

PEOPLES' DEMOCRATIC REPUBLIC
OF ETHIOPIA

CENTRAL STATISTICAL AUTHORITY

AGRICULTURAL SAMPLE SURVEY
1986/87 (1979 E.C.)

REPORT ON
LIVESTOCK AND POULTRY

(PRIVATE PEASANT HOLDINGS)

ADDIS ABABA , AUGUST 1989

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I N T R O D U C T I O N

The main characteristics of Ethiopian Economy is based on Agriculture. The major source of livelihood in the rural areas is Agriculture. The contribution of Agriculture to Gross Domestic product of Ethiopia is the highest, about 45 percent; and provides about 90 percent to exports. One of the major component of this sector is livestock. Livestock and livestock products contribute significant share to foreign exchange earnings. Hence, it is believed that this livestock sector has a great potential for development.

The importance of livestock in Ethiopia, especially that of cattle herd is enormous. It provides the major traction of energy utilized in agriculture. Moreover, the cattle herd together with sheep and goats are the most important sources of hides and skins in the export markets.

O B J E C T I V E S

In order to plan for effective livestock industry in the country, reliable data on various characteristics of livestock are required. Users from different sectors need to obtain these data as basis for decision making and formulation of efficient economic policies for the country.

To provide the necessary data on livestock and poultry, agricultural sample survey was conducted in the twelve administrative regions excluding Eritrea, Tigray and nomadic areas. The report presents a preliminary results for the private peasant holdings 1986/87 (1979 E.C)

METHODS OF DATA COLLECTION

The method used to collect the data from private peasant holdings was by interviewing the sampled holders. The reference period for the enumerating of livestock and poultry was January 1, 1982.

C O V E R A G E

The results were obtained on the information collected through holders in about 18475 agricultural households. These sampled holders households were designed to represent the local peasant holdings within the survey areas. Almost all domestic animals and poultry were covered in the sampled farmers associatens. However, non-agricultural households were excluded from the smaple. The result provides information on the number of livestock and poultry by type, age and sex.

The regional estimates may be subject to higher sampling fluctuations, hence, the possibility of sampling errors should be taken into account.

For the national total in Table 1, the estimates for Eritrea and Tigray were taken from the report on the Small-Scale Agricultural Sample Census, 1976/77 (1967 E.C) Volume II. In this publication poultry includes only hens, cocks, pullets and chickens. All chicks are considered as male. As a result, the ratio of male to female poultry is 198 : 100.

S U M M A R Y O F T H E R E S U L T S

As shown in Table 1 the estimates of livestock population for the whole country excluding nomadic area was about ~~46.46~~ million and the poultry population was 21.87 million in the private peasant holding sector.

Regarding the distribution of cattle population among the twelve regions, the highest percentage was reported in Shoa with 27.7 percent while the lowest was in Illubabor with 2.8 percent. Further, the highest estimates of sheep and goats were estimated in Shoa followed by Wollo. Hence, the lowest Sheep population was in Bale and the lowest goat population was reported in Illubabor.

Moreover, the distribution of poultry population among the twelve regions was also ~~presented~~ in this publication. Hence, Shoa has the highest percentage of about 28.7 percent which was followed by Sidamo with 11.1 percent. However, the lowest number of poultry population was estimated in Bale region which was only 0.76 percent.

Table : 1

Total Number of Livestock and Their
Percentage Distribution, Poultry and
Beehives for the Whole Country
1986/87 (1979 E.C)
(For Private Holding)

<u>Item</u>	<u>Number In Thousands</u>	<u>Percentage</u>
Cattle	26298.66	56.61
Sheep	9635.04	20.74
Goats	6498.91	13.99
Horses	1287.62	2.77
Asses	2411.58	5.19
Camels	57.59	0.12
Mules	265.68	0.58
Total	46455.08	100.00
Poultry	21870.15	
Beehives	3189.01	

Estimates for Eritrea and Tigray are taken from the report of the
Small Agricultural Census 1976/77 (1969 E.C) Vol.II

