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PEOPLE'S DEMOCRATIC REPUBLIC  
OF ETHIOPIA  
CENTRAL STATISTICAL AUTHORITY

# AGRICULTURAL SAMPLE SURVEY

1988/89 (1981 E.C.)

RESULTS ON AREA, PRODUCTION & YIELD OF  
MAJOR CROPS BY SECTOR AND SEASON

ADDIS ABABA  
SEP. 1990

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## I. INTRODUCTION

Agriculture is the major contributing sector to the country's economy. Main family income of the rural Ethiopian people predominantly comes from agricultural activities. The diversified nature of the country's climate favours the growth of a variety of food and cash crops. The food crops include teff, barley, maize, wheat, sorghum etc..., while the cash crops include coffee, cotton, tea etc...

It is well known that for over a decade the food crop and other agricultural production situation in Ethiopia has continued to deteriorate. Annual growth of food crop production is less than the rate of growth of the population. Moreover, agricultural yields have stagnated or fallen for many production. In response to these mounting difficulties measures are being taken, and much has been done due to the measures that are taken by the government through participation in various activities undertaken to develop agricultural production strategies and their implementation. The measures which were taken to improve crop production, livestock, forestry and irrigation scheme are great and promising. However, a lot is expected to meet the desired goal. As a result of greater complexity and interdependence between private, public and government agricultural sectors, national policy decisions today are decisively dependent on quantitative information to identify and understand the complex problem of the agricultural sector of the nation. In order to achieve these goals, careful formulation of agricultural development plans in a scientific manner is highly required.

This report deals with the estimates of area, production and yield of major crops for Private Holdings, Producers' Cooperatives and State Farms for both seasons, i.e. Meher and Belg at national as well as regional levels, from the survey results of the 1988/89 (1981 E.C.) Agricultural Sample Survey, which was conducted in the rural agricultural sector of the country. Regarding Belg season data were collected for the agricultural year of 1987/88 (1980 E.C.)

We hope this publication will contribute a lot in providing data on major agricultural crops that help in developing strategies, policies, short and long term plans to become self-sufficient in food production and accelerate the development of agricultural sector to ascertain how agriculture can be used to aid over all development, there by improve the living standard of the people and initiate the development of various industries in the country.

## II OBJECTIVE

The objective of the Agricultural Sample Survey which has been conducted annually since 1980/81 (1973 E.C.) is to collect basic quantitative information about the nations agriculture needed in development planning, socio-economic policy formulation and establishment of national priorities. The survey has been government sponsored operation for the collection of data on agricultural characteristics, using the agricultural holding as the statistical unit. It aimed at obtaining reliable estimates for the regions in the country and for the country as a whole.

..../

### III. COVERAGE OF THE SURVEY

The 1988/89 (1981 E.C.) agricultural sample survey was launched in 26 of the newly formed Administrative Regions excluding Eritrea, Tigray, Aseb and Ogaden Autonomous Regions. Information were collected on area under major crops production of major crops general agricultural practices, number of livestock and poultry and other related agricultural variables.

These data were collected from the sampled 867 Farmer's Association. The population of the survey were Private Peasant Holdings, Cooperative and State Farms. The Cooperative farms include Producers' Cooperatives and other type of cooperatives (Other cooperatives are like Women's Cooperatives, Youth Cooperatives...etc). We should note that all cooperatives existing in the selected 867 Farmers Associations were enumerated. Regarding the Producers' Cooperatives, information were collected from all Producers' Cooperatives existing in the country (excluding Eritria, Tigray, Asab and Ogaden autonomous regions).

### IV. SAMPLE DISIGN AND METHOD OF DATA COLLECTION

For the 1988/89 (1981 E.C) Agricultural Sample Survey, 867 Farmers' Associations were selected from the 26 Administrative Regions in the country with probability proportional to size without replacement. From each selected Farmers' Association, a systematic sample of 25 agricultural households were selected.

..../

All agricultural holders belonging to the selected agricultural household were enumerated and the required data were collected from these holders. With respect to the information on area, all cropped fields under temporary and permanent crops belonging to the sampled holders were physically measured and for production, all fields under temporary crops for each selected holder were classified by type of crop and from each class a field under crop was randomly selected for crop cutting experiment.

#### V. DISCRIPTION OF RESULTS

The estimates of area, production and yield of major crops for Private Peasant Holdings, Cooperatives and State Farms were compiled from the results of sample survey of 1988/89 (1961 E.C.) conducted by Central Statistical Authority.

As it is shown in Table 1, the total area under major crops during both seasons is estimated to be 5.7 million hectares out of which 5.1 million hectares, 89.5% accounts for Private Peasant Holdings while about 448 thousand hectares 7.9% and about 147 thousand hectares 2.6% accounts for Producer Cooperatives and State Farms respectively. It is also indicated in Table 1 and 2, 4.89 million hectares (85.2%) in area, 57.3 million quintals (89.9%) in production is the share of cereals: about 636 thousand hectares (11.1%) in area, 5.6 million quintals (8.8%) in production is the share of pulses: while about 215.5 thousand hectares (3.8%) in area: 785 thousand quintals (1.2%) in production is the share of other crops, mainly oil seeds for both seasons at national level.

.../

As indicated in this publication, the total production of the major crops during both seasons is estimated to be 63.8 million quintals . Out of which 57.3 million quintals (89.8%) is produced by private Peasant Holdings, 3.7 million quintals (5.8%) by producers' Cooperatives and 2.7 million quintals (4.3%) is produced by State Farms. When one comes to the details, the total production of major crops during Main Season accounts 58.5 million quintals, which constitute about 91.8% out of the total production during both seasons where the rest 5.2 million quintals (8.2%) is the contribution of Belg Season. During the Main season 52.4 million quintals (89.6%) is produced by private Peasant Holdings, 3.5 million quintals (6.0%) and 2.6 million quintals (4.4%) are from producer Cooperatives and State Farms respectively.

The Belg Season constitute about 13.2% of the total area and 8.2% of the total production of major crops. Even-though, the contribution of Belg Season Production to the national estimate is small, about 4.9 million quintals (93.5% of the total Belg Season Production) is generated from Private Peasant Holdings, while about 186.49 thousand quintals (3.6%) and 153.57 thousand quintals (2.9%) from producers' Cooperatives and State Farms respectively.

In general from the above short and brief description of results for the three sectors, one can see that major share of the production of major crops in the country is obtained from the Private peasant Holdings followed by producers' Cooperatives and then by State Farms.

TABLE 1.

ESTIMATES OF AREA UNDER MAJOR CROPS IN ETHIOPIA\*  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON			TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPERATIVE	STATE FARMS	TOTAL	PRIVATE	PRODUCERS COOPERATIVE	STATE FARMS	
CEREALS	3,733.65	318.93	106.66	4,159.24	685.50	35.44	10.61	4,890.17
Teff	1,262.85	78.01	0.63	1,341.49	115.58	4.09	0.08	1,461.24
Barley	584.91	51.18	15.11	651.20	291.83	15.44		958.47
Wheat	474.61	75.73	45.06	595.40	33.10	8.75	10.38	647.53
Maize	702.92	70.42	35.06	808.40	205.99	6.56	0.15	1,021.10
Sorghum	556.63	38.97	10.80	606.40	20.52	0.15		627.07
Millet	125.62	3.70		129.32	3.62	0.02		132.96
Oats	26.11	0.92		27.03	14.86	0.43		42.32
PULSES	535.23	63.07	14.78	613.08	21.99	1.07		636.14
Horse beans	208.72	17.10	0.97	226.79	0.42	0.08		227.29
Chick peas	108.96	16.16		125.12	0.81	0.07		126.00
Haricot beans	59.03	6.02	12.69	77.74	15.10	0.52		93.36
Field peas	76.25	9.42	0.01	85.68	2.90	0.32		88.90
Lentils	31.96	3.00		34.96	2.76	0.08		37.80
Vetch	50.31	8.33		58.64				58.64
Soya beans		3.04	1.11	4.15				4.15
OTHERS	170.35	28.99	14.92	214.26	1.09	0.14		215.49
Neug	111.12	18.41		129.53		0.01		129.54
Linseed	44.78	4.60		49.38	0.86	0.10		50.34
Fenugreek	11.17	0.76		11.93	0.23	0.03		12.19
Rapeseed	3.28	0.62	5.49	9.39				9.39
Sunflower		0.12	0.05	0.17				0.17
Groundnuts		2.20	0.38	2.58				2.58
Sesame		2.28	9.00	11.28				11.28
TOTAL	4,439.23	410.99	136.36	4,986.58	708.58	36.65	10.61	5,742.42

\* Excluding Assab, Eritrea, Ogaden and Tigray Autonomous Regions

TABLE 2.

- 7 -

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN ETHIOPIA\*  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON				BELG SEASON			TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER-ATIVE	STATE FARMS	TOTAL	PRIVATE	PRODUCERS COOPER-ATIVE	STATE FARMS	
CEREALS	45629.11	3130.21	2444.84	52204.16	4801.87	176.13	153.57	57335.73
Teff	11319.29	531.17	4.77	11855.23	308.11	13.85	0.05	12177.24
Barley	5814.11	445.85	218.11	7478.07	2623.25	80.30		10181.62
Wheat	5899.13	849.99	914.21	7663.33	149.11	34.15	152.77	7999.36
Maize	13363.25	902.19	1176.57	15442.01	1401.09	43.01	0.75	16886.86
Sorghum	7892.14	366.20	131.18	8389.52	102.43	0.17		8492.12
Millet	1039.65	30.32		1069.97	51.83	0.10		1121.90
Oats	301.54	4.49		306.03	166.05	4.55		475.63
PULSES	5142.31	322.99	59.36	5524.66	102.69	10.02		5637.37
Horse beans	2455.72	106.71	11.10	2573.53	5.46	0.12		2579.11
Chick peas	769.33	76.75		846.08	4.90	0.21		851.19
Haricot beans	585.71	21.99	34.03	641.73	60.39	7.50		709.62
Field peas	728.69	41.43	0.07	770.19	11.73	2.14		784.06
Lentils	247.57	10.73		258.30	20.21	0.05		278.56
Vetch	355.29	54.86		410.15				410.15
Soya beans		10.52	14.16	24.68				24.68
OTHERS	630.46	75.36	76.79	782.61	2.07	0.34		785.02
Neug	370.99	36.73		407.72		0.00		407.72
Linseed	173.32	13.92		187.24	1.78	0.18		189.20
Fenugreek	56.79	2.69		59.48	0.29	0.16		59.93
Rapeseed	29.36	3.99	40.68	74.03				74.03
Sunflower		0.55	0.82	1.37				1.37
Groundnuts		9.22	2.81	12.03				12.03
Sesame		8.26	32.48	40.74				40.74
TOTAL	52401.88	3528.56	2580.99	58511.43	4906.63	186.49	153.57	63758.12

\*Excluding Assab, Eritrea, Ogaden and Tigray Autonomous Regions

TABLE 3.

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ESTIMATES OF YIELD UNDER MAJOR CROPS IN ETHIOPIA\*  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON			TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPERATIVES	STATE FARMS	TOTAL	PRIVATE	PRODUCERS COOPERATIVES	STATE FARMS	
CEREALS	12.49	9.81	22.92	12.55	7.00	4.97	14.47	11.72
Teff	8.96	6.81	7.57	8.84	2.67	3.39	0.63	8.33
Barley	11.65	8.71	14.43	11.84	8.99	5.20		10.62
Wheat	12.43	11.22	20.29	12.87	4.50	3.90	14.72	12.35
Maize	19.01	12.81	33.56	19.10	6.80	6.56	5.00	16.54
Sorghum	14.18	9.40	12.15	13.83	4.99	1.13		13.54
Millet	8.28	8.19		8.27	14.32	5.00		8.44
Oats	11.55	4.88		11.32	11.17	10.58		11.26
PULSES	9.61	5.12	4.02	9.01	4.67	9.36		8.86
Horse beans	11.77	6.24	11.44	11.35	13.00	1.50		11.35
Chick peas	7.06	4.75		6.76	6.05	3.00		6.76
Haricot beans	9.92	3.65	2.68	8.25	4.00	14.42		7.60
Field peas	9.56	4.40	7.00	8.99	4.04	6.69		8.82
Lentils	7.75	3.58		7.39	7.32	0.63		7.37
Vetch	7.06	6.59		6.99				6.99
Soya beans		3.46	12.76	5.95				5.95
OTHERS	3.70	2.60	5.15	3.65	1.90	2.43		3.64
Neug	3.34	2.00		3.15		0.00		3.15
Linseed	3.87	3.03		3.79	2.07	1.80		3.76
Fenugreek	5.08	3.54		4.99	1.26	5.33		4.92
Rapeseed	8.95	6.44	7.41	7.88				7.88
Sunflower		4.58	16.40	8.06				8.06
Ground nuts		4.19	7.39	4.66				4.66
Sesame		3.62	3.61	3.61				3.61
TOTAL	11.80	8.59	18.93	11.73	6.92	5.09	14.47	11.10

\* Excluding Assab, Eritrea, Ogaden and Tigray Autonomous Regions

TABLE 4.

