

PEOPLES' DEMOCRATIC REPUBLIC
OF ETHIOPIA

CENTRAL STATISTICAL AUTHORITY

BELG SEASON CROPS
1986/87-1987/88 (1979-1980 E.C.)

RESULTS OF
AREA AND PRODUCTION

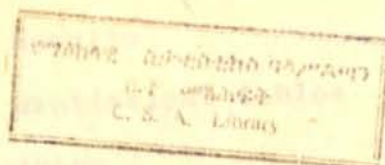
(REVISED)

ADDIS ABABA, AUG. 1989

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Introduction

This report contains results of belg season crops for cooperatives from the Agricultural Sample Survey that was conducted in 1987/88(1980 E.C.) and for private holdings and state farms from the agricultural sample survey that was conducted in 1988/89(1981 E.C.). This result constitutes part of the 8th and 9th consecutive agricultural sample surveys carried out by CSA since 1980/81(1973 E.C.). The results are given for national and regional levels.

Coverage

The 1987/88(1980 E.C.) agricultural sample survey covered 12 administrative regions, while the 1988/89(1981 E.C.) agricultural sample survey covered 26 of the newly formed administrative regions (excluding Eritrea, Tigray, Aseba & Ogaden autonomous regions). Both surveys cover 867 sampled farmers' associations (FAS) and all the producers' cooperatives in the regions covered. In terms of coverage both surveys covered nearly the same areas.

Methodology

The information on both area and production for belg season crops were collected by interview method. Results in this report are processed manually by converting local units into metric units, using the conversion factors on local units prepared by CSA in 1980/81.

It should be noted that change has been made regarding the time references of belg season for the 1987/88 and 1988/89 agricultural sample surveys. Belg season crops are mainly sown during the period from February to June, however, due to the heterogenous nature of belg practice in different areas of the country and with the overlapping of sowing time for some main season crops the report on belg crops in the past faced problems of identification.

Hence, the identification of belg season crops for 1987/88 and 1988/89 agricultural sample surveys is defined as any crop harvested during the months of March to August. Future belg surveys are expected to follow the same definition.

Results

This report contains estimates of area, production, yield and their percentage distribution of belg season crops for:

1. Producers' cooperatives belg season crops of 1986/87 (1979 E.C.).

The results are presented for the country and for 12 regions separately (excluding Eritrea & Tigray). It should be noted that even though the production refers to the 1986/87, the survey was conducted in 1987/88. The results of belg season crops of 1986/87 for private holdings was published in the report "Agricultural Sample Survey 1986/87 (1979 E.C.) results of area and production of belg season crops" Addis Ababa May, 1988.

For comparison purpose this report includes the results of belg season crops of 1986/87 for private holdings and cooperatives in table 1.

2. Private holdings belg season crops of 1987/88 (1980 E.C.).

The results are given for national and for 23 out of the 26 newly formed regions covered by the survey. Since the 1987/88 belg production was collected in 1988/89 survey programme it became necessary to report the results on the basis of the new administrative regions, because the 1988/89 survey was designed on the basis of new administrative divisions.

The regions that did not report belg crop for 1987/88 are Metekel, East Gojam and East Shoa.

3. State farms belg season crops of 1987/88 (1980 E.C.)

This result refers only to state farms in the regions of Bale and Wollo for which belg season production was reported.

Table 1

Estimates of total Area and Production for major belg crops by Region for Private holdings and Co-operatives in 1986/87 (1979 E.C.) and state farms in 1987/88 (1980 E.C.).

Region	Private (1986/87)		Producers Co-operatives (1986/87)		State farm (1987/88)	
	Area 000'Ha	Prod 000'Qt	Area 000'ha	Prod 000'Qt	Area 000'ha	Prod 000'Qt
Arsi	34.13	492.19	3.24	35.40	-	-
Bale	39.93	499.93	6.58	54.72	10.38	152.77
Gamogofa	51.44	616.05	1.39	39.53	-	-
Gojam	21.72	230.70	0.02	0.18	-	-
Gonder	141.74	435.26	0.69	8.18	-	-
Harerghe	47.09	372.44	1.80	21.51	-	-
Illubabor	14.04	246.74	0.05	0.25	-	-
Keffa	21.43	151.71	0.06	0.38	-	-
Shoa	75.00	870.31	0.78	5.18	-	-
Sidamo	98.09	761.03	0.07	0.90	-	-
Wellega	25.23	289.66	0.98	8.26	-	-
Wollo	114.35	2497.19	3.67	36.35	0.23	0.80
TOTAL	684.19	7463.21	19.33	210.04	10.61	153.57

684

TABLE 2

Estimates of total Area, production and yield for major Belg
Crops by Administrative Region for Private Holdings in
1987 /88 (1980 E.C)

