7.5	92.9	4.1	10.0	172.1	7.8
1992-93	7.7	93.9	4.4	10.1	180.6	8.4
1993-94	7.9	96.5	4.3	10.2	173.7	8.4
1994-95	7.8	95.9	4.4	10.4	178.7	8.7
1995-96	8.6	91.5	4.6	11.3	178.6	9.6
1996-97	10.0	85.4	5.6	13.4	184.6	11.8
1997-98	10.1	86.1	5.6	13.4	185.6	11.8
1998-99	10.4	86.5	5.4	13.4	182.9	11.8
1999-2000	10.7	90.6	3.4	13.0	189.4	6.8
2000-01	11.2	96.6	3.6	14.2	211.6	7.2
2001-02	11.9	92.7	2.7	15.4	209.7	4.0
2002-03	12.3	93.2	2.7	15.2	212.0	5.3
2003-04	12.6	93.2	2.7	16.0	210.1	5.2
2004-05	13.2	95.1	2.8	16.7	220.8	5.3
2005-06	13.8	98.8	2.8	16.9	226.8	5.3

Table 4.12: Estimated Number in Milk and Milch Animals in Meghalaya from 1983-84.
'000' Numbers

Year	Animals In Milk		Buffaloes	Milch Animals		Buffaloes
	Cows			Cows		
	Crossbred	Indigenous		Crossbred	Indigenous	
2006-07	13.9	99.9	2.8	17.0	229.0	5.5
2007-08	14.1	101.2	2.9	17.2	231.8	5.6
2008-09	14.40	103.9	2.9	17.6	232.1	5.7
2009-10	14.50	104.95	2.97	17.78	234.05	5.75
2010-11	14.60	105.73	2.99	17.87	234.99	5.72
2011-12	14.71	106.54	3.01	17.98	236.44	5.76
2012-13	14.68	108.11	3.00	18.09	235.52	5.66

Table 4.13: Estimated Milk Production in Meghalaya from 1983-84.

Year	Production in '000' tonnes.				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

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			
1998-99	33.5	23.7	3.5	60.7	(+) 2.71
1999-2000	34.7	24.8	2.1	61.6	(+) 1.48
2000-01	36.5	25.3	2.3	64.1	(+) 4.06
2001-02	38.8	25.3	1.7	65.8	(+) 2.65
2002-03	40.1	25.8	1.7	67.7	(+) 2.83
2003-04	41.42	25.09	1.74	68.25	(+) 0.84 %
2004-05	43.23	26.27	1.79	71.29	(+) 4.45 %
2005-06	44.88	26.69	1.86	73.43	(+) 3.00 %
2006-07	45.38	27.33	1.91	74.62	(+) 1.62 %
2007-08	46.30	28.26	1.94	76.50	(+) 2.52%
2008-09	47.05	28.46	1.99	77.50	(+) 1.31%
2009-10	47.44	28.76	2.014	78.212	(+) 0.92%
2010-11	47.87	29.25	2.013	79.13	(+) 1.17%
2011-12	48.11	29.54	2.02	79.67	(+) 0.68%
2012-13	48.13	30.35	2.02	80.49	(+) 1.03%

Chapter – 5

District-wise & Season-wise Estimates

Egg Production

**Table 5.1 (a): District-wise and Season-Wise Estimated No. of Poultry (Fowls), 2012-13
Layers – '00 Numbers**

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<u>Desi</u>								
Summer	1082	828	1198	1055	994	2397	565	8119
Monsoon	1103	821	1216	1065	1013	2437	570	8224
Winter	1092	836	1234	1074	1004	2417	575	8233
Overall	1092	828	1216	1065	1004	2417	570	8192
<u>Improved</u>								
Summer	209	149	28	196	33	50	2	668
Monsoon	209	150	29	198	34	51	2	673
Winter	211	152	29	194	34	51	2	673
Overall	210	150	29	196	34	51	2	671
<u>Total</u>								
Summer	1291	977	1226	1251	1027	2447	567	8787
Monsoon	1312	971	1245	1263	1047	2488	572	8897
Winter	1303	988	1263	1268	1038	2468	577	8906
Overall	1302	978	1245	1261	1038	2468	572	8863

**Table 5.1(b): District-wise and Season-wise Estimated No. of Poultry (Ducks) 2012-13.
Layers – '00 Numbers**

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<u>Desi</u>								
Summer	21	10	10	19	7	174	16	258
Monsoon	21	10	11	20	7	175	17	260
Winter	21	10	10	20	7	174	16	258
Overall	21	10	10	20	7	174	16	259
<u>Improved</u>								
Summer	1	6	0	9	0	1	0	17
Monsoon	1	6	0	9	0	1	0	17
Winter	1	6	0	9	0	1	0	17
Overall	1	6	0	9	0	1	0	17
<u>Total</u>								
Summer	22	16	10	29	7	175	16	276
Monsoon	22	16	11	29	7	176	17	277
Winter	22	16	10	29	7	175	16	275
Overall	22	16	10	29	7	175	16	276

Table 5.2 (a): District-wise and Season-Wise Estimated Yield per Layer (Fowls) 2012-13

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<u>Desi</u>								
Summer	35	35	35	35	34	35	32	35
Monsoon	36	36	35	36	35	35	33	35
Winter	35	35	34	34	34	34	31	34
Overall	106	106	104	105	103	104	96	104
<u>Improved</u>								
Summer	73	75	67	72	65	67	62	72
Monsoon	75	76	69	72	65	68	62	73
Winter	74	76	68	71	64	67	60	72
Overall	222	227	204	215	194	202	184	217
<u>Total</u>								
Summer	41	41	36	41	35	36	32	38
Monsoon	42	42	36	42	36	36	33	38
Winter	41	41	35	40	35	35	31	37
Overall	125	125	106	122	106	106	96	113

Table 5.2(b): District-wise and Season-wise Estimated Yield per Layer (Ducks) 2012-13.