ESTIMATES OF AREA UNDER MAJOR CROPS IN ARSSI  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	302.63	55.32	27.80	385.75	25.19	410.94
Teff	28.98	1.51	0.06	30.55	0.96	31.51
Barley	115.98	22.68	3.74	142.40	19.33	161.73
Wheat	93.07	27.84	23.64	144.55	2.15	146.70
Maize	37.87	2.49	0.36	40.72	1.33	42.05
Sorghum	22.00	0.79		22.79	0.12	22.91
Millet		0.01		0.01		0.01
Oats	4.73			4.73	1.50	6.03
PULSES	31.97	5.75	0.49	38.21	0.16	38.37
Horse beans	16.74	2.08	0.49	19.31		19.31
Chick peas	0.35	0.15		0.50		0.50
Haricot beans	7.78	0.40		8.18	0.06	8.24
Field peas	3.54	3.01		6.55	0.10	6.65
Lentils	2.39	0.05		2.44		2.44
Vetch	1.17	0.06		1.23		1.23
Soya beans						
OTHERS	14.96	2.06	2.77	19.79		19.79
Neug	0.56	0.02		0.58		0.58
Linseed	9.73	1.71		11.44		11.44
Fenugreek	3.51	0.01		3.52		3.52
Rapeseed	1.16	0.32	2.77	4.25		4.25
Sunflower						
Groundnuts						
Seesame						
TOTAL	349.56	63.13	31.06	443.75	25.35	469.10

TABLE. 5

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN ARSSI  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON				BEIG SEASONS		TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE		
CEREALS	5100.53	687.87	531.98	6320.38	196.39		6516.77
Teff	268.05	13.68	0.12	281.85	8.87		290.72
Barley	1873.54	242.51	53.15	2169.20	153.79		2322.99
Wheat	1539.38	389.06	469.78	2398.22	10.01		2408.23
Maize	838.76	32.48	8.93	880.17	18.15		898.32
Sorghum	513.32	10.12		523.44	0.00		523.44
Millet				0.02			0.02
Oats	67.48			67.48	5.57		73.05
PULSES	363.99	42.52	5.79	412.30	0.86		413.16
Horse beans	218.99	22.80	5.79	247.58			247.58
Chick peas	2.64	0.84		3.48			3.48
Haricot beans	93.00	3.24		96.24	0.08		96.32
Field peas	27.65	15.06		42.71	0.78		43.49
Lentils	17.34	0.23		17.57			17.57
Vetch	4.37	0.35		4.72			4.72
Soya beans							
OTHERS	68.37	8.17	19.40	95.			95.94
Neug	1.83	0.04		1.87			1.87
Linseed	39.92	5.71		45.63			45.63
Fenugreek	18.77	0.11		18.88			18.88
Rapeseed	7.85	2.31	19.40	29.56			29.56
Sunflower							
Groundnuts							
Sesame							
TOTAL	5532.89	738.56	557.17	6828.62	197.25		7025.87

TABLE. 6

ESTIMATES OF YIELD UNDER MAJOR CROPS IN ARSSI  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	16.85	12.43	19.14	16.38	7.80	15.86
Teff	9.25	9.06	2.00	9.23	9.24	9.23
Barley	16.15	10.69	14.21	15.23	7.96	14.36
Wheat	16.54	13.97	19.87	16.59	4.66	16.42
Maize	22.15	13.04	24.81	21.62	13.65	21.36
Sorghum	23.33	13.49		22.97	0.00	22.85
Millet		2.00		2.00		2.00
Oats	14.27			14.27	4.28	12.11
PULSES	11.39	7.39	11.82	10.79	5.38	10.77
Horse beans	13.08	10.96	11.82	12.82		12.82
Chick peas	7.54	5.60		6.96		6.96
Haricot beans	11.95	8.10		11.77	1.33	11.69
Field peas	7.81	5.00		6.52	7.80	6.54
Lentils	7.26	4.60		7.20		7.20
Vetch	3.74	5.83		3.84		3.84
Soya beans						
OTHERS	4.57	3.97	7.00	4.85		4.85
Neug	3.27	2.00		3.22		3.22
Linseed	4.10	3.34		3.99		3.99
Fenugreek	5.35	11.00		5.36		5.36
Rapeseed	6.77	7.22	7.00	6.96		6.96
Sunflower						
Ground nuts						
Sesame						
TOTAL	15.83	11.70	17.94	15.39	7.78	14.98

TABLE 7.

ESTIMATES OF AREA UNDER MAJOR CROPS IN BALE  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE EASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARM	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	71.39	13.97	32.79	118.15	41.48	159.63
Teff	10.20	0.09		10.29	4.43	14.72
Barley	27.68	2.48	11.37	41.53	13.69	55.22
Wheat	22.84	10.41	21.42	54.67	9.94	64.61
Maize	2.44	0.44		2.88	9.93	12.81
Sorghum	0.91	0.18		1.09	0.57	1.66
Millet						
Oats	7.32	0.37		7.69	2.92	10.61
PULSES	6.29	0.81	0.49	7.59	0.82	8.41
Horse beans	1.86	0.05	0.48	2.39	0.01	2.40
Chick peas	0.28	0.17		0.45	0.04	0.49
Haricot beans	0.24	0.04		0.28	0.06	0.34
Field peas	3.64	0.53	0.01	4.18	0.65	4.83
Lentils	0.25	0.02		0.27	0.06	0.33
Vetch	0.02			0.02		0.02
Soya beans						
OTHERS	3.56	0.57	2.72	6.85	1.03	7.88
Neug						
Linseed	2.51	0.54		3.05	0.83	3.88
Fenugreek	1.05	0.02		1.07	0.20	1.27
Rapeseed			2.72	2.72		2.72
Sunflower		0.01		0.01		0.01
Groundnuts						
Sesame						
TOTAL	81.24	15.35	36.00	132.59	43.33	175.92

TABLE . 8

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN BALE  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER-ATIVE	STATE FARMS		PRIVATE	BOTH SEASONS
CEREALS	876.55	217.54	609.39	1703.40	191.83	1895.31
Teff	66.85	0.37		67.22	12.12	79.34
Barley	387.20	24.11	164.96	576.27	63.97	640.24
Wheat	281.14	188.31	444.43	913.88	43.05	956.93
Maize	47.40	3.88		51.28	53.55	104.83
Sorghum	7.20	0.05		7.25	0.78	8.03
Millet						
Oats	86.76	0.82		87.50	18.36	105.94
PULSES	46.23	3.12	5.38	54.73	1.73	56.46
Horse beans	20.85	0.36	5.31	26.52	0.00	26.52
Chick peas	0.58	0.53		1.11	0.00	1.11
Haricot beans	0.23	0.05		0.28	0.00	0.28
Field peas	23.27	2.12	0.07	25.46	1.60	27.06
Lentils	1.18	0.06		1.24	0.13	1.37
Vetch	0.12			0.12		0.12
Soya beans						
OTHERS	19.14	1.80	21.28	42.22	1.51	43.73
Neug						
Linseed	17.53	1.77		19.30	1.29	20.59
Fenugreek	1.61	0.02		1.63	0.22	1.85
Rapeseed			21.28	21.28		21.28
Sunflower		0.01		0.01		0.01
Groundnuts						
Sesame						
TOTAL	941.92	222.46	636.05	1800.43	195.07	1995.50

TABLE. 9

ESTIMATES OF YIELD UNDER MAJOR CROPS IN BALE  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	12.28	15.57	18.58	14.42	4.62	11.87
Teff	6.55	4.11		6.53	2.74	5.39
Barley	13.99	9.72	14.51	13.88	4.67	11.59
Wheat	12.31	18.09	20.75	16.72	4.33	14.81
Maize	19.41	8.82		17.81	5.39	8.18
Sorghum	7.91	0.28		6.65	1.37	4.84
Millet						
Oats	11.85	2.22		11.39	6.29	9.98
PULSES	7.35	3.85	10.98	7.21	2.11	6.71
Horse beans	11.21	7.20	11.06	11.10	0.00	11.05
Chick peas	2.07	3.12		2.47	0.00	2.27
Haricot beans	0.96	1.25		1.00	0.00	0.82
Field peas	6.39	4.00	7.00	6.09	2.46	5.60
Lentils	4.72	3.00		4.59	2.17	4.15
Vetch	6.00			6.00		6.00
Soya beans						
OTHERS	5.38	3.16	7.82	6.16	1.47	5.55
Neug						
Linseed	6.98	3.28		6.33	1.55	5.31
Fenugreek	1.53	1.00		1.52	1.10	1.46
Rapeseed			7.82	7.82		7.82
Sunflower		1.00		1.00		1.00
Groundnuts						
Sesame						
TOTAL	11.59	14.49	17.67	13.58	4.50	11.34

TABLE 10.

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ESTIMATES OF AREA UNDER MAJOR CROPS IN NORTH OMO  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	111.76	2.72	0.44	114.92	108.69	223.61
Teff	44.65	0.62		45.27	4.65	49.92
Barley	20.31	0.62		20.93	4.68	25.61
Wheat	3.28	0.02		3.30	0.02	3.32
Maize	13.44	1.29	0.44	15.17	81.34	96.51
Sorghum	30.08	0.17		30.25	17.28	47.53
Millet					0.72	0.72
Oats						
PULSES	21.46	0.29		21.75	8.67	30.42
Horse beans	6.21	0.04		6.25		6.25
Chick peas	2.00	0.05		2.05	0.06	2.11
Haricot beans	7.00	0.13		7.13	8.36	15.49
Field peas	6.16	0.06		6.22	0.25	6.47
Lentils	0.09	0.01		0.10		0.10
Vetch						
Soya beans						
OTHERS	0.01			0.01		0.01
Neug						
Linseed	0.01			0.01		0.01
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	133.23	3.01	0.44	136.68	117.36	254.04

TABLE 11.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN NORTH OMO  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER-ATIVE	STATE FARMS		PRIVATE	BOTH SEASONS
CEREALS	1104.47	23.73	21.49	1149.69	456.23	1605.92
Teff	332.38	2.38		334.76	14.34	349.10
Barley	199.71	6.49		206.20	14.86	221.06
Wheat	26.36	0.05		26.41	0.06	26.47
Maize	237.06	13.66	21.49	272.21	353.96	626.17
Sorghum	308.96	1.15		310.11	70.73	380.84
Millet					2.28	2.28
Oats						
PULSES	151.34	1.16		152.50	29.54	182.04
Horse beans	52.83	0.18		53.01		53.01
Chick peas	7.02	0.32		7.34	0.19	7.53
Haricot beans	39.40	0.35		39.75	29.30	69.05
Field peas	51.88	0.29		52.17	0.05	52.22
Lentils	0.21	0.02		0.23		0.23
Vetch						
Soya beans						
OTHERS	0.04			0.04		0.04
Neug						
Linseed	0.04			0.04		0.04
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	1255.85	24.89	21.49	1302.23	485.77	1788.00

TABLE.12

ESTIMATES OF YIELD UNDER MAJOR CROPS IN NORTH OMO  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL BOTH SEASONS
	PRIV. TE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIV. TE	
CEREALS	9.88	8.72	48.84	10.00	4.20	7.18
Teff	7.44	3.84		7.39	3.08	6.99
Barley	9.83	10.47		9.85	3.18	8.63
Wheat	8.04	2.50		8.00	3.00	7.97
Maize	17.64	10.59	48.84	17.94	4.35	6.49
Sorghum	10.27	6.76		10.25	4.09	8.01
Millet					3.17	3.17
Oats						
PULSES	7.05	4.00		7.01	3.41	5.98
Horse beans	8.51	4.50		8.48		8.48
Chick peas	3.51	6.40		3.58	3.17	3.57
Haricot beans	5.63	2.69		5.58	3.50	4.46
Field peas	8.42	4.83		8.39	0.20	8.07
Lentils	2.33	2.00		2.30		2.30
Vetch						
Soya beans						
OTHERS	4.00			4.00		4.00
Neug						
Linseed	4.00			4.00		4.00
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	9.43	8.27	48.84	9.53	4.14	7.04

TABLE. 13

ESTIMATES OF AREA UNDER MAJOR CROPS IN SOUTH OMO  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BEIG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	10.57	0.12		10.69	2.49	13.18
Teff	3.66			3.66		3.66
Barley	0.67			0.67	0.15	0.82
Wheat	0.12			0.12		0.12
Maize	2.89	0.11		3.00	2.01	5.01
Sorghum	3.23	0.01		3.24	0.30	3.54
Millet					0.30	0.03
Oats						
PULSES	1.25			1.25		1.25
Horse beans	0.40			0.40		0.40
Chick peas						
Haricot beans	0.05			0.05		0.05
Field peas	0.77			0.77		0.77
Lentils	0.03			0.03		0.03
Vetch						
Soya beans						
OTHERS						
Neug						
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	11.82	0.12		11.94	2.49	14.43

TABLE. 14

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN SOUTH OMO  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIV. TE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	95.81	1.97		97.78	54.19	151.97
Teff	27.17			27.17		27.17
Barley	7.19			7.19	1.93	9.12
Wheat	0.70			0.70		0.70
Maize	20.08	1.94		22.02	45.29	67.31
Sorghum	40.67	0.03		40.70	6.35	47.06
Millet					0.61	0.61
Oats						
PULSES	11.88			11.88	11.88	13.88
Horse beans	5.03			5.03		5.03
Chick peas						
Haricot beans	0.10			0.10		0.10
Field peas	6.61			6.61		6.61
Lentils	0.14			0.14		0.14
Vetch						
Soya beans						
OTHERS						
Neug						
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	107.69	1.97		109.66	54.19	163.85

TABLE. 15

ESTIMATES OF YIELD UNDER MAJOR CROPS IN SOUTH OMO  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	M A I N S E A S O N				B E I G S E A S O N	T O T A L
	P R I V A T E P E A S A N T H O L D I N G S	P R O D U C E R S C O O P E R - A T I V E	S T A T E F A R M S	T O T A L	P R I V A T E	B O T H S E A S O N S
C E R E A L S	9.06	16.42		9.15	21.76	11.53
Teff	7.42			7.42		7.42
Barley	10.73	10.73		10.73	12.87	11.12
Wheat	5.83			5.83		5.83
Maize	6.95	17.64		7.34	22.53	13.41
Sorghum	12.59	3.00		12.56	21.20	13.29
Millet					20.33	20.33
Oats						
P U L S E S	9.50			9.50		9.50
Horse beans	12.58			12.58		12.58
Chick peas						
Haricot beans	2.00			2.00		2.00
Field peas	8.58			8.58		8.58
Lentils	4.67			4.67		4.67
Vetch						
Soya beans						
O T H E R S						
Neug						
Linseed						
Penugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
T O T A L	9.41	16.42		9.18	21.76	11.35

TABLE 16.

