

THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA  
CENTRAL STATISTICAL AUTHORITY

AGRICULTURAL SAMPLE SURVEY  
1994/95(1987 E.C.)

REPORT ON

**AGRICULTURAL PRACTICES**

(PRIVATE PEASANT HOLDINGS, MAIN SEASON)

VOLUME III

ADDIS ABABA

AUGUST, 1995

---

132

STATISTICAL BULLETIN

132

---

336-3  
FM

THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA  
CENTRAL STATISTICAL AUTHORITY

AGRICULTURAL SAMPLE SURVEY  
1994/95(1987 E.C.)

REPORT ON

**AGRICULTURAL PRACTICES**

(PRIVATE PEASANT HOLDINGS, MAIN SEASON)

VOLUME III

ADDIS ABABA

AUGUST, 1995

---

132

STATISTICAL BULLETIN

132

---

## TABLE OF CONTENTS

	<u>Page</u>
List of Tables.....	ii
List of Figures.....	xx
Introduction.....	1
Objective of the Survey.....	2
Coverage and Content.....	2
Basic concepts and Definitions.....	5
Sample Design.....	8
Field Organization.....	9
Training of Field Staff.....	10
Method of Data Collection.....	11
Survey Results.....	12
1. Area under Farm Management Practices.....	12
1.1. Total Improved Seed Applied Area.....	12
1.2. Total Irrigated Area.....	13
1.3. Total Pesticide Applied Area.....	13
1.4. Total Fertilizer Applied Area.....	14
2. Total Fertilizer Applied Area and Quantity by Type of Fertilizer and crop.....	66
2.1. Total Fertilizer Applied Area by Type of Fertilizer.....	66
2.1.1. Natural Fertilizer Applied Area.....	67
2.1.2. DAP Applied Area.....	67
2.1.3. UREA Applied Area.....	67
2.1.4. DAP and UREA Applied Area.....	68
2.1.5. Natural and Commercial Fertilizer applied Area.....	68
2.2. Quantity of Commercial Fertilizer Applied..	68
2.2.1. Quantity of DAP Applied.....	69
2.2.2. Quantity of UREA Applied.....	69
2.2.3. Quantity of DAP and UREA Applied in Mix	70
2.2.4. Quantity of Commercial with Natural Applied in Mix.....	70
3. Rate of Commercial Fertilizer Application.....	125
Appendix I.....	133
Appendix II.....	139

## LIST OF TABLES

Page

Table 1.1	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.).....	15
Table 1.2	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by region for meher season crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.).....	17
Table 1.3	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in TIGRAY REGION 1994/95(1987 E.C.).....	18
Table 1.4	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in AFAR REGION 1994/95(1987 E.C.).....	19
Table 1.5	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in AMHARA REGION 1994/95(1987 E.C.).....	20
Table 1.5.1	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Amhara Region AGEWAWI ZONE, 1994/95(1987 E.C.).....	21
Table 1.5.2	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of	

private peasant holdings in Amhara Region E.GOJAM ZONE, 1994/95(1987 E.C.).....	22
Table 1.5.3 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Amhara Region W.GOJAM ZONE, 1994/95(1987 E.C.).....	23
Table 1.5.4 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Amhara Region N.GONDER ZONE, 1994/95(1987 E.C.).....	24
Table 1.5.5 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Amhara Region S.GONDER ZONE, 1994/95(1987).....	25
Table 1.5.6 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Amhara Region N.SHEWA ZONE, 1994/95(1987).....	26
Table 1.5.7 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Amhara Region OROMIA ZONE, 1994/95(1987).....	27
Table 1.5.8 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Amhara Region WAG-HAMRA ZONE, 1994/95(1987).....	28
Table 1.5.9 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage	

	distribution by crop for meher season crops of private peasant holdings in Amhara Region N.WOLO ZONE, 1994/95(1987).....	29
Table 1.5.10	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Amhara Region S.WOLO ZONE, 1994/95(1987).....	30
Table 1.6	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in OROMIA REGION 1994/95(1987 E.C.).....	31
Table 1.6.1	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region ARSI ZONE, 1994/95(1987 E.C.).....	32
Table 1.6.2	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region BALE ZONE, 1994/95(1987 E.C.).....	33
Table 1.6.3	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region BORENA ZONE, 1994/95(1987 E.C.).....	34
Table 1.6.4	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region E.HARERGE ZONE, 1994/95(1987 E.C.).....	35
Table 1.6.5	Estimates of Improved Seed, Irrigation, Pesticide	

and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region W.HARERGE ZONE, 1994/95(1987 E.C.).....	36
Table 1.6.6 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region ILUBABOR ZONE, 1994/95(1987 E.C.).....	37
Table 1.6.7 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region JIMA ZONE, 1994/95(1987 E.C.).....	38
Table 1.6.8 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region E.SHEWA ZONE, 1994/95(1987 E.C.).....	39
Table 1.6.9 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region N.SHEWA ZONE, 1994/95(1987 E.C.).....	40
Table 1.6.10 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region W.SHEWA ZONE, 1994/95(1987 E.C.).....	41
Table 1.6.11 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region E.WELEGA ZONE, 1994/95(1987 E.C.).....	42

Table 1.6.12 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in Oromia Region W.WELEGA ZONE, 1994/95(1987 E.C.).....	43
Table 1.7 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in BENSANGUL REGION 1994/95(1987 E.C.).....	44
Table 1.8 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A. REGION 1994/95(1987 E.C.).....	45
Table 1.8.1 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region BENCH ZONE, 1994/95(1987 E.C.).....	46
Table 1.8.2 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region GEDIO ZONE, 1994/95(1987 E.C.).....	47
Table 1.8.3 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region GURAGE ZONE, 1994/95(1987 E.C.).....	48
Table 1.8.4 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of	

private peasant holdings in S.E.P.A Region HADIYA ZONE, 1994/95(1987 E.C.).....	49
Table 1.8.5 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region KEMBATA ZONE, 1994/95(1987 E.C.).....	50
Table 1.8.6 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region KEFICHO ZONE, 1994/95(1987 E.C.).....	51
Table 1.8.7 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region MAJI ZONE, 1994/95(1987 E.C.).....	52
Table 1.8.8 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region N.OMO ZONE, 1994/95(1987 E.C.).....	53
Table 1.8.9 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region S.OMO ZONE, 1994/95(1987 E.C.).....	54
Table 1.8.10 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region SHEKICHO ZONE, 1994/95(1987 E.C.).....	55
Table 1.8.11 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage	

distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region SIDAMA ZONE, 1994/95(1987 E.C.).....	56
Table 1.8.12 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region AMARO WEREDA, 1994/95(1987 E.C.).....	57
Table 1.8.13 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region BURJI WEREDA, 1994/95(1987 E.C.).....	58
Table 1.8.14 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region DERASHE WEREDA, 1994/95(1987 E.C.).....	59
Table 1.8.15 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region KONSO WEREDA, 1994/95(1987 E.C.).....	60
Table 1.8.16 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in S.E.P.A Region YEM WEREDA, 1994/95(1987 E.C.).....	61
Table 1.9 Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in GAMBELA REGION 1994/95(1987 E.C.).....	62
Table 1.10 Estimates of Improved Seed, Irrigation, Pesticide	

	and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in HARARI REGION 1994/95(1987 E.C.).....	63
Table 1.11	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in ADDIS ABABA REGION 1994/95(1987 E.C.).....	64
Table 1.12	Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer applied area and their percentage distribution by crop for meher season crops of private peasant holdings in DIRE DAWA 1994/95(1987 E.C.).....	65
Table 2.1.1	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.).....	71
Table 2.1.2	Estimates of Fertilizer applied area by region for meher season crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.).....	73
Table 2.2.1	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.).....	74
Table 2.2.2	Estimates of Quantity of Fertilizer by Region for meher season crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.).....	76
Table 2.3.1	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in TIGRAY REGION 1994/95(1987 E.C.).....	78
Table 2.3.2	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of	

private peasant holdings in TIGRAY REGION

1994/95(1987 E.C.)..... 78

Table 2.4.1 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in AFAR REGION

1994/95(1987 E.C.)..... 79

Table 2.5.1 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in AMHARA REGION

1994/95(1987 E.C.)..... 80

Table 2.5.2 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in AMHARA REGION

1994/95(1987 E.C.)..... 81

Table 2.5.3 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in Amhara Region AGEWAWI

ZONE, 1994/95 (1987 E.C.)..... 82

Table 2.5.4 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in Amhara Region AGEWAWI

ZONE, 1994/95 (1987 E.C.)..... 82

Table 2.5.5 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in Amhara Region E.GOJAM

ZONE, 1994/95 (1987 E.C.)..... 83

Table 2.5.6 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in Amhara Region E.GOJAM