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<u>Desi</u>								
Summer	35	35	35	35	34	35	32	35
Monsoon	36	36	35	36	35	35	33	35
Winter	35	35	34	34	34	34	31	34
Overall	106	106	104	105	103	104	96	104
<u>Improved</u>								
Summer	73	73	0	72	0	67	0	72
Monsoon	74	74	0	73	0	67	0	73
Winter	73	74	0	71	0	69	0	72
Overall	220	221	0	216	0	203	0	217
<u>Total</u>								
Summer	37	49	35	46	34	35	32	37
Monsoon	38	50	35	47	35	35	33	37
Winter	37	50	34	45	34	34	31	36
Overall	112	149	104	139	103	105	96	111

**Table 5.3(a): District-wise and Season-Wise Estimated Egg Production (Fowls) 2012-13.
(In Lakhs)**

Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<u>Desi</u>								
Summer	37.86	28.99	41.92	36.92	33.80	83.91	18.09	281.49
Monsoon	39.70	29.54	42.56	38.32	35.47	85.28	18.82	289.69
Winter	38.23	29.25	41.96	36.53	34.13	82.18	17.83	280.11
Overall	115.79	87.78	126.44	111.77	103.40	251.37	54.74	851.29
<u>Improved</u>								
Summer	15.25	11.16	1.89	14.13	2.18	3.37	0.12	48.10
Monsoon	15.67	11.42	1.99	14.26	2.22	3.45	0.12	49.13
Winter	15.61	11.53	1.94	13.81	2.16	3.43	0.11	48.61
Overall	46.53	34.11	5.82	42.20	6.56	10.25	0.35	145.84
<u>Total</u>								
Summer	53.11	40.15	43.81	51.05	35.98	87.28	18.21	329.59
Monsoon	55.37	40.96	44.55	52.58	37.69	88.73	18.94	338.82
Winter	53.84	40.78	43.90	50.34	36.29	85.61	17.94	328.72
Overall	162.32	121.89	132.26	153.97	109.96	261.62	55.09	997.13

**Table 5.3(b): District-wise and Season-wise Estimated Egg production (Ducks) 2012-13.
(In Lakhs)**

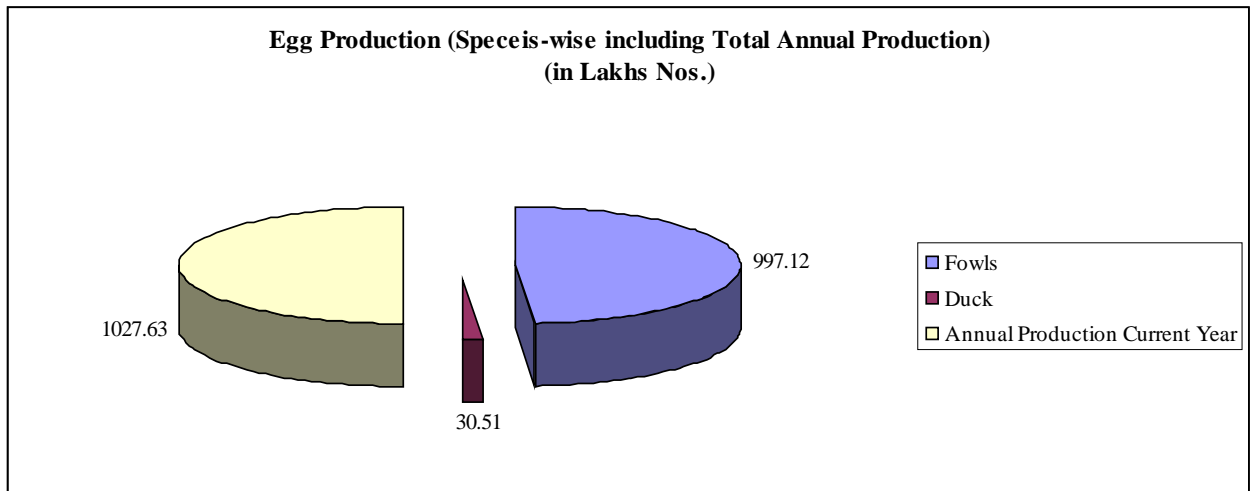
Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<u>Desi</u>								
Summer	0.74	0.34	0.37	0.68	0.24	6.08	0.53	8.98
Monsoon	0.76	0.35	0.37	0.71	0.25	6.13	0.55	9.12
Winter	0.74	0.34	0.35	0.67	0.24	5.90	0.51	8.75
Overall	2.24	1.03	1.09	2.06	0.73	18.11	1.59	26.85
<u>Improved</u>								
Summer	0.09	0.42	0.00	0.62	0.00	0.08	0.00	1.21
Monsoon	0.09	0.44	0.00	0.64	0.00	0.08	0.00	1.25
Winter	0.09	0.43	0.00	0.61	0.00	0.08	0.00	1.21
Overall	0.27	1.29	0.00	1.87	0.00	0.24	0.00	3.67
<u>Total</u>								
Summer	0.83	0.76	0.37	1.30	0.24	6.16	0.53	10.19
Monsoon	0.85	0.79	0.37	1.35	0.25	6.21	0.55	10.37
Winter	0.83	0.77	0.35	1.28	0.24	5.98	0.51	9.96
Overall	2.51	2.32	1.09	3.93	0.73	18.35	1.59	30.52