ESTIMATES OF AREA UNDER MAJOR CROPS IN EAST GOJAM  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BEIG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	215.48	43.02		258.50		258.50
Teff	108.60	22.66		131.26		131.26
Barley	43.88	4.58		48.46		48.46
Wheat	36.95	13.25		50.20		50.20
Maize	17.49	2.28		19.77		19.77
Sorghum	7.99	0.25		8.24		8.24
Millet	0.53			0.53		0.53
Oats	0.04			0.04		0.04
PULSES	33.78	15.86		49.64		49.64
Horse beans	11.89	4.64		16.53		16.53
Chick peas	8.73	4.72		13.45		13.45
Haricot beans	0.13			0.13		0.13
Field peas	2.03	0.91		3.74		3.74
Lentils	1.78	0.91		2.69		2.69
Vetch	8.42	4.68		13.10		13.10
soya beans						
OTHERS	20.11	6.76		26.87		26.87
Leug	12.45	5.64		18.09		18.09
Linseed	6.13	1.02		7.15		7.15
Fenugreek	1.21	0.06		1.27		1.27
Rapeseed	0.32	0.04		0.36		0.36
Sunflower						
Groundnuts						
Sesame						
TOTAL	269.37	65.64		335.01		335.01

TABLE 17.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN EAST GOJAN  
IN 1988/89 ( 1981 E.C. )

THOUSAND QUINTALS

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER-ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
<b>CEREALS</b>	2090.49	392.32		2442.81		2442.81
Teff	1060.38	191.58		1251.96		1251.96
Barley	400.59	37.44		438.03		438.03
Wheat	321.68	105.35		427.03		427.03
Maize	224.24	16.17		240.41		240.41
Sorghum	80.83	1.78		82.61		82.61
Millet	2.77			2.77		2.77
Oats	0.00			0.00		0.00
<b>PULSES</b>	272.48	99.66		372.14		372.14
Horse beans	117.70	30.98		148.68		148.68
Chick peas	58.15	23.77		81.92		81.92
Haricot beans	0.66			0.66		0.66
Field peas	23.27	5.67		28.94		28.94
Lentils	7.17	2.63		9.80		9.80
Vetch	65.53	36.61		102.14		102.14
Soya beans						
<b>OTHERS</b>	75.22	14.58		90.80		90.80
Mustard	39.44	11.49		50.93		50.93
Linseed	27.72	2.76		30.48		30.48
Fenugreek	6.54	0.18		6.72		6.72
Rapeseed	2.52	0.15		2.67		2.67
Sunflower						
Groundnuts						
Sesame						
<b>TOTAL</b>	2439.19	466.56		2905.75		2905.75

ESTIMATES OF YIELD UNDER MAJOR CROPS IN EAST GOJAM  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	9.70	8.19		9.45		9.45
Teff	9.76	8.45		9.54		9.54
Barley	9.13	8.17		9.04		9.04
Wheat	8.71	7.95		8.51		8.51
Maize	12.82	7.09		12.16		12.16
Sorghum	10.12	7.12		10.03		10.03
Millet	5.23			5.23		5.23
Oats	0.00			0.00		0.00
PULSES	8.07	6.28		7.50		7.50
Horse beans	9.90	6.68		8.99		8.99
Chick peas	6.66	5.04		6.09		6.09
Haricot beans	5.08			5.08		5.08
Field peas	8.22	6.23		7.74		7.74
Lentils	4.03	2.89		3.64		3.64
Vetch	7.78	7.82		7.80		7.80
Soya beans						
OTHERS	3.79	2.16		3.38		3.38
Neug	3.17	2.04		2.82		2.82
Linseed	4.52	2.71		4.26		4.26
Fenugreek	5.40	3.00		5.29		5.29
Rapeseed	7.88	3.75		7.42		7.42
Sunflower						
Groundnuts						
Sesame						
TOTAL	9.06	7.11		8.67		8.67

TABLE. 19

ESTIMATES OF AREA UNDER MAJOR CROPS IN WEST GOJAN  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BEIG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	321.86	41.07	9.13	372.06	23.31	395.37
Teff	155.43	16.60	0.13	172.16		172.16
Barley	53.66	7.48		61.14	22.26	83.40
Wheat	5.73	4.29		10.02		10.02
Maize	61.46	10.17	7.79	79.42	1.05	80.47
Sorghum	3.79	0.08	1.21	5.08		5.08
Millet	41.52	2.32		43.84		43.84
Oats	0.27	0.13		0.40		0.40
PULSES	37.25	5.73	1.87	44.85		44.85
Horse beans	8.87	1.56		10.43		10.43
Chick peas	14.02	2.57		16.59		16.59
Haricot beans	1.50		1.79	3.29		3.29
Field peas	5.11	1.20		6.31		6.31
Lentils	0.04	0.01		0.05		0.05
Vetch	7.71	0.39		8.10		8.10
Soya beans			0.08	0.08		0.08
OTHERS	29.96	5.68	0.19	35.83		35.83
Neug	23.10	5.44		28.54		28.54
Linseed	6.49	0.14		6.63		6.63
Fenugreek	0.08	0.09		0.17		0.17
Rapeseed	0.29	0.01		0.30		0.30
Sunflower			0.05	0.05		0.05
Groundnuts			0.14	0.14		0.14
Sesame						
TOTAL	389.07	52.48	11.19	452.74	23.31	476.05

TABLE. 20

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN WEST GOJAN  
IN 1988/89 ( 1981 E.C.)

THOUSAND JINTALS

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- TIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	2917.14	381.60	307.93	3606.67	153.71	3760.38
Teff	1118.16	130.87	0.71	1249.74		1249.74
Barley	339.10	54.22		393.32	148.32	541.64
Wheat	41.59	38.55		80.14		80.14
Maize	1033.66	133.48	295.67	1462.81	5.39	1468.20
Sorghum	29.17	0.32	11.55	41.04		41.04
Millet	353.10	22.65		375.75		375.75
Oats	2.36	1.51		3.87		3.87
PULSES	294.45	26.86	6.52	327.83		327.83
Horse beans	93.24	9.96		103.20		103.20
Chick peas	95.72	8.86		104.58		104.58
Haricot beans	5.36		5.99	11.35		11.35
Field peas	26.14	4.14		30.28		30.28
Lentils	0.00	0.05		0.05		0.05
Vetch	73.99	3.85		77.84		77.84
Soya beans			0.53	0.53		0.53
OTHERS	88.50	11.65	1.29	101.44		101.44
Neug	67.14	10.70		77.84		77.84
Linseed	19.92	0.28		20.20		20.20
Fenugreek	0.24	0.52		0.76		0.76
Rapeseed	1.20	0.15		1.35		1.35
Sunflower			0.82	0.82		0.82
Groundnuts			0.47	0.47		0.47
Sesame						
TOTAL	3300.09	420.11	315.74	4035.94	153.71	4189.65

TABLE 21.

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ESTIMATES OF YIELD UNDER MAJOR CROPS IN WEST GOJAM  
IN 1988/89 ( 1981 E.C. )

QUINTAL/HECTARE

C R O P	MAIN SEASON			BELG SEASON		TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS CO-OPER- ATIVE	STATE FRMS	TOTAL	PRIVATE	
CEREALS	9.06	9.29	33.73	9.69	6.59	9.51
Teff	7.19	7.88	5.46	7.26		7.26
Barley	6.32	7.25		6.43	6.66	6.49
Wheat	7.26	8.99		8.00		8.00
Maize	16.82	13.12	37.96	18.42	5.13	18.25
Sorghum	7.70	4.00	9.55	8.08		8.08
Millet	8.50	9.76		8.57		8.57
Oats	8.74	11.62		9.68		9.68
PULSES	7.90	4.69	3.49	7.32		7.31
Horse beans	10.51	6.38		9.89		9.89
Chick peas	6.83	3.45		6.30		6.30
Haricot beans	3.57		3.35	3.45		3.45
Field peas	5.12	3.45		4.80		4.80
Lentils	0.00	5.00		1.00		1.00
Vetch	9.60	9.87		9.61		9.61
Soya beans			6.63	6.63		6.63
OTHERS	2.95	2.05	6.79	2.83		2.83
Neug	2.91	1.97		2.73		2.73
Linseed	3.07	2.00		3.05		3.05
Fenugreek	3.00	5.78		4.47		4.47
Rapeseed	4.14	15.00		4.50		4.50
Sunflower			16.40	16.40		16.40
Groundnuts			3.36	3.36		3.36
Sesame						
TOTAL	8.48	8.01	28.22	8.91	6.59	8.80

TABLE 22.

ESTIMATES OF AREA UNDER MAJOR CROPS IN METEMEL  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	64.55	10.35	0.25	75.15		75.15
Teff	22.76	0.14		22.90		22.90
Barley	0.80	0.02		0.82		0.82
Wheat	1.07	0.02		1.09		1.09
Maize	11.37	4.00	0.14	15.51		15.51
Sorghum	7.15	5.99	0.11	13.25		13.25
Millet	21.36	0.10		21.46		21.46
Oats	0.04	0.08		0.12		0.12
PULSES	2.04	1.39		3.43		3.43
Horse beans	0.78			0.78		0.78
Chick peas	0.88	0.85		1.73		1.73
Haricot beans	0.15			0.15		0.15
Field peas	0.08			0.08		0.08
Lentils	0.15			0.15		0.15
Vetch						
Soya beans		0.54		0.54		0.54
OTHERS	5.84	1.98	0.26	8.08		8.08
Neug	5.83	0.05		5.88		5.88
Linseed	0.01			0.01		0.01
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts		1.93	0.24	2.17		2.17
Sesame			0.02	0.02		0.02
TOTAL	72.43	13.72	0.51	86.66		86.66

TABLE 23.

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ESTIMATES OF PRODUCTION OF MAJOR CROPS IN METEKELE  
IN 1988/89 ( 1981 E.C. )

THOUSAND QUINTALS

C R O P	MAIN SEASONS				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ACTIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	575.82	99.86	5.50	681.18		681.18
Teff	138.61	0.79		139.40		139.40
Barley	10.42	0.23		10.65		10.65
Wheat	14.57	0.08		14.65		14.65
Maize	185.56	62.81	4.86	253.23		253.23
Sorghum	72.21	34.34	0.64	107.19		107.19
Millet	154.20	1.42		155.62		155.62
Oats	0.25	0.19		0.44		0.44
PULSES	17.05	3.74		20.79		20.79
Horse beans	9.33			9.33		9.33
Chick peas	4.87	2.02		6.89		6.89
Haricot beans	1.40			1.40		1.40
Field peas	0.41			0.41		0.41
Lentils	1.04			1.04		1.04
Vetch						
Soya beans		1.72		1.72		1.72
OTHERS	15.47	8.52	2.41	26.40		26.40
Neug	15.41	0.10		15.51		15.51
Linseed	0.06			0.06		0.06
Redu greek						
Rapeseed						
Sunflower						
Groundnuts		8.42	2.34	10.76		10.76
Sesame			0.07	0.07		0.07
TOTAL	608.34	112.12	7.91	728.37		728.37

TABLE 24.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN METEKEL  
IN 1988/89 ( 1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	8.92	9.65	22.00	9.06		9.06
Teff	6.09	5.64		6.09		6.09
Barley	13.03	11.50		12.99		12.99
Wheat	13.62	4.00		13.44		13.44
Maize	16.32	15.70	34.71	16.33		16.33
Sorghum	10.10	5.73	5.82	8.09		8.09
Millet	7.22	14.20		7.25		7.25
Oats	6.25	2.38		3.67		3.67
PULSES	8.36	2.69		6.06		6.06
Horse beans	11.96			11.96		11.96
Chick peas	5.53	2.38		3.98		3.98
Haricot beans	9.33			9.33		9.33
Field peas	5.13			5.13		5.13
Lentils	6.93			6.93		6.93
Vetch						
Soya beans		3.19		3.19		3.19
OTHERS	2.65	4.30	9.27	3.27		3.27
Neug	2.64	2.00		2.64		2.64
Linseed	6.00			6.00		6.00
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts		4.36	9.75	4.96		4.96
Sesame			3.50	3.50		3.50
TOTAL	8.40	8.17	15.51	8.40		8.40

TABLE 25.

ESTIMATES OF AREA UNDER MAJOR CROPS IN NORTH GONDER  
IN 1988/89 ( 1981 E.C. )

THOUSAND HECTARES

C R O P	MAIN SEASON				WETG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	130.78	4.57		135.35	19.69	155.04
Teff	37.14	1.59		38.73		38.73
Barley	13.45	0.23		13.68	19.69	33.37
Wheat	6.19	0.04		6.23		6.23
Maize	8.27	0.12		8.39		8.39
Sorghum	54.92	2.58		57.50		57.50
Millet	10.51	0.01		10.52		10.52
Oats	0.30			0.30		0.30
PULSES	30.35	1.41		31.76		31.76
Horse beans	8.60	0.05		8.73		8.73
Chick peas	16.48	1.26		17.74		17.74
Haricot beans	0.03			0.03		0.03
Field peas	3.60	0.04		3.64		3.64
Lentils	0.21	0.01		0.22		0.22
Vetch	1.35	0.05		1.40		1.40
Soya beans						
OTHERS	7.69	0.13		7.82		7.82
Neug	5.46	0.07		5.53		5.53
Linseed	1.06	0.01		1.07		1.07
Fenugreek	1.16			1.16		1.16
Rapeseed	0.01			0.01		0.01
Sunflower		0.05		0.05		0.05
Groundnuts						
Sesame						
TOTAL	168.82	6.11		174.93	19.69	194.62

TABLE 26.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN NORTH GONDER  
IN 1988/89 ( 1981 E.C.)