ZONE, 1994/95 (1987 E.C.)..... 83

Table 2.5.7 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in Amhara Region W.GOJAM

ZONE, 1994/95 (1987 E.C.)..... 84

Table 2.5.8	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Amhara Region W. GOJAM ZONE, 1994/95 (1987 E.C.).....	84
Table 2.5.9	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Amhara Region N.GONDER ZONE, 1994/95 (1987 E.C.).....	85
Table 2.5.10	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Amhara Region N.GONDER ZONE, 1994/95 (1987 E.C.).....	85
Table 2.5.11	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Amhara Region S.GONDER ZONE, 1994/95 (1987 E.C.).....	86
Table 2.5.12	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Amhara Region S.GONDER ZONE, 1994/95 (1987 E.C.).....	86
Table 2.5.13	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Amhara Region N.SHEWA ZONE, 1994/95 (1987 E.C.).....	87
Table 2.5.14	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Amhara Region N.SHEWA ZONE, 1994/95 (1987 E.C.).....	87
Table 2.5.15	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Amhara Region OROMIA ZONE, 1994/95 (1987 E.C.).....	88
Table 2.5.16	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of	

	private peasant holdings in Amhara Region WAG-HAMRA ZONE, 1994/95 (1987 E.C.).....	89
Table 2.5.17	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Amhara Region N.WOLO ZONE, 1994/95 (1987 E.C.).....	90
Table 2.5.18	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Amhara Region S.WOLO ZONE, 1994/95 (1987 E.C.).....	91
Table 2.5.19	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Amhara Region S.WOLO ZONE, 1994/95 (1987 E.C.).....	91
Table 2.6.1	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in OROMIA REGION 1994/95 (1987 E.C.).....	92
Table 2.6.2	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in OROMIA REGION 1994/95 (1987 E.C.).....	93
Table 2.6.3	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Oromia region ARSI ZONE, 1994/95 (1987 E.C.).....	94
Table 2.6.4	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Oromia Region ARSI ZONE, 1994/95 (1987 E.C.).....	94
Table 2.6.5	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Oromia Region BALE ZONE, 1994/95 (1987 E.C.).....	95

Table 2.6.6	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Oromia Region BALE ZONE, 1994/95 (1987 E.C.).....	95
Table 2.6.7	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Oromia Region BORENA ZONE, 1994/95 (1987 E.C.).....	96
Table 2.6.8	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Oromia Region BORENA ZONE, 1994/95 (1987 E.C.).....	96
Table 2.6.9	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Oromia Region E.HARERGE ZONE, 1994/95 (1987 E.C.).....	97
Table 2.6.10	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Oromia Region E.HARERGE ZONE, 1994/95 (1987 E.C.).....	97
Table 2.6.11	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Oromia Region W.HARERGE ZONE, 1994/95 (1987 E.C.).....	98
Table 2.6.12	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Oromia Region W.HARERGE ZONE, 1994/95 (1987 E.C.).....	98
Table 2.6.13	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Oromia Region ILUBABOR ZONE, 1994/95 (1987 E.C.).....	99
Table 2.6.14	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of	

private peasant holdings in Oromia Region ILUBABOR  
ZONE, 1994/95 (1987 E.C.)..... 99

Table 2.6.15 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in Oromia Region JIMA  
ZONE, 1994/95 (1987 E.C.)..... 100

Table 2.6.16 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in Oromia Region JIMA  
ZONE, 1994/95 (1987 E.C.)..... 100

Table 2.6.17 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in Oromia Region E.SHEWA  
ZONE, 1994/95 (1987 E.C.)..... 101

Table 2.6.18 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in Oromia Region E.SHEWA  
ZONE, 1994/95 (1987 E.C.)..... 101

Table 2.6.19 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in Oromia Region N.SHEWA  
ZONE, 1994/95 (1987 E.C.)..... 102

Table 2.6.20 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in Oromia Region N.SHEWA  
ZONE, 1994/95 (1987 E.C.)..... 1 0 2

Table 2.6.21 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in Oromia Region W.SHEWA  
ZONE, 1994/95 (1987 E.C.)..... 103

Table 2.6.22 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in Oromia Region W.SHEWA  
ZONE, 1994/95 (1987 E.C.)..... 103

Table 2.6.23	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Oromia Region E.WELEGA ZONE, 1994/95 (1987 E.C.).....	104
Table 2.6.24	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Oromia Region E.WELEGA ZONE, 1994/95 (1987 E.C.).....	104
Table 2.6.25	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in Oromia Region W.WELEGA ZONE, 1994/95 (1987 E.C.).....	105
Table 2.6.26	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in Oromia Region W.WELEGA ZONE, 1994/95 (1987 E.C.).....	105
Table 2.7.1	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in BENSANGUL REGION 1994/95 (1987 E.C.).....	106
Table 2.7.2	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in BENSANGUL REGION 1994/95 (1987 E.C.).....	106
Table 2.8.1	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. REGION 1994/95 (1987 E.C.).....	107
Table 2.8.2	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. REGION 1994/95 (1987 E.C.).....	108
Table 2.8.3	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of	

private peasant holdings in S.E.P.A. Region BENCH  
ZONE, 1994/95 (1987 E.C.)..... 109

- Table 2.8.4 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in S.E.P.A. Region GEDIO  
ZONE, 1994/95 (1987 E.C.)..... 110
- Table 2.8.5 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in S.E.P.A. Region GEDIO  
ZONE, 1994/95 (1987 E.C.)..... 110
- Table 2.8.6 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in S.E.P.A. Region GURAGE  
ZONE, 1994/95 (1987 E.C.)..... 111
- Table 2.8.7 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in S.E.P.A. Region GURAGE  
ZONE, 1994/95 (1987 E.C.)..... 111
- Table 2.8.8 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in S.E.P.A. Region HADIYA  
ZONE, 1994/95 (1987 E.C.)..... 112
- Table 2.8.9 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in S.E.P.A. Region HADIYA  
ZONE, 1994/95 (1987 E.C.)..... 112
- Table 2.8.10 Estimates of Fertilizer applied area by type  
of fertilizer for meher season crops of  
private peasant holdings in S.E.P.A. Region KEMBATA  
ZONE, 1994/95 (1987 E.C.)..... 113
- Table 2.8.11 Estimates of Quantity of Fertilizer by type  
of fertilizer for meher season crops of  
private peasant holdings in S.E.P.A. Region KEMBATA  
ZONE, 1994/95 (1987 E.C.)..... 113

Table 2.8.12	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region KEFICHO ZONE, 1994/95 (1987 E.C.).....	114
Table 2.8.13	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region KEFICHO ZONE, 1994/95 (1987 E.C.).....	114
Table 2.8.14	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region N.OMO ZONE, 1994/95 (1987 E.C.).....	115
Table 2.8.15	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region N.OMO ZONE, 1994/95 (1987 E.C.).....	115
Table 2.8.16	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region SHEKICHO ZONE, 1994/95 (1987 E.C.).....	116
Table 2.8.17	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region SIDAMA ZONE, 1994/95 (1987 E.C.).....	117
Table 2.8.18	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region SIDAMA ZONE, 1994/95 (1987 E.C.).....	117
Table 2.8.19	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region AMARO WEREDA, 1994/95 (1987 E.C.).....	118
Table 2.8.20	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of	

private peasant holdings in S.E.P.A. Region DERASHE  
WEREDA, 1994/95 (1987 E.C.)..... 119

Table 2.8.21	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region KONSO WEREDA, 1994/95 (1987 E.C.).....	120
Table 2.8.22	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region YEM WEREDA, 1994/95 (1987 E.C.).....	1 2 1
Table 2.8.23	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in S.E.P.A. Region YEM WEREDA, 1994/95 (1987 E.C.).....	121
Table 2.9.1	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in HARARI REGION 1994/95 (1987 E.C.).....	122
Table 2.9.2	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in HARARI REGION 1994/95 (1987 E.C.).....	122
Table 2.10.1	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in ADDIS ABABA REGION 1994/95 (1987 E.C.).....	123
Table 2.10.2	Estimates of Quantity of Fertilizer by type of fertilizer for meher season crops of private peasant holdings in ADDIS ABABA REGION 1994/95 (1987 E.C.).....	123
Table 2.11.1	Estimates of Fertilizer applied area by type of fertilizer for meher season crops of private peasant holdings in DIRE DAWA 1994/95 (1987 E.C.).....	124