Table 5.4 (a): Estimated Total Egg production. (Lakhs Numbers) 2012-13.

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	53.11	0.83	55.37	0.86	53.84	0.83
2.	Ri – Bhoi	40.15	0.76	40.96	0.79	40.78	0.78
3.	West Khasi Hills	43.82	0.37	44.55	0.37	43.90	0.35
4.	Jaintia Hills	51.05	1.31	52.59	1.35	50.34	1.28
5.	East Garo Hills	35.98	0.24	37.69	0.25	36.29	0.24
6.	West Garo Hills	87.28	6.15	88.74	6.21	85.61	5.98
7.	South Garo Hills	18.21	0.53	18.94	0.55	17.94	0.51
	State (Overall)	329.59	10.18	338.82	10.37	328.71	9.96

Table 5.4 (b) : Estimated Total Egg production. (Lakhs Numbers) 2012-13.

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2012-13	Annual Production Previous Year 2011-12	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	162.32	2.51	164.83	159.70	3.21
2.	Ri – Bhoi	121.90	2.33	124.23	123.41	0.66
3.	West Khasi Hills	132.26	1.09	133.35	131.29	1.57
4.	Jaintia Hills	153.97	3.94	157.91	156.53	0.88
5.	East Garo Hills	109.96	0.72	110.68	115.99	-4.58
6.	West Garo Hills	261.62	18.34	279.97	277.91	0.74
7.	South Garo Hills	55.09	1.58	56.67	55.81	1.54
	State (Overall)	997.12	30.51	1027.63	1020.64	0.69



**Table 5.5: Estimated Numbers of Layers in Meghalaya from 1983-84.
Lakhs Nos.**

Year	Fowls			Duck			Both Fowls & Ducks		
	Desi	Improved	Total	Desi	Improved	Total	Desi	Improved	Total
1983-84	4.72	0.19	4.91	-	-	-	4.72	0.19	4.91
1984-85	5.21	0.19	5.40	-	-	-	5.21	0.19	5.40
1985-86	5.35	0.20	5.55	-	-	-	5.35	0.20	5.55
1986-87	5.08	0.20	5.28	-	-	-	5.08	0.20	5.28
1987-88	5.21	0.20	5.41	-	-	-	5.21	0.20	5.41
1988-89	5.38	0.22	5.60	-	-	-	5.38	0.22	5.60
1989-90	5.17	0.34	5.72	-	-	-	5.17	0.34	5.51
1990-91	5.38	0.34	5.72	-	-	-	5.38	0.34	5.72
1991-92	5.37	0.31	5.68	0.24	0.03	0.27	5.61	0.34	5.95
1992-93	5.59	0.35	5.94	0.24	0.03	0.27	5.83	0.38	6.21
1993-94	5.81	0.40	6.21	0.29	0.03	0.32	6.10	0.43	6.53
1994-95	5.93	0.40	6.33	0.29	0.03	0.32	6.22	0.43	6.65
1995-96	6.02	0.43	6.45	0.36	0.03	0.29	6.38	0.45	6.83
1996-97	6.33	0.47	6.80	0.37	0.03	0.40	6.70	0.50	7.20
1997-98	6.53	0.48	7.01	0.35	0.03	0.38	6.88	0.51	7.39
1998-99	6.61	0.46	7.07	0.34	0.03	0.37	6.95	0.49	7.44
1999-2000	6.86	0.51	7.37	0.35	0.03	0.38	7.21	0.54	7.75
2000-01	7.15	0.57	7.72	0.22	0.01	0.23	7.31	0.58	7.89
2001-02	7.33	0.58	7.91	0.23	0.01	0.24	7.56	0.59	8.15
2002—03	7.47	0.59	8.06	0.24	0.02	0.26	7.71	0.60	8.31
2003-04	7.63	0.60	8.23	0.24	0.01	0.25	7.87	0.61	8.48
2004-05	7.70	0.61	8.31	0.24	0.01	0.25	7.94	0.62	8.56
2005-06	7.79	0.62	8.41	0.24	0.02	0.26	8.03	0.64	8.67
2006-07	7.88	0.63	8.51	0.24	0.02	0.26	8.12	0.65	8.77
2007-08	7.97	0.64	8.61	0.25	0.02	0.26	8.22	0.66	8.88
2008-09	8.08	0.65	8.73	0.25	0.02	0.27	8.33	0.67	9.00
2009-10	8.12	0.66	8.78	0.25	0.02	0.27	8.37	0.68	9.05
2010-11	8.14	0.66	8.80	0.25	0.02	0.27	8.39	0.68	9.07
2011-12	8.14	0.66	8.80	0.26	0.02	0.28	8.40	0.68	9.08
2012-13	8.19	0.67	8.86	0.26	0.02	0.28	8.45	0.69	9.14

Note: - Estimation on Duck Population was taken up from 1991-92 onwards.