Region	Area 000'ha	Production 000' Qt	Yield Qt/ha
Addis Ababa	7.88	56.93	7.22
Arssi	25.35	197.25	7.78
Assosa	4.20	27.45	6.54
Bale	43.33	195.08	4.50
Borera	10.48	74.88	7.15
Dire Dawa	0.38	1.08	2.84
East Gojam	-	-	-
East Hararghe	13.47	54.80	4.07
East Shoa	-	-	-
Gambella	0.14	2.95	21.07
Illubabour	12.12	74.69	6.16
Keffa	20.07	311.26	15.51
Metekel	-	-	-
North Gondar	19.69	74.16	3.77
North Omo	117.36	485.77	4.14
North Shoa	34.24	358.33	10.47
North Wollo	54.00	893.01	16.54
Sidamo	54.54	292.62	5.37
South Gonder	23.75	186.12	7.84
South Omo	2.49	54.19	21.76
South Shoa	1.13	5.31	4.70
South Wollo	201.50	1113.34	5.53
Wellega	21.96	247.88	11.29
West Gojam	23.31	153.71	6.59
West Hararghe	16.37	42.15	2.57
West Shoa	0.82	3.72	4.54
TOTAL	708.58	4906.68	6.92

Table 3

Estimates of Area, Production, Yield and Their Percentage
Distribution for major crops in the country* for cooperatives,
Belg Season in 1986/87 (1979 E.C).

Crop	Estimated Area in '000 ha.	Estimated Production in '000 Qt	Yield Qt/Hr.	% Distribution	
				Area	Production
CEREALS	17.65	199.78	11.32	91.31	95.12
Teff	0.69	4.47	6.48	3.57	2.13
Barley	8.36	87.88	10.51	43.25	41.84
Wheat	3.99	28.40	7.12	20.64	13.52
Maize	4.02	73.62	18.31	20.80	35.05
Sorghum	0.25	2.62	10.48	1.29	1.25
Millet	0.01	0.03	3.00	0.05	0.01
Oats	0.33	2.76	8.39	1.71	1.32
PULSES	1.51	9.42	6.24	7.81	4.49
Horse beans	0.01	0.07	7.00	0.05	0.03
Chick peas	0.24	1.54	6.42	1.24	0.73
Haricot beans	0.71	4.63	6.25	3.68	2.21
Field peas	0.36	1.89	5.25	1.86	0.90
Lentils	0.18	1.29	7.17	0.93	0.62
Vetch	0.01	0.00	0.00	0.05	0.00
Soya beans	-	-	-	-	-
OTHERS	0.17	0.82	4.82	0.88	0.39
NEug	-	-	-	-	-
Linseed/flax	0.05	0.20	4.00	0.26	0.10
Fenu greek	0.00	0.00	0.00	0.00	0.00
Rape seed	0.02	0.03	1.50	0.10	0.01
Sunflower	0.10	0.59	5.90	0.52	0.28
Ground nuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	19.33	210.02	10.88	100.00	100.00

* Excluding Eritrea and Tigray

TABLE 4

Estimates of area, production, yield and their percentage
Distribution for major crops for private holdings in ETHIOPIA*
Belg Season in 1987/88 (1980 E.C)

CROP	ESTIMATED AREA (^{'000} Ha.)	ESTIMATED PROD (^{'000} Qt.)	YIELD Qt/Ha	% DISTRIBUTION	
				prod.	area
CEREALS	685.49	4801.91	7.00	97.86	96.74
Teff	115.57	308.11	2.66	6.28	16.31
Barley	291.83	2623.25	8.99	53.46	41.18
Wheat	33.10	149.11	4.50	3.04	4.67
Maize	205.99	1401.09	6.80	28.55	29.07
Sorghum	20.52	102.47	4.99	2.09	2.90
Millet	3.62	51.83	14.32	1.06	0.51
Oats	14.86	166.05	11.17	3.38	2.10
PULSES	22.01	102.70	4.67	2.09	3.11
Horse beans	0.44	5.46	12.41	0.11	0.06
Chick peas	0.81	4.90	6.05	0.10	0.11
Haricot beans	15.10	60.39	4.00	1.23	2.13
Field peas	2.90	11.73	4.04	0.24	0.41
Lentiles	2.76	20.21	7.32	0.41	0.39
Vetch	0.001	0.005	5.00	0.00	0.00
Soya beans	-	-	-	-	-
OTHERS	11.09	2.07	1.90	0.05	0.15
Neug	-	-	-	-	-
Linseed/Flax	0.86	1.78	2.07	0.04	0.12
Fenugreek	0.23	0.29	1.26	0.01	0.03
Rapeseed	-	-	-	-	-
Sunflower	0.00	0.00	0.00	0.00	0.00
Ground nuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	708.58	4906.68	6.92	100.00	100.00

* Excluding Eritrea, Tigray, Asab & Ogaden.

Table 5

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for state farms in Ethiopia*, Belg season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	10.61	153.57	14.47	100.00	100.00
Teff	0.08	0.05	0.63	0.03	0.76
Barley	-	-	-	-	-
Wheat	10.38	152.77	14.72	99.48	97.83
Maize	0.15	0.75	5.00	0.49	1.41
Sorghum					
Millet					
Oats					
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linsseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	10.61	153.57	14.47	100.00	100.00

* Total of Bale & Wollo

ANNEX 1

1986/87 Producers' cooperatives belg crop estimates
by Region

1. ARSI
2. BALE
3. GAMO GOFFA
4. GOJAM
5. GONDER
6. HARARGHE
7. ILLUBABOR
8. KEFFA
9. SHOA
10. SIDAMO
11. WELLEGA
12. WOLLO

Estimates of Area, Production, Yield and Their Percentage
Distribution for Major crops in Arsi Region for Cooperatives,
Belg Season in 1986/87 (1979 E.C.)