	<u>Page</u>
Table 3.1 Rate of commercial fertilizer application for major crops of meher season, private peasant holdings, NATIONAL, 1994/95(1987 E.C.).....	127
Table 3.2 Rate of commercial fertilizer application for major crops of meher season, private peasant holdings in TIGRAY REGION 1994/95(1987 E.C.)..	127
Table 3.3 Rate of commercial fertilizer application for major crops of meher season, private peasant holdings in AMHARA REGION, 1994/95(1987 E.C.)..	129
Table 3.4 Rate of commercial fertilizer application for major crops of meher season, private peasant holdings in OROMIA REGION, 1994/95(1987 E.C.)..	129
Table 3.5 Rate of commercial fertilizer application for major crops of meher season, private peasant holdings in BENSANGUL REGION, 1994/95(1987 E.C.)	130
Table 3.6 Rate of commercial fertilizer application for major crops of meher season, private peasant holdings in S.E.P.A. REGION, 1994/95(1987 E.C.).	130
Table 3.7 Rate of commercial fertilizer application for major crops of meher season, private peasant holdings in HARARI REGION, 1994/95(1987 E.C.)..	131
Table 3.8 Rate of commercial fertilizer application for major crops of meher season, private peasant holdings in ADDIS ABABA REGION,1994/95(1987 E.C.)	131

LIST OF FIGURES

	<u>Page</u>
Figure 1	Estimates of Improved seed, Irrigation, Pesticide and Fertilizer applied area for major crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.)..... 16
Figure 2	Estimates of fertilizer applied area by type of fertilizer for major crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.)..... 72
Figure 3	Estimates of quantity of commercial fertilizer applied by type for major crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.)..... 75
Figure 4	Estimates of quantity of DAP and UREA used by region 1994/95 (1987 E.C.)..... 77
Figure 5	Rate of commercial fertilizer application for major crops of private peasant holdings, NATIONAL, 1994/95 (1987 E.C.)..... 128

REPORT ON  
AGRICULTURAL PRACTICES

I. INTRODUCTION

Ethiopia's economy is predominantly agrarian and the majority of the population in the country is engaged in agriculture. In this respect, the collection of reliable, comprehensive and timely statistical information on agriculture is very essential. The information is expected to be used for the formulation of agricultural policy.

The Central Statistical Authority (CSA) has been conducting Agricultural Sample Surveys on annual basis since 1980/81 (1973 E.C.) to provide the statistical data mentioned above. The survey was interrupted in 1992/93 and 1993/94 because during these two years the CSA was fully engaged in undertaking the preparatory activities for the 1994 Population and Housing Census. However, right after undertaking the 1994 Population and Housing Census, the annual agricultural survey was resumed in November 1994.

This volume presents the objectives of the survey; coverage and content of the survey; concepts and definitions; sample design; field organization; training of field staff; method of data collection and survey results on agricultural practices. In addition the reader is referred to **Volume I** of the same survey which is "**Report on Area and Production of Major Crops; Private Holdings, Main Season, Addis Ababa, June 1995.**" That volume presents in its appendices survey questionnaires; number of sampled EAs, number of EAs that are actually covered and not covered in the

survey; number of households expected to be covered and those actually covered in the survey for the purpose of agricultural practices ( uses of improved seed, irrigation, pesticide and fertilizers), area and production of major crops and number of fields measured. Moreover, estimation procedures, standard errors and coefficient of variations for agricultural practices such as uses of improved seed, irrigation, pesticide and fertilizers during **Main (Meher) season** are presented in this report.

## **II. OBJECTIVES OF THE SURVEY.**

The general objective of the agricultural sample survey was to collect basic quantitative information on the nation's agriculture that are considered essential for development planning and socio-economic policy formulation.

In particular, the objectives of the survey were also to estimate the total cultivated land; total production and yield of major crops per hectare; land under different land uses; use of agricultural inputs by type, area , quantity and cost ; number of livestock and poultry by type, purpose, sex and age; number of beehives and honey production in the private peasant holdings at national, regional and zonal levels.

## **III. COVERAGE AND CONTENT.**

The 1994/95 (1987 E.C) annual agricultural sample survey was designed to cover sedentary rural agricultural population in all regions of the country except Somali Region. A total of 52 zones and 441 weredas were covered in the survey. The areal coverage of the survey is given in the following table.

**AREAL COVERAGE OF THE 1994/95 AGRICULTURAL SAMPLE SURVEY**

REGION	NUMBER OF ZONES			NUMBER OF WEREDAS		
	TOTAL	COVERED IN THE SURVEY	NOT COVERED IN THE SURVEY	TOTAL	COVERED IN THE SURVEY	NOT COVERED IN THE SURVEY
TIGRAY <sup>1</sup>	5	4	1	71	32	39
AFAR <sup>2</sup>	5	2	3	27	3	24
AMARA	10	10	-	127	111	16
OROMIA	12	12	-	222	196	26
SOMALI <sup>3</sup>	9	-	9	45	-	45
BENSHANGUL	3	3	-	16	5	11
S.E.P.A.R.	16	16	-	94	83	11
GAMBELA	1	1	-	7	4	3
HARARI	1	1	-	1	1	-
A. ABABA <sup>4</sup>	6	2	4	5	5	-
DIRE DAWA	1	1	-	1	1	-
<b>TOTAL</b>	<b>69</b>	<b>52</b>	<b>17</b>	<b>616</b>	<b>441</b>	<b>175</b>

**Note**

S.E.P.A.R = Southern Ethiopian Peoples' Administrative Region

- 1 - In Tigray Region, four out of five zones have rural settled population. In the remaining one zone the entire population is urban residents.
- 2 - When the sampled EAs were drawn they fall in three zones. But, during the field work, in one out of these three zones, the sampled EAs were found to be nomadic areas.
- 3 - During the field work some of the sampled EAs in the region were found to be nomadic areas. For those EAs where the population is sedentary, Somali speaking enumerators were not available in the area and hiring translators was impossible because of the high cost associated with it.
- 4 - Addis Ababa has a total of six zones, however, only two zones have rural settled population. In the remaining four zones the entire population is urban residents.

Moreover, for the survey 960 enumeration areas were selected to be covered in all regions. However, during the data collection stage the survey succeeded to cover only 884 enumeration areas (EAs). For details see appendix II of Volume I. Furthermore, from each of the selected EAs a sample of 25 agricultural households were taken.

From these households, information on area under crops, production of major crops (temporary or annual), land utilization, agricultural practices, crop damage, quantity and price of agricultural inputs used, number of livestock and poultry by type, purpose, age and sex and number of beehives by type were collected. In addition, it was attempted for the first time to collect information on the yield of permanent crops per tree, frequency of harvests in the crop year and number of yielding trees during the survey year ( For details refer to survey questionnaire in Appendix I of Volume I).

It should be noted here that of the sampled 25 agricultural households in the selected EAs the data collection on area measurement, crop cutting and agricultural practices were administered only on the first 15 households. Thus, a total of 12,793 agricultural households were covered for these exercises. In addition, area measurements of 74,874 fields with different crops belonging to these households were done. For details refer to Appendix III and IV of Volume I.

This report, which is Volume III is one of the series of other reports and volumes of the 1994/95 annual agricultural sample survey, consists of results on agricultural practices such as uses of improved seed, irrigation, pesticide, fertilizers and rate of application of commercial fertilizers by type.

#### **IV. BASIC CONCEPTS AND DEFINITIONS.**

ENUMERATION AREA (EA): An Enumeration Area in rural parts of the country is a locality that is less than or equal to a farmer's association area and usually consists of 150 - 200 households.

HOLDER: A holder is a person who exercises management control over the operations of the agricultural holding and takes the major decision regarding the utilization of the available resources. He has technical and economic responsibility for the holding. He may operate the holding directly as an owner or as a manager. Under conditions of traditional agricultural holding the holder may be regarded as the person, who with or without the help of other, operates land or raises livestock in his own right, i.e. the person who decides on what, when, where and how to grow crops or raise livestock and has the right to determine the utilization of the products.

HOLDING: a holding is all the land and livestock kept which is used wholly or partly for agricultural production and is operated as one technical unit by one person alone, or with others without regard to title, legal form, size or location.

SIZE OF HOLDING: In this report size of holding is determined by total area under different land uses such as area under temporary crops, permanent crops and other land which includes fallow land, pastoral land, woodland and forest and others.

HOUSEHOLD: A household may be either;

a) a one person household, that is a person who makes provision for his own food or other essentials for living without combining with any other person to form part of a multi person household or

b) a multi person household, that is, a group of two or more persons who live together and make common provision for food or other essentials for living. The persons in the group may pool their incomes and have a common budget to greater or lesser extent. They may be related or unrelated persons, or a combination of both. These persons are taken as members of the household.

AGRICULTURAL HOUSEHOLD: A household is considered an agricultural household when at least one member of the household is engaged in growing crops and/or breeding and raising livestock in private or in partnership with others.

TEMPORARY CROPS: Temporary crops are those crops which are grown with a cycle of under one year, sometimes only a few months with a

view to be sown anew or planted for further production after the harvest. Similarly, crops grown in rotation are also considered temporary crops as these are destroyed when land is ploughed.