Table 5.6: Estimated Yield per annum per layer in Meghalaya and Total Egg production from 1983-84.

Year	Estimated Yield		Overall	Total Eggs Production (Lakhs Nos.)			Percentage increase (+) or decrease (-) over previous year
	Desi	Improved		Desi	Improved	Total	
1983-84	100	213	104	474.11	39.86	513.97	(+) 6.89
1984-85	98	206	102	510.77	38.62	549.39	(+) 5.30
1985-86	98	209	104	537.12	41.33	578.50	(+) 3.78
1986-87	109	217	114	556.06	44.30	600.36	(+) 3.78
1987-88	110	217	114	573.95	42.76	616.71	(+) 2.72
1988-89	109	219	113	586.88	48.36	635.24	(+) 3.00
1989-90	108	219	115	562.49	73.45	636.28	(+) 0.16
1990-91	110	219	116	591.36	73.79	665.15	(+) 4.54
1991-92	105	219	112	593.38	74.51	667.89	(+) 0.41
1992-93	106	219	113	617.97	82.46	700.43	(+) 4.87
1993-94	105	201	111	641.89	85.71	726.60	(+) 3.74
1994-95	107	201	113	665.44	85.71	751.14	(+) 3.38
1995-96	105	219	113	669.92	99.34	769.26	(+) 2.41
1996-97	103	204	110	690.70	101.27	791.97	(+) 2.95
1997-98	103	207	110	709.06	105.19	814.25	(+) 2.81
1998-99	104	208	111	722.70	101.91	824.61	(+) 1.27
1999-2000	102	207	109	735.19	112.11	847.25	(+) 2.75
2000-01	102	209	110	752.37	121.63	874	(+) 3.16
2001-02	102	221	107	770.76	131.12	901.88	(+) 3.19
2002-03	102	216	110	786.13	129.94	916.07	(+) 1.57
2003-04	102	217	110	803.00	133.00	936.00	(+) 2.18
2004-05	102	217	110	810.08	135.62	945.70	(+) 1.04
2005-06	104	216	113	835	138	973	(+) 2.85
2006-07	103	218	112	836.79	141.20	977.99	(+) 0.51
2007-08	103	218	112	846.07	142.58	988.65	(+) 1.09
2008-09	102	217	109	853.41	144.32	997.73	(+) 2.04
2009-10	102	216	111	854.12	145.58	999.7	(+) 0.20%

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	
2010-11	103	217	112	864.76	146.65	1011.41	(+) 1.17%
2011-12	104	217	112	872.83	147.82	1020.65	(+) 0.91%
2012-13	104	217	113	878.12	149.51	1027.63	(+) 0.69%

Chapter – 6

SEASON WISE PERCENTAGE UTILISATION OF MILK AND EGGS IN SAMPLE HOUSEHOLD. 2012-13

Table 6.1: Utilisation of Milk.

Season	Sold as fluid Milk	Converted into Milk products	Consumed as Fluid Milk in the Household	Total
Summer	96.34	1.59	2.07	100
Monsoon	96.12	1.95	1.93	100
Winter	94.14	2.55	3.31	100
Overall	95.65	1.99	2.36	100

Table 6.2: Percentage Utilization of Produced Eggs.

Season	Utilisation for Home consumption	Set for Hatching	Egg Sold	Damaged or Spoiled	Total
Summer	36.54	14.95	47.51	1.00	100
Monsoon	35.90	15.04	48.21	0.85	100
Winter	39.24	16.01	44.69	1.46	100
Overall	36.82	15.37	46.69	1.12	100

Table 6.3: Season wise Percentage of Animals which were Grazed, Stallfed or Both. 2012-13