THOUSAND QUINTEALS

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEasant HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	1030.27	32.04		1062.31	74.16	1136.47
Teff	276.33	12.33		288.66		288.66
Barley	89.79	1.38		91.17	74.16	165.33
Wheat	40.27	0.42		40.69		40.69
Maize	92.01	0.46		92.47		92.47
Sorghum	431.51	17.42		448.93		448.93
Millet	99.09	0.03		99.12		99.12
Oats	1.27			1.27		1.27
PULSES	239.01	11.67		250.68		250.68
Horse beans	64.50	0.34		64.84		64.84
Chick peas	140.33	10.63		150.96		150.96
Haricot beans	0.00			0.00		0.00
Field peas	23.58	0.33		23.91		23.91
Lentils	0.68	0.03		0.71		0.71
Vetch	9.92	0.34		10.26		10.26
Soya beans						
OTHERS	23.40	0.56		23.96		23.96
Neug	14.01	0.10		14.11		14.11
Linsed	2.87	0.08		2.95		2.95
Fenugreek	6.49			6.49		6.49
Rapeseed	0.03			0.03		0.03
Sunflower		0.38		0.38		0.38
Groundnuts						
Sesame						
TOTAL	1292.68	44.27		1336.95	74.16	1411.11

TABLE 27.

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ESTIMATES OF YIELD UNDER MAJOR CROPS IN NORTH GONDER  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	7.88	7.01		7.85	3.77	7.33
Teff	7.44	7.75		7.45		7.45
Barley	6.68	6.00		6.66	3.77	4.95
Wheat	6.51	10.50		6.53		6.53
Maize	11.13	3.83		11.02		11.02
Sorghum	7.86	6.75		7.81		7.81
Millet	9.43	3.00		9.42		9.42
Oats	4.23			4.23		4.23
PULSES	7.88	8.28		7.89		7.89
Horse beans	7.43	6.80		7.43		7.43
Chick peas	8.52	8.44		8.51		8.51
Haricot beans	0.00	0.00		0.00		0.00
Field peas	6.55	8.25		6.57		6.57
Lentils	3.24	3.00		3.23		3.23
Vetch	7.35	6.80		7.33		7.33
Soya beans						
OTHERS	3.04	4.31		3.06	3.77	3.06
Neug	2.57	1.43		2.55		2.55
Linseed	2.71	8.00		2.76		2.76
Fenugreek	5.59			5.59		5.59
Rapeseed	3.00			3.00		3.00
Sunflower		7.60		7.60		7.60
Groundnuts						
Sesame						
TOTAL	7.66	7.24		7.64	3.77	7.25

TABLE 28.

ESTIMATES OF AREA UNDER MAJOR CROPS IN SOUTH GONDER  
IN 1988/89 ( 1981 E.C. )

THOUSAND HECTARES

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	223.86	6.90		230.76	23.75	254.51
Teff	95.84	2.36		98.20		98.20
Barley	50.38	1.92		52.30		71.46
Wheat	25.89	1.16		27.05		27.05
Maize	20.93	0.72		21.65	4.59	26.24
Sorghum	9.44	0.37		9.81		9.81
Millet	21.36	0.37		21.73		21.73
Oats	0.02			0.02		0.02
PULSES	61.45	3.24		64.69		64.69
Horse beans	23.49	1.26		24.75		24.75
Chick peas	16.01	0.90		16.91		16.91
Haricot beans	1.45			1.45		1.45
Field peas	7.52	0.13		7.65		7.65
Lentils	2.22	0.28		2.50		2.50
Vetch	10.76	0.67		11.43		11.43
Soya beans						
OTHERS	25.48	0.79		26.27		26.27
Beug	16.72	0.58		17.30		17.30
Linseed	7.98	0.13		8.11		8.11
Penugreek	0.43	0.07		0.50		0.50
Rapeseed	0.35	0.01		0.36		0.36
Sunflower						
Groundnuts						
Sesame						
TOTAL	310.79	10.93		321.72	23.75	345.47

TABLE 29.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN SOUTH GONDER  
IN 1988/89 ( 1981 E.C. )

THOUSAND QUINTALS

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	1798.35	45.76		1844.11	186.12	2030.23
Teff	710.54	16.30		726.84		726.84
Barley	438.47	14.18		452.65	150.67	603.32
Wheat	249.33	7.80		257.13		257.13
Maize	204.33	3.45		207.78	35.45	243.23
Sorghum	63.10	1.24		64.34		64.34
Millet	132.26	2.79		135.05		135.05
Oats	0.32			0.32		0.32
PULSES	467.74	19.82		487.56		487.56
Horse beans	238.48	8.28		246.76		246.76
Chick peas	73.28	4.36		77.64		77.64
Haricot beans	7.32			7.32		7.32
Field peas	67.84	0.69		68.53		68.53
Lentils	16.47	1.77		18.24		18.24
Vetch	64.35	4.72		69.07		69.07
Soya beans						
OTHERS	67.59	2.21		69.80		69.80
Neug	42.85	1.33		44.18		44.18
Linseed	21.40	0.27		21.67		21.67
Fenugreek	1.57	0.56		2.13		2.13
Rapeseed	1.77	0.05		1.82		1.82
Sunflower						
Groundnuts						
Sesame						
TOTAL	2333.68	67.79		2401.47	186.12	2587.59

TABLE 30.

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ESTIMATES OF YIELD UNDER MAJOR CROPS IN SOUTH BORDER  
IN 1988 /89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE F R M S		PRIVATE	BOTH SEASONS
CEREALS	8.03	6.63		7.99	7.84	7.98
Teff	7.41	6.91		7.40		7.40
Barley	8.70	7.39		8.65	7.86	8.44
Wheat	9.63	6.72		9.51		9.51
Maize	9.76	4.79		9.50	7.72	9.27
Sorghum	6.68	3.35		6.56		6.56
Millet	6.19	7.54		6.21		6.21
Oats	16.00			16.00		16.00
PULSES	7.61	6.12		7.54		7.54
Horse beans	10.15	5.57		9.97		9.97
Chick peas	4.58	4.84		4.59		4.59
Haricot beans	5.05			5.05		5.05
Field peas	9.02	5.31		8.96		8.96
Lentils	7.42	6.32		7.30		7.30
Vetch	5.98	7.04		6.04		6.04
Soya beans						
OTHERS	2.65	2.80		2.66		2.66
Neug	2.56	2.29		2.55		2.55
Linseed	2.68	2.08		2.67		2.67
Fenugreek	3.65	8.00		4.26		4.26
Rapeseed	5.06	5.00		5.06		5.06
Sunflower						
Groundnuts						
Sesame						
TOTAL	7.51	6.20		7.46	7.84	7.49

TABLE 31.

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ESTIMATES OF AREA UNDER MAJOR CROPS IN DIREDAWA  
IN 1928/29 ( 1981 E.C. )

THOUSAND HECTARES

C R O P	M A I N S E A S O N			T O T A L	B E L G S E A S O N	T O T A L B O T H S E A S O N S
	P R I V A T E P E A S A N T H O L D I N G S	P R O D U C E R S C O O P E R - A T I V E	S T A T E F A R M S		P R I V A T E	
C E R E A L S	3.38	0.06		3.44	0.38	3.82
Teff						
Barley						
Wheat						
Maize	0.26	0.01		0.27	0.25	0.52
Sorghum	3.12	0.01		3.13	0.13	3.26
Millet						
Oats		0.04		0.04		0.04
P U I S E S						
Horse beans						
Chick peas						
Haricot beans						
Field peas						
Lentils						
Vetch						
Soya beans						
O T H E R S						
Neug						
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
T O T A L	3.38	0.06		3.44	0.38	3.82

TABLE 32.

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ESTIMATES OF PRODUCTION OF MAJOR CROPS IN DIRE DAWA  
IN 1988/89 ( 1981 E.C. )

THOUSAND QUINTALS

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	52.86	0.24		53.10	1.08	54.18
Teff						
Barley						
Wheat						
Maize	2.70	0.08		2.78	1.04	3.82
Sorghum	50.16	0.08		50.24	0.04	50.28
Millet						
Oats		0.08		0.08		0.08
PULSES						
Horse beans						
Chick peas						
Haricot beans						
Field peas						
Lentils						
Vetch						
Soya beans						
OTHERS						
Neug						
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	52.86	0.24		53.10	1.08	54.18

TABLE 33.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN DIRE D.WA  
IN 1988/89 ( 1981 E.C. )

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE PARIS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	15.64	4.00	.	15.44	2.84	14.18
Teff						
Barley						
Wheat						
Maize	10.38	8.00	.	10.30	4.16	7.35
Sorghum	16.08	8.00		16.05	0.31	15.42
Millet						
Oats		2.00		2.00		2.00
PULSES						
Horse beans						
Chick peas						
Haricot beans						
Field peas						
Lentils						
Vetch						
Soya beans						
OTHERS						
Neug						
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Ground nuts						
Sesame						
TOTAL	15.64	4.00		15.44	2.84	14.18

TABLE 34.

ESTIMATES OF AREA UNDER MAJOR CROPS IN EAST HARARGHE  
IN 1988/89 ( 1981 E.C.)

THOUSAND HECTARES

C R O P	RAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	158.96	10.57		169.53	13.47	183.00
Teff	3.46	0.13		3.59		3.59
Barley	3.09	0.21		3.30	4.14	7.44
Wheat	7.75	1.05		8.80	0.30	9.10
Maize	34.74	6.10		40.84	8.49	49.33
Sorghum	107.69	3.07		110.76		110.76
Millet						
Oats	2.23	0.01		2.24	0.54	2.78
PULSES	8.26	0.53		8.79		8.79
Horse beans	3.40	0.16		3.56		3.56
Chick peas	0.21	0.06		0.27		0.27
Haricot beans	1.25	0.17		1.42		1.42
Field peas	3.20	0.13		3.33		3.33
Lentils	0.20	0.01		0.21		0.21
Vetch						
Soya beans						
OTHERS	1.34	0.12		1.46		1.46
Neug						
Linseed	0.30			0.30		0.30
Fenugreek	1.04	0.03		1.07		1.07
Rapeseed						
Sunflower						
Groundnuts		0.09		0.09		0.09
Sesame						
TOTAL	168.56	11.22		179.78	13.47	193.25

TABLE 35.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN EAST HARARGHE  
IN 1988/89 ( 1981 E.C. )

THOUSAND QUINTALS

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	2524.04	228.04		2752.08	54.80	2806.88
Teff	31.27	0.96		32.23		32.23
Barley	45.22	3.29		48.51	23.56	72.07
Wheat	119.06	18.40		137.46	1.18	138.64
Maize	758.72	152.81		911.53	29.80	941.33
Sorghum	1549.60	52.49		1602.09		1602.09
Millet						
Oats	20.17	0.09		20.26	0.26	20.52
PULSES	121.71	3.62		125.33		125.33
Horse beans	55.49	1.58		57.07		57.07
Chick peas	0.30	0.27		0.57		0.57
Haricot beans	32.65	1.08		33.73		33.73
Field peas	32.28	0.60		32.88		32.88
Lentils	0.99	0.09		1.08		1.08
Vetch						
Soya beans						
OTHERS	8.25	0.54		8.79		8.79
Neug						
Linseed	1.23			1.23		1.23
Fenugreek	7.02	0.05		7.07		7.07
Rapeseed						
Sunflower						
Groundnuts		0.49		0.49		0.49
Sesame						
TOTAL	2654.00	232.20		2886.20	54.80	2941.00

TABLE 36.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN EAST HARARGHE  
(IN 1988/89 /1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON			BEIG SEASON		TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	15.88	21.57		16.23	4.07	15.34
Teff	9.04	7.38		8.98		8.98
Barley	14.63	15.67		14.70	5.69	9.69
Wheat	15.36	17.52		15.62	3.93	15.24
Maize	21.84	25.05		22.32	3.51	19.08
Sorghum	14.39	17.10		14.46		14.46
Millet						
Oats	9.04	9.00		9.04	0.48	7.38
PULSES	14.73	6.83		14.26		14.26
Horse beans	16.32	9.88		16.03		16.03
Chick peas	1.43	4.50		2.11		2.11
Haricot beans	26.12	6.35		23.75		23.75
Field peas	10.09	4.62		9.87		9.87
Lentils	4.96	9.00		5.14		5.14
Vetch						
Soya beans						
OTHERS	6.16	4.50		6.02		6.02
Neug						
Linseed	4.10			4.10		4.10
Fenugreek	6.75	1.57		6.61		6.61
Rapeseed						
Sunflower						
Ground nuts		5.44		5.44		5.44
Sesame						
TOTAL	15.75	20.70		16.05	4.07	15.22

TABLE 37.