Table : 2
 Number of Cattle and Their Percentage
 Distribution By Age and Sex In
 12 Regions of The Country
 1986/87 (1979 E.C)

Cattle

(For Private Holdings)

Age Group	<u>Number in Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Under 1 Year	3356.72	1487.60	1869.11	14.24	6.31	7.93
1 Year, Under 2	2519.76	1077.96	1441.79	10.69	4.57	6.12
2 Years, Under 3	2228.44	905.90	1322.54	9.45	3.84	5.61
3 Years, Under 4	2521.70	9916.14	1605.56	10.70	3.89	6.81
4 Years & Over	12948.15	5462.57	7485.57	54.92	23.17	31.75
All Ages	23574.76	9850.19	13724.57	100.00	41.78	58.22

Table : 3
 Number of Sheep and Their Percentage
 Distribution By Age and Sex in 12
 Regions of The Country
 1986/87 (1979 E.C)

Sheep

(For Private Holdings)

Age Group	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Under 1 Year	3111.76	1412.81	1689.95	35.65	16.19	19.47
1 Year & Over	5616.38	890.89	4725.48	64.35	10.21	54.14
All Ages	8728.14	2303.70	6424.44	100.00	26.39	73.61

Table: 8 Number of Mules and Their Percentage
 Distribution by Sex in 12 Regions
 of the Country.
 1986/87 (1979 E.C)

Mules
(For Private Holdings)

	<u>Number in Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Total	234.48	108.18	126.30	100	46.14	53.86

Table: 9 Number of Beehives in 12
 Regions of the Country
 1986/87 (1979 E.C)

Beehives
(For Private Holdings)

	<u>Number in Thousands</u>
Total	3189.01

Table : 10
 Number of Hens, Cocks, Pullets & Chickens
 and Their Percentage Distribution By Sex
 In 12 Regions of The Country
 1986/87 (1979 E.C)

Hens, Cocks, Pullets & Chickens
 (For Private Holdings)

	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Total	18937.85	12584.00	6353.85	100.00	66.45	33.55

Table : 11
 Number of Ducks and Their percentage
 Distribution By Sex In 12 Regions
 of The Country 1986/87
 (1979 E.C)

Ducks
 (For Private Holdings)

	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
	2.36	2.36	0.00	100.00	100.00	0.00

Table : 12
 Number of Cattle By Sex
 and Their Percentage Distribution
 In 12 Region Of The Country
 1986/87 (1979 E.C)

Region	Cattle			Percentage		
	(For Private Holdings)					
	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Arssi	1838.92	766.18	1072.74	7.80	3.25	4.55
Bale	783.51	260.36	523.15	3.32	1.10	2.22
Gamogofa	808.11	326.68	481.42	3.43	1.39	2.04
Gojam	2644.48	1323.77	1320.71	11.22	5.62	5.60
Gonder	1187.08	610.53	576.54	5.04	2.59	2.45
Hararghe	1562.72	622.67	940.06	6.63	2.64	3.99
Illubabor	650.16	273.02	377.14	2.76	1.16	1.60
Keffa	1671.73	712.71	959.02	7.09	3.02	4.07
Shoa	6527.46	2729.61	3797.85	27.69	11.58	16.11
Sidamo	2854.42	803.01	2051.41	12.11	3.41	8.70
Wellega	1750.16	774.13	976.03	7.42	3.28	4.14
Wollo	1296.02	647.51	648.50	5.50	2.75	2.75
All Regions	23574.76	9850.19	13724.57	100.00	41.78	58.22

Table : 13

Number of Sheep By Sex
and Their percentage Distribution
In 12 Regions Of The Country
1986/87 (1979 E.C.)