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
1. 1.1	<u>CATTLE</u> INDIGENOUS									
	(a) In Milk	71.64	13.63	14.73	69.64	16.5	13.86	64.47	19.92	15.61
	(b) Dry & not Calved even once	80.86	11.75	7.39	81.46	10.02	8.52	74.78	10.79	14.43
	(c) Adult Male	79.64	-	20.36	86.69	-	13.31	78.01	-	21.99
	(d) Young Stock upto 3 Years old.	59.27	32.05	8.68	85.26	6.92	7.82	74.09	10.60	15.31
	Overall :-	71.56	18.02	10.42	81.73	8.44	9.83	73.41	10.56	16.03
1.2	CROSS BRED									
	(a) In Milk	16.07	65.87	18.06	17.4	66.91	15.69	13.20	68.78	18.02
	(b) Dry & not Calved even once	32.30	43.93	23.77	27.12	22.88	50.00	51.56	20.37	28.07
	(c) Adult Male	45.71	23.43	30.86	34.18	28.48	37.34	32.91	37.34	29.75
	(d) Young Stock upto 3 Years old.	28.79	49.09	22.12	26.98	43.72	29.30	39.67	31.33	29.00
	Overall :-	27.29	50.5	22.21	24.29	45.82	29.89	30.91	45.08	24.01
2	BUFFALOES									
	(a) In Milk	57.38	20.89	21.73	69.25	8.23	22.52	56.39	19.55	24.06
	(b) Dry & not Calved even once	58.87	17.02	24.11	50.56	26.11	23.33	53.85	22.05	24.10
	(c) Adult Male	60.00	8.18	31.82	65.06	5.42	29.52	51.95	22.73	25.32
	(d) Young Stock upto 3 Years old.	57.74	14.23	28.03	43.40	22.64	33.96	46.11	25.56	28.33
	Overall :-	58.36	15.91	25.73	57.77	15.32	26.91	52.43	22.28	25.29

ANNEXURE - X

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

Name of State : **Meghalaya**

Year : **2012-2013**

Sl. No	Category of Animals	Total No. Animals	Average Feed Consumption (in Kg.per animals/ per day)											
			Green Fodder				Dry Fodder				Concentrate			
			Summer	Rainy	Winter	Annual	Summer	Rainy	Winter	Annual	Summer	Rainy	Winter	Annual
1	Cattle Indigenous/Non Discript)													
	(a) In Milk	497	2.47	2.82	1.22	2.01	1.47	1.65	0.75	1.20	1.22	1.26	1.37	1.30
	b) Dry & not Calved even once	911	2.05	2.41	1.05	1.69	0.38	0.65	0.54	0.52	-	-	-	-
	c) Adult Male	293	2.15	2.68	1.07	1.77	1.05	-	1.17	0.87	-	-	-	-
	d) Young Stock up to 3 years	1093	1.08	1.32	0.63	0.98	-	-	0.42	0.12	-	-	-	-
	e) Overall (%)	2776	41.87	32.73	25.40	-	26.10	26.84	47.06	-	22.72	29.33	47.95	-
2	Cattle (Exotic/ Cross-bred)													
	a) In Milk	1250	18.03	18.53	4.12	11.66	7.32	9.03	12.33	10.02	4.03	4.12	4.23	4.14
	b) Dry & not Calved even once	552	16.93	17.03	2.53	12.03	5.22	4.43	5.83	5.22	1.23	1.73	1.63	1.50
	c) Adult Male	246	17.53	17.53	2.83	11.97	6.22	5.53	7.23	6.36	8.16	-	-	2.26
	d) Young Stock up to 2 & 1/2 years	487	3.83	5.12	2.08	3.61	1.32	-	2.03	1.20	-	-	-	-
	e) Overall (%)	2535	47.55	39.08	13.37	--	25.81	21.69	52.50	-	35.16	22.57	42.27	-
3	Buffalo													
	(a) In Milk	269	4.02	4.12	1.32	3.00	1.01	1.22	1.62	1.31	0.71	0.82	0.82	0.78
	b) Dry & not Calved even once	255	3.34	3.61	1.12	2.51	-	-	-	-	-	-	-	-
	c) Adult Male	197	3.82	4.32	1.22	2.97	-	-	-	-	-	-	-	-
	d) Young Stock up to 3 years	257	1.33	1.42	0.61	1.04	-	-	-	-	-	-	-	-
	e) Overall (%)	978	35.79	45.95	18.26	-	25.60	26.41	47.99	-	29.98	29.56	40.46	-

Source : LPS- 1.2. Block-II

Table 6.5: Season wise Utilisation of Dung collected From Bovine at Sample Household 2012-13.

Sl No.	Particulars	Unit	Summer	Monsoon	Winter	Over all
1.	Total No. of Sample animals observed for Dung Utilisation.	Nos.	3051	2614	2484	8149
2.	Average quantity of Dung collected per animal per day.	Kg	2.56	3.54	3.43	3.14
3.	Dung utilised for manure.	Percentage	95.64	97.34	95.56	96.23
4.	Dung utilised for Dung cake.	Percentage	2.69	1.80	2.53	2.31
5.	Dung utilised for other purpose.	Percentage	1.67	0.86	1.91	1.46

