



Government of Meghalaya

**REPORT ON INTEGRATED
SAMPLE SURVEY
FOR**

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

YEAR : 2013-14.



**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 2013– 2014 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 2.07 % on Milk, 2.11 % on Egg and 4.67 % on Meat over 2012-13.

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



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CHAPTER - I

GENERAL

1.1 The State: - Meghalaya is located in the North-Eastern part of India lying between the latitude of 25°47" and 26°10'North 89°45"East and 92°47" East longitude. The State is bounded on the North by Assam and on the South by Bangladesh and Assam again on the West. Physiographically, the State is divided into three hills section, (a) Western Meghalaya or Garo Hills (b) Central Meghalaya or Khasi Hills and (c) Eastern Meghalaya or Jaintia Hills. The total area of the State covers about 22,429 Sq. km. The State is divided into seven Districts namely: (i) East Khasi Hills (ii) Ri-Bhoi (iii) West Khasi Hills (iv) Jaintia Hills (v) East Garo Hills (vi) West Garo Hills, and (vii) South Garo Hills.

1.2. Climate: - The climate in Meghalaya is salubrious in general. The Northern and the Southern slopes including the Western Border are comparatively warmer in winter, the main reason being the lower altitudes. The four distinct seasons of the year are recognizable through out the State. Springtime is generally associated with the germination of seeds as well as the growth of tender grass, leaves and flowers. Then come Summer times, which is generally identified with rain and autumn with ripened and shedding of leaves from certain species of trees.

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

1.4. Population and Area: - The State has a total area of 22,429 Sq. Kms. and a population of 23.19 Lakhs as per the 2001 Census 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
	<u>Reporting Area for Land Utilisation Statistics.</u>	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 2013-14.

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	6.09	24.40	19.5	21.96	14.63	4.88	8.54
2	Ri – Bhoi	1.47	27.94	33.82	13.24	10.30	4.41	8.82
3	West Khasi Hills	3.07	20	47.69	10.77	7.70	3.07	7.70
4	Jaintia Hills	4.88	9.76	24.39	24.39	14.63	12.20	9.75
5	East Garo Hills	2.5	-	35	32.5	7.5	5	17.5
6	West Garo Hills	-	2.94	2.21	12.5	20.59	12.5	49.26
7	South Garo Hills	-	15.15	15.15	19.7	12.12	7.58	30.30
	State (Overall)	2.21	14.05	21.49	17.47	13.86	7.63	23.29

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	Indig-enous Cattle	Crossbred Cattle	Buffa-loes	Pig	Sheep	Goat	Poultry				Over all
								Fowls	Ducks	Impr-oved	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.

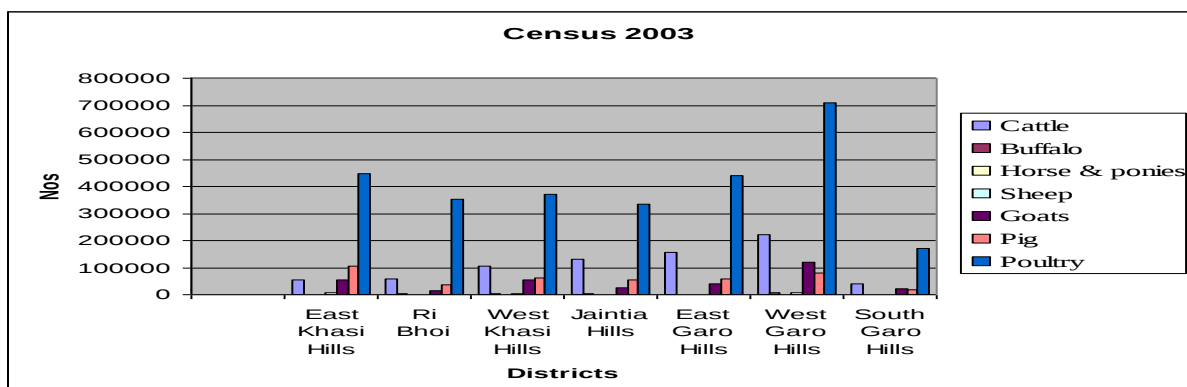
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	266	5510	5776	53041	216
2.	Ri – Bhoi	40	126	166	13407	96
3.	West Khasi Hills	16	5116	5132	54781	1050
4.	Jaintia Hills	130	602	732	24642	415
5.	East Garo Hills	-	41	41	38587	21
6.	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.

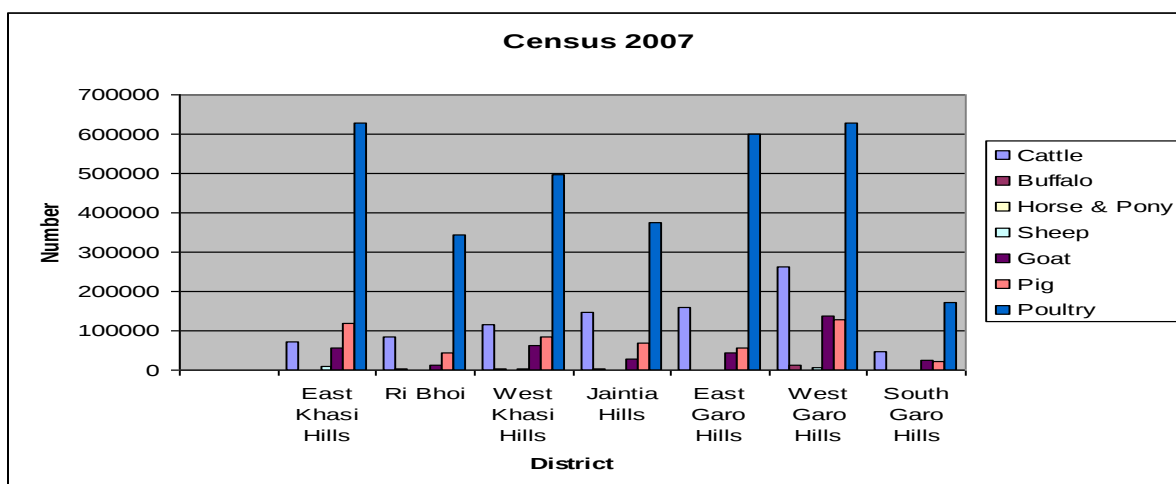
Sl. No.	Name of District	Sheep		Total Sheep	Total Goats	Total Horses & Ponies
		Crossbred	Indigenous			
1.	East Khasi Hills	3	8954	8957	56632	48
2.	Ri – Bhoi	-	116	116	13835	24
3.	West Khasi Hills	189	3327	3516	61786	1732
4.	Jaintia Hills	30	12	42	27005	33
5.	East Garo Hills	-	1260	1260	43652	0
6.	West 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