Sheep

(For Private Holdings)

Region	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Arssi	929.65	237.09	692.56	10.65	2.72	7.93
Bale	131.28	32.55	98.72	1.50	.37	1.13
Gamogofa	384.00	95.91	288.09	4.40	1.10	3.30
Gojam	954.82	200.92	753.89	10.94	2.30	8.64
Gonder	479.01	100.17	378.84	5.49	1.15	4.34
Hararghe	237.49	64.00	173.49	2.72	.73	1.99
Illubabor	207.11	49.54	157.57	2.32	.57	1.81
Keffa	488.44	122.87	365.57	5.60	1.41	4.19
Shoa	2089.42	617.31	1472.11	23.94	7.07	16.87
Sidamo	721.76	182.58	539.18	8.27	2.09	6.18
Wellega	208.03	49.88	158.16	2.38	.57	1.81
Wollo	1897.12	550.88	1346.24	21.74	6.31	15.42
All Regions	8728.14	2303.71	6424.44	100.00	26.39	73.61

Table: 14
 Number of Goats By Sex
 and Their Percentage Distribution
 In 12 Regions Of The Country
 1986/87 (1979 E.C.)

Goats						
(For Private Holdings)						
Region	Number In Thousands			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Arssi	324.25	107.67	216.58	6.60	2.19	4.41
Bale	138.97	43.39	95.58	2.83	.88	1.95
Gamogofa	190.21	53.43	136.78	3.87	1.09	2.79
Gojam	390.24	112.48	277.76	7.95	2.29	5.66
Gonder	296.39	86.36	210.02	6.04	1.76	4.28
Harar	463.64	121.41	342.23	9.44	2.47	6.97
Illubabor	77.19	24.04	53.15	1.57	.49	1.08
Keffa	284.97	90.39	194.58	5.80	1.84	3.96
Shoa	1393.62	507.12	886.50	28.39	10.33	18.06
Sidamo	478.39	116.66	361.73	9.74	2.38	7.37
Wellega	184.27	51.92	132.35	3.75	1.06	2.70
Wollo	686.99	208.89	478.10	13.99	4.26	9.74
All Regions	4909.11	1523.77	3385.34	100.00	31.04	68.96

Table : 15
 Number of Horses By Sex
 and Their Percentage Distribution
 In 12 Regions Of The Country
 1986/87 (1979 E.C)

Horses

(For Private Holdings)

Region	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Arssi	223.01	112.41	114.60	18.04	8.93	9.11
Bale	44.78	25.84	18.95	3.56	2.05	1.51
Gamogofa	26.05	12.51	13.54	2.07	.99	1.08
Gojam	154.50	79.17	75.34	12.28	6.29	5.99
Gonder	56.98	31.23	25.75	4.53	2.48	2.05
Hararghe	4.79	0.00	4.79	.38	0.00	.38
Illubabor	36.83	17.50	19.33	2.93	1.39	1.54
Keffa	53.06	28.42	24.63	4.22	2.26	1.96
Shoa	360.63	182.15	178.48	28.66	14.48	14.18
Sidamo	176.77	88.32	88.45	14.05	7.02	7.03
Wellega	25.67	11.96	13.71	2.04	.95	1.09
Wollo	91.15	40.83	50.32	7.24	3.25	4.00
All Regions	1258.22	630.34	627.89	100.00	50.10	49.90

Table : 16

Number of Asses By Sex
and Their Percentage Distribution
In 12 Regions Of The Country
1986/87 (1979 E.C)

Region	Asses					
	(For Private Holdings)					
	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Arssi	155.04	70.28	84.76	7.49	3.40	4.10
Bale	61.51	29.02	32.49	2.97	1.40	1.57
Gamogofa	6.38	3.82	2.56	.31	.18	.12
Gojam	280.40	94.58	185.82	13.55	4.57	8.98
Gonder	182.91	47.18	135.73	8.84	2.28	6.56
Hararghe	204.70	104.19	100.51	9.89	5.04	4.86
Illubabor	1.99	1.15	.84	.10	.06	.04
Keffa	25.21	18.11	7.10	11.22	.88	.34
Shoa	711.41	300.18	411.24	34.39	14.51	19.88
Sidamo	143.96	89.75	54.21	6.96	4.34	2.62
Wellega	84.15	35.45	48.70	4.07	1.71	2.35
Wollo	211.11	80.17	130.94	10.20	3.88	6.33
All Regions	2068.78	873.87	1194.92	100.00	42.24	57.76