Crop	Estimated Area in '000 ha.	Estimated Production '000 Qt.	Yield Qt/ha.	% Distribution	
				Area	Production
CEREALS	3.042	34.164	11.23	94.03	96.51
Teff	-	-	-	-	-
Barley	2.94	33.26	11.31	90.88	93.95
Wheat	0.06	0.31	5.17	1.85	0.88
Maize	0.04	0.57	14.25	1.24	1.61
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	0.002	0.024	12.00	0.06	0.07
PULSES	0.193	1.234	6.39	5.97	3.49
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	0.003	0.004	1.33	0.09	0.01
Field peas	0.19	1.23	6.47	5.88	3.48
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	-	-	-	-	-
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Ground nuts					
Sesame					
TOTAL	3.235	35.40	10.94	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage
Distribution for Major Crops in Bale Region for Cooperatives,
Belg Season in 1986/87 (1979 E.C.)

Crop	Estimated Area in '000 ha.	Estimated Production in '000 qt.	Yield Qt/ha	% Distribution	
				Area	Production
CEREALS	6.20	53.11	8.57	94.30	97.06
Teff	0.33	2.03	6.15	5.02	3.71
Barley	1.58	14.06	8.90	24.03	25.70
Wheat	3.34	22.37	6.70	50.80	40.88
Maize	0.73	13.12	17.97	11.10	23.98
Sorghum	0.08	0.85	10.63	1.22	1.55
Millet					
Oats	0.14	0.68	4.86	2.13	1.24
PULSES	0.205	0.79	3.76	3.12	1.44
Horse beans	0.01	0.07	7.00	0.15	0.13
Chick peas	0.003	0.02	6.67	0.05	0.03
Haricot beans	0.06	0.30	5.00	0.91	0.55
Field peas	0.13	0.39	3.00	1.98	0.71
Lentils	0.002	0.01	5.00	0.03	0.02
Vetch					
Soyabeans					
OTHERS	0.17	0.82	4.82	2.58	1.50
Neug					
Linseed/Flax	0.05	0.20	4.00	0.76	0.37
Fenugreek					
Rape seed	0.02	0.03	1.50	0.30	0.05
Sun flower	0.10	0.59	5.90	1.52	1.08
Ground nuts					
Sesame					
TOTAL	6.575	54.72	8.32	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage Distribution for Major crops in GamoGofa Region for Cooperatives, Belg Season in 1986/87(1979 E.C.)

Crop	Estimated Area in '000 hr	Estimated Producti in '000 Qt	Yield Qt/hr	% Distribution	
				Area	Production
CEREALS	1.39	39.53	28.44	99.78	99.99
Teff					
Barley					
Wheat					
Maize	1.36	39.13	28.77	97.63	98.98
Sorghum	0.03	0.40	13.33	2.15	1.01
Millet					
Oats					
PULSES	0.003	0.003	1.00	0.22	0.01
Horse beans					
Chick peas					
Haricot beans	0.003	0.003	1.00	0.22	0.01
Field peas					
Lentils					
Vetch					
Soyabeans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rape seed					
Sun flower					
Ground nuts					
Sesame					
TOTAL	1.393	39.533	28.38	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage Distribution for Major Crops in Gojam Region for Cooperatives Belg Season in 1986/87 (1979 E.C.)

Crop	Estimated Area in '000 hr	Estimated Production in '000 Qt	Yield Qt/hr	% Distribution	
				Area	Production
CEREALS	0.02	0.18	9.00	100.00	100.00
Teff					
Barley	0.01	0.06	6.00	50.00	33.33
Wheat					
Maize	0.01	0.12	12.00	50.00	66.67
Sorghum					
Millet					
Oats					
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentils					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rape seed					
Sunflower					
Ground nuts					
Sesams					
TOTAL	0.02	0.18	9.00	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage Distribution for Major Crops in Gonder Region for Cooperatives Belg Season in 1986/87 (1979 E.C.)

Crop	Estimated Area in '000 hr	Estimated Production in '000 Qt	Yield Qt/hr	% Distribution	
				Area	Production
CEREALS	0.68	8.09	11.90	97.98	98.90
Teff					
Barley	0.56	7.39	13.20	80.69	90.34
Wheat	0.01	0.01	1.00	1.44	0.12
Maize	0.11	0.69	6.27	15.85	8.44
Sorghum					
Millet					
Oats					
PULSES	0.014	0.09	6.43	2.02	1.10
Horse beans					
Chick peas	0.01	0.08	8.00	1.44	0.98
Haricot beans					
Field peas					
Lentils	0.004	0.01	2.50	0.58	0.12
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenu greek					
Rape seed					
Sunflower					
Ground nuts					
Sesame					
TOTAL	0.694	8.18	11.79	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage Distribution for Major Crops in Hararge Region for Co-operatives, Belg Season in 1986/87 (1979 E.C.)