Table 6.6: Per Capita availability of Milk and Egg

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

Meat Production – 2012-13

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
	<u>Category of Animals Slaughter.</u> <u>SUMMER</u>										
(a)	Cattle.	44149	6794	9789	5764	4348	10233	2921	83998	45419	38579
(b)	Buffaloes.	128	122	0	564	71	488	0	1373	1373	
(c)	Pig	40733	6088	9047	8208	6207	6937	3388	80608	66695	13913
(d)	Sheep & Goat	19940	2887	1052	5637	3470	4683	1757	39426	38831	595
(e)	Poultry.	763716	72133	95324	112395	58302	107099	20184	1229153	1209243	19910
	<u>MONSOON</u>										
(a)	Cattle.	47809	5778	9466	5996	4165	9317	2780	85311	50715	34596
(b)	Buffaloes.	160	102	0	787	85	644	0	1778	1778	
(c)	Pig.	32785	5580	8534	7336	5294	10502	3369	73400	61135	12265
(d)	Sheep & Goat	19834	2738	1228	5553	3221	7120	1907	41601	40906	695
(e)	Poultry.	751464	95013	105533	141555	53490	110014	17689	1274758	1258329	16429
	<u>WINTER</u>										
(a)	Cattle.	45571	5315	9627	5788	4196	9586	3122	83205	49250	33955
(b)	Buffaloes.	126	82	0	660	56	520	0	1444	1444	
(c)	Pig.	40049	6313	9795	8359	5032	9692	3444	82684	73558	9126
(d)	Sheep & Goat	19616	2006	1106	4699	2805	6112	1607	37951	36654	1297
(e)	Poultry.	761396	78972	100314	130680	67820	132061	17373	1288616	1257970	30646

Table 7.2: District wise Numbers of Animals Slaughtered (Over-all)**'000' Numbers**

Sl No	Category of Animals Slaughtered	East Khasi Hills	Ri-Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	Total	Source	
										Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12
1.	Cattle	137.53	17.89	28.88	17.55	12.71	29.14	8.82	252.52	145.39	107.13
2.	Buffaloes	0.41	0.31	0	2.01	0.21	1.65	0	4.59	4.59	0
3.	Pig	113.57	17.98	27.38	23.9	16.53	27.13	10.2	236.69	201.39	35.3
4.	Sheep & Goat	59.39	7.63	3.39	15.89	9.50	17.92	5.27	118.99	116.4	2.59
5.	Poultry	2276.58	246.12	301.17	384.63	179.61	349.17	55.25	3792.53	3725.54	66.99

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
	<u>Category of Animals Slaughter.</u>								
	<u>SUMMER</u>								
(a)	Cattle.	90.00	90.00	89.99	90.00	90	90	90.00	90
(b)	Buffaloes.	120.00	120.00	0	120.00	120	120	0	120
(c)	Pig	43.80	44.00	44.00	44.01	43.90	43.95	43.97	43.89
(d)	Sheep & Goat.	11.99	12.05	12.01	11.83	11.98	11.97	11.99	11.97
(e)	Poultry.	1.20	1.21	1.19	1.21	1.19	1.19	1.18	1.2
	<u>MONSOON</u>								
(a)	Cattle.	88.20	86.04	86.25	88.02	87.69	84.32	86.43	87.32
(b)	Buffaloes.	117.00	113.00	0	119.00	117	118	0	118.02
(c)	Pig	42.33	41.83	42.26	40.90	41.72	40.09	40.20	41.68
(d)	Sheep & Goat.	9.12	9.12	9.00	9.13	9.00	8.83	9.08	9.06
(e)	Poultry.	1.16	1.06	1.02	1.04	1.10	1.08	1.04	1.12
	<u>WINTER</u>								
(a)	Cattle.	89.93	86.75	85.82	86.70	87.35	89.42	86.96	88.73
(b)	Buffaloes.	119.00	115.00	0	116.01	116.0	114	115	115.77
(c)	Pig	44.25	42.60	42.00	41.19	41.80	41.55	40.39	42.92
(d)	Sheep & Goat.	9.04	9.13	9.07	8.90	8.77	8.95	8.70	8.98
(e)	Poultry.	1.12	1.02	0.98	1.01	0.93	0.94	0.96	1.06

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

Sl No.	Name of Districts	Cattle	Buffaloes	Pig	Sheep & Goat	Poultry
1	2	3	4	5	6	7
1.	East Khasi Hills	89.38	118.67	43.46	10.05	1.16
2.	Ri – Bhoi	87.60	116	42.75	10.1	1.1
3.	West Khasi Hills	87.35	0	42.03	10.03	1.06
4.	Jaintia Hills	88.24	118.34	42.03	9.95	1.09
5.	East Garo Hills	88.35	117	42.47	9.92	1.07
6.	West Garo Hills	87.91	117.67	41.52	9.92	1.07
7.	South Garo Hills	87.8	0	42.87	9.92	1.06
	State (Overall)	88.68	117.9	42.87	10	1.13

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
	<u>SUMMER</u>										
1.	Cattle.	3973	611	881	519	391	921	263	7559	4087	3472
2.	Buffaloes	15	15	0	68	9	59	0	166	166	0
3.	Pig	1784	268	398	361	272	305	149	3537	2926	611
4.	Sheep & Goat.	239	35	13	67	42	56	21	473	466	7
5.	Poultry.	916	87	113	136	69	127	24	1472	1448	24
	TOTAL	6927	1016	1405	1151	783	1468	457	13207	9093	4114
	<u>MONSOON</u>										
1.	Cattle.	4217	497	816	528	365	786	240	7449	4428	3021
2.	Buffaloes	19	12	0	94	10	76	0	211	211	0
3.	Pig	1388	233	361	300	221	421	135	3059	2548	511
4.	Sheep & Goat.	181	25	11	51	29	63	17	377	371	6
5.	Poultry.	872	101	108	147	59	119	18	1424	1406	18
	TOTAL	6677	868	1296	1120	684	1465	410	12520	8964	3556
	<u>WINTER</u>										
1.	Cattle.	4098	461	826	502	367	857	271	7382	4369	3013
2.	Buffaloes	15	9	0	77	6	59	0	166	166	0
3.	Pig	1772	269	411	344	210	403	139	3548	3156	392
4.	Sheep & Goat.	177	18	10	42	25	55	14	341	329	12
5.	Poultry.	853	81	98	132	63	124	17	1368	1336	32
	TOTAL	6915	838	1345	1097	671	1498	441	12805	9356	3449
	OVERALL	20519	2722	4046	3368	2138	4431	1308	38532	27413	11119