Table
 Number of Camels By Sex
 and Their Percentage Distribution
 In 12 Regions Of The Country
 1986/87 (1979 E.C)

Camels

(For Private Holdings)

Region	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Arssi	.11	.11	.00	.18	.18	.00
Bale	1.45	.77	.68	2.52	1.34	1.19
Gamogofa	.00	.00	.00	.00	.00	.00
Gojam	.42	.42	.00	.72	.72	.00
Gonder	.00	.00	.00	.00	.00	.00
Harargehe	8.46	4.14	4.32	14.70	7.19	7.51
Illubabor	.29	.29	.00	.51	.51	.00
Keffa	.00	.00	.00	.00	.00	.00
Shoa	.09	.09	.00	.16	.16	.00
Sidamo	2.49	1.11	1.38	4.31	1.92	2.39
Wellega	.00	.00	.00	.00	.00	.00
Wollo	44.28	22.02	22.26	76.89	38.24	38.65
All Regions	57.59	28.95	28.64	100.00	50.27	49.73

Table : 18

Number of Mules By Sex
and Their Percentage Distribution
In 12 Regions Of The Country
1986/87 (1979 E.C)

Mules

(For Private Holdings)

Region	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Arssi	17.84	10.07	7.77	7.61	4.29	3.32
Bale	7.57	3.83	3.74	3.23	1.63	1.60
Gamogofa	10.08	3.94	6.15	4.30	1.68	2.62
Gojam	18.63	8.77	9.86	7.95	3.74	4.21
Gonder	18.67	7.83	10.84	7.96	3.34	4.62
Hararghe	8.89	3.76	5.12	3.79	1.60	2.19
Illubabor	5.83	2.17	3.66	2.49	.93	1.56
Keffa	14.39	5.31	9.08	6.14	2.26	3.87
Shoa	72.57	32.66	39.90	30.95	13.93	17.02
Sidamo	16.61	8.68	7.93	7.08	3.70	3.38
Wellega	12.67	7.16	5.51	5.40	3.05	2.35
Wollo	30.73	14.01	16.73	13.11	5.97	7.13
All Regions	234.48	108.18	126.30	100.00	46.14	53.86

Table : 19

Number of Beehives
and Their Percentage Distribution
In 12 Regions of The Country
1986/87 (1979 E.C)

Beehives

(For Private Holdings)

Region	<u>Number In Thousands</u>	<u>Percentage</u>
Arsi	69.54	2.18
Bale	194.70	6.11
Gamogofa	122.52	3.84
Gojam	347.44	10.90
Gonder	103.56	3.25
Hararghe	122.78	3.85
Illubabor	347.21	10.89
Keffa	446.60	14.00
Shoa	475.55	14.91
Sidamo	150.61	4.72
Wellega	649.06	20.35
Wollo	159.42	5.00
All Regions	3189.01	100.00

Table : 21

Number of Ducks By Sex
and Their Percentage Distribution
In 12 Regions Of The Country
1986/87 (1979 E.C.)

Ducks

(For Private Holdings)

Region	<u>Number In Thousands</u>			<u>Percentage</u>		
	Total	Male	Female	Total	Male	Female
Arssi	.66	.00	.00	.00	.00	.00
Bale	1.23	1.23	.00	52.00	52.00	.00
Gamogofa	.00	.00	.00	.00	.00	.00
Gojam	.00	.00	.00	.00	.00	.00
Gonder	.00	.00	.00	.00	.00	.00
Hararghe	.00	.00	.00	.00	.00	.00
Illubabor	.00	.00	.00	.00	.00	.00
Keffa	.00	.00	.00	.00	.00	.00
Shoa	1.13	1.13	.00	48.00	48.00	.00
Sidamo	.00	.00	.00	.00	.00	.00
Wellega	.00	.00	.00	.00	.00	.00
Wollo	.00	.00	.00	.00	.00	.00
All Regions	2.36	2.36	.00	100.00	100.00	.00