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ESTIMATES OF AREA UNDER MAJOR CROPS IN WEST HARARGHE  
IN 1988/89 ( 1981 E.C. )

THOUSAND HECTARES

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	BOTH SEASONS
CERIALS	97.56	9.48	0.22	107.26	15.21	122.47
Teff	9.92	0.96		10.88	0.11	10.99
Barley	2.61	0.14		2.75	4.95	7.70
Wheat	1.38	0.25		1.63	1.09	2.72
Maize	21.12	2.54	0.22	23.88	7.98	31.86
Sorghum	61.82	5.56		67.38		67.38
Millet	0.04	0.03		0.07		0.07
Oats	0.67			0.67	1.08	1.75
PULSES	8.74	1.32		10.06	1.15	11.21
Horse beans	1.65	0.15		1.80		1.80
Chick peas	1.59	0.76		2.35		2.35
Haricot beans	4.31	0.17		4.48	1.13	5.61
Field peas	0.42	0.14		0.56	0.01	0.57
Lentils	0.56	0.02		0.58	0.01	0.59
Vetch	0.21	0.08		0.29		0.29
Soya beans						
OTHERS	0.46	0.05		0.51	0.01	0.52
Neug		0.01		0.01		0.01
Linseed	0.32	0.01		0.33		0.33
Fenugreek	0.14	0.02		0.16	0.01	0.17
Rapeseed						
Sunflower						
Groundnuts						
Sesame		0.01		0.01		0.01
TOTAL	106.76	10.85	0.22	117.83	16.37	134.20

TABLE 38.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN WEST HARARGHE  
IN 1988/89 ( 1981 E.C. )

THOUSAND QUINTALS

C R O P	RAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	1816.79	161.49	1.28	1979.56	41.36	2020.92
Teff	91.46	6.02		98.28	0.44	98.72
Barley	30.03	1.51		31.54	11.57	43.11
Wheat	19.14	2.32		21.46	0.89	22.35
Maize	435.97	41.10	1.28	478.35	28.09	506.44
Sorghum	1232.67	109.39		1342.06		1342.06
Millet	0.40	0.35		0.75	.7	0.75
Oats	7.12			7.12	0.37	7.49
PULSES	106.19	5.13		111.32	0.79	112.11
Horse beans	20.29	1.46		21.75		21.75
Chick peas	7.39	1.74		9.13		9.13
Laricot beans	71.72	0.88		72.60	0.79	73.39
Field peas	3.44	0.76		4.20	0.00	4.20
Lentils	2.18	0.12		2.30	0.00	2.30
Vetch	1.17	0.17		1.34		1.34
Soya beans						
OTHERS	2.43	0.10		2.53	0.00	2.53
Neug		0.05		0.05		0.05
Linseed	1.31	0.04		1.35		1.35
Fenugreek	1.12	0.01		1.13	0.00	1.13
Rapeseed						
Sunflower						
Groundnuts						
Sesame		0.00		0.00		0.00
TOTAL	1925.41	166.72	1.28	2093.41	42.15	2135.56

TABLE 39.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN WEST HARARGHE  
IN 1988/89 ( 1981 E.C. )

QUINTAL/HECTARE

C R O P	MAIN SEASON				BEIG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	18.63	17.03	5.82	18.46	2.72	16.50
Teff	9.22	7.10		9.03	4.00	8.98
Barley	11.51	10.79		11.47	2.34	5.60
Wheat	13.87	9.28		13.17	0.82	8.22
Maize	20.64	16.18	5.82	20.03	3.52	15.90
Sorghum	19.94	19.67		19.92		19.92
Millet	10.00	11.67		10.71		10.71
Oats	10.63			10.63	0.34	4.28
PULSES	12.15	3.89		11.07	0.69	10.00
Horse beans	12.30	9.73		12.08		12.08
Chick peas	4.65	2.29		3.89		3.89
Haricot beans	16.64	5.18		16.21	0.70	13.08
Field peas	8.19	5.43		7.50	0.00	7.37
Lentils	3.89	6.00		3.97	0.00	3.90
Vetch	5.57	2.12		4.62		4.62
Soya beans						
OTHERS	5.28	2.00		4.96	0.00	4.87
Neug		5.00		5.00		5.00
Linseed	4.09	4.00		4.09		4.09
Fenugreek	8.00	0.50		7.06	0.00	6.65
Rapeseed						
Sunflower						
Groundnuts						
Sesame		0.00		0.00		0.00
TOTAL	18.03	15.37	5.82	17.77	2.57	15.91

TABLE 40.

ESTIMATES OF AREA UNDER MAJOR CROPS IN GAMBELLA  
IN 1988/89 ( 1981 E.C. )

THOUSAND HECTARES

C R O P	RAIN SEASON				BEIG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	8.64	0.07		8.71	0.14	8.85
Teff	0.35			0.35		0.35
Barley	0.13			0.13	0.06	0.19
Wheat	0.03			0.03		0.03
Maize	3.32	0.06		3.38	0.08	3.46
Sorghum	4.80	0.01		4.81		4.81
Millet	0.01			0.01		0.01
Oats						
PULSES	0.08			0.08		0.08
Horse beans						
Chick peas						
Haricot beans	0.08			0.08		0.08
Field peas						
Lentils						
Vetch						
Soya beans						
OTHERS	0.01			0.01		0.01
Neug						
Linseed						
Fenugreek	0.01			0.01		0.01
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	8.73	0.07		8.80	0.14	8.94

TABLE 41.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN GAMBELLA  
IN 1988/89 ( 1981 E.C. )

THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	122.04	0.17		122.21	2.95	125.16
Teff	3.87			3.87		3.87
Barley	1.60			1.60	0.34	1.94
Wheat	0.59			0.59		0.59
Maize	43.08	0.15		43.23	2.61	45.84
Sorghum	72.77	0.02		72.79		72.79
Millet	0.13			0.13		0.13
Oats						
PULSES	0.78			0.78		0.78
Horse beans						
Chick peas						
Haricot beans	0.78			0.78		0.78
Field peas						
Lentils						
Vetch						
Soya beans						
OTHERS	0.01			0.01		0.01
Neug						
Linseed						
Fenugreek	0.01			0.01		0.01
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	122.83	0.17		123.00	2.95	125.95

TABLE 42.

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ESTIMATES OF YIELD UNDER MAJOR CROPS IN GAMBELLA  
IN 1988/89 ( 1981 E.C. )

QUINTAL/HECTARE

C R O P	RAIN SEASON			BEIG SEASON		TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	14.13	2.43		14.03	21.07	14.14
Teff	11.06			11.06		11.06
Barley	12.31			12.31	5.67	10.21
Wheat	19.67			19.67		19.67
Maize	12.98	2.50		12.79	32.63	13.25
Sorghum	15.16	2.00		15.13		15.13
Millet	13.00			13.00		13.00
Oats						
PULSES	9.75			9.75		9.75
Horse beans						
Chick peas						
Haricot beans	9.75			9.75		9.75
Field peas						
Lentils						
Vetch						
Soya beans						
OTHERS	1.00			1.00	1.7	1.00
Neug						
Linseed						
Fenugreek	1.00			1.00		1.00
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	14.07	2.43		13.98	21.07	14.09

TABLE 43.

ESTIMATES OF AREA UNDER MAJOR CROPS IN ILLUBABOR  
IN 1988/89 ( 1981 E.C. )

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	230.17	7.50		237.67	10.72	248.39
Teff	88.48	1.99		90.47	0.04	90.51
Barley	8.01	0.26		8.27	5.68	13.95
Wheat	7.34	0.19		7.53		7.53
Maize	92.87	3.96		96.83	5.00	101.83
Sorghum	29.57	1.09		30.66		30.66
Millet	3.81	0.01		3.82		3.82
Oats	0.09			0.09		0.09
PULSES	15.77	0.75		16.52	1.40	17.92
Horse beans	7.98	0.38		8.36		8.36
Chick peas	0.81	0.02		0.83	0.03	0.86
Haricot beans	1.09	0.09		1.18	1.37	2.55
Field peas	4.91	0.25		5.16		5.16
Lentils	0.03	0.01		0.04		0.04
Vetch	0.95			0.95		0.95
Soya beans						
OTHERS	4.44	0.11		4.55		4.55
Neug	3.21	0.09		3.30		3.30
Linseed	1.23	0.02		1.25		1.25
Benugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	250.38	8.36		258.74	12.12	270.86

TABLE 44.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN ILIUBBOR  
( IN 1988/89 (1981, E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL
	PRIV TE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	BOTH SEASONS
CEREALS	3000.04	57.21		3057.25	65.75	3123.00
Teff	722.80	9.02		731.82	0.43	732.25
Barley	77.46	0.88		78.34	10.17	88.51
Wheat	92.80	0.91		93.71		93.71
Maize	1675.74	39.66		1715.40	55.15	1770.55
Sorghum	399.15	6.66		405.81		405.81
Millet	31.18	0.08		31.26		31.26
Oats	0.91			0.91		0.91
PULSES	151.33	2.80		154.13	8.94	163.07
Horse beans	85.79	1.75		87.54		87.54
Chick peas	8.54	0.10		8.64	0.07	8.71
Haricot beans	5.40	0.24		5.64	8.87	14.51
Field peas	50.99	0.70		51.69		51.69
Lentils	0.11	0.01		0.12		0.12
Vetch	0.50			0.50		0.50
Soya beans						
OTHERS	14.35	0.43		14.78		14.78
Neug	7.65	0.39		8.04		8.04
Linseed	6.70	0.04		6.74		6.74
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	3165.72	60.44		3226.16	74.69	3300.85

TABLE 45.

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ESTIMATES OF YIELD UNDER MAJOR CROPS IN ILLUB BOR  
IN 1988/89 ( 1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON			DELG SEASON	TOTAL	
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	13.03	7.63		12.86	6.13	12.57
Teff	8.17	4.53		8.09	10.75	8.09
Barley	9.67	3.38		9.47	1.79	6.34
Wheat	12.64	4.79		12.44		12.44
Maize	18.04	10.02		17.72	11.03	17.39
Sorghum	13.50	6.11		13.24		13.24
Millet	8.18	8.00		8.18		8.18
Oats	10.11			10.11		10.11
PULSES	9.60	3.73		9.33	6.39	9.10
Horse beans	10.75	4.61		10.47		10.47
Chick peas	10.54	5.00		10.41	2.33	10.13
Haricot beans	4.95	2.67		4.78	6.47	5.69
Field peas	10.38	2.80		10.02		10.02
Lentils	3.67	1.00		3.00		3.00
Vetch	0.53			0.53		0.53
Soya beans						
OTHERS	3.23	3.91		3.25		3.25
Neug	2.38	4.33		2.44		2.44
Linseed	5.45	2.00		5.39		5.39
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	12.64	7.23		12.47	6.16	12.19

TABLE 46.

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ESTIMATES OF AREA UNDER MAJOR CROPS IN KEFFA  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	51.91	0.74	0.61	53.26	19.89	73.15
Teff	12.53	0.07		12.60	1.47	14.07
Barley	3.32	0.05		3.37	1.41	4.78
Wheat	0.74	0.02		0.76	0.48	1.24
Maize	15.27	0.39	0.61	16.27	13.57	29.94
Sorghum	15.11	0.19		15.30		15.30
Millet	4.94	0.02		4.96	2.86	7.82
Oats						
PULSES	9.94	0.15		10.09	0.18	10.27
Horse beans	5.94	0.09		6.03		6.03
Chick peas	0.03			0.03		0.03
Haricot beans	0.88	0.01		0.89	0.18	1.07
Field peas	3.09	0.05		3.14		3.14
Lentils						
Vetch						
Soya beans						
OTHERS	0.06			0.06		0.06
Neug	0.06			0.06		0.06
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	61.91	0.89	0.61	63.41	20.07	83.48

TABLE 47.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN KEFFA  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BEG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	BOTH SEASONS
CEREALS	841.85	4.47	23.90	870.22	310.94	1181.16
Teff	112.61	0.19		112.80	4.98	117.78
Barley	36.66	0.05		36.71	1.96	38.67
Wheat	10.80	0.02		10.82	0.59	11.41
Maize	346.16	2.94	23.90	373.00	254.47	627.47
Sorghum	218.48	1.20		219.68		219.68
Millet	117.14	0.07		117.21	48.94	166.15
Oats						
PULSES	129.86	0.41		130.27	0.28	130.55
Horse beans	76.03	0.29		76.32		76.32
Chick peas	0.13			0.13		0.13
Haricot beans	5.75	0.03		5.78	0.28	6.06
Field peas	47.95	0.09		48.04		48.04
Lentils						
Vetch						
Soya beans						
OTHERS	0.11			0.11		0.11
Neug	0.11			0.11		0.11
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	971.02	4.88	23.90	1000.60	311.22	1311.82

TABLE 48.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN KEFFA  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	16.22	6.04	39.18	16.34	15.63	16.15
Teff	8.99	2.71		8.95	3.39	8.37
Barley	11.04	1.00		10.89	1.39	8.09
Wheat	14.59	1.00		14.24	1.23	9.20
Maize	22.67	7.54	39.18	22.93	18.62	20.96
Sorghum	14.46	6.32		14.36		14.36
Millet	23.71	3.50		23.63	17.11	21.25
Oats						
PULSES	13.06	2.73		12.91	1.56	12.71
Horse beans	12.80	3.22		12.66		12.66
Chick peas	4.33			4.33		4.33
Haricot beans	6.53	3.00		6.49	1.56	5.66
Field peas	15.52	1.80		15.30		15.30
Lentils						
Vetch						
Soya beans						
OTHERS	1.83			1.83		1.83
Neug	1.83			1.83		1.83
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	15.70	5.48	39.18	15.78	15.51	15.71

TABLE 49.