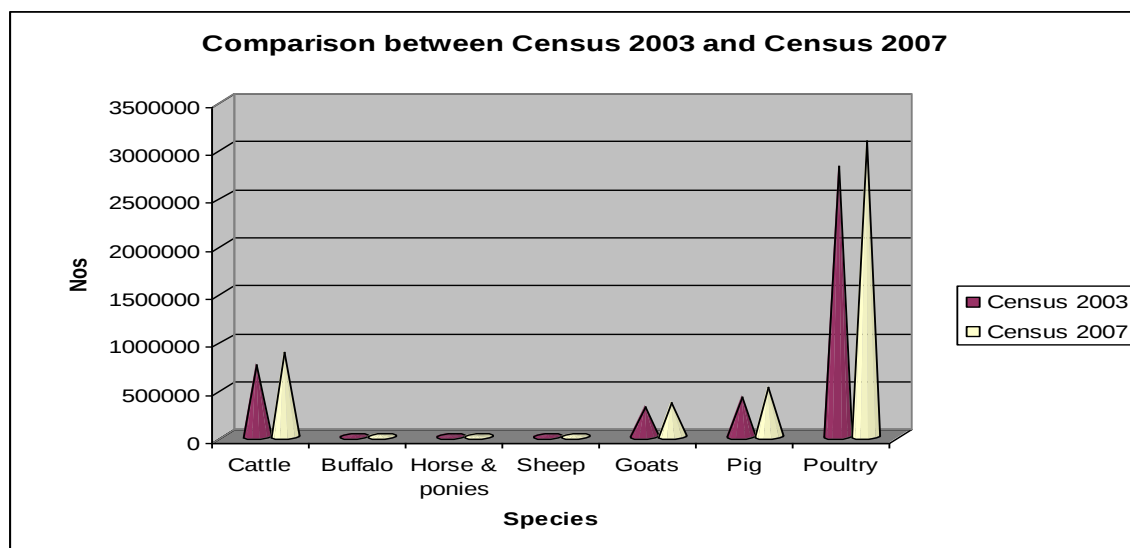
Table 2.4: Poultry Population.

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

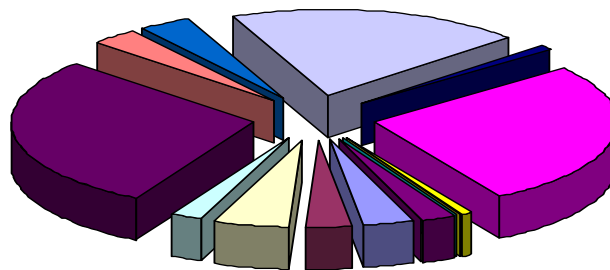


**TABLE – 2.5: LIVESTOCK POPULATION: (as per 2007 Census)
and Growth Rate as compared to 2003 Census**

SI No	Species	Population (Numbers)			Total	Growth Rate (%)
1	Cattle	Crossbred	Male	2443	26848	16.40
			Female	24405		
		Indigenous	Male	374334	860395	15.60
			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	16.26
			Female	219763		
5	Sheep	Exotic/Crossbred	Male	120	242	(-) 61.60
			Female	122		
		Indigenous	Male	7954	20799	18.36
			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	11.09

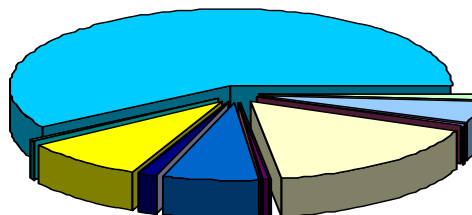


Growth Rate of Census 2007 to 2003 (in %)



■ 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 2012-13	Estimate Current Year 2013-14	% of Increase or Decrease over previous Year
I	Milk				
	Indigenous Cows				
	Population				
A	In Milk	00 No.	1081	1155	(+)6.84%
B	Milch	00 No.	2355	2400	(-)1.91%
	Yield per Day				
C	In Milk	Kgs.	0.769	0.758	(-) 1.43%
D	Milch	Kgs.	0.353	0.365	(+) 3.40 %
E	Production	000 tonnes	30.35	31.95	(+) 5.27%
	Crossbred Cows				
	Population				
F	In Milk	00 Nos.	147	148	(+)0.68%
G	Milch	00 Nos.	181	183	(+) 1.10%
	Yield per day				
H	In Milk	Kgs.	8.983	8.961	(-)0.24 %
I	Milch	Kgs.	7.291	7.239	(-) 0.71%
J	Production	000 tonnes	48.13	48.46	(+) 0.69%

Table 3.11 – contd.

Sl No.	Items	Unit	Estimates Previous Year 2011-12	Estimate Current Year 2013-14	% of Increase or Decrease over previous Year
	Buffalo Population				
K	In Milk	00 No.	30	26	(-) 13.33%
L	Milch	00 No.	57	49	(-)14.04%
	Yield per Day				
M	In Milk	Kgs.	1.842	1.827	(-) 0.81%
N	Milch	Kgs.	0.975	0.976	(+) 0.10%
O	Production	000 tonnes	2.015	1.749	(-) 1.75%
	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	80.49	82.16	(+)2.07%
II	Egg Production				
	Layers				
U	Desi	00 No.	8451	8501	(+)0.59%
V	Improved	00 No.	688	853	(+) 23.98%
W	Total	00 No.	9139	9354	(+) 2.35%
	Yield per layer per year				
X	Desi	No.	104	103	(-) 0.96%
Y	Improved	No.	217	212	(-) 2.30%
	Production				
Z	Desi	Lakhs Nos.	878.12	868.99	(-) 1.04%
Aa	Improved	“	149.51	180.39	(+) 20.65%
Ab	Total	“	1027.63	1049.37	(+) 2.11%

**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	47.62	45.83	43.58	45.60
	ii) Poultry	80.92	80.95	85.73	82.63
	iii) Sheep	1.50	0.50	1.08	1.02
	iv) Goat	26.65	21.95	13.06	20.30
	v) Pig	57.32	65.52	67.13	63.48
4. (a)	No. of households covered for Milk production (Cow, Buffalo and Goat)				
4. (b)	No. of animals observed for milk production				
	i) Cow in Milk.	662	1179	404	2245
	ii) Buffalo in Milk.	73	77	8	158
	iii) Goat in Milk.				
5. (a)	No. of Households observed for egg production.	719	896	676	2291
5. (b)	No. of Layers observed.				
	i) Desi & Improved	3086	3264	3042	9392
	.				