Crop	Estimated Area in 1000 hr.	Estimated Production in '000 qt.	Yield Qt/hr	% Distribution	
				Area	Production
CEREALS	1.21	17.31	14.31	67.07	80.46
Teff					
Barley	0.33	3.88	11.76	18.29	18.03
Wheat	0.15	1.35	9.00	8.32	6.27
Maize	0.68	11.52	16.94	37.69	53.55
Sorghum	0.02	0.07	3.50	1.11	0.33
Millet					
Oats	0.03	0.49	16.33	1.66	2.28
PULSES	0.594	4.204	7.08	32.93	19.54
Horse beans					
Chick peas					
Haricot beans	0.57	4.09	7.18	31.60	19.01
Field peas	0.02	0.11	5.50	1.11	0.51
Lentils	0.004	0.004	1.00	0.22	0.02
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	1.804	21.514	11.93	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage Distribution for Major Crops in Illubabor Region for Co-operatives, Belg Season in 1986/87 (1979 E.C.)

Crop	Estimated Area in '000 hr.	Estimated Production in '000 qt.	Yield Qt/hr.	% Distribution	
				Area	Production
CEREALS	0.051	0.25	4.90	100.00	100.00
Teff	0.001	0.01	10.00	1.96	4.00
Barley					
Wheat					
Maize	0.04	0.21	5.25	78.43	84.00
Sorghum					
Millet	0.01	0.03	3.00	19.61	12.00
Oats					
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentils					
Vetch					
Soyabeans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rape seed					
Sun flower					
Ground nuts					
Sesame					
TOTAL	0.051	0.25	4.90	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage Distribution for Major Crops in Ke'a Region for Co-operatives, Belg Season in 1986/87 (1979 E.C.)

Crop	Estimated Area in '000 hr.	Estimated Production in '000 qt	Yield Qt/hr	% Distribution	
				Area	Production
CEREALS	0.062	0.383	6.18	100.00	100.00
Teff					
Barley	0.001	0.002	2.00	1.61	0.52
Wheat	0.001	0.001	1.00	1.61	0.26
Maize	0.06	0.38	6.33	96.78	99.22
Sorghum					
Millet					
Oats					
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentils					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rape seed					
Sunflower					
Ground nuts					
Sesame					
TOTAL	0.062	0.383	6.18	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage Distribution for Major Crops in Shoa Region for Co-operatives, Belg Season in 1986/87 (1979 E.C.)

Crop	Estimated Area in '000 hr.	Estimated Production in '000 qt.	Yield Qt/hr	% Distribution	
				Area	Production
CEREALS	0.75	5.06	6.75	96.40	97.68
Teff	0.08	0.35	4.38	10.28	6.76
Barley	0.45	3.10	6.89	57.84	59.84
Wheat	0.02	0.08	4.00	2.57	1.54
Maize	0.20	1.53	7.65	25.71	29.54
Sorghum					
Millet					
Oats					
PULSES	0.028	0.12	4.29	3.60	2.32
Horse beans					
Chick peas	0.004	0.02	5.00	0.52	0.39
Haricot beans	0.02	0.08	4.00	2.57	1.54
Field peas	0.004	0.02	5.00	0.51	0.39
Lentils					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rape seed					
Sun flower					
Ground nuts					
Sesame					
TOTAL	0.778	5.18	6.66	100.00	100.00

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Estimates of Area, Production, Yield and Their Percentage
Distribution for Major Crops in Sidamo Region for Co-
operatives, Belg Season in 1986/87(1979 E.C.)

Crop	Estimated Area in '000 hr	Estimated Production in '000 qt	Yield Qt/hr	% Distribution	
				Area	Production
CEREALS	0.032	0.033	1.03	44.44	32.04
Teff	0.002	0.003	1.50	2.78	2.91
Barley	0.01	0.01	1.00	13.88	9.71
Wheat					
Maize	0.02	0.02	1.00	27.78	19.42
Sorghum					
Millet					
Oats					
PULSES	0.04	0.07	1.75	55.56	67.96
Horse beans					
Chick peas					
Haricot beans	0.04	0.07	1.75	55.56	67.96
Field peas					
Lentils					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rape seed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	0.072	0.103	1.43	100.00	100.00

Estimates of Area, Production, Yield and Their Percentages Distribution for Major Crops in Wellega Region for Co-operatives, Belg Season in 1986/87 (1979 E.C.)

Crop	Estimated Area in '000 hr.	Estimated Production in '000 qt	Yield Qt/hr	% Distribution	
				Area	Production
CEREALS	0.965	8.134	8.48	98.97	99.03
Teff	0.004	0.01	2.5	0.41	0.12
Barley	0.55	4.84	8.80	56.41	58.52
Wheat	0.001	0.004	4.00	0.10	0.12
Maize	0.41	3.33	8.12	42.05	40.27
Sorghum					
Millet					
Oats					
PULSES	0.01	0.08	8.00	1.03	0.97
Horse beans					
Chick peas					
Haricot beans	0.01	0.08	8.00	1.03	0.97
Field peas					
Lentils					
Vetch					
Soya beans					
OTHERS					
Linseed/Flax					
Fenu greek					
Rapeseed					
Sunflower					
Groundnuts					
Neug					
Sesame					
TOTAL	0.975	8.264	8.48	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage Distribution for major crops in Wello Region for Co-operatives, Belg Season in 1986/87(1979 E.C.)