Note: In this report, Other temporary includes sunflower, castor bean, ...etc. and Other vegetables include tomato, carrot, cabbage, ...etc.

PERMANENT CROPS: Crops which occupy land for a long period of time and are not planted for several years after each harvest are considered as permanent crops. All fruit trees (e.g. oranges, mandarins, apples etc.) and trees used for beverages (like coffee, tea etc.) are considered as permanent crops. Permanent meadows and pastures, however, are excluded.

Note: In this report also Other permanent includes sugarcane, gesho, cotton, ...etc.

FERTILIZER : refers to anything added to the soil intended to increase the amount of plant nutrients available for crop growth. Usually fertilizers are divided in to two parts, Natural and Commercial. Examples of Natural fertilizers are farmyard manure and wood ashes while commercial fertilizers are DAP (Di-Ammonium phosphate) and UREA (Ammonium Nitrate).

PESTICIDE: are chemicals useful for the mitigation, control or elimination of pests which are troublesome or harmful to crops. Insecticides and herbicides are included here.

AREA IRRIGATED: refers to the practice where an area of land is purposely and actually provided with water, other than by rain, for improving the production of crops. The uncontrolled flooding of

land by the overflow of rivers or streams is not considered to be irrigation.

IMPROVED SEED: is defined as crop variety which gives a significant higher yield, better quality and/or better benefit compared to traditional varieties of seeds, and usually provided by Agricultural Inputs supply corporation (AISCO) in Ethiopia.

#### **V. SAMPLE DESIGN.**

The reporting levels for the 1994/95 survey were zones in Amara, Oromia and Southern Ethiopian Peoples' Administrative Regions and regions for the remaining regions. The five special weredas of Southern Ethiopian Peoples' Administrative Region were considered as an independent zone each.

In this survey, 960 rural enumeration areas (EAs) were sampled in 11 regions. These sample EAs were allocated to the regions taking into account their relative sizes with respect to the number of households.

A two-stage stratified sample design was used for sample selection. In Amara, Oromia and Southern Ethiopia Peoples' Administrative Regions strata were zones and regions for the remaining regions. The primary sampling units in all strata were EAs and the ultimate sampling units were agricultural households.

In Oromia, Amara and Southern Ethiopian Peoples' Administrative Regions the share of each region were reallocated to the zones in the region proportional to the sizes, size being the total number of households as obtained from the listing operation in the 1994 Population and Housing Census map work.

In each stratum (zone/region) the primary sampling units (EAs) were selected with probability proportional to size without replacement, again size being the total number of household of the EA as obtained from the census map work.

From each selected EA a sample of 25 agricultural households were selected using systematic sampling technique from the identified agricultural households in the listing form (Form 1) of the 1994 Population and Housing Census. All holders in the selected agricultural households were covered by the survey.

Formula for variance calculation and the measure of precision of the results are given in Appendix I and II of this volume.

## **VI. FIELD ORGANIZATION.**

CSA branch statistical office heads, field supervisors and enumerators were fully involved in the survey. Hence, 14 statistical branch office heads, about 200 field supervisors, each supervising 5 enumerators in most cases and about 1000 enumerators

stationed in each of the selected EAs, experts from head office, other support staff and about 40 drivers were involved in the operation.

For all enumerators the necessary survey equipment, such as compass, protractor, ruler, measuring tapes, balance scale, poles, ropes, sample bags etc. were made available and to facilitate the field work about 40 vehicles were put on operation.

#### **VII. TRAINING OF FIELD STAFF.**

At the outset all relevant materials, like equipment, questionnaires and instruction manuals were prepared. Then the training programme for the field staff was carried out in two stages. In the first stage, about 90 trainees, i.e. experts from the head office, branch statistical office heads and some of the field supervisors were given training for two weeks at the head office. Those trained in the first stage conducted similar training for about 200 field supervisors and about 1000 enumerators in all the 14 branch offices all over the country. During the training, the field staff were given detailed class room instruction on the purpose of the survey, concept and definitions of terms used, method of area measurement, method of crop cutting, interviewing procedures,... etc. The training sessions included thorough field practices with regard to data collection.

### **VIII. METHOD OF DATA COLLECTION.**

The information were collected both by subjective and objective methods of data collection. Information on agricultural practices( use of fertilizer, use of pesticide, use of improved seed and use of irrigation), were collected subjectively by interviewing the holders in the first 15 out of the 25 sampled households with the exception to livestock, poultry and belg season for which data were collected by interviewing all the 25 sampled households.

Moreover, the area measurements were also done for the first 15 out of the 25 sampled households in which all crop areas and all land uses (fallow land, grazing land, wood land and other lands) were physically measured using compasses and measuring tapes.

## **IX. SURVEY RESULTS.**

### **1. Area under Farm Management Practices:**

This part deals with the total crop area on which the private peasant holders used farm management practices and these refer to practices that increase crop production and are mainly uses of improved seed, irrigation, pesticide and fertilizer. The results are summarized and presented below.

**Summary Table 1 : Area under Farm Management Practices**

Type of Management Practice	Area Applied ( '000 Hectare)
Use of Improved Seed	66.20
Use of Irrigation	71.23
Use of Pesticide	562.79
Use of Fertilizer	2129.79
Total	2729.91

#### **1.1 Total Improved Seed Applied Area.**

As indicated in Table 1.1, the total cultivated area of all crops is about 7687.84 thousand hectares. From this crop area, improved seed was applied only to 66.20 thousand hectares (0.86%). This indicates that the peasant holders used to apply largely the traditional seed rather than the improved ones, and this may have been actually due to less availability and high costs of the improved seed.

Out of the total area under improved seed, 65.37 thousand hectares was under temporary crops and 0.83 thousand hectares was under permanent crops.

### 1.2 Total Irrigated Area.

The total irrigated area at national level is about 71.23 thousand hectares or 0.93% of the total area (See Summary Table 1).

Out of the total irrigated area 88.44% was under temporary crops and 19.56% was under permanent crops. Moreover, sorghum from temporary crops and chat from permanent crops had the largest proportion of area irrigated i.e. 16.85% and 7.61% respectively (Refer to Table 1.1).

### 1.3 Total Pesticide' Applied Area.

It was mentioned above that the total cultivated land during the year 1994/95 meher season, was about 7687.84 thousand hectares out of this pesticide was applied in only 7.32%, i.e. 562.79 thousand hectares (See Summary Table 1).

The application of pesticides to the temporary crops was estimated to be 559.39 thousand hectares or 99.40% while to the permanent crops it was only 3.40 thousand hectares or 0.60% of the total area under pesticide. Moreover, out of the total area under pesticide, the largest proportion was reported under teff (39.07%) while the smallest proportion (0.01 hectare, almost 0%) was under fruits (Refer to Table 1.1).

#### 1.4 Total Fertilizer Applied Area.

Eventhough fertilizer is one of the very important agricultural inputs used to facilitate the growth of crops and to increase productivity, only 2129.79 thousand hectares ( 27.70%) of the total cultivated land, was fertilized at national level (See Summary Table above).

Out of the total fertilized area, 2031.14 thousand hectares was reported under temporary crops and the other 98.65 thousand hectares was under permanent crops. For details refer to Table 1.1.

NOTE: If in some tables figures do not add up to total it is due to rounding.