Table 3.12 – Contd.

Sl. No.	Items	Summer	Monsoon	Winter	Annual (Overall)
6. (a)	Estimated No. of Animals Slaughtered. '000' Nos.				
	i) Cattle	84.83	84.86	84.7	254.39
	ii) Buffalo	1.38	1.72	1.62	4.72
	iii) Sheep & Goat	40.13	41.94	41.99	124.06
	iv) Pig	81.05	85.31	85.17	251.53
	v) Poultry	1233.64	1093.01	1095.3	3422.45

Table 3.13: District-wise Number of Villages selected for complete enumeration during the year 2013-14.

Sl. No.	Name of District	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	43	43	39	125
2.	Ri – Bhoi	27	27	21	75
3.	West Khasi Hills	43	42	40	125
4.	Jaintia Hills	23	23	17	63
5.	East Garo Hills	42	43	39	124
6.	West Garo Hills	76	76	66	218
7.	South Garo Hills	25	25	27	77
	State (Overall)	279	279	249	807

Chapter – 4

District-wise & Season-wise Estimates

Milk Production

2013-2014

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	5817	5889	5961	5889
2.	Ri – Bhoi	8480	8626	8773	8626
3.	West Khasi Hills	16977	17242	17242	17154
4.	Jaintia Hills	15565	15733	15733	15677
5.	East Garo Hills	24889	25600	25245	25245
6.	West Garo Hills	35991	36741	36741	36491
7.	South Garo Hills	6326	6414	6414	6385
	State (Overall)	114045	116245	116109	115467

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	4239	4286	4214	4246
2.	Ri – Bhoi	10843	10697	10753	10765
3.	West Khasi Hills	23107	23259	23259	23208
4.	Jaintia Hills	25583	25415	25782	25593
5.	East Garo Hills	22797	22615	22970	22794
6.	West Garo Hills	35699	32958	33954	34204
7.	South Garo Hills	3749	3790	3661	3733
	State (Overall)	126017	123020	124593	124543

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	10056	10175	10175	10135
2.	Ri – Bhoi	19323	19323	19526	19391
3.	West Khasi Hills	40084	40501	40501	40362
4.	Jaintia Hills	41148	41148	41515	41270
5.	East Garo Hills	47686	48215	48215	48039
6.	West Garo Hills	71690	69699	70695	70695
7.	South Garo Hills	10075	10204	10075	10118
	State (Overall)	240062	239265	240702	240010

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	6171	6224	6224	6206
2.	Ri – Bhoi	6488	6488	6419	6465
3.	West Khasi Hills	316	316	318	317
4.	Jaintia Hills	796	802	808	802
5.	East Garo Hills	44	45	45	45
6.	West Garo Hills	983	977	983	981
7.	South Garo Hills	0	0	0	0
	State (Overall)	14798	14852	14797	14816

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	981	1050	1022
2.	Ri – Bhoi	1139	1217	1286	1214
3.	West Khasi Hills	68	62	66	65
4.	Jaintia Hills	145	156	167	156
5.	East Garo Hills	8	9	9	8
6.	West Garo Hills	1046	1063	1068	1059
7.	South Garo Hills	0	0	0	0
	State (Overall)	3440	3488	3646	3524

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

Sl. No.	Name of Districts	Milch Cows			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	7205	7205	7274	7228
2.	Ri – Bhoi	7627	7705	7705	7679
3.	West Khasi Hills	384	378	384	382
4.	Jaintia Hills	941	958	975	958
5.	East Garo Hills	52	54	54	53
6.	West Garo Hills	2029	2040	2051	2040
7.	South Garo Hills	0	0	0	0
	State (Overall)	18238	18340	18443	18340

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	631	626	622	626
3.	West Khasi Hills	306	311	311	309
4.	Jaintia Hills	266	262	262	263
5.	East Garo Hills	186	188	186	187
6.	West Garo Hills	1235	1222	1210	1222
7.	South Garo Hills	16	16	15	16
	State (Overall)	2640	2625	2606	2623

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	395	400	411	402
3.	West Khasi Hills	220	222	229	224
4.	Jaintia Hills	216	224	220	220
5.	East Garo Hills	124	122	122	122
6.	West Garo Hills	1310	1323	1311	1315
7.	South Garo Hills	4	4	5	4
	State (Overall)	2269	2295	2298	2287

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	1026	1026	1033	1028
3.	West Khasi Hills	526	533	540	533
4.	Jaintia Hills	482	486	482	483
5.	East Garo Hills	310	310	308	309
6.	West Garo Hills	2545	2545	2521	2537
7.	South Garo Hills	20	20	20	20
	State (Overall)	4909	4920	4904	4910

Table 4.4 (a): Estimated Milk Yield per day per animal (Kg.) Indigenous Cows.

Sl. No.	Name of Districts	In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	0.830	0.850	0.840	0.840
2.	Ri – Bhoi	1.050	1.070	1.060	1.060
3.	West Khasi Hills	0.820	0.840	0.830	0.830
4.	Jaintia Hills	0.730	0.750	0.730	0.737
5.	East Garo Hills	0.660	0.670	0.660	0.663
6.	West Garo Hills	0.730	0.740	0.720	0.730
7.	South Garo Hills	0.660	0.690	0.650	0.667
	State (Overall)	0.753	0.768	0.753	0.758

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	0.480	0.492	0.492	0.488
2.	Ri – Bhoi	0.461	0.478	0.476	0.472
3.	West Khasi Hills	0.347	0.358	0.353	0.353
4.	Jaintia Hills	0.276	0.287	0.277	0.280
5.	East Garo Hills	0.344	0.356	0.346	0.349
6.	West Garo Hills	0.366	0.390	0.374	0.377
7.	South Garo Hills	0.414	0.434	0.414	0.421
	State (Overall)	0.358	0.373	0.363	0.365

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

Sl. No.	Name of Districts	Cows In Milk			
		Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	8.940	9.000	8.940	8.961
2.	Ri – Bhoi	9.070	9.100	9.110	9.094
3.	West Khasi Hills	8.380	8.430	8.250	8.345
4.	Jaintia Hills	8.910	8.940	8.880	8.910
5.	East Garo Hills	8.760	8.850	8.400	8.607
6.	West Garo Hills	8.420	8.460	8.160	8.348
7.	South Garo Hills	0.000	0.000	0.000	0.000
	State (Overall)	8.948	8.992	8.942	8.961