Crop	Estimated Area in '000 hr.	Estimated Production in '000 qt	Yield Qt/hr	% Distribution	
				Area	Production
CEREALS	3.25	33.49	10.30	88.46	92.13
Teff	0.27	2.07	7.67	7.35	5.69
Barley	1.93	21.28	11.03	52.53	58.54
Wheat	0.41	4.27	10.41	11.16	11.75
Maize	0.36	3.00	8.33	9.80	8.25
Sorghum	0.12	1.30	10.83	3.27	3.58
Millet					
Oats	0.16	1.57	9.81	4.35	4.32
PULSES	0.42	2.83	6.74	11.43	7.79
Horse beans					
Chick peas	0.22	1.42	6.45	5.99	3.91
Haricot beans					
Field peas	0.02	0.14	7.00	0.54	0.39
Lentils	0.17	1.27	7.47	4.63	3.49
Vetch	0.01	0.00	0.00	0.27	0.00
Soya beans					
OTHERS	0.004	0.03	7.50	0.11	0.08
Neug					
Linseed/Flax					
Fenu greek	0.004	0.03	7.50	0.11	0.08
Rape seed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	3.674	36.35	9.89	100.00	100.00

ANNEX 2

1987/88 Private holdings belg crop estimate by administrative

region

Region	Area (ha)	Production (kg)	Yield (kg/ha)	Value (birr)
1. Addis Ababa	1,000.0	10,000.0	10.0	100.0
2. Arsi	1,000.0	10,000.0	10.0	100.0
3. Asosa	1,000.0	10,000.0	10.0	100.0
4. Bale	1,000.0	10,000.0	10.0	100.0
5. Borena	1,000.0	10,000.0	10.0	100.0
6. Diredawa	1,000.0	10,000.0	10.0	100.0
7. East Hararghe	1,000.0	10,000.0	10.0	100.0
8. Gambella	1,000.0	10,000.0	10.0	100.0
9. Illubabor	1,000.0	10,000.0	10.0	100.0
10. keffa	1,000.0	10,000.0	10.0	100.0
11. North Gondar	1,000.0	10,000.0	10.0	100.0
12. North Omo	1,000.0	10,000.0	10.0	100.0
13. North Shoa	1,000.0	10,000.0	10.0	100.0
14. North Wollo	1,000.0	10,000.0	10.0	100.0
15. Sidamo	1,000.0	10,000.0	10.0	100.0
16. South Gondar	1,000.0	10,000.0	10.0	100.0
17. South Omo	1,000.0	10,000.0	10.0	100.0
18. South Shoa	1,000.0	10,000.0	10.0	100.0
19. South Wollow	1,000.0	10,000.0	10.0	100.0
20. Wellega	1,000.0	10,000.0	10.0	100.0
21. West Gojam	1,000.0	10,000.0	10.0	100.0
22. West Hararghe	1,000.0	10,000.0	10.0	100.0
23. West Shoa	1,000.0	10,000.0	10.0	100.0

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in Addis Abeba Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
GEREALS	7.85	56.85	7.24	99.86	99.62
Teff	-	-	-	-	-
Barley	7.84	56.85	7.25	99.86	99.49
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	0.01	0.00	0.00	0.00	0.13
PULSES	0.03	0.08	2.67	0.14	0.38
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Field peas	0.03	0.08	2.67	0.14	0.38
Lentiles	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	7.88	56.93	7.22	100.00	100.00

Estimates of Area, Production, Yield and their Percentage distribution for major crops for Private Holdings in Arsi Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	25.19	196.39	7.80	99.56	99.37
Teff	0.96	8.87	9.24	4.50	3.79
Barley	19.33	153.79	7.96	77.97	76.25
Wheat	2.15	10.01	4.66	5.07	8.48
Maize	1.33	18.15	13.65	9.20	5.25
Sorghum	0.12	0.00	0.00	0.00	0.47
Millet	-	-	-	-	-
Oats	1.30	5.57	4.28	2.82	5.13
PULSES	0.16	0.86	5.38	0.44	0.63
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	0.06	0.08	1.33	0.04	0.24
Field peas	0.10	0.78	7.80	0.40	0.39
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	25.35	197.25	7.78	100.00	100.00

Estimates of Area, Production, Yield and their Percentage for major crops
for Private Holdings in Assosa Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	3.92	24.81	6.33	90.38	93.33
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	3.92	24.81	6.33	90.38	93.33
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	0.28	2.64	9.43	9.62	6.67
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	0.28	2.64	9.43	9.62	6.67
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	4.20	27.45	6.54	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in Bale Region, Belg Season in 1987/88 (1988 E.C)

Crop	Estimated Area	Estimated Prod.	Yield Qt/Ha	% Distribution	
	('000 Ha.)	('000 Qt.)		Prod.	Area
CEREALS	41.48	191.83	4.62	98.33	95.73
Teff	4.43	12.12	2.74	6.21	10.22
Barley	13.69	63.97	4.67	32.79	31.59
Wheat	9.94	43.05	4.33	22.07	22.94
Maize	9.93	53.55	5.39	27.45	22.92
Sorghum	0.57	0.78	1.37	0.40	1.32
Millet	-	-	-	-	-
Oats	2.92	18.36	6.29	9.41	6.74
PULSES	0.82	1.74	2.12	0.89	1.89
Horse beans	0.01	0.00	0.00	0.00	0.02
Chick peas	0.04	0.00	0.00	0.00	0.09
Haricot beans	0.06	0.00	0.00	0.00	0.14
Field peas	0.65	1.60	2.46	0.82	1.50
Lentiles	0.06	0.13	2.17	0.07	0.14
Vetch	0.001	0.005	5.00	0.00	0.00
Soya beans	-	-	-	-	-
OTHERS	1.03	1.51	1.47	0.78	2.38
Neug	-	-	-	-	-
Linseed/Flax	0.83	1.29	1.55	0.66	1.92
Fenugreek	0.20	0.22	1.10	0.12	0.46
Rapeseed	-	-	-	-	-
Sunflower	0.001	0.00	0.00	0.00	0.00
Groundnuts					
Sesame					
TOTAL	43.33	195.08	4.50	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution of major crops for Private Holdings in Borena Region, Belg season in 1987/88 (1980 E.C)