TABLE 1.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS NATIONAL\*, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	5746.01	74.74	58.87	88.93	34.71	48.73	537.40	95.49	1866.35	87.63
Teff	1843.76	23.98	15.35	23.19	6.98	9.80	219.88	39.07	814.89	38.26
Barley	879.17	11.44	2.40	3.63	4.47	6.28	40.55	7.21	264.99	12.44
Wheat	769.34	10.01	21.18	31.99	2.91	4.09	122.44	21.76	373.01	17.51
Maize	1104.70	14.37	13.71	20.71	8.25	11.58	57.35	10.19	265.64	12.47
Sorghum	886.01	11.52	5.85	8.84	12.00	16.85	74.82	13.29	58.74	2.76
Millet	228.53	2.97	0.38	0.57	0.09	0.13	21.49	3.82	77.98	3.66
Oats	34.50	0.45	-	-	0.01	0.01	0.87	0.15	11.10	0.52
PULSES	878.47	11.43	4.08	6.16	8.57	12.03	13.90	2.47	99.27	4.66
Horse Beans	341.91	4.45	1.07	1.62	0.80	1.12	4.94	0.88	49.97	2.35
Chick Peas	175.05	2.28	1.59	2.40	3.52	4.94	0.80	0.14	3.80	0.18
Haricot Bean	68.75	0.89	0.39	0.59	1.03	1.45	0.83	0.15	15.08	0.71
Field Peas	154.97	2.02	0.99	1.50	0.07	0.10	5.02	0.89	21.76	1.02
Lentils	58.00	0.75	0.00	-	0.74	1.04	0.04	0.01	5.39	0.25
Vetch	79.79	1.04	0.04	0.06	2.41	3.38	2.27	0.40	3.27	0.15
OILSEEDS	335.67	4.37	1.15	1.74	0.96	1.35	2.95	0.52	18.82	0.88
Neug	197.12	2.56	0.59	0.89	0.32	0.45	1.10	0.20	6.25	0.29
Linseed	110.92	1.44	0.55	0.83	0.04	0.06	1.83	0.33	5.97	0.28
Fenugreek	12.81	0.17	0.01	0.02	0.60	0.84	-	-	2.40	0.11
Rapeseed	14.82	0.19	-	-	-	-	0.02	0.00	4.20	0.20
Other Temporary	33.36	0.43	0.03	0.05	-	-	0.20	0.04	0.65	0.03
Spices	43.54	0.57	0.01	0.02	2.42	3.40	0.56	0.10	12.47	0.59
Potatoes	39.86	0.52	0.23	0.35	1.90	2.67	0.75	0.13	15.43	0.72
Other Vegetables	71.34	0.93	1.00	1.51	8.74	12.27	3.63	0.65	18.15	0.85
TOTAL TEMPORARY	7148.25	92.98	65.37	98.75	57.30	80.44	559.39	99.40	2031.14	95.37
Chat	53.38	0.69	0.47	0.71	5.42	7.61	1.34	0.24	9.23	0.43
Coffee	183.56	2.39	0.21	0.32	2.45	3.44	1.65	0.29	9.03	0.42
Enset	252.27	3.28	0.12	0.18	0.58	0.81	0.17	0.03	75.08	3.53
Fruits	8.03	0.10	-	-	2.58	3.62	0.01	0.00	0.52	0.02
Other Permanent	42.35	0.55	0.03	0.05	2.90	4.07	0.23	0.04	4.79	0.22
TOTAL PERMANENT	539.59	7.02	0.83	1.25	13.93	19.56	3.40	0.60	98.65	4.63
ALL CROPS	7687.84	100.00	66.20	100.00	71.23	100.00	562.79	100.00	2129.79	100.00

\* EXCLUDING SOMALI REGION AND OTHER NOMADIC AREAS.

0.00 Not Significant

- Not Reported

FIG 1. ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA FOR MAJOR CROPS OF PRIVATE PEASANT HOLDINGS, NATIONAL, 1994/95(1987 E.C.)

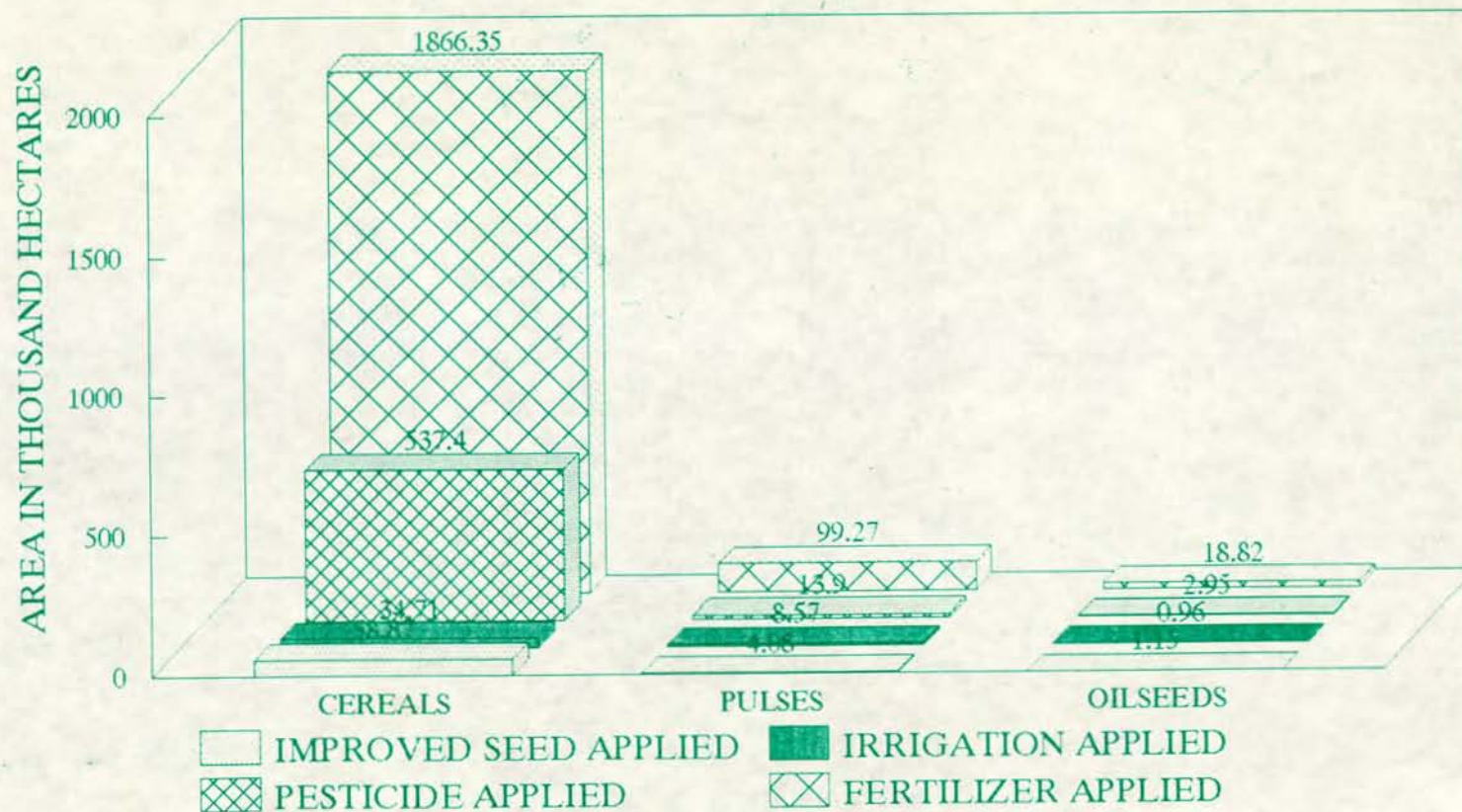


TABLE 1.2 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY REGION FOR MEHER SEASON, PRIVATE PEASANT HOLDINGS, NATIONAL\*, 1994/95 (1987 E.C.)

( '000' HA)

REGION	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
TIGRAY	507.35	6.60	9.50	14.35	6.81	9.56	98.25	17.46	74.80	3.51
AFAR	17.09	0.22	0.21	0.32	0.16	0.22	-	-	3.94	0.18
AMHARA	2688.69	34.97	10.41	15.73	30.99	43.51	52.07	9.25	557.26	26.17
OROMIA	3447.24	44.84	35.55	53.70	22.45	31.52	333.81	59.31	1165.63	54.73
BENSHANGULE	61.77	0.80	2.43	3.67	0.11	0.15	3.71	0.66	2.60	0.12
S.E.P.A.	930.49	12.10	7.62	11.51	10.26	14.40	73.47	13.05	315.30	14.80
GAMBELA	7.12	0.09	0.32	0.48	0.02	0.03	-	-	-	-
HARARI	7.31	0.10	0.02	0.03	-	-	0.22	0.04	1.54	0.07
ADDIS ABABA	10.58	0.14	0.11	0.17	0.12	0.17	0.67	0.12	8.25	0.39
DIRE DAWA	10.20	0.13	0.03	0.05	0.31	0.44	0.59	0.10	0.47	0.02
TOTAL	7687.84	100.00	66.20	100.00	71.23	100.00	562.79	100.00	2129.79	100.00

\*EXCLUDING SOMALI REGION AND OTHER NOMADIC AREAS.

- Not Reported

TABLE 1.3 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN TIGRAY REGION, 1994/95 (1987 E.C.)