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	7.657	7.775	7.650	7.694
2.	Ri – Bhoi	7.716	7.663	7.589	7.656
3.	West Khasi Hills	6.896	7.047	6.832	6.925
4.	Jaintia Hills	7.537	7.484	7.359	7.459
5.	East Garo Hills	7.412	7.375	7.000	7.308
6.	West Garo Hills	4.079	4.052	3.911	4.014
7.	South Garo Hills	0	0	0	0
	State (Overall)	7.261	7.282	7.174	7.239

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	1.840	1.860	1.770	1.825
3.	West Khasi Hills	1.860	1.850	1.840	1.852
4.	Jaintia Hills	1.840	1.810	1.800	1.819
5.	East Garo Hills	1.720	1.730	1.690	1.711
6.	West Garo Hills	1.840	1.870	1.820	1.844
7.	South Garo Hills	1.580	1.610	1.560	1.551
	State (Overall)	1.832	1.848	1.798	1.827

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	0.000	0.000	0.000	0.000
2.	Ri – Bhoi	1.132	1.135	1.066	1.111
3.	West Khasi Hills	1.082	1.079	1.060	1.074
4.	Jaintia Hills	1.015	0.976	0.978	0.991
5.	East Garo Hills	1.032	1.049	1.021	1.035
6.	West Garo Hills	0.893	0.898	0.874	0.888
7.	South Garo Hills	1.264	1.288	1.170	1.241
	State (Overall)	0.985	0.986	0.955	0.976

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

Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	589	616	601	1806
2.	Ri – Bhoi	1086	1135	1116	3337
3.	West Khasi Hills	1698	1781	1717	5197
4.	Jaintia Hills	1386	1451	1378	4216
5.	East Garo Hills	2004	2110	1999	6113
6.	West Garo Hills	3205	3344	3174	9724
7.	South Garo Hills	509	544	500	1554
	State (Overall)	10479	10982	10486	31947

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

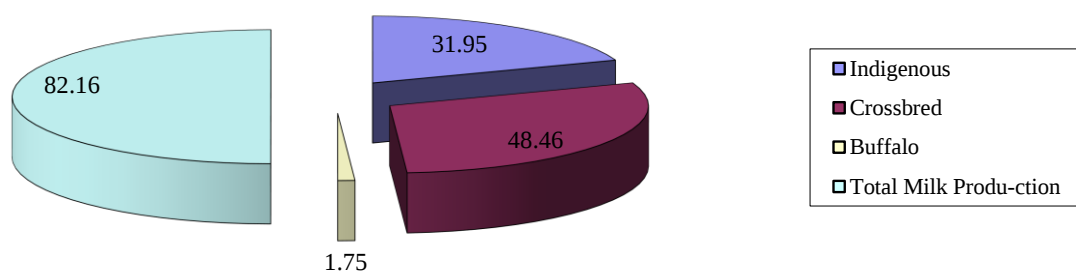
Sl. No.	Name of Districts	Summer	Monsoon	Winter	Overall
1.	East Khasi Hills	6731	6890	6677	20298
2.	Ri – Bhoi	7179	7262	7017	21459
3.	West Khasi Hills	323	328	315	966
4.	Jaintia Hills	865	882	861	2608
5.	East Garo Hills	47	49	45	141
6.	West Garo Hills	1010	1017	963	2989
7.	South Garo Hills	0	0	0	0
	State (Overall)	16155	16427	15878	48460

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	142	143	132	417
3.	West Khasi Hills	69	71	69	209
4.	Jaintia Hills	60	58	57	175
	East Garo Hills	39	40	38	117
6.	West Garo Hills	277	281	264	823
7.	South Garo Hills	3	3	3	9
	State (Overall)	590	597	562	1749

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 2012-2013	% Increase or Decrease over 2012-13
		Indigenous	Crossbred	Total				
1.	East Khasi Hills	1.81	20.30	22.10	0.00	22.10	21.270	3.90
2.	Ri – Bhoi	3.34	21.46	24.80	0.42	25.21	24.180	4.26
3.	West Khasi Hills	5.20	0.97	6.16	0.21	6.37	6.450	-1.24
4.	Jaintia Hills	4.22	2.61	6.82	0.17	7.00	7.040	-0.57
5.	East Garo Hills	6.11	0.14	6.25	0.12	6.37	6.370	0.00
6.	West Garo Hills	9.72	2.99	12.71	0.82	13.54	13.750	-1.53
7.	South Garo Hills	1.55	0.00	1.55	0.01	1.56	1.450	7.59
	State (Overall)	31.95	48.46	80.41	1.75	82.16	80.490	2.07

Milk Production (Species wise including Total Production)

**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
2013-14	8.961	0.758	1.827	7.239	0.365	0.976

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

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

2005-06	13.8	98.8	2.8	16.9	226.8	5.3
2006-07	13.9	99.9	2.8	17.0	229.0	5.5
2007-08	14.1	101.2	2.9	17.2	231.8	5.6
2008-09	14.40	103.9	2.9	17.6	232.1	5.7
2009-10	14.50	104.95	2.97	17.78	234.05	5.75
2010-11	14.60	105.73	2.99	17.87	234.99	5.72
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
2013-14	14.82	115.47	2.62	18.34	240.01	4.91

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

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%
2013-14	48.46	31.95	1.75	82.16	(+) 2.07%

Chapter – 5

District-wise & Season-wise Estimates

Egg Production

**Table 5.1 (a): District-wise and Season-Wise Estimated No. of Poultry (Fowls), 2013-14
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	1139	942	1313	1108	1057	2116	566	8241
Monsoon	1139	951	1313	1119	1077	2116	575	8291
Winter	1127	951	1274	1108	1067	2085	570	8183
Overall	1135	948	1300	1112	1067	2106	570	8238
<u>Improved</u>								
Summer	234	150	57	226	72	84	7	829
Monsoon	236	151	58	229	75	85	10	845
Winter	236	150	57	226	74	83	9	834
Overall	236	150	57	227	74	84	9	836
<u>Total</u>								
Summer	1373	1092	1370	1334	1129	2200	573	9070
Monsoon	1375	1102	1371	1348	1152	2201	585	9136
Winter	1363	1101	1331	1334	1141	2168	579	9017
Overall	1371	1098	1357	1339	1141	2190	579	9074