ESTIMATES OF AREA UNDER MAJOR CROPS IN ADDIS ABABA  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON			BELG SEASON	TOTAL	
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
					BOTH SEASONS	
CEREALS	100.06	3.18		103.24	7.85	111.09
Teff	39.78	1.35		41.13		41.13
Barley	28.39	0.90		29.29	7.84	37.13
Wheat	29.54	0.90		30.44		30.44
Maize	1.19			1.19		1.19
Sorghum	0.89	0.03		0.92		0.92
Millet						
Oats	0.27			0.27	0.01	0.28
PULSES	20.02	1.32		21.34	0.03	21.37
Horse beans	7.39	0.37		7.76		7.76
Chick peas	6.64	0.41		7.05		7.05
Haricot beans	0.04			0.04		0.04
Field peas	1.48	0.07		1.55	0.03	1.58
Lentils	3.42	0.36		3.78		3.78
Vetch	1.05	0.11		1.16		1.16
Soya beans						
OTHERS	2.78	0.02		2.80		2.80
Neug	1.43	0.01		1.44		1.44
Linseed	1.23	0.01		1.24		1.24
Fenugreek	0.12			0.12		0.12
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	122.86	4.52		127.38	7.88	135.26

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN ADDIS ABABA  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	1087.58	14.71		1102.29	56.85	1159.14
Teff	382.76	4.18		386.94		386.94
Barley	344.09	4.53		348.62	56.85	405.47
Wheat	322.63	5.95		328.58		328.58
Maize	27.82			27.82		27.82
Sorghum	7.50	0.05		7.55		7.55
Millet						
Oats	2.78			2.78	0.00	2.78
PULSES	181.86	5.53		187.49	0.08	187.57
Horse beans	99.31	2.29		101.60		101.60
Chick peas	44.88	1.81		46.69		46.69
Haricot beans	0.55			0.55		0.55
Field peas	12.42	0.45		12.87	0.08	12.95
Lentils	21.41	0.80		22.21		22.21
Vetch	3.29	0.28		3.57		3.57
Soya beans						
OTHERS	9.76	0.02		9.78		9.78
Neug	4.25	0.00		4.25		4.25
Linseed	5.17	0.02		5.19		5.19
Fenugreek	0.34			0.34		0.34
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	1279.20	20.36		1299.56	56.93	1356.49

TABLE. 51

ESTIMATES OF YIELD UNDER MAJOR CROPS IN ADDIS ABABA  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	10.87	4.63		10.68	7.24	10.43
Teff	9.62	3.10		9.41		9.41
Barley	12.12	5.03		11.90	7.25	10.92
Wheat	10.92	6.61		10.79		10.79
Maize	23.38			23.38		23.38
Sorghum	8.43	1.67		8.21		8.21
Millet						
Oats	10.30			10.30		9.93
PULSES	9.08	4.27		8.79	2.67	8.78
Horse beans	13.44	6.19		13.09		13.09
Chick peas	6.76	4.41		6.62		6.62
Haricot beans	13.75			13.75		13.75
Field peas	8.39	6.43		8.35	2.67	8.20
Lentils	6.26	2.22		5.88		5.88
Vetch	3.13	2.55		3.08		3.08
Soya beans						
OTHERS	3.51	1.00		3.49		3.49
Neug	2.97	0.00		2.97		2.97
Linseed	4.20	2.00		4.19		4.19
Fenugreek	2.83			2.83		2.83
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	10.41	4.50		10.20	7.22	10.03

TABLE 52.

ESTIMATES OF AREA UNDER MAJOR CROPS IN EAST SMOA  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON			BEIG SEASON	TOTAL BOTH SEASONS	
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER - ATIVE	STATE FARMS	TOTAL		PRIVATE
CEREALS	153.95	6.09	0.24	160.28		160.28
Teff	87.68	3.17	0.01	90.86		90.86
Barley	8.99	0.27		9.26		9.26
Wheat	33.47	1.38		34.85		34.85
Maize	19.40	0.94	0.23	20.57		20.57
Sorghum	4.33	0.33		4.71		4.71
Millet						
Oats	0.03			0.03		0.03
PULSES	23.68	1.49	0.02	25.19		25.19
Horse beans	1.83	0.14		1.97		1.97
Chick peas	5.59	0.71		6.30		6.30
Haricot beans	9.11	0.44	0.02	9.57		9.57
Field peas	2.80	0.06		2.86		2.86
Lentils	1.80	0.08		1.88		1.88
Vetch	2.55	0.06		2.61		2.61
Soya beans						
OTHERS	0.26			0.26		0.26
Neug						
Linseed						
Fenugreek	0.26			0.26		0.26
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	177.09	7.58	0.26	185.73		185.73

TABLE 53.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN EAST SHOA  
IN 1988/89 ( 1981 E.C.)

+ THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	1993.99	51.51	8.69	2054.19		2054.19
Teff	1047.17	21.96	0.18	1069.31		1069.31
Barley	132.22	2.21		134.43		134.43
Wheat	443.80	15.56		459.36		459.36
Maize	316.80	9.19	8.51	334.50		334.50
Sorghum	53.63	2.59		56.22		56.22
Millet						
Oats	0.37			0.37		0.37
PULSES	265.89	14.58	0.46	280.93		280.93
Horse beans	20.16	0.98		21.14		21.14
Chick peas	64.24	8.90		73.14		73.14
Haricot beans	117.71	3.44	0.46	121.61		121.61
Field peas	28.37	0.39		28.76		28.76
Lentils	10.99	0.50		11.49		11.49
Vetch	24.42	0.37		24.79		24.79
Soya beans						
OTHERS	1.51			1.51		1.51
Neug						
Linseed						
Fenugreek	1.51			1.51		1.51
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	2261.39	66.09	9.15	2336.63		2336.63

TABLE 54.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN EAST SHOA  
IN 1988/89 ( 1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	12.95	8.46	36.21	12.82		12.82
Teff	11.94	6.93	18.00	11.77		11.77
Barley	14.71	8.19		14.52		14.52
Wheat	13.26	11.28		13.18		13.18
Maize	16.33	9.78	37.00	16.26		16.26
Sorghum	12.24	7.05		11.94		11.94
Millet						
Oats	12.33			12.33		12.33
PULSES	11.23		23.00	11.15		11.15
Horse beans	11.02	9.79		10.73		10.73
Chick peas	11.49	12.54		11.61		11.61
Haricot beans	12.92	7.82	23.00	12.71		12.71
Field peas	10.13	6.50		10.06		10.06
Lentils	6.11	6.25		6.11		6.11
Vetch	9.58	6.17		9.50		9.50
Soya beans						
OTHERS	5.81			5.81		5.81
Neug						
Linseed						
Fenugreek	5.81			5.81		5.81
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	12.71	8.72	35.19	12.58		12.58

TABLE 55.

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✓

ESTIMATES OF AREA UNDER MAJOR CROPS IN NORTH SHOA  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	313.43	8.67		322.10	30.49	352.59
Teff	134.86	3.10		137.96	4.53	142.49
Barley	46.98	0.70		47.68	24.45	72.13
Wheat	63.39	2.14		65.53	1.18	66.71
Maize	3.00	0.51		3.51	0.33	3.84
Sorghum	64.02	2.21		66.23		66.23
Millet	0.03			0.03		0.03
Oats	1.15	0.01		1.16		1.16
PULSES	72.24	2.15		74.39	3.73	78.12
Horse beans	42.17	0.73		42.90	0.36	43.26
Chick peas	9.70	0.49		10.19	0.28	10.47
Haricot beans	0.89	0.01		0.90		0.90
Field peas	7.10	0.38		7.48	1.35	8.83
Lentils	5.83	0.08		5.91	1.74	7.65
Vetch	6.55	0.46		7.01		7.01
Soya beans						
OTHERS	13.64	0.53		14.17	0.02	14.19
Neug	9.80	0.33		10.13		10.13
Linseed	3.36	0.14		3.50		3.50
Fenugreek	0.35	0.05		0.40	0.02	0.42
Rapeseed	0.13			0.13		0.13
Sunflower						
Groundnuts						
Sesame		0.01		0.01		0.01
TOTAL	399.31	11.35		410.66	34.24	444.90

TABLE 56.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN NORTH SHOA  
IN 1988/89 (1981 E.C.)

X  
THOUSAND QUINTEALS

C R O P	MAIN SEASON			BELG SEASON	TOTAL BOTH SEASONS	
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL		PRIVATE
CEREALS	3365.05	51.32		3416.37	341.76	3758.13
Teff	1332.30	14.85		1347.15	22.29	1369.44
Barley	448.61	4.48		453.09	305.53	758.62
Wheat	614.40	10.78		625.18	12.95	638.13
Maize	32.89	3.14		36.03	0.99	37.02
Sorghum	927.94	18.02		945.96		945.96
Millet	0.88			0.88		0.88
Oats	8.03	0.05		8.08		8.08
PULSES	671.09	6.97		678.06	16.50	694.56
Horse beans	453.14	2.60		455.74	4.81	460.55
Chick peas	65.24	1.29		66.53	0.00	66.53
Haricot beans	7.13	0.03		7.16		7.16
Field peas	68.89	1.59		70.48	2.64	73.12
Lentils	40.14	0.10		40.24	9.05	49.29
Vetch	36.55	1.36		37.91		37.91
Soya beans						
OTHERS	44.38	1.35		45.73	0.07	45.80
Neug	34.40	0.88		35.28		35.28
Linseed	8.60	0.32		8.92		8.92
Fenugreek	0.52	0.12		0.64	0.07	0.71
Rapeseed	0.86			0.86		0.86
Sunflower						
Groundnuts						
Sesame		0.03		0.03		0.03
TOTAL	4080.52	59.64		4140.16	358.33	4498.49

TABLE 57.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN NORTH SHOA  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	10.74	5.92		10.61	11.21	10.66
Teff	9.88	4.79		9.76	4.92	9.61
Barley	9.55	6.40		9.50	12.50	10.52
Wheat	9.69	5.04		9.54	10.97	9.57
Maize	10.96	6.16		10.26	3.00	9.64
Sorghum	14.49	8.15		14.28		14.28
Millet	29.33			29.33		29.33
Oats	6.98	5.00		6.97		6.97
PULSES	9.29	3.24		9.11	4.42	8.89
Horse beans	10.75	3.56		10.62	13.36	10.65
Chick peas	6.73	2.63		6.53	0.00	6.35
Haricot beans	8.01	3.00		7.96		7.96
Field peas	9.70	4.18		9.42	1.96	8.28
Lentils	6.89	1.25		6.81	5.20	6.44
Vetch	5.58	2.96		5.41		5.41
Soya beans						
OTHERS	3.25	2.55		3.23	3.50	3.23
Neug	3.51	2.67		3.48		3.48
Linseed	2.56	2.29		2.55		2.55
Fenugreek	1.49	2.40		1.60	3.50	1.69
Rapeseed	6.62			6.62		6.62
Sunflower						
Groundnuts						
Sesame		3.00		3.00		3.00
TOTAL	10.22	5.25		10.08	10.47	10.11

TABLE 58.

 ESTIMATES OF AREA UNDER MAJOR CROPS IN SOUTH SHOA ✓  
 IN 1988/89 ( 1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASONS				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	330.88	12.51	3.36	346.75	1.01	347.76
Teff	77.47	2.39		79.86	0.06	79.92
Barley	15.64	0.22		15.86	0.95	16.81
Wheat	45.56	1.45		47.01		47.01
Maize	159.28	7.54	3.36	170.18		170.18
Sorghum	28.55	0.91		29.46		29.46
Millet	2.68			2.68		2.68
Oats	1.70			1.70		1.70
PULSES	31.91	1.17	3.05	36.13	0.12	36.25
Horse beans	11.35	0.23		11.58		11.58
Chick peas	3.73	0.07		3.80		3.80
Haricot beans	13.49	0.67	3.05	17.21	0.12	17.33
Field peas	2.27	0.20		2.47		2.47
Lentils	0.79			0.79		0.79
Vetch	0.28			0.28		0.28
Soya beans						
OTHERS	0.63	0.02	0.50	1.15		1.15
Neug						
Linseed	0.35	0.02		0.37		0.37
Fenugreek	0.19			0.19		0.19
Rapeseed	0.09			0.09		0.09
Sunflower						
Groundnuts						
Sesame			0.50	0.50		0.50
TOTAL	363.42	13.70	6.91	384.03	1.13	385.16

TABLE 59.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN SOUTH SHOA  
in 1988/89 ( 1981 E.C.)

+ THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	5511.39	121.74	82.67	5715.80	5.31	5721.11
Teff	734.32	11.07		745.39	0.23	745.62
Barley	224.23	1.06		225.29	5.08	230.37
Wheat	638.72	10.88		649.60		649.60
Maize	3423.24	91.33	82.67	3597.24		3597.24
Sorghum	437.60	7.40		445.00		445.00
Millet	32.58			32.58		32.58
Oats	20.70			20.70		20.70
PULSES	323.63	5.53	9.23	338.39	0.00	338.39
Horse beans	166.97	1.56		168.53		168.53
Chick peas	22.69	0.29		22.98		22.98
Haricot beans	107.56	2.91	9.23	119.70	0.00	119.70
Field peas	21.83	0.77		22.60		22.60
Lentils	2.81			2.81		2.81
Vetch	1.77			1.77		1.77
Soya beans						
OTHERS	3.29	0.02	0.75	4.06		4.06
Neug						
Linseed	1.99	0.02		2.01		2.01
Fenugreek	0.93			0.93		0.93
Rapeseed	0.37			0.37		0.37
Sunflower						
Groundnuts						
Sesame			0.75	0.75		0.75
TOTAL	5838.31	127.29	92.65	6058.25	5.31	6063.56

TABLE 60.

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ESTIMATES OF YIELD UNDER MAJOR CROPS IN SOUTH SHOA  
IN 1988/89 ( 1981 E.C.)

QUINTAL/HECTARE

C R O P	RAIN SEASON				WET SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	16.66	9.73	24.60	16.48	5.26	16.45
Teff	9.48	4.63		9.33	3.83	9.33
Barley	14.34	4.82		14.20	5.35	13.70
Wheat	14.02	7.50		13.82		13.82
Maize	21.49	12.11	24.60	21.14		21.14
Sorghum	15.33	8.13		15.11		15.11
Millet	12.16			12.16		12.16
Oats	12.18			12.18		12.18
PULSES	10.14	4.73	3.03	9.37	0.00	9.33
Horse beans	14.71	6.78		14.55		14.55
Chick peas	6.08	4.14		6.05		6.05
Haricot beans	7.97	4.34	3.03	6.96	0.00	6.91
Field peas	9.62	3.85		9.15		9.15
Lentils	3.56			3.56		3.56
Vetch	6.32			6.32		6.32
Soya beans						
OTHERS	5.22	1.00	1.50	3.53		3.53
Neug						
Linseed	5.69	1.00		5.43		5.43
Fenugreek	4.89			4.89		4.89
Rapeseed	4.11			4.11		4.11
Sunflower						
Groundnuts						
Sesame			1.50	1.50		1.50
TOTAL	16.06	9.29	13.41	15.78	4.70	15.74

TABLE 61.