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

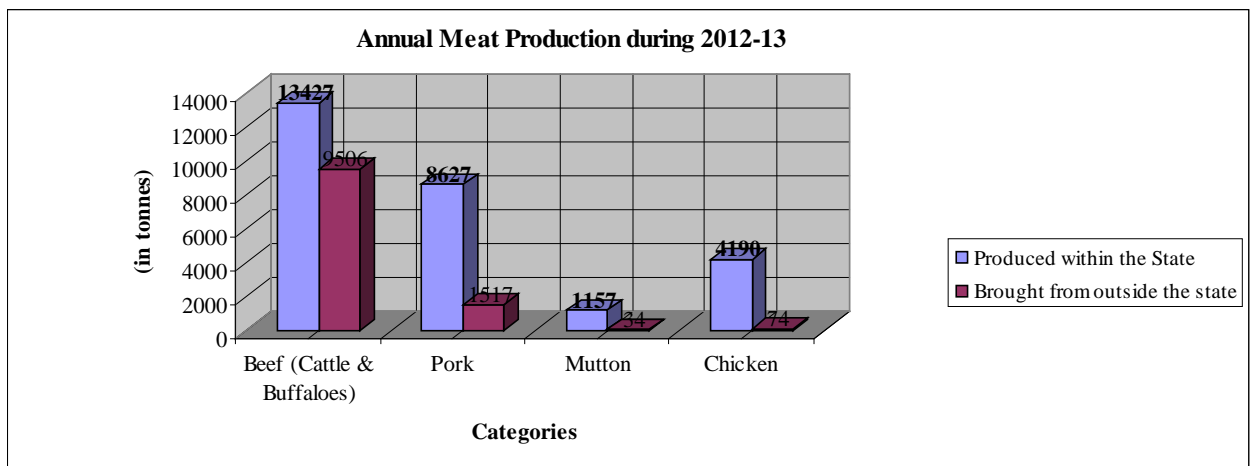
Sl No	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	Total	Source	
										Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12
1.	Cattle	12288	1569	2523	1549	1123	2564	774	22390	12884	9506
2.	Buffaloes	49	36	0	239	25	194	0	543	543	0
3.	Pig	4944	770	1170	1005	703	1129	423	10144	8630	1514
4.	Sheep & Goat	597	78	34	160	96	174	52	1191	1166	25
5.	Poultry	2641	269	319	415	191	370	59	4264	4190	74
	TOTAL	20519	2722	4046	3368	2138	4431	1308	38532	27413	11119

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

Sl No.	Name of Districts	Meat Production Category Wise (Tonnes)						Annual Production 2011-12 (Col 5 – 8)	Percentage Contribution to Total Meat Production
		Cattle	Buffalo	Total Beef	Pork	Mutton	Chicken		
1	2	3	4	5	6	7	8	9	10
1.	East Khasi Hills	12288	49	12337	4944	597	2641	20519	53.25 %
2.	Ri – Bhoi	1569	36	1605	770	78	269	2722	7.06 %
3.	West Khasi Hills	2523	0	2523	1170	34	319	4046	10.5 %
4.	Jaintia Hills	1549	239	1788	1005	160	415	3368	8.74 %
5.	East Garo Hills	1123	25	1148	703	96	191	2138	5.55 %
6.	West Garo Hills	2564	194	2758	1129	174	59	4120	10.69 %
7.	South Garo Hills	774	0	774	423	52	370	1619	4.2 %
	State (Overall)	22390	543	22933	10144	1191	4264	38532	100 %
	Percentage Contribution of each species to total production	58.11%	1.41%	59.52%	26.33%	3.09%	11.07%	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 2011-12
		2012-13			2011-12			
		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)	13427	9506	22933	13988	8932	22920	(+) 0.06%
2	Pork	8630	1514	10144	8704	1395	10099	(-) 0.45%
3	Mutton	1166	25	1191	1062	23	1085	(+) 9.77%
4	Chicken	4190	74	4264	4087	50	4137	(+) 3.07%
5	Total	27413	11119	38532	27841	10400	38241	(+) 0.76%



7.9: Per Capita Availability of Meat per Day / Grams 2012-13

Items	Per Capita Availability
Beef	21.19
Pork	9.37
Mutton	1.10
Chicken	3.93
Total	35.58