**Table 5.1(b): District-wise and Season-wise Estimated No. of Poultry (Ducks) 2013-14.
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	23	12	11	20	9	175	16	265
Monsoon	23	12	10	20	9	173	16	263
Winter	23	12	10	20	9	173	16	262
Overall	23	12	10	20	9	174	16	263
<u>Improved</u>								
Summer	1	6	1	8	0	1	0	17
Monsoon	1	6	1	7	0	2	0	17
Winter	1	6	1	7	0	1	0	17
Overall	1	6	1	7	0	1	0	17
<u>Total</u>								
Summer	24	18	11	27	9	175	16	280
Monsoon	24	18	11	27	9	175	16	280
Winter	24	18	11	27	9	174	16	279
Overall	24	18	11	27	9	175	16	280

Table 5.2 (a): District-wise and Season-Wise Estimated Yield per Layer (Fowls) 2013-14

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	35	36	34	35	34	36	33	35
Winter	33	34	33	33	32	32	31	33
Overall	103	105	102	103	100	103	96	103
<u>Improved</u>								
Summer	73	74	67	71	65	67	62	71
Monsoon	75	75	69	71	65	68	62	72
Winter	71	72	68	68	63	66	60	69
Overall	219	221	204	210	193	201	184	212
<u>Total</u>								
Summer	41	40	36	41	36	36	32	38
Monsoon	42	41	35	41	36	37	33	38
Winter	40	39	34	39	34	33	31	36
Overall	123	121	106	121	106	107	97	112

Table 5.2(b): District-wise and Season-wise Estimated Yield per Layer (Ducks) 2013-14.

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	33	34	33	33	32	32	31	32
Overall	104	105	103	104	101	102	96	102
<u>Improved</u>								
Summer	73	74	0	71	0	67	0	71
Monsoon	75	75	0	71	0	68	0	72
Winter	71	72	0	68	0	66	0	69
Overall	219	221	0	210	0	201	0	212
<u>Total</u>								
Summer	37	48	37	45	35	35	32	37
Monsoon	38	49	38	46	36	35	33	37
Winter	35	46	36	42	33	32	31	34
Overall	109	143	112	133	104	103	97	109

**Table 5.3(a): District-wise and Season-Wise Estimated Egg Production (Fowls) 2013-14.
(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	39.86	32.96	45.97	38.78	35.94	74.08	18.10	285.69
Monsoon	39.86	34.25	44.66	39.15	36.63	76.19	18.97	289.72
Winter	37.19	32.35	42.05	36.56	34.15	66.72	17.68	266.70
Overall	116.91	99.56	132.68	114.49	106.72	216.99	54.75	842.11
<u>Improved</u>								
Summer	17.08	11.07	3.80	16.06	4.66	5.64	0.41	58.72
Monsoon	17.73	11.33	4.01	16.23	4.89	5.79	0.62	60.61
Winter	16.78	10.77	3.86	15.38	4.63	5.49	0.54	57.44
Overall	51.59	33.17	11.67	47.67	14.18	16.92	1.57	176.77
<u>Total</u>								
Summer	56.94	44.03	49.77	54.84	40.60	79.72	18.51	344.41
Monsoon	57.59	45.58	48.67	55.38	41.52	81.98	19.59	350.33
Winter	53.97	43.12	45.91	51.94	38.78	72.21	18.22	324.14
Overall	168.50	132.73	144.35	162.16	120.90	233.91	56.32	1018.8

**Table 5.3(b): District-wise and Season-wise Estimated Egg production (Ducks) 2013-14.
(In Lakhs)**

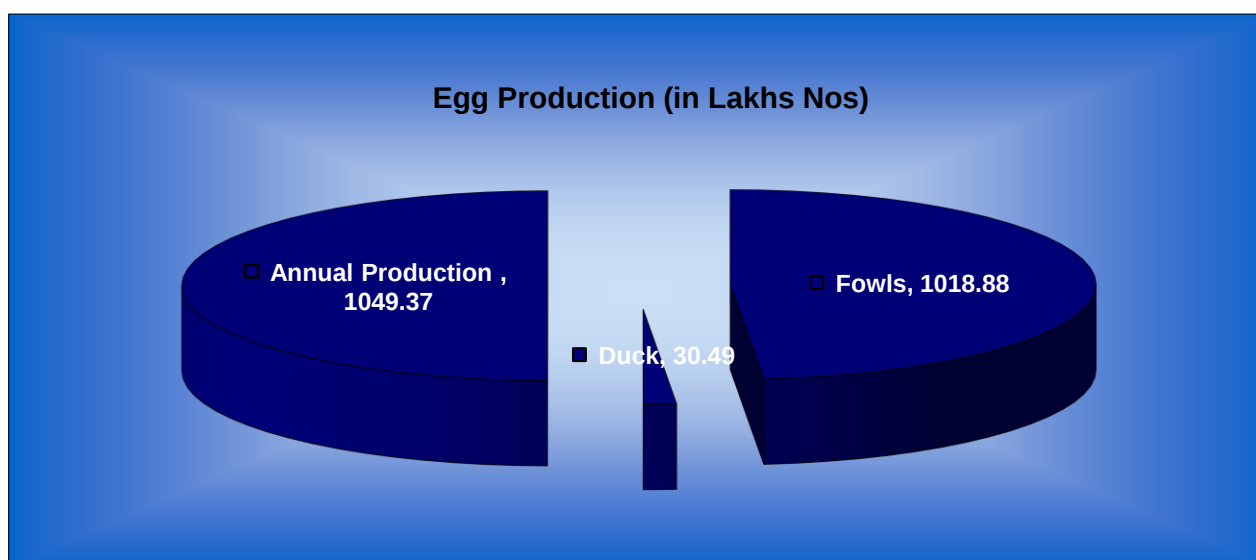
Particulars	East Khasi Hills	Ri Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	State
<u>Desi</u>								
Summer	0.79	0.41	0.38	0.69	0.30	6.12	0.52	9.21
Monsoon	0.82	0.42	0.34	0.72	0.31	6.06	0.54	9.21
Winter	0.75	0.40	0.33	0.66	0.28	5.54	0.50	8.46
Overall	2.36	1.23	1.05	2.07	0.89	17.72	1.56	26.88
<u>Improved</u>								
Summer	0.08	0.42	0.06	0.54	0.02	0.09	0.01	1.22
Monsoon	0.08	0.42	0.07	0.53	0.02	0.10	0.01	1.23
Winter	0.08	0.40	0.06	0.50	0.02	0.10	0.01	1.16
Overall	0.24	1.24	0.19	1.57	0.06	0.29	0.03	3.61
<u>Total</u>								
Summer	0.87	0.83	0.44	1.23	0.32	6.21	0.53	10.43
Monsoon	0.90	0.84	0.41	1.25	0.33	6.16	0.55	10.44
Winter	0.83	0.80	0.39	1.16	0.30	5.64	0.51	9.62
Overall	2.60	2.47	1.24	3.64	0.95	18.01	1.59	30.49

Table 5.4 (a): Estimated Total Egg production. (Lakhs Numbers) 2013-14.