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ESTIMATES OF AREA UNDER MAJOR CROPS IN WEST SHOA  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	218.65	18.38	0.45	237.48	0.82	238.30
Teff	112.46	7.19		119.65		119.65
Barley	41.53	5.64		47.17	0.74	47.91
Wheat	30.49	4.41		34.90		34.90
Maize	23.21	0.94	0.45	24.60	0.08	24.68
Sorghum	9.52	0.19		9.71		9.71
Millet	0.67	0.01		0.68		0.68
Oats	0.77			0.77		0.77
PULSES	26.37	4.25		30.62		30.62
Horse beans	6.58	1.30		7.88		7.88
Chick peas	11.29	1.56		12.85		12.85
Haricot beans	0.09	0.02		0.11		0.11
Field peas	5.16	0.74		5.90		5.90
Lentils	0.05	0.32		0.37		0.37
Vetch	3.20	0.31		3.51		3.51
Soya beans						
OTHERS	17.20	1.50		18.70		18.70
Neug	15.32	0.86		16.18		16.18
Linseed	0.89	0.54		1.43		1.43
Fenugreek	0.08			0.08		0.08
Rapeseed	0.91	0.10		1.01		1.01
Sunflower						
Groundnuts						
Sesame						
TOTAL	262.22	24.13	0.45	286.80	0.82	287.62

TABLE 62.

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ESTIMATES OF PRODUCTION OF MAJOR CROPS IN WEST SHOA  
IN 1988/89 ( 1981 E.C. )

X THOUSAND QUINTALS

C R O P	MAIN SEASON			TOTAL	BEIG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER-ATIVE	STATE FIRMS		PRIVATE	BOTH SEASONS
CEREALS	2655.66	108.17	8.13	2771.96	3.72	2775.68
Teff	1189.46	41.36		1230.82		1230.82
Barley	562.70	32.84		595.54	3.21	598.75
Wheat	342.42	27.02		369.44		369.44
Maize	399.19	5.70	8.13	413.02	0.51	413.53
Sorghum	154.52	1.24		155.76		155.76
Millet	0.00	0.00		0.01		0.01
Oats	7.37			7.37		7.37
PULSES	296.79	17.32		314.11		314.11
Horse beans	79.19	5.32		84.51		84.51
Chick peas	87.42	6.01		93.43		93.43
Haricot beans	0.00	0.02		0.02		0.02
Field peas	99.77	3.01		102.78		102.78
Lentils	0.30	1.51		1.81		1.81
Vetch	30.11	1.45		31.56		31.56
Soya beans						
OTHERS	93.33	4.28		97.61		97.61
Neug	72.89	2.34		75.23		75.23
Linseed	5.43	1.54		6.97		6.97
Fenugreek	0.42			0.42		0.42
Rapeseed	14.59	0.40		14.99		14.99
Sunflower						
Groundnuts						
Sesame						
TOTAL	3045.78	129.77	8.13	3183.68	3.72	3187.40

TABLE.63

ESTIMATES OF YIELD UNDER MAJOR CROPS IN WEST SHOA  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	12.15	5.89	18.07	11.67	4.54	11.65
Teff	10.58	5.75		10.29		10.29
Barley	13.55	5.82		12.63	4.34	12.50
Wheat	11.23	6.13		10.59		10.59
Maize	17.20	6.06	18.07	16.79	6.38	16.76
Sorghum	16.23	6.53		16.04		16.04
Millet	0.00	1.00		1.00		1.00
Oats	9.57			9.57		9.57
PULSES	11.29	4.08		10.29		10.29
Horse beans	12.03	4.09		10.72		10.72
Chick peas	7.74	3.85		7.27		7.27
Haricot beans	0.00	1.00		1.00		1.00
Field peas	19.34	4.07		17.42		17.42
Lentils	6.00	4.72		4.89		4.89
Vetch						
Soya beans						
OTHERS	5.43	2.85		5.22		5.22
Neug	4.76	2.72		4.65		4.65
Linseed	6.10	2.85		4.87		4.87
Fenugreek	5.25			5.25		5.25
Rapeseed	16.03	4.00		14.84		14.84
Sunflower						
Groundnuts						
Sesame						
TOTAL	11.65	5.38	18.07	11.10	4.54	11.08

TABLE 64.

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ESTIMATES OF AREA UNDER MAJOR CROPS IN BORENA  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE-	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	19.98	0.05		20.03	9.91	29.94
Teff	1.92	0.02		1.94	2.31	4.25
Barley	3.40			3.40	1.52	4.92
Wheat	1.90			1.90	0.89	2.79
Maize	9.94	0.03		9.97	3.41	13.38
Sorghum	2.82			2.82	1.77	4.59
Millet					0.01	0.01
Oats						
PULSES	6.15			6.15	0.57	6.72
Horse beans	0.85			0.85		0.85
Chick peas	2.01			2.01	0.32	2.33
Haricot beans	2.91			2.91	0.25	3.16
Field peas	0.29			0.29		0.29
Lentils	0.09			0.09		0.09
Vetch						
Soya beans						
OTHERS	0.30			0.30		0.30
Neug	0.04			0.04		0.04
Linseed						
Fenugreek	0.26			0.26		0.26
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	26.43	0.05		26.48	10.48	36.96

TABLE 65.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN BORENA  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTEALS

C R O P	MAIN SEASON			BEIG SEASON		TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	264.23	0.09		264.32	69.76	334.08
Teff	3.51	0.04		3.55	15.02	18.57
Barley	28.25			28.25	2.50	30.75
Wheat	10.92			10.92	10.00	20.92
Maize	186.20	0.05		186.25	17.72	203.97
Sorghum	35.35			35.35	24.52	59.87
Millet					0.00	0.00
Oats						
PULSES	57.07			57.07	5.12	62.19
Horse beans	11.31			11.31		11.31
Chick peas	6.44			6.44	4.02	10.46
Haricot beans	36.58			36.58	1.10	37.68
Field peas	2.46			2.46		2.46
Lentils	0.28			0.28		0.28
Vetch						
Soya beans						
OTHERS	0.58			0.58		0.58
Neug	0.00			0.00		0.00
Linseed						
Fenugreek	0.58			0.58		0.58
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	321.88	0.09		321.97	74.88	396.85

TABLE 66.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN BORENA  
IN 1988/89 ( 1981 E.C.)

QUINNAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	13.22	1.80		13.20	7.04	11.16
Teff	1.83	2.00		1.83	6.50	4.37
Barley	8.31			8.31	1.64	6.25
Wheat	5.75			5.75	11.24	7.50
Maize	18.73	1.67		18.68	5.20	15.24
Sorghum	12.54			12.54	13.85	13.04
Millet						
Oats						
PULSES	9.28			9.28	8.98	9.25
Horse beans	13.31			13.31		13.31
Chick peas	3.20			3.20	12.56	4.49
Haricot beans	12.57			12.57	4.40	11.92
Field peas	8.48			8.48		8.48
Lentils	3.11			3.11		3.11
Vetch						
Soya beans						
OTHERS	1.93			1.93		1.93
Neug	0.00			0.00		0.00
Linseed						
fenugreek	2.23			2.23		2.23
Rapeseed						
Sunflower						
Groundnuts						
Sesame						
TOTAL	12.20	1.80		12.18	7.15	10.74

TABLE 67.

ESTIMATES OF AREA UNDER MAJOR CROPS IN SIDAMO  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	95.32	1.61	1.90	98.83	51.82	150.65
Teff	22.60	0.38	0.03	23.01	6.04	29.05
Barley	13.95	0.10		14.05	0.55	14.60
Wheat	1.78	0.18		1.96	0.34	2.30
Maize	55.21	0.90	1.87	57.98	44.54	102.52
Sorghum	1.59	0.04		1.63	0.35	1.98
Millet		0.01		0.01		0.01
Oats	0.19			0.19		0.19
PULSES	6.52	0.17	0.93	7.62	2.72	10.34
Horse beans	2.10	0.07		2.17		2.17
Chick peas		0.01		0.01		0.01
Haricot beans	1.47	0.03	0.93	2.43	2.72	5.15
Field peas	2.95	0.05		3.00		3.00
Lentils						
Vetch						
Soya beans		0.01		0.01		0.01
OTHERS			1.73	1.73		1.73
Neug						
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame			1.73	1.73		1.73
TOTAL	101.84	1.78	4.56	108.18	54.54	162.72

TABLE 68.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN SIDAMO  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	1637.43	9.64	65.30	1712.37	282.88	1995.25
Teff	145.96	1.22	0.14	147.32	6.24	153.56
B rley	169.32	0.19		169.51	4.31	173.82
Wheat	18.89	0.40		19.29	0.51	19.80
Maize	1277.14	7.58	65.16	1349.88	271.82	1621.70
Sorghum	24.15	0.13		24.28	0.00	24.28
Millet		0.12		0.12		0.12
Oats	1.97			1.97		1.97
PULSES	46.72	0.45	2.71	49.88	9.74	59.62
Horse beans	22.83	0.22		23.05		23.05
Chick peas		0.00		0.00		0.00
Haricot beans	9.01	0.04	2.71	11.76	9.74	21.50
Field peas	14.88	0.08		14.96		14.96
Lentils						
Vetch						
Soya beans		0.11		0.11		0.11
OTHERS			5.32	5.32		5.32
Beug						
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame			5.32	5.32		5.32
TOTAL	1684.15	10.09	73.33	1767.57	292.62	2060.19

TABLE 69.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN SIDAMO  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BEIG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	17.18	5.99	34.37	17.33	5.46	13.24
Teff	6.46	3.21	4.67	6.40	1.03	5.29
Barley	12.46	1.90	12.06	7.84	7.84	11.91
Wheat	10.61	2.22		9.84	1.50	8.61
Maize	23.13	8.42	34.84	23.28	6.10	15.82
Sorghum	15.19	3.25		14.90	0.00	12.26
Millet		12.00		12.00		12.00
Oats	10.37			10.37		10.37
PULSES	7.17	2.65	2.91	6.55	3.58	5.77
Horse beans	10.87	3.14		10.62		10.62
Chick peas		0.00		0.00		0.00
Haricot beans	6.13	1.33	2.91	4.84	3.58	4.17
Field peas	5.04	1.60		4.99		4.99
Lentils						
Vetch						
Soya beans		11.00		11.00		11.00
OTHERS			3.08	3.08		3.08
Neug						
Linseed						
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts						
Sesame			3.08	3.08		3.08
TOTAL	16.54	5.67	16.08	16.34	5.37	12.66

TABLE 70.

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ESTIMATES OF AREA UNDER MAJOR CROPS IN ASSOSA  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON			BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	PRIVATE	BOTH SEASONS
CEREALS	23.05	16.32		3.92	43.29
Teff	3.76	1.31			5.07
Barley	0.01				0.01
Wheat		0.03			0.03
Maize	11.73	11.90		3.92	27.55
Sorghum	3.88	2.99			6.87
Millet	3.67	0.09			3.76
Oats					
PULSES	1.63	2.28		0.28	4.19
Horse beans					
Chick peas	0.17	0.06			0.23
Haricot beans	1.46	1.07		0.28	2.81
Field peas		0.01			0.01
Lentils					
Vetch					
Soya beans		1.14			1.14
OTHERS	0.44	2.07			2.51
Neug	0.43	1.98			2.41
Linseed	0.01				0.01
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts		0.07			0.07
Sesame		0.02			0.02
TOTAL	25.12	20.67		4.20	49.99

TABLE 71.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN ASSOSA  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAINS SEASON			TOTAL	BEIG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE PARMS		PRIVATE	
CEREALS	329.91	159.37		489.28	24.81	514.09
Teff	11.99	3.83		15.82		15.82
Barley	0.02			0.02		0.02
Wheat		0.03		0.03		0.03
Maize	248.59	142.30		390.89	24.81	415.70
Sorghum	48.48	13.03		61.51		61.51
Millet	20.83	0.18		21.01		21.01
Oats						
PULSES	7.41	6.41		13.82	2.64	16.46
Horse beans						
Chick peas	0.23	0.06		0.29		0.29
Haricot beans	7.18	1.78		8.96	2.64	11.60
Field peas		0.03		0.03		0.03
Lentils						
Vetch						
Soya beans		4.54		4.54		4.54
OTHERS	1.24	3.31		4.55		4.55
Neug	1.22	3.23		4.45		4.45
Linseed	0.02			0.02		0.02
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts		0.07		0.07		0.07
Sesame		0.01		0.01		0.01
TOTALS	338.56	169.09		507.65	27.45	535.10

TABLE 72.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN ASSOSA  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIV TE	
CEREALS	14.31	9.77		12.43	6.33	11.88
Teff	3.19	2.92		3.12		3.12
Barley	2.00			2.00		2.00
Wheat		1.00		1.00		1.00
Maize	21.19	11.96		16.54	6.33	15.09
Sorghum	12.49	4.36		8.95		8.95
Millet	5.68	2.00		5.59		5.59
Oats						
PULSES	4.56	2.81		3.53	9.43	3.93
Horse beans						
Chick peas	1.35	1.00		1.26		1.26
Haricot beans	4.92	1.66		3.54	9.43	4.13
Field peas		3.00		3.00		3.00
Lentils						
Vetch						
Soya beans		3.98		3.98		3.98
OTHERS	2.82	1.60		1.81		1.81
Neug	2.84	1.63		1.85		1.85
Linseed	2.00			2.00		2.00
Fenugreek						
Rapeseed						
Sunflower						
Groundnuts		1.00		1.00		1.00
Sesame		0.50		0.50		0.50
TOTAL	13.48	8.18		11.09	6.54	10.70

TABLE 73.