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

Year	Number of Animals Slaughtered '000' Nos.				
	Cattle	Buffaloes	Pig	Sheep & Goat	Poultry
1983-84	104.5	0.1	88.9	56.7	N.S
1984-85	108.7	0.5	96.7	55.9	N.S
1985-86	116.0	0.6	125.7	68.9	N.S
1986-87	125.7	0.6	143.6	76.5	N.S
1987-88	132.3	0.5	146.9	77.8	N.S
1988-89	141.4	0.6	155.0	85.7	645.7
1989-90	146.8	0.6	159.8	94.9	684.9
1990-91	157.5	1.0	159.1	103.1	739.7
1991-92	171.6	1.2	169.5	117.6	792.7
1992-93	172.4	0.9	161.7	114.5	905.5
1993-94	174.7	0.6	166.9	107.8	1096
1994-95	179.1	1.4	170.4	108.8	1175
1995-96	193.4	0.9	190.1	116.4	1688
1996-97	183.4	2.9	176.5	131.3	1603
1997-98	185.1	1.7	170.6	138.3	17860
1998-99	191.9	1.9	184.7	122.4	1870
1999-2000	196.9	0.5	191.5	114.4	3102
2000-01	217.0	3.5	184.3	140.1	3243
2001-02	212.0	0.5	194.6	136.1	3566
2002-03	217.54	0.70	209.24	155.47	3739
2003-04	214.32	3.60	228.47	108.70	3209
2004-05	238.63	3.72	249.45	119.12	3101
2005-06	231.4	4.0	243.2	114.30	3395
2006-07	236.04	4.14	236.35	113.91	3679
2007-08	237.49	4.21	237.3	114.77	3696
2008-09	241.13	4.24	239.51	115.51	3650.37
2009-10	245.37	4.35	232.79	117.05	3757.87
2010-11	251.46	4.46	236.13	118.08	3799.39

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

Year	Number of Animals Slaughtered '000' Nos.				
	Cattle	Buffaloes	Pig	Sheep & Goat	Poultry
2011-12	253.09	4.72	238.17	120.43	3796.18
2012-13	252.52	4.59	236.69	118.98	3792.53

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

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
2005-06	90.51	113.95	43.01	8.94	1.08
2006-07	88.60	117.63	42.29	9.04	1.08
2007-08	88.71	117.57	42.46	9.02	1.09
2008-09	88.73	117.46	42.41	8.99	1.09
2009-10	88.89	117.47	42.48	8.99	1.08
2010-11	88.46	117.29	42.48	8.99	1.08
2011-12	88.37	116.92	42.48	9.02	1.09
2012-13	88.67	117.90	42.87	10.00	1.13

Table 7.12: Total Meat production from 1983-84.

Year	Total Meat Production '000' Tonnes.				
	Cattle & Buffaloes	Pig	Sheep & Goat	Poultry	Total
1983-84	8.5	3.2	0.7	-	12.4
1984-85	8.7	3.5	0.6	-	12.8
1985-86	8.6	4.3	0.7	-	13.6
1986-87	9.1	5.2	0.9	-	15.2
1987-88	10.0	6.0	0.9	-	16.9
1988-89	11.0	6.3	0.9	0.5	18.7
1989-90	11.3	6.6	1.0	0.5	19.4
1990-91	12.6	6.2	0.9	0.6	20.3
1991-92	13.7	6.6	1.1	0.6	22.0
1992-93	13.8	6.7	1.0	0.9	22.4
1993-94	14.5	6.9	1.0	1.1	23.5
1994-95	15.3	7.1	1.1	1.2	24.7
1995-96	15.9	8.0	1.1	1.4	26.5
1996-97	17.5	7.6	1.2	1.4	27.7
1997-98	17.9	7.9	1.3	1.7	28.8
1998-99	18.5	8.2	1.2	1.7	29.6
1999-2000	18.6	8.8	1.1	3.1	31.6
2000-01	20.7	8.4	1.3	3.2	33.6

Table 7.12: Total Meat production from 1983-84.

Year	Total Meat Production '000' Tonnes.				
	Cattle & Buffaloes	Pig	Sheep & Goat	Poultry	Total
2001-02	20.5	8.5	1.2	3.6	33.8
2002-03	21.3	8.9	1.4	3.9	35.5
2003-04	21.3	9.9	1.0	3.4	35.6
2004-05	21.6	10.5	1.1	3.2	36.4
2005-06	21.43	10.46	1.02	3.65	36.56
2006-07	21.40	10.00	1.03	3.98	36.41
2007-08	21.56	10.07	1.04	4.02	36.69
2008-09	21.89	10.16	1.04	3.99	37.08
2009-10	22.32	9.89	1.05	4.06	37.33
2010-11	22.77	10.02	1.06	4.09	37.94
2011-12	22.92	10.10	1.09	4.14	38.25
2012-13	22.93	10.15	1.19	4.26	38.53

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

Year	Milk Production (‘000’ 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	7650	36.69	98.90
2008-09	77.50	37.08	99.77
2009-10	78.21	37.33	99.97
2010-11	79.13	37.94	101.14

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

Year	Milk Production (‘000’ tonnes)	Meat Production (‘000’ tonnes)	Egg Production (Million Nos.)
2011-12	79.67	38.25	102.06
2012-13	80.49	38.53	102.76





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E-mail-ID: ahvtmegh@yahoo.com