Sl No.	Name of Districts	Summer		Monsoon		Winter	
		Fowls	Duck	Fowls	Duck	Fowls	Duck
1.	East Khasi Hills	56.94	0.87	57.59	0.90	53.97	0.83
2.	Ri – Bhoi	44.03	0.83	45.58	0.84	43.12	0.80
3.	West Khasi Hills	49.77	0.44	48.67	0.41	45.91	0.39
4.	Jaintia Hills	54.84	1.23	55.38	1.25	51.94	1.16
5.	East Garo Hills	40.60	0.32	41.52	0.33	38.78	0.30
6.	West Garo Hills	79.72	6.21	81.98	6.16	72.21	5.64
7.	South Garo Hills	18.51	0.53	19.59	0.55	18.22	0.51
	State (Overall)	344.41	10.43	350.33	10.44	324.14	9.62

Table 5.4 (b) : Estimated Total Egg production. (Lakhs Numbers) 2013-14.

Sl No.	Name of Districts	Total egg		Annual Production Current Year 2013-14	Annual Production Previous Year 2012-13	Percentage Increase or Decrease over the Previous year
		Fowls	Duck			
1.	East Khasi Hills	168.50	2.60	171.10	164.83	3.80
2.	Ri – Bhoi	132.73	2.47	135.20	124.23	8.83
3.	West Khasi Hills	144.35	1.24	145.59	133.35	9.18
4.	Jaintia Hills	162.16	3.64	165.80	157.91	5.00
5.	East Garo Hills	120.90	0.95	121.85	110.68	10.09
6.	West Garo Hills	233.91	18.01	251.92	279.97	-10.02
7.	South Garo Hills	56.32	1.59	57.91	56.67	2.19
	State (Overall)	1018.88	30.49	1049.37	1027.64	2.11



**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
2013-14	8.24	0.84	9.08	0.26	0.02	0.28	8.49	0.86	9.35

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%
2013-14	103	212	112	868.99	180.38	1049.37	(+) 2.11%

Chapter – 6

SEASON WISE PERCENTAGE UTILISATION OF MILK AND EGGS IN SAMPLE HOUSEHOLD. 2013-14

Table 6.1: Utilisation of Milk.

Season	Sold as fluid Milk	Converted into Milk products	Consumed as Fluid Milk in the Household	Total
Summer	96.67	1.32	2.01	100
Monsoon	96.81	1.44	1.74	100
Winter	95.00	2.06	2.94	100
Overall	96.24	1.58	2.18	100

Table 6.2: Percentage Utilization of Produced Eggs.

Season	Utilisation for Home consumption	Set for Hatching	Egg Sold	Damaged or Spoiled	Total
Summer	35.69	14.99	48.20	1.12	100
Monsoon	35.54	15.07	48.53	0.86	100
Winter	38.38	15.06	45.28	1.28	100
Overall	36.78	15.05	47.07	1.11	100

Table 6.3: Season wise Percentage of Animals which were Grazed, Stallfed or Both. 2013-14

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.	<u>CATTLE</u>									
1.1	INDIGENOUS									
	(a) In Milk	69.31	14.83	15.86	67.33	17.18	15.49	62.86	20.66	16.48
	(b) Dry & not Calved even once	79.88	12.19	7.93	80.47	10.50	9.03	73.78	11.39	14.83
	© Adult Male	78.47	-	21.53	85.60	-	14.40	76.94	-	23.06
	(d) Young Stock upto 3 Years old.	58.66	32.14	9.20	84.17	7.48	8.35	72.87	11.37	15.76
	Overall :-	70.49	18.36	11.15	80.41	8.94	10.65	72.20	11.16	16.64
1.2	CROSS BRED									
	(a) In Milk	17.20	63.80	19.00	18.52	64.49	16.99	14.32	66.50	19.18
	(b) Dry & not Calved even once	32.43	42.40	25.17	28.67	23.30	48.03	50.18	21.15	28.67
	© Adult Male	43.67	24.89	31.44	36.24	29.36	34.40	33.33	36.51	30.16
	(d) Young Stock upto 3 Years old.	29.68	47.06	23.26	28.02	41.63	30.35	39.46	31.35	29.19
	Overall :-	28.09	48.44	23.47	26.05	43.86	30.09	31.65	43.34	25.01
2	BUFFALOES									
	(a) In Milk	55.50	21.73	22.77	66.97	9.50	23.53	54.15	20.52	25.33
	(b) Dry & not Calved even once	55.37	19.22	25.41	48.64	27.16	24.20	51.58	23.08	25.34
	© Adult Male	59.20	8.80	32.00	62.84	6.01	31.15	50.29	23.39	26.32
	(d) Young Stock upto 3 Years old.	55.12	14.96	29.92	42.61	23.30	34.09	45.15	26.21	28.64
	Overall :-	55.16	17.94	26.90	55.78	16.36	27.86	50.42	23.22	26.36

ANNEXURE – X

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

Name of State : **Meghalaya**

Year : **2013-2014**

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	485	2.52	2.86	1.26	2.05	1.52	1.70	0.80	1.25	1.26	1.30	1.40	1.34
	b) Dry & not Calved even once	917	2.10	2.46	1.10	1.74	0.41	0.70	0.57	0.55	-	-	-	-
	c) Adult Male	299	2.20	2.72	1.09	1.81	1.10	-	1.20	0.90	-	-	-	-
	d) Young Stock up to 3 years	1099	1.12	1.36	0.66	1.02	-	-	0.46	0.14	-	-	-	-
	e) Overall (%)	2800	41.82	32.56	25.62	-	26.12	26.71	47.17	-	22.95	29.50	47.55	-
2	Cattle (Exotic/ Cross-bred)													
	a) In Milk	1258	18.06	18.56	4.15	11.70	7.35	9.06	12.36	10.09	4.06	4.15	4.26	4.17
	b) Dry & not Calved even once	561	16.96	17.06	2.56	12.08	5.26	4.46	5.86	5.25	1.26	1.76	1.66	1.53
	c) Adult Male	253	17.56	17.56	2.86	12.04	6.25	5.56	7.26	6.39	2.26	2.26	2.27	2.26
	d) Young Stock up to 2 & ½ years	495	3.86	5.15	2.12	3.64	1.36	-	2.08	1.24	-	-	-	-
	e) Overall (%)	2567	47.37	39.24	13.39	-	25.79	21.72	52.49	-	29.08	25.58	45.34	-
3	Buffalo													
	(a) In Milk	277	4.06	4.16	1.36	3.05	1.06	1.26	1.67	1.35	0.74	0.86	0.86	0.82
	b) Dry & not Calved even once	265	3.38	3.66	1.16	2.56	-	-	-	-	-	-	-	-
	c) Adult Male	207	3.86	4.36	1.26	3.00	-	-	-	-	-	-	-	-
	d) Young Stock up to 3 years	269	1.36	1.46	0.66	1.09	-	-	-	-	-	-	-	-
	e) Overall (%)	1018	35.61	45.80	18.59	-	25.45	26.89	47.66	-	29.29	30.25	40.46	-