(000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	461.33	90.93	9.33	98.21	6.01	88.10	95.11	96.80	70.79	94.62
Teff	116.98	23.06	5.45	57.37	0.29	4.26	20.60	20.97	23.56	31.50
Barley	104.24	20.55	0.57	6.00	0.32	4.63	4.97	5.06	8.25	11.02
Wheat	45.72	9.01	2.98	31.37	-	-	0.97	0.98	5.68	7.59
Maize	49.18	9.69	0.05	0.53	3.30	48.41	13.07	13.30	12.47	16.67
Sorghum	100.46	19.80	0.28	2.95	2.10	30.80	39.41	40.11	17.29	23.12
Millet	44.75	8.82	-	-	-	-	16.09	16.38	3.54	4.73
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	40.01	7.89	0.17	1.79	0.63	9.33	3.13	3.19	3.74	5.01
Horse Beans	8.93	1.76	-	-	-	-	0.34	0.35	0.38	0.51
Chick Peas	12.10	2.39	0.17	1.79	0.46	6.78	-	-	0.26	0.35
Haricot Bean	1.56	0.31	-	-	-	-	-	-	1.24	1.66
Field Peas	7.62	1.50	-	-	-	-	1.06	1.08	1.71	2.28
Lentils	3.75	0.74	-	-	-	-	-	-	0.08	0.11
Vetch	6.05	1.19	-	-	0.17	2.55	1.73	1.76	0.07	0.10
OILSEEDS	4.70	0.93	-	-	-	-	-	-	0.04	0.06
Neug	3.45	0.68	-	-	-	-	-	-	-	-
Linseed	1.21	0.24	-	-	-	-	-	-	0.04	0.06
Fenugreek	0.04	0.01	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.45	0.09	-	-	-	-	-	-	0.22	0.29
Spices	0.03	0.01	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.06	0.01	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	506.58	99.84	9.50	100.00	6.64	97.44	98.24	99.99	74.79	99.98
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.77	0.15	-	-	0.17	2.56	0.01	0.01	0.01	0.02
TOTAL PERMANENT	0.77	0.15	-	-	0.17	2.56	0.01	0.01	0.01	0.02
ALL CROPS	507.35	100.00	9.50	100.00	6.81	100.00	98.25	100.00	74.80	100.00

TABLE 1.4

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN AFAR REGION, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	16.51	96.64	0.21	100.00	-	-	-	-	3.94	100.00
Teff	6.32	37.01	-	-	-	-	-	-	1.74	44.06
Barley	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	0.46	2.67	-	-	-	-	-	-	0.11	2.90
Sorghum	9.73	56.96	0.21	100.00	-	-	-	-	2.09	53.03
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	0.04	0.23	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	0.04	0.23	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.06	0.36	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	16.61	97.23	0.21	100.00	-	-	-	-	3.94	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	0.33	1.91	-	-	0.16	100.00	-	-	-	-
Other Permanent	0.15	0.86	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.48	2.77	-	-	0.16	100.00	-	-	-	-
ALL CROPS	17.09	100.00	0.21	100.00	0.16	100.00	-	-	3.94	100.00

TABLE 1.5

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
 PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS  
 AMHARA REGION, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	2055.84	76.46	8.75	84.05	16.18	52.21	44.36	85.19	525.80	94.35
Teff	809.56	30.11	4.90	47.07	2.50	8.07	17.73	34.05	287.14	51.53
Barley	331.64	12.33	0.24	2.31	3.70	11.94	3.46	6.64	55.52	9.96
Wheat	240.00	8.93	2.15	20.65	1.03	3.32	3.69	7.09	49.80	8.94
Maize	226.46	8.42	0.14	1.34	1.23	3.97	8.33	16.00	66.11	11.86
Sorghum	303.36	11.28	0.94	9.03	7.62	24.59	8.18	15.71	5.81	1.04
Millet	136.40	5.07	0.38	3.65	0.09	0.29	2.96	5.68	61.41	11.02
Oats	8.42	0.31	-	-	0.01	0.03	0.01	0.02	0.01	-
PULSES	409.60	15.23	1.29	12.39	6.25	20.17	6.66	12.79	17.27	3.10
Horse Beans	145.99	5.43	-	-	0.56	1.81	3.26	6.26	8.86	1.59
Chick Peas	105.70	3.93	1.25	12.01	2.95	9.52	0.72	1.38	0.71	0.13
Haricot Bean	13.06	0.49	-	-	-	-	-	-	-	-
Field Peas	68.62	2.55	-	-	0.02	0.06	2.13	4.09	6.18	1.11
Lentils	29.96	1.11	-	-	0.48	1.55	0.02	0.04	0.99	0.18
Vetch	46.27	1.72	0.04	0.38	2.24	7.23	0.53	1.02	0.53	0.10
OILSEEDS	142.88	5.31	0.30	2.88	0.91	2.94	0.39	0.75	5.73	1.03
Neug	106.96	3.98	0.29	2.79	0.31	1.00	0.39	0.75	5.35	0.96
Linseed	25.54	0.95	-	-	-	-	-	-	0.34	0.06
Fenugreek	5.46	0.20	0.01	0.10	0.60	1.94	-	-	0.03	0.01
Rapeseed	4.92	0.18	-	-	-	-	-	-	0.01	-
Other Temporary	23.86	0.89	-	-	-	-	-	-	0.24	0.04
Spices	17.19	0.64	0.01	0.10	2.06	6.65	0.19	0.36	1.22	0.22
Potatoes	12.49	0.46	-	-	1.24	4.00	-	-	1.81	0.32
Other Vegetables	6.12	0.23	0.01	0.10	1.77	5.71	-	-	2.49	0.45
TOTAL TEMPORARY	2667.98	99.23	10.36	99.52	28.41	91.67	51.60	99.10	554.56	99.52
Chat	1.98	0.07	-	-	0.39	1.26	0.27	0.52	0.43	0.08
Coffee	6.33	0.24	0.04	0.38	1.01	3.26	0.04	0.08	0.15	0.03
Enset	0.24	0.01	-	-	-	-	-	-	-	-
Fruits	0.41	0.02	-	-	0.16	0.52	0.01	0.02	0.03	0.01
Other Permanent	11.75	0.44	0.01	0.10	1.02	3.29	0.15	0.29	2.09	0.38
TOTAL PERMANENT	20.71	0.77	0.05	0.48	2.58	8.33	0.47	0.90	2.70	0.48
ALL CROPS	2688.69	100.00	10.41	100.00	30.99	100.00	52.07	100.00	557.26	100.00

TABLE 1.5.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, AGEWAWI ZONE, 1994/95 (1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	115.14	82.80	0.37	94.87	3.58	85.32	0.90	99.76	47.31	94.18
Teff	52.09	37.46	0.17	43.59	0.80	19.07	-	-	19.27	38.36
Barley	23.01	16.55	0.12	30.77	1.90	45.22	-	-	8.64	17.21
Wheat	3.44	2.47	0.08	20.51	0.79	18.91	-	-	1.25	2.48
Maize	21.27	15.30	-	-	0.09	2.12	0.90	99.76	12.22	24.33
Sorghum	-	-	-	-	-	-	-	-	-	-
Millet	14.67	10.55	-	-	-	-	-	-	5.93	11.80
Oats	0.66	0.47	-	-	-	-	-	-	-	-
PULSES	9.48	6.81	-	-	-	-	-	-	1.19	2.35
Horse Beans	4.99	3.59	-	-	-	-	-	-	0.55	1.09
Chick Peas	1.68	1.21	-	-	-	-	-	-	0.16	0.32
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	2.76	1.98	-	-	-	-	-	-	0.48	0.95
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	0.05	0.04	-	-	-	-	-	-	-	-
OILSEEDS	9.06	6.52	-	-	-	-	-	-	0.68	1.36
Neug	8.71	6.27	-	-	-	-	-	-	0.61	1.22
Linseed	0.27	0.19	-	-	-	-	-	-	0.03	0.07
Fenugreek	0.05	0.03	-	-	-	-	-	-	0.03	0.05
Rapeseed	0.03	0.02	-	-	-	-	-	-	0.01	0.02
Other Temporary	1.94	1.40	-	-	-	-	-	-	-	-
Spices	0.25	0.18	-	-	0.06	1.38	-	-	0.05	0.09
Potatoes	1.45	1.04	-	-	0.25	6.01	-	-	0.74	1.46
Other Vegetables	0.87	0.63	0.01	2.56	0.20	4.75	-	-	0.22	0.45
TOTAL TEMPORARY	138.19	99.19	0.38	97.44	4.09	96.08	0.90	99.76	50.19	99.81
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.28	0.20	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.60	0.43	0.01	2.56	0.11	2.54	-	0.24	0.05	0.10
TOTAL PERMANENT	0.88	0.63	0.01	2.56	0.11	2.54	-	0.24	0.05	0.10
ALL CROPS	139.07	100.00	0.39	100.00	4.20	100.00	0.90	100.00	50.24	100.00