Crop	Estimated Area (' 000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	9.91	69.76	7.04	93.16	94.56
Teff	2.31	15.02	6.50	20.06	22.04
Barley	1.52	2.50	1.64	3.34	14.50
Wheat	0.89	10.00	11.24	13.35	8.49
Maize	3.41	17.72	5.20	23.66	32.54
Sorghum	1.77	24.52	13.85	32.75	16.89
Millet	0.01	0.00	0.00	0.00	0.10
Oats	-	-	-	-	-
PULSES	0.57	5.15	8.98	6.84	5.44
Horse beans	-	-	-	-	-
Chick peas	0.32	4.02	12.56	5.37	3.05
Haricot beans	0.25	1.10	4.40	1.47	2.39
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/ Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	10.48	74.88	7.15	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in Dire Dawa Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield (Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	0.381	1.08	2.83	100.00	100.00
Teff	-	-	-	-	-
Barley	0.001	0.00	0.00	0.00	0.26
Wheat	-	-	-	-	-
Maize	0.25	1.04	4.16	96.30	65.62
Sorghum	0.13	0.04	0.31	3.70	34.12
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linsced/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	0.381	1.08	2.84	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in East Hararghe Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod	Area
CEREALS	13.47	54.80	4.07	1000.00	100.00
Teff	-	-	-	-	-
Barley	4.14	23.56	5.69	42.99	30.73
Wheat	0.30	1.18	3.93	2.15	2.23
Maize	8.49	29.80	3.51	54.38	63.03
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	0.54	0.26	0.48	0.48	4.01
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	13.47	54.80	4.07	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution
for major crops for Private Holdings in Gambela Region, Belg Season in 1987/88
(1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	
CEREALS	0.14	2.95	21.07	100.00	100.00
Teff	-	-	-	-	-
Barley	0.06	0.34	5.67	11.53	42.86
Wheat	-	-	-	-	-
Maize	0.08	2.61	32.63	88.47	57.14
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Field peas	-	-	-	-	-
Lentiles	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed/Flax	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	0.14	2.95	21.07	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for Major crops for Private Holdings in Llulubabur Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	10.72	65.75	6.13	88.03	88.45
Teff	0.04	0.43	10.75	0.57	0.33
Barley	5.68	10.17	1.79	13.62	46.87
Wheat	-	-	-	-	-
Maize	5.00	55.15	11.03	73.84	41.25
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	1.40	8.94	6.39	11.97	11.55
Horse beans	-	-	-	-	-
Chick peas	0.03	0.07	2.33	0.09	0.25
Haricot beans	1.37	8.87	6.47	11.88	11.30
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	12.12	74.69	6.16	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in Keffa Region, Belg Season in 1987/88 (1980 E.C.)

Crop	Estimated Area	Estimated Prod.	Yield Qt/Ha	% Distribution	
	('000 Ha.)	('000 Q.t.)		Prod.	Area
CEREALS	19.89	310.98	15.63	99.91	99.10
Teff	1.47	4.98	3.39	1.60	7.32
Barley	1.41	1.96	1.39	0.63	7.03
Wheat	0.48	0.59	1.23	0.19	2.33
Maize	13.67	254.47	18.62	81.76	68.11
Sorghum	0.002	0.04	20.00	0.01	0.00
Millet	2.86	48.94	17.11	15.72	14.25
Oats	-	-	-	-	-
PULSES	0.18	0.28	1.56	0.09	0.90
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	0.18	0.28	1.56	0.09	0.90
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	20.07	311.26	15.51	100.00	100.00

Estimates of Area, Production, Yield their Percentage Distribution for major crops for Private Holdings in North Gondor Region, Belg Season in 1987/88 (1989E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	19.69	74.16	3.77	100.00	100.00
Teff	-	-	-	-	-
Barley	19.69	74.16	3.77	100.00	100.00
Wheat					
Maize					
Sorghum					
Millet					
Oats					
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	19.69	74.16	3.77	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in North OMO Region, Belg season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	108.69	456.23	4.20	93.92	92.61
Teff	4.65	14.34	3.08	2.95	3.96
Barley	4.68	14.86	3.18	3.06	3.99
Wheat	0.02	0.06	3.00	0.01	0.02
Maize	81.34	353.96	4.35	72.87	69.31
Sorghum	17.28	70.73	4.09	14.56	14.72
Millet	0.72	2.28	3.17	0.47	0.61
Oats	-	-	-	-	-
PULSES	8.67	29.54	3.41	6.08	7.39
Horse beans	-	-	-	-	-
Chick peas	0.06	0.19	3.17	0.04	0.05
Haricot beans	8.36	29.30	3.50	6.03	7.13
Field peas	0.25	0.05	0.20	0.01	0.21
Lentiles	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed/Flax	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	117.36	485.77	4.14	100.00	100.0