Source : LPS- 1.2. Block-II

Table 6.5: Season wise Utilisation of Dung collected From Bovine at Sample Household 2013-14.

Sl No.	Particulars	Unit	Summer	Monsoon	Winter	Over all
1.	Total No. of Sample animals observed for Dung Utilisation.	Nos.	3100	2680	2585	8365
2.	Average quantity of Dung collected per animal per day.	Kg	2.88	2.96	2.85	2.90
3.	Dung utilized for manure.	Percentage	96.02	96.93	94.97	95.99
4.	Dung utilized for Dung cake.	Percentage	2.47	2.08	2.84	2.19
5.	Dung utilized for other purpose.	Percentage	1.51	0.86	2.19	1.55

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 – 2013-14

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.	44455	6937	9803	5864	4382	10261	3132	84834	51926	32908
(b)	Buffaloes.	244	37	0	561	71	468	0	1381	1381	
©	Pig	40883	6136	9143	8276	6255	6971	3381	81045	71315	9730
(d)	Sheep & Goat	19920	2972	1117	5881	3501	4819	1919	40129	38941	1188
(e)	Poultry.	765414	72578	95712	113248	58626	107680	20381	1233639	1207915	25724
	<u>MONSOON</u>										
(a)	Cattle.	45150	7373	10210	7080	4335	8530	2177	84855	35488	49367
(b)	Buffaloes.	246	17	0	625	34	797	0	1719	1719	
©	Pig.	40276	8796	9288	10662	5270	7345	3673	85310	73943	11367
(d)	Sheep & Goat	20279	3128	786	6565	2703	5730	2747	41938	40773	1165
(e)	Poultry.	670658	79623	70099	103688	37477	108967	22500	1093012	1072507	20505
	<u>WINTER</u>										
(a)	Cattle.	45076	7357	10160	7073	4362	8502	2168	84698	49343	35355
(b)	Buffaloes.	240	17	0	600	32	732	0	1621	1621	
©	Pig.	40186	8791	9249	10668	5259	7371	3648	85172	72540	12632
(d)	Sheep & Goat	20204	3136	780	6571	2690	5739	2868	41988	40416	1572
(e)	Poultry.	671379	80334	70329	104020	38210	109006	22524	1095802	1004418	91384

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	134.68	21.67	30.17	20.02	13.08	27.29	7.48	254.39	136.76	117.63
2.	Buffaloes	0.73	0.07	0	1.79	0.14	2	0	4.73	4.73	0
3.	Pig	121.35	23.72	27.68	29.61	16.78	21.69	10.7	251.53	217.8	33.73
4.	Sheep & Goat	60.40	9.24	2.68	19.02	8.89	16.29	7.53	124.05	120.12	3.93
5.	Poultry	2107.45	232.54	236.14	320.96	134.31	325.65	65.41	3422.46	3284.85	137.61

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	90.00	90.00	90	90	90.00	90
(b)	Buffaloes.	120.00	120.00	0	120.00	120	120	0	120
©	Pig	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45
(d)	Sheep & Goat.	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12
(e)	Poultry.	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.2
	<u>MONSOON</u>								
(a)	Cattle.	90.55	90.31	90.46	90.48	88.05	87.41	87.00	89.98
(b)	Buffaloes.	120.00	120.00	0	120.00	119	120	0	119.98
©	Pig	45.00	44.98	45.00	45.00	45.05	45.09	44.85	45
(d)	Sheep & Goat.	10.00	10.02	9.92	10.09	10.04	10.02	10.02	10.02
(e)	Poultry.	1.41	1.43	1.46	1.45	1.45	1.42	1.40	1.42
	<u>WINTER</u>								
(a)	Cattle.	88.11	88.19	88.31	88.39	88.06	88.17	88.83	88.19
(b)	Buffaloes.	117.00	117.00	0	117.34	116.0	117	117.5	117.35
©	Pig	43.11	43.17	43.19	43.27	43.05	43.28	43.33	43.17
(d)	Sheep & Goat.	9.83	9.61	9.70	9.63	9.73	9.78	9.65	9.75
(e)	Poultry.	1.40	1.40	1.40	1.40	1.36	1.34	1.40	1.39

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	89.55	119	44.37	10.61	1.34
2.	Ri – Bhoi	89.50	119	44.4	10.54	1.34
3.	West Khasi Hills	89.59	0	44.42	10.54	1.35
4.	Jaintia Hills	89.62	119.11	44.42	10.57	1.35
5.	East Garo Hills	88.7	118.67	44.37	10.59	1.34
6.	West Garo Hills	88.53	119.17	44.39	10.6	1.32
7.	South Garo Hills	88.61	0	44.38	10.56	1.33
	State (Overall)	89.39	119.08	42.48	10.57	1.33

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.	4001	624	882	528	394	923	282	7634	4672	2962
2.	Buffaloes	29	4	0	67	9	56	0	165	165	0
3.	Pig	1840	276	411	372	281	314	152	3646	3208	438
4.	Sheep & Goat.	239	36	13	71	42	58	23	482	468	14
5.	Poultry.	918	87	115	136	70	129	24	1479	1448	31
	TOTAL	7027	1027	1421	1174	796	1480	481	13406	9961	3445
	<u>MONSOON</u>										
1.	Cattle.	4088	666	924	641	382	746	189	7636	3194	4442
2.	Buffaloes	30	2	0	75	4	96	0	207	207	0
3.	Pig	1812	396	418	480	237	331	165	3839	3327	512
4.	Sheep & Goat.	203	31	8	66	27	57	28	420	408	12
5.	Poultry.	946	114	102	150	54	155	32	1553	1524	29
	TOTAL	7079	1209	1452	1412	704	1385	414	13655	8660	4995
	<u>WINTER</u>										
1.	Cattle.	3972	649	897	625	384	750	193	7470	4352	3118
2.	Buffaloes	28	2	0	70	4	86	0	190	190	0
3.	Pig	1732	380	399	462	226	319	158	3676	3131	545
4.	Sheep & Goat.	199	30	8	63	26	56	28	410	395	15
5.	Poultry.	940	112	98	146	52	146	32	1526	1399	127
	TOTAL	6871	1173	1402	1366	692	1357	411	13272	9467	3805
	OVERALL	20977	3409	4275	3952	2192	4222	1306	40333	28088	12245