TABLE 1.5.2

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, EAST GOJAM ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	335.46	76.41	0.14	77.78	0.54	31.09	2.78	60.55	163.79	98.42
Teff	173.46	39.51	0.14	77.78	0.42	24.09	1.29	28.03	118.02	70.92
Barley	50.26	11.45	-	-	0.10	6.04	0.26	5.76	13.28	7.98
Wheat	62.74	14.29	-	-	0.02	0.96	1.23	26.76	21.02	12.63
Maize	36.09	8.22	-	-	-	-	-	-	11.47	6.89
Sorghum	12.72	2.90	-	-	-	-	-	-	-	-
Millet	0.19	0.04	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	63.93	14.56	-	-	0.10	5.86	1.81	39.45	1.48	0.89
Horse Beans	21.04	4.79	-	-	-	-	1.10	23.96	0.97	0.58
Chick Peas	12.95	2.95	-	-	0.10	5.86	-	-	-	-
Haricot Bean	3.29	0.75	-	-	-	-	-	-	-	-
Field Peas	9.45	2.15	-	-	-	-	0.61	13.31	0.33	0.20
Lentils	0.54	0.12	-	-	-	-	-	-	-	-
Vetch	16.66	3.80	-	-	-	-	0.10	2.19	0.18	0.11
OILSEEDS	29.04	6.61	-	-	-	-	-	-	0.44	0.26
Neug	20.79	4.73	-	-	-	-	-	-	0.23	0.14
Linseed	7.56	1.72	-	-	-	-	-	-	0.21	0.12
Fenugreek	0.21	0.05	-	-	-	-	-	-	-	-
Rapeseed	0.48	0.11	-	-	-	-	-	-	-	-
Other Temporary	3.24	0.74	-	-	-	-	-	-	-	-
Spices	2.13	0.49	-	-	-	-	-	-	0.36	0.21
Potatoes	3.07	0.70	-	-	0.60	34.65	-	-	0.10	0.06
Other Vegetables	0.61	0.14	-	-	0.29	16.88	-	-	-	-
TOTAL TEMPORARY	437.48	99.16	0.14	77.78	1.53	88.48	4.59	100.00	166.17	99.63
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.10	0.02	0.04	22.22	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	0.14	0.03	-	-	0.01	0.75	-	-	-	-
Other Permanent	1.29	0.29	-	-	0.19	10.78	-	-	0.25	0.15
TOTAL PERMANENT	1.53	0.35	0.04	22.22	0.20	11.52	-	-	0.25	0.15
ALL CROPS	439.01	100.00	0.18	100.00	1.73	100.00	4.59	100.00	166.42	100.00

TABLE 1.5.3

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN  
Amhara Region, WEST GOJAM ZONE, 1994/95 (1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	306.61	75.85	0.02	9.09	0.57	23.87	8.75	85.17	164.32	92.50
Teff	114.52	28.33	-	-	-	-	3.11	30.31	65.00	36.59
Barley	45.92	11.36	-	-	0.57	23.87	0.20	1.90	22.43	12.62
Wheat	9.14	2.26	-	-	-	-	-	-	5.35	3.01
Maize	74.45	18.42	0.02	9.09	-	-	5.33	51.90	30.36	17.09
Sorghum	6.65	1.65	-	-	-	-	0.11	1.06	-	-
Millet	55.24	13.67	-	-	-	-	-	-	41.18	23.18
Oats	0.69	0.17	-	-	-	-	-	-	-	-
PULSES	45.90	11.36	-	-	0.61	25.57	1.53	14.83	8.62	4.85
Horse Beans	12.53	3.10	-	-	-	-	0.74	7.17	2.72	1.53
Chick Peas	6.98	1.73	-	-	-	-	-	-	0.03	0.02
Haricot Bean	0.25	0.06	-	-	-	-	-	-	-	-
Field Peas	11.86	2.93	-	-	-	-	0.55	5.32	4.68	2.64
Lentils	2.95	0.73	-	-	-	-	-	-	0.84	0.48
Vetch	11.33	2.80	-	-	0.61	25.57	0.24	2.33	0.35	0.20
OILSEEDS	37.70	9.33	0.19	86.36	-	-	-	-	3.64	2.05
Neug	32.10	7.94	0.19	86.36	-	-	-	-	3.64	2.05
Linseed	1.25	0.31	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	4.35	1.08	-	-	-	-	-	-	-	-
Other Temporary	7.43	1.84	-	-	-	-	-	-	-	-
Spices	3.10	0.77	0.01	4.55	0.26	10.82	-	-	0.44	0.25
Potatoes	0.68	0.17	-	-	0.36	14.85	-	-	0.27	0.15
Other Vegetables	0.60	0.15	-	-	0.44	18.28	-	-	0.13	0.07
TOTAL TEMPORARY	402.02	98.69	0.22	100.00	2.24	82.57	10.28	100.00	177.42	99.62
Chat	0.05	0.01	-	-	-	0.11	-	-	0.01	-
Coffee	1.50	0.37	-	-	0.10	3.97	-	-	0.03	0.02
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.64	0.16	-	-	0.06	2.53	-	-	0.19	0.11
TOTAL PERMANENT	2.19	0.54	-	-	0.16	6.61	-	-	0.23	0.13
ALL CROPS	404.21	100.00	0.22	100.00	2.40	100.00	10.28	100.00	177.65	100.00

TABLE 1.5.4

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, NORTH GONDER ZONE, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	337.01	78.01	2.37	76.21	0.24	12.61	10.58	93.54	41.48	94.90
Teff	110.67	25.62	1.02	32.80	0.21	11.10	3.82	33.77	27.48	62.88
Barley	36.40	8.42	0.12	3.86	0.03	1.51	-	-	1.34	3.07
Wheat	16.76	3.88	-	-	-	-	-	-	0.23	0.52
Maize	27.41	6.34	0.12	3.86	-	-	1.47	13.03	5.99	13.70
Sorghum	117.00	27.08	0.94	30.23	-	-	2.70	23.84	1.45	3.32
Millet	28.77	6.66	0.17	5.47	-	-	2.59	22.89	4.99	11.41
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	48.30	11.18	0.74	23.79	0.93	48.84	0.20	1.73	0.07	0.16
Horse Beans	12.30	2.85	-	-	-	-	-	-	0.07	0.16
Chick Peas	23.28	5.39	0.74	23.79	0.93	48.84	0.20	1.73	-	-
Haricot Bean	1.30	0.30	-	-	-	-	-	-	-	-
Field Peas	7.56	1.75	-	-	-	-	-	-	-	-
Lentils	3.29	0.76	-	-	-	-	-	-	-	-
Vetch	0.57	0.13	-	-	-	-	-	-	-	-
OILSEEDS	29.86	6.91	-	-	-	-	0.39	3.45	0.56	1.29
Neug	26.39	6.11	-	-	-	-	0.39	3.45	0.56	1.29
Linseed	2.70	0.62	-	-	-	-	-	-	-	-
Fenugreek	0.77	0.18	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	3.65	0.85	-	-	-	-	-	-	0.24	0.56
Spices	5.00	1.16	-	-	0.02	1.26	-	-	0.06	0.15
Potatoes	0.24	0.06	-	-	0.03	1.59	-	-	-	-
Other Vegetables	0.61	0.14	-	-	0.18	9.50	-	-	0.08	0.18
TOTAL TEMPORARY	424.67	97.14	3.11	100.00	1.40	72.54	11.17	98.71	42.49	97.09
Chat	0.52	0.12	-	-	0.18	9.28	-	-	-	-
Coffee	1.19	0.28	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	0.06	0.02	-	-	0.03	1.61	-	-	0.03	0.07
Other Permanent	5.59	1.29	-	-	0.29	15.31	0.15	1.29	1.18	2.69
TOTAL PERMANENT	7.36	1.70	-	-	0.50	26.20	0.15	1.29	1.21	2.76
ALL CROPS	432.03	100.00	3.11	100.00	1.90	100.00	11.32	100.00	43.70	100.00

TABLE 1.5.5 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, SOUTH GONDER ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	326.52	71.97	0.80	75.47	1.06	15.04	2.68	100.00	42.83	95.19
Teff	129.09	28.45	0.33	31.13	-	-	1.21	44.98	24.21	53.81
Barley	67.28	14.83	-	-	0.63	8.93	-	-	2.41	5.36
Wheat	30.56	6.74	0.26	24.53	-	-	0.15	5.54	3.10	6.89
Maize	36.74	8.10	-	-	0.15	2.17	0.14	5.13	3.80	8.45
Sorghum	25.32	5.58	-	-	0.19	2.64	0.81	30.40	-	-
Millet	37.53	8.27	0.21	19.81	0.09	1.31	0.37	13.94	9.31	20.69
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	81.92	18.06	0.26	24.53	4.03	57.31	-	-	0.49	1.10
Horse Beans	25.60	5.64	-	-	-	-	-	-	0.26	0.58
Chick Peas	26.50	5.84	0.26	24.53	1.92	27.29	-	-	-	-
Haricot Bean	5.81	1.28	-	-	-	-	-	-	-	-
Field Peas	10.72	2.36	-	-	-	-	-	-	0.19	0.42
Lentils	5.09	1.12	-	-	0.48	6.79	-	-	0.04	0.10
Vetch	8.20	1.81	-	-	1.63	23.23	-	-	-	-
OILSEEDS	26.78	5.90	-	-	0.91	12.91	-	-	0.39	0.87
Neug	16.93	3.73	-	-	0.31	4.39	-	-	0.29	0.64
Linseed	7.68	1.69	-	-	-	-	-	-	0.10	0.23
Fenugreek	2.13	0.47	-	-	0.60	8.52	-	-	-	-
Rapeseed	0.04	0.01	-	-	-	-	-	-	-	-
Other Temporary	5.25	1.16	-	-	-	-	-	-	-	-
Spices	3.22	0.71	-	-	0.27	3.79	-	-	0.25	0.55
Potatoes	7.05	1.55	-	-	-	-	-	-	0.70	1.55
Other Vegetables	0.98	0.22	-	-	0.49	7.05	-	-	0.30	0.66
TOTAL TEMPORARY	451.72	98.86	1.06	100.00	6.76	92.31	2.68	100.00	44.96	99.37
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.44	0.10	-	-	0.06	0.78	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	0.17	0.04	-	-	0.11	1.64	-	-	-	-
Other Permanent	1.37	0.30	-	-	0.10	1.47	-	-	0.04	0.08
TOTAL PERMANENT	1.98	0.44	-	-	0.27	3.89	-	-	0.04	0.08
ALL CROPS	453.70	100.00	1.06	100.00	7.03	100.00	2.68	100.00	45.00	100.00