ESTIMATES OF AREA UNDER MAJOR CROPS IN WELLEGA  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	185.44	25.86	28.37	239.67	21.36	261.03
Teff	65.49	6.23		71.72	0.14	71.86
Barley	20.86	1.82		22.68	3.85	26.53
Wheat	2.02	0.83		2.85		2.85
Maize	63.19	11.02	19.49	93.70	17.37	111.07
Sorghum	19.52	5.39	8.88	33.79		33.79
Millet	14.36	0.57		14.93		14.93
Oats						
PUISES	11.05	6.67	7.93	25.65	0.60	26.25
Horse beans	5.02	1.25		6.27	0.03	6.30
Chick peas	0.39	0.29		0.68		0.68
Haricot beans	2.70	2.72	6.90	12.32	0.57	12.89
Field peas	2.79	1.05		3.84		3.84
Lentils	0.11			0.11		0.11
Vetch	0.04	0.01		0.05		0.05
Soya beans		1.35	1.03	2.38		2.38
OTHERS	15.72	5.65	6.75	28.12		28.12
Neug	15.01	2.95		17.96		17.96
Linseed	0.63	0.19		0.82		0.82
Fenugreek	0.06			0.06		0.06
Rapeseed	0.02	0.12		0.14		0.14
Sunflower		0.06		0.06		0.06
Groundnuts		0.11		0.11		0.11
Sesame		2.22	6.75	8.97		8.97
TOTAL	212.21	38.18	43.05	293.44	21.96	315.40

TABLE 74.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN WELLEGA  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIV TE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIV.ATE	BOTH SEASONS
CEREALS	1984.81	200.12	770.33	2955.26	239.93	3195.19
Teff	482.96	26.80		509.76	0.91	510.67
Barley	158.67	10.23		168.90	39.66	208.56
Wheat	20.03	4.07		24.10		24.10
Maize	1033.56	118.73	655.58	1807.87	199.36	2007.23
Sorghum	195.79	38.28	144.75	348.82		348.82
Millet	93.80	2.01		95.81		95.81
Oats						
PULSES	82.82	20.53	29.27	132.62	7.95	140.57
Horse beans	41.78	5.21		46.99	0.36	47.35
Chick peas	1.41	0.29		1.70		1.70
Haricot beans	24.09	7.86	15.64	47.59	7.59	55.18
Field peas	15.29	3.01		18.30		18.30
Lentils	0.20			0.20		0.20
Vetch	0.05	0.01		0.06		0.06
Soya beans		4.15	13.63	17.78		17.78
OTHERS	60.78	15.48	26.34	102.60		102.60
Neug	58.17	5.21		63.38		63.38
Linseed	2.37	0.89		3.26		3.26
Fenugreek	0.07			0.07		0.07
Rapeseed	0.17	0.80		0.97		0.97
Sunflower		0.16		0.16		0.16
Groundnuts		0.24		0.24		0.24
Sesame		8.18	26.34	34.52		34.52
TOTAL	2128.41	236.13	8825.94	3190.48	247.88	3438.36

TABLE 75.

ESTIMATES OF YIELD UNDER MAJOR CROPS IN WELLEGA  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ACTIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	10.70	7.74	27.15	12.33	11.23	12.24
Teff	7.37	4.30		7.11	6.50	7.11
Barley	7.61	5.62		7.45	10.30	7.86
Wheat	9.92	4.90		8.46		8.46
Maize	16.36	10.77	33.64	19.29	11.48	18.07
Sorghum	10.03	7.10	12.92	10.32		10.32
Millet	6.53	3.53		6.42		6.42
Oats						
PULSES	7.50	3.03	3.69	5.17	13.25	5.36
Horse beans	8.32	4.17		7.49	12.00	7.52
Chick peas	3.62	1.00		2.50		2.50
Haricot beans	8.92	2.89	2.27	3.86	13.32	4.28
Field peas	5.48	2.87		4.77		4.77
Lentils	1.82			1.82		1.82
Vetch	1.25	1.00		1.20		1.20
Soya beans		3.07	13.23	7.47		7.47
OTHERS	3.87	2.74	3.90	3.65		3.65
Neug	3.88	1.77		3.53		3.53
Linseed	3.76	4.68		3.98		3.98
Fenugreek	1.17			1.17		1.17
Rapeseed	8.50	6.67		6.93		6.93
Sunflower		2.67		2.67		2.67
Groundnuts		2.18		2.18		2.18
Sesame		3.68	3.90	3.85		3.85
TOTAL	10.03	6.18	19.19	10.87	11.29	10.90

TABLE 75.

ESTIMATES OF AREA UNDER MAJOR CROPS IN NORTH WOLLO  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARES

C R O P	MAIN SEASON			TOTAL	BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	BOTH SEASONS
CEREALS	116.09	6.01		122.10	53.48	175.58
Teff	38.73	1.50		40.23	7.86	48.09
Barley	37.50	0.24		37.74	43.15	80.89
Wheat	16.95	0.26		17.21	0.89	18.10
Maize	2.23	0.43		2.66	0.18	2.84
Sorghum	18.39	3.42		21.81		21.81
Millet	0.10	0.15		0.25		0.25
Oats	2.19	0.01		2.20	1.40	3.60
PULSES	23.19	1.09		24.28	0.49	24.77
Horse beans	10.51	0.26		10.77		10.77
Chick peas	3.52	0.37		3.89	0.06	3.95
Haricot beans	0.19			0.19		0.19
Field peas	3.58	0.09		3.67	0.30	3.97
Lentils	4.23	0.08		4.31	0.13	4.44
Vetch	1.16	0.29		1.45		1.45
Soya beans						
OTHERS	2.25	0.15		2.40	0.03	2.43
Neug	0.10	0.09		0.19		0.19
Linseed	2.14	0.04		2.18	0.03	2.21
Fenugreek	0.01	0.01		0.02		0.02
Rapeseed						
Sunflower						
Groundnuts						
Sesame		0.01		0.01		0.01
TOTAL	141.53	7.25		148.78	54.00	202.78

TABLE 77.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN NORTH WOLLE  
IN 1988/89(1981 E.C.)

THOUSAND QUINTALS

C R O P	MAIN SEASON			BELG SEASON	TOTAL	
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	1519.44	42.27		1561.71	886.73	2448.44
Teff	421.52	7.89		429.41	87.68	517.09
Barley	477.40	1.58		478.98	767.92	1246.90
Wheat	230.92	1.97		232.89	7.61	240.50
Maize	37.47	3.95		41.42	1.30	42.72
Sorghum	328.05	26.23		354.28		354.28
Millet	0.87	0.59		1.46		1.46
Oats	23.21	0.06		23.27	22.22	45.49
PULSES	298.43	7.24		305.67	5.79	311.46
Horse beans	165.79	1.92		167.71		167.71
Chick peas	32.08	2.34		34.42	0.62	35.04
Haricot beans	1.59			1.59		1.59
Field peas	42.64	0.59		43.23	3.32	46.55
Lentils	46.02	0.52		46.54	1.85	48.39
Vetch	10.31	1.87		12.18		12.18
Soya beans						
OTHERS	10.47	0.38		10.85	0.49	11.34
Neug	0.51	0.29		0.80		0.80
Linseed	9.96	0.05		10.01	0.49	10.50
Fenugreek	0.00	0.01		0.01		0.01
Rapeseed						
Sunflower						
Groundnuts						
Sesame		0.03		0.03		0.03
TOTAL	1828.34	49.89		1878.23	893.01	2771.24

TABLE 78.

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ESTIMATES OF YIELD UNDER MAJOR CROPS IN NORTH WOLLO  
IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	
CEREALS	13.09	7.03		12.79	16.58	13.94
Teff	10.88	5.26		10.67	11.16	10.75
Barley	12.73	6.58		12.69	17.80	15.41
Wheat	13.62	7.58		13.53	8.55	13.29
Maize	16.80	9.19		15.57	7.22	15.04
Sorghum	17.84	7.67		16.24		16.24
Millet	8.70	3.93		5.84		5.84
Oats	10.60	6.00		10.58	15.87	12.64
PULSES	12.87	6.64		12.59	11.82	12.57
Horse beans	15.77	7.38		15.57		15.57
Chick peas	9.11	6.32		8.85	10.33	8.87
Haricot beans	8.37			8.37		8.37
Field peas	11.91	6.56		11.78	11.07	11.73
Lentils	10.88	6.50		10.80	14.23	10.90
Vetch	8.89	6.45		8.40		8.40
Soya beans						
OTHERS	4.65	2.53		4.52	16.33	4.67
Neug	5.10	3.22		4.21		4.21
Linseed	4.65	1.25		4.58	16.33	4.75
Fenugreek	0.00	1.00		0.50		0.50
Rapeseed						
Sunflower						
Groundnuts						
Sesame		3.00		3.00		3.00
TOTAL	12.92	6.88		12.62	16.54	13.67

TABLE 79.

ESTIMATES OF AREA UNDER MAJOR CROPS IN SOUTH WOLLO  
IN 1988/89 (1981 E.C.)

THOUSAND HECTARE

C R O P	MAIN SEASON			TOTAL	BEIG SEASON	TOTAL BOTH SEASONS
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS		PRIVATE	
CEREALS	173.30	13.79	1.10	188.19	200.43	388.62
Teff	56.10	2.65	0.40	59.15	82.98	142.13
Barley	23.69	0.62		24.31	93.58	117.89
Wheat	37.13	5.61		42.74	15.82	58.56
Maize	10.80	1.53	0.10	12.43	0.44	12.87
Sorghum	41.45	3.11	0.60	45.16		45.16
Millet	0.03			0.03		0.03
Oats	4.10	0.27		4.37	7.61	11.98
PULSES	43.84	5.25		49.09	1.07	50.16
Horse beans	23.03	2.29		25.32	0.02	25.34
Chick peas	4.53	0.68		5.21	0.02	5.23
Haricot beans	0.74	0.05		0.79		0.79
Field peas	2.96	0.32		3.28	0.21	3.49
Lentils	7.69	0.75		8.44	0.82	9.26
Vetch	4.89	1.16		6.05		6.05
Soya beans						
OTHERS	3.21	0.80		4.01		4.01
Neug	1.60	0.29		1.89		1.89
Linseed	0.40	0.08		0.48		0.48
Fenugreek	1.21	0.40		1.61		1.61
Rapeseed		0.02		0.02		0.02
Sunflower						
Groundnuts						
Sesame		0.01		0.01		0.01
TOTAL	220.35	19.84	1.10	241.29	201.50	442.79

TABLE 80.

ESTIMATES OF PRODUCTION OF MAJOR CROPS IN SOUTH WOLLO  
IN 1988/89 (1981 E.C.)

THOUSAND QUINTEALS

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	2332.57	76.96	8.25	2417.78	1100.61	3518.39
Peff	606.86	12.68	3.62	623.16	134.56	757.72
Barley	331.62	2.44		334.06	782.89	1116.95
Wheat	498.99	22.06		521.05	62.26	583.31
Maize	234.88	15.15	0.39	250.42	1.63	252.05
Sorghum	609.33	22.94	4.24	636.51		636.51
Millet	0.42			0.42		0.42
Oats	50.47	1.59		52.16	119.27	171.43
PULSES	536.56	17.82		554.38	12.73	567.11
Horse beans	336.69	8.63		345.32	0.29	345.61
Chick peas	45.75	2.32		48.07	0.00	48.07
Haricot beans	10.54	0.04		10.58		10.58
Field peas	36.83	1.06		37.89	3.26	41.15
Lentils	77.91	2.29		80.20	9.18	89.38
Vetch	28.84	3.48		32.32		32.32
Soya beans						
OTHERS	21.24	1.96		23.20		23.20
Neug	11.11	0.58		11.69		11.69
Linseed	1.08	0.13		1.21		1.21
Fenugreek	9.05	1.11		10.16		10.16
Rapeseed		0.13		0.13		0.13
Sunflower						
Groundnuts						
Sesame						
TOTAL	2890.37	96.74	8.25	2995.36	1113.34	4108.70

ESTIMATES OF MAJOR CROPS IN SOUTH WOLLO  
 IN 1988/89 (1981 E.C.)

QUINTAL/HECTARE

C R O P	MAIN SEASON				BELG SEASON	TOTAL
	PRIVATE PEASANT HOLDINGS	PRODUCERS COOPER- ATIVE	STATE FARMS	TOTAL	PRIVATE	BOTH SEASONS
CEREALS	13.46	5.58	7.50	12.85	5.49	9.22
Teff	10.82	4.78	9.05	10.54	1.62	5.33
Barley	14.00	3.94		13.74	8.37	9.47
Wheat	13.44	3.93		12.19	3.94	9.96
Maize	21.75	9.90	3.90	20.15	3.70	19.58
Sorghum	14.70	7.38	7.07	14.09		14.09
Millet	14.00			14.00		14.00
Oats	12.31	6.26		11.94	15.67	14.31
PULSES	12.24	3.39		11.29	11.90	11.31
Horse beans	14.62	3.77		13.64	14.50	13.64
Chick peas	10.10	3.41		9.23	0.00	9.19
Haricot beans	14.24	0.80		13.39		13.39
Field peas	12.44	3.31		11.55	15.52	11.79
Lentils	10.13	3.05		9.50	11.20	9.65
Vetch	5.90	3.00		5.34		5.34
Soya beans						
OTHERS	6.62	2.45		5.79		5.79
Neug	6.94	2.00		6.19		6.19
Linseed	2.70	1.62		2.52		2.52
Fenugreek	7.48	2.78		6.31		6.31
Rapeseed		6.50		6.50		6.50
Sunflower						
Groundnuts						
Sesame		1.00		1.00		1.00
TOTAL	13.12	4.86	7.50	12.41	5.53	9.28