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in North Shoa Region, Belg season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	30.49	341.76	11.21	95.37	89.05
Teff	4.53	22.29	4.92	6.22	13.23
Barley	24.45	305.53	12.50	85.26	71.41
Wheat	1.18	12.95	10.97	3.61	3.45
Maize	0.33	0.99	3.00	0.28	0.96
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	3.73	16.50	4.42	4.61	10.89
Horse beans	0.36	4.81	13.36	1.34	1.05
Chick peas	0.28	0.00	0.00	0.00	0.82
Haricot beans	-	-	-	-	-
Field peas	1.35	2.64	1.96	0.74	3.94
Lentiles	1.74	9.05	5.20	2.53	5.08
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	0.02	0.07	3.50	0.02	0.06
Neug	-	-	-	-	-
Linseed/Flax	-	-	-	-	-
Fenugreek	0.02	0.07	3.50	0.02	0.06
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	34.24	358.33	10.47	100.00	100.00

Estimates of Area, Production, Yield and their percentage distribution for major crops for private Holdings in North Wello Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	53.48	986.73	16.58	99.30	99.04
Teff	7.86	87.68	11.16	9.82	14.56
Barley	43.15	767.92	17.80	85.99	79.91
Wheat	0.89	7.61	8.55	0.85	1.65
Maize	0.18	1.30	7.22	0.15	0.33
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	1.40	22.22	15.87	2.49	2.59
PULSES	0.49	5.79	11.82	0.65	0.90
Horse beans	-	-	-	-	-
Chick peas	0.06	0.62	10.33	0.07	0.11
Haricot beans	-	-	-	-	-
Field peas	0.30	3.32	11.07	0.37	0.55
Lentiles	0.13	1.85	14.23	0.21	0.24
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	0.03	0.49	16.33	0.05	0.06
Neug	-	-	-	-	-
Linseed/Flax	0.03	0.49	16.33	0.05	0.06
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	54.00	893.01	16.54	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major CROPS for Private Holdings in Sidamo Region, Belg Season in 1987/88 (1980 E.C.).

Crop	Estimated Area ('000 Ha)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	51.82	282.88	5.46	96.67	95.01
Teff	6.04	6.24	1.03	2.13	11.07
Barley	0.55	4.31	7.84	1.47	1.01
Wheat	0.34	0.51	1.50	0.18	0.62
Maize	44.54	271.82	6.10	92.89	81.67
Sorghum	0.35	0.00	0.00	0.00	0.64
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	2.72	9.74	3.58	3.33	4.99
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	2.72	9.74	3.58	3.33	4.99
Field peas	-	-	-	-	-
Lentiles	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	54.54	292.62	5.37	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in South Gondar Region, Belg Season in 1987/88 (1980E.C)

66

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Of Prod.	Area
CEREALS	23.75	186.12	7.84	100.00	100.00
Teff	-	-	-	-	-
Barley	19.16	150.67	7.86	80.95	80.67
Wheat	-	-	-	-	-
Maize	4.59	35.45	7.72	19.05	19.33
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Field peas	-	-	-	-	-
Lentiles	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed/Flax	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	23.75	186.12	7.84	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in South OMO Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	2.49	54.19	21.76	100.00	100.00
Jeff	-	-	-	-	-
Barley	0.15	1.93	12.87	3.56	6.02
Wheat	-	-	-	-	-
Maize	2.01	45.29	22.53	83.58	80.72
Sorghum	0.30	6.36	21.20	11.74	12.05
Millet	0.03	0.61	20.33	1.12	1.21
Oats	-	-	-	-	-
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	2.49	54.19	21.76	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in South Shoa Region, Belg Season in 1987/88 (1980,E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	1.01	5.31	5.26	100.00	89.38
Teff	0.06	0.23	3.83	4.33	5.31
Barley	0.95	5.08	5.35	95.67	84.07
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	0.12	0.00	0.00	0.00	10.62
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	0.12	0.00	0.00	0.00	10.62
Field peas	-	-	-	-	-
Lentiles	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed/Flax	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	1.13	5.31	4.70	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage distribution for major crops for private Holdings in South Wollo Region, Belg Season, in 1987/88 (1980 E.C).