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

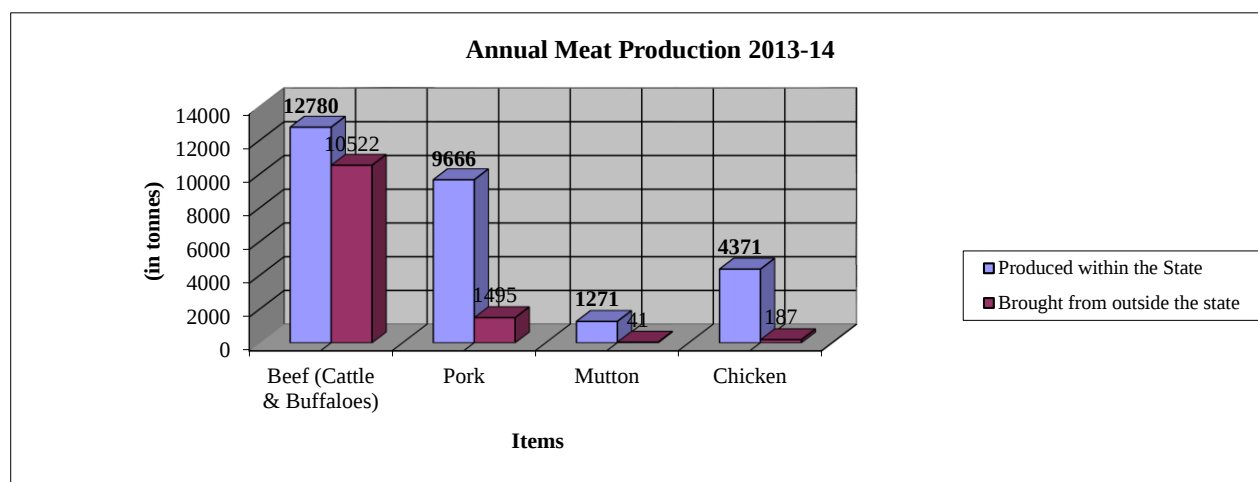
Sl No	Particulars	East Khasi Hills	Ri-Bhoi	West Khasi Hills	Jaintia Hills	East Garo Hills	West Garo Hills	South Garo Hills	Total	Source	
										Within the State	Brought from outside the State
1	2	3	4	5	6	7	8	9	10	11	12
1.	Cattle	12061	1939	2703	1794	1160	2419	664	22740	12218	10522
2.	Buffaloes	87	8	0	212	17	238	0	562	562	0
3.	Pig	5384	1052	1228	1314	744	964	475	11161	9666	1495
4.	Sheep & Goat	641	97	29	200	95	171	79	1312	1271	41
5.	Poultry	2804	313	315	432	176	430	88	4558	4371	187
	TOTAL	20977	3409	4275	3952	2192	4222	1306	40333	28088	12245

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

Sl No.	Name of Districts	Meat Production Category Wise (Tonnes)						Annual Production 2013-14 (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	12061	87	12148	5384	641	2804	20977	52.01 %
2.	Ri – Bhoi	1939	8	1947	1052	97	313	3409	8.45 %
3.	West Khasi Hills	2703	0	2703	1228	29	315	4275	10.6 %
4.	Jaintia Hills	1794	212	2006	1314	200	432	3952	9.8 %
5.	East Garo Hills	1160	17	1177	744	95	176	2192	5.43 %
6.	West Garo Hills	2419	238	2657	964	171	88	3880	9.62 %
7.	South Garo Hills	664	0	664	475	79	430	1648	4.09 %
	State (Overall)	22740	562	23302	11161	1312	4558	40333	100 %
	Percentage Contribution of each species to total production	56.38%	1.39%	57.77%	27.67%	3.25%	11.3%	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 2011-13
		2013-14			2012-13			
		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)	12780	10522	23302	13427	9506	22933	(+)1.61%
2	Pork	9666	1495	11161	8630	1514	10144	(+)10.32%
3	Mutton	1271	41	1312	1166	25	1191	(+) 10.16%
4	Chicken	4371	187	4558	4190	74	4264	(+) 6.89%
5	Total	28088	12245	40333	27413	11119	38532	(+) 4.67%



7.9: Per Capita Availability of Meat Grams / Day 2013-14

Items	Per Capita Availability
Beef	21.53
Pork	10.32
Mutton	1.21
Chicken	4.21
Total	37.28

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
2013-14	254.39	4.72	251.53	124.06	3422.45

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
2013-14	89.39	119.11	44.38	10.57	1.33

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

Table 7.12: Total Meat production from 1983-84.

Year	Total Meat Production '000' Tonnes.				
	Cattle & Buffaloes	Pig	Sheep & Goat	Poultry	Total
2000-01	20.7	8.4	1.3	3.2	33.6
2001-02	20.5	8.5	1.2	3.6	33.8
2002-03	21.3	8.9	1.4	3.9	35.5
2003-04	21.3	9.9	1.0	3.4	35.6
2004-05	21.6	10.5	1.1	3.2	36.4
2005-06	21.43	10.46	1.02	3.65	36.56
2006-07	21.40	10.00	1.03	3.98	36.41
2007-08	21.56	10.07	1.04	4.02	36.69
2008-09	21.89	10.16	1.04	3.99	37.08
2009-10	22.32	9.89	1.05	4.06	37.33
2010-11	22.77	10.02	1.06	4.09	37.94
2011-12	22.92	10.10	1.09	4.14	38.25
2012-13	22.93	10.15	1.19	4.26	38.53
2013-14	23.30	11.16	1.31	4.56	40.33

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

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.)
2010-11	79.13	37.94	101.14
2011-12	79.67	38.25	102.06
2012-13	80.49	38.53	102.76
2013-14	82.16	40.33	104.94



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