Crop	Estimated Area (¹ 000 Ha.)	Estimated Prod. (¹ 000 Qt.)	Yield Qt/Ha	% Distribution	
				prod.	Area
CEREALS	200.43	1100.61	5.49	98.86	99.47
Teff	82.98	134.56	1.62	12.09	41.18
Barley	93.58	782.89	8.37	70.32	46.44
Wheat	15.82	62.26	3.94	5.59	7.85
Maize	0.44	1.63	3.70	0.15	0.22
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	7.61	119.27	15.67	10.71	3.78
PULSES	1.07	12.73	11.90	1.14	0.53
Herse beans	0.02	0.29	14.50	0.03	0.01
Chick peas	0.02	0.00	0.00	0.00	0.01
Haricot beans	-	-	-	-	-
Field peas	0.21	3.26	15.52	0.29	0.10
Lentiles	0.82	9.18	11.20	0.82	0.41
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed/Flax	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	201.50	1113.34	5.53	100.00	100.00

Estimates of Area, Production, Yield and Their Percentage distribution for major crops for Private Holdings in Welega Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	21.36	239.93	11.23	96.79	97.27
Teff	0.14	0.91	6.50	0.37	0.64
Barley	3.85	39.66	10.30	16.00	17.53
Wheat	-	-	-	-	-
Maize	17.37	199.36	11.48	80.42	79.10
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	0.60	7.95	13.25	3.21	2.73
Horse beans	0.03	0.36	12.00	0.15	0.14
Chick peas	-	-	-	-	-
Haricot beans	0.57	7.59	13.32	3.06	2.59
Field peas	-	-	-	-	-
Lentiles	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed/Flax	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	21.96	247.88	11.29	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for Private Holdings in West Gojam Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	23.31	153.71	6.59	100.00	100.00
Teff	-	-	-	-	-
Barley	22.26	148.32	6.66	96.49	95.50
Wheat	-	-	-	-	-
Maize	1.05	5.39	5.13	3.51	4.50
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	23.31	153.71	6.59	100.00	100.00

Estimates of Area, Production, Yield and their Percentage distribution for major crops for Private Holdings in West Hararghe Region, Belg Season in 1987/88 (1980E.C)

Crop	Estimated Area (¹ 000 Ha.)	Estimated Prod. (¹ 000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	15.21	41.36	2.72	98.13	92.92
Teff	0.11	0.44	4.00	1.05	0.67
Barley	4.95	11.57	2.34	27.45	30.24
Wheat	1.09	0.89	0.822	2.11	6.66
Maize	7.98	28.09	3.52	66.64	48.75
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	1.08	0.37	0.34	0.88	6.60
PULSES	1.15	0.79	0.69	1.87	7.02
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	1.13	0.79	0.70	1.87	6.90
Field peas	0.01	0.00	0.00	0.00	0.06
Lentiles	0.01	0.00	0.00	0.00	0.06
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	0.01	0.00	0.00	0.00	0.06
Neug	-	-	-	-	-
Linseed/Flax	-	-	-	-	-
Fenugreek	0.01	0.00	0.00	0.00	0.06
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	16.37	42.15	2.57	100.00	100.00

Estimates of Area, Production, Yield and their Percentage Distribution for major
for Private Holdings in West Shoa Region, Belg Season in 1987/88 (1980 E.C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt/Ha	% Distribution	
				Prod.	Area
CEREALS	0.82	3.72	4.54	100.00	100.00
Teff	-	-	-	-	-
Barley	0.74	3.21	4.34	86.29	90.24
Wheat	-	-	-	-	-
Maize	0.08	0.51	6.38	13.71	9.76
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Field peas	-	-	-	-	-
Lentiles	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
OTHERS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed/Flax	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Sunflower	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sesame	-	-	-	-	-
TOTAL	0.82	3.72	4.54	100.00	100.00

A N N E X 3

1987/88 State farm belg crop estimates by region

1. Bale

2. Wollo

Estimates of Area, Production, Yield and their Percentage Distribution for major crops for state farms in Bale Region, Be'g season in 1987/88 (1980 E.c

Crop	Estimated Area ('000 Qt.)	Estimated Prod. ('000 Qt/Ha	Yield	% Distribution	
				Prod.	Area
CEREALS	10.38	152.77	14.72	100.00	100.00
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	10.38	152.77	14.72	100.00	100.00
Maize					
Sorghum					
Millet					
Oats					
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	10.38	152.77	14.72	100.00	100.00

Estimates of Area, Production, Yield and thir Percentage Distribution for major crops for State farms in Wello Region, Belg season in 1987/88 (1980 E . C)

Crop	Estimated Area ('000 Ha.)	Estimated Prod. ('000 Qt.)	Yield Qt./Ha	% Distribution	
				Prod.	Area
CEREALS	0.23	0.80	3.48	100.00	100.00
Teff	0.08	0.05	0.63	6.25	34.78
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	0.15	0.75	5.00	93.75	65.22
Sorghum					
Millet					
Quts					
PULSES					
Horse beans					
Chick peas					
Haricot beans					
Field Peas					
Lentiles					
Vetch					
Soya beans					
OTHERS					
Neug					
Linseed/Flax					
Fenugreek					
Rapeseed					
Sunflower					
Groundnuts					
Sesame					
TOTAL	0.23	0.80	3.48	100.00	100.00

References

1. Time series data on area, production and yield of major crops. 1979/80 - 1985/86 Central Statistical Authority, Addis Ababa, Oct 1987.
2. Agricultural sample survey, 1986/87 (1979 EC), Results of area and production by sector Central Statistical Authority, Addis Ababa, Sept. 1987.
3. Agricultural sample survey, Belg crop production of 1986/87 (1979 EC) for private holdings, CSA , Addis Ababa, May 1988.

316.3.ETH/AGR		C-2
AUTHOR		
TITLE Ethiopia C-S-A		
1986/87-1987/88		
BELG season crops		
DATE DUE	BORROWER'S NAME	

316.3
Ethi./AGR.