TABLE 1.5.6

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, NORTH SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	227.14	76.99	0.91	89.22	6.68	94.14	4.78	79.46	59.72	90.38
Teff	97.89	33.18	0.68	66.67	0.89	12.50	1.97	32.75	31.99	48.41
Barley	28.43	9.64	-	-	0.30	4.29	0.31	5.20	5.92	8.97
Wheat	39.07	13.24	0.23	22.55	-	-	0.69	11.41	18.19	27.53
Maize	8.87	3.01	-	-	0.30	4.20	0.11	1.87	0.52	0.79
Sorghum	52.88	17.92	-	-	5.19	73.14	1.70	28.23	3.10	4.69
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	58.37	19.78	-	-	-	-	1.24	20.54	4.09	6.19
Horse Beans	23.32	7.91	-	-	-	-	0.32	5.30	3.03	4.59
Chick Peas	19.31	6.55	-	-	-	-	0.17	2.77	0.52	0.79
Haricot Bean	0.26	0.09	-	-	-	-	-	-	-	-
Field Peas	4.54	1.54	-	-	-	-	0.73	12.19	0.43	0.65
Lentils	8.18	2.77	-	-	-	-	0.02	0.28	0.11	0.16
Vetch	2.76	0.94	-	-	-	-	-	-	-	-
OILSEEDS	3.86	1.31	0.11	10.78	-	-	-	-	0.02	0.03
Neug	1.62	0.55	0.10	9.80	-	-	-	-	0.02	0.03
Linseed	2.00	0.68	-	-	-	-	-	-	-	-
Fenugreek	0.22	0.07	0.01	0.98	-	-	-	-	-	-
Rapeseed	0.02	0.01	-	-	-	-	-	-	-	-
Other Temporary	0.88	0.30	-	-	-	-	-	-	-	-
Spices	0.49	0.17	-	-	0.01	0.12	-	-	0.06	0.10
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	2.01	0.68	-	-	0.02	0.34	-	-	1.76	2.67
TOTAL TEMPORARY	292.75	99.06	1.02	100.00	6.71	94.48	6.02	100.00	65.65	99.27
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	1.05	0.35	-	-	0.28	3.92	-	-	0.06	0.10
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	0.03	0.01	-	-	-	-	-	-	-	-
Other Permanent	1.19	0.40	-	-	0.10	1.48	-	-	0.36	0.54
TOTAL PERMANENT	2.27	0.77	-	-	0.38	5.40	-	-	0.42	0.63
ALL CROPS	295.02	100.00	1.02	100.00	7.09	100.00	6.02	100.00	66.07	100.00

TABLE 1.5.7 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, OROMIA ZONE, 1994/95 (1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	38.99	92.98	-	-	0.01	5.20	1.44	79.21	1.93	71.73
Teff	6.49	15.46	-	-	0.01	5.20	0.06	3.04	0.46	17.02
Barley	0.17	0.41	-	-	-	-	-	-	0.02	0.76
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	5.28	12.60	-	-	-	-	0.37	20.46	0.43	15.85
Sorghum	26.94	64.24	-	-	-	-	1.00	55.14	1.01	37.72
Millet	-	-	-	-	-	-	-	-	-	-
Oats	0.11	0.27	-	-	-	-	0.01	0.58	0.01	0.39
PULSES	1.66	3.96	-	-	0.02	5.93	0.06	3.48	0.26	9.87
Horse Beans	0.43	1.04	-	-	-	-	0.06	3.48	0.19	7.09
Chick Peas	0.08	0.19	-	-	-	-	-	-	-	-
Haricot Bean	0.71	1.69	-	-	-	-	-	-	-	-
Field Peas	0.42	1.00	-	-	0.02	5.93	-	-	0.07	2.78
Lentils	0.02	0.05	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.14	0.34	-	-	-	-	-	-	-	-
Spices	0.01	0.02	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	40.80	97.28	-	-	0.03	11.14	1.50	82.70	2.19	81.60
Chat	0.95	2.27	-	-	0.21	73.66	0.27	14.93	0.42	15.54
Coffee	0.08	0.18	-	-	0.04	15.20	0.04	2.37	0.06	2.24
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.10	0.25	-	-	-	-	-	-	0.02	0.62
TOTAL PERMANENT	1.13	2.70	-	-	0.25	88.86	0.31	17.30	0.50	18.40
ALL CROPS	41.93	100.00	-	-	0.28	100.00	1.81	100.00	2.69	100.00

TABLE 1.5.8 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, WAG-HAMRA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	44.29	79.12	1.70	94.97	0.05	29.75	2.88	100.00	0.17	100.00
Teff	10.34	18.47	1.05	58.66	0.02	12.96	1.38	48.03	0.05	29.58
Barley	13.38	23.90	-	-	-	-	0.28	9.70	0.12	70.42
Wheat	9.88	17.64	0.65	36.31	0.03	16.78	0.21	7.27	-	-
Maize	0.57	1.03	-	-	-	-	-	-	-	-
Sorghum	10.12	18.08	-	-	-	-	1.01	35.00	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	10.45	18.68	0.09	5.03	0.12	70.25	-	-	-	-
Horse Beans	3.41	6.09	-	-	0.12	70.25	-	-	-	-
Chick Peas	1.26	2.25	0.09	5.03	-	-	-	-	-	-
Haricot Bean	1.09	1.95	-	-	-	-	-	-	-	-
Field Peas	3.88	6.94	-	-	-	-	-	-	-	-
Lentils	0.81	1.45	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.04	0.07	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	0.04	0.07	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	1.20	2.14	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	55.98	100.00	1.79	100.00	0.17	100.00	2.88	100.00	0.17	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-
ALL CROPS	55.98	100.00	1.79	100.00	0.17	100.00	2.88	100.00	0.17	100.00

TABLE 1.5.9 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, NORTH WOLO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	147.47	77.04	1.89	92.20	3.05	55.86	9.57	83.98	0.96	65.43
Teff	50.62	26.44	1.28	62.44	0.15	2.70	4.89	42.90	0.22	14.97
Barley	29.87	15.60	-	-	0.17	3.16	2.41	21.14	0.09	6.23
Wheat	29.28	15.30	0.61	29.76	0.19	3.49	1.41	12.40	0.63	42.63
Maize	6.33	3.31	-	-	0.29	5.23	0.01	0.05	0.02	1.60
Sorghum	29.71	15.52	-	-	2.24	41.15	0.85	7.48	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	1.66	0.87	-	-	0.01	0.13	-	-	-	-
PULSES	37.74	19.71	0.16	7.80	0.44	8.04	1.63	14.35	0.50	33.94
Horse Beans	18.75	9.79	-	-	0.44	8.04	1.04	9.13	0.50	33.94
Chick Peas	7.94	4.15	0.16	7.80	-	-	0.35	3.11	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	5.48	2.86	-	-	-	-	0.24	2.11	-	-
Lentils	4.48	2.34	-	-	-	-	-	-	-	-
Vetch	1.09	0.57	-	-	-	-	-	-	-	-
OILSEEDS	2.19	1.14	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	1.56	0.82	-	-	-	-	-	-	-	-
Fenugreek	0.63	0.33	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.12	0.06	-	-	-	-	-	-	-	-
Spices	2.39	1.25	-	-	1.42	25.96	0.19	1.63	-	0.30
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.33	0.17	-	-	0.06	1.18	-	0.04	-	0.33
TOTAL TEMPORARY	190.24	98.12	2.05	100.00	4.97	65.09	11.39	98.37	1.46	99.70
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.84	0.44	-	-	0.34	6.29	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.37	0.19	-	-	0.14	2.61	-	-	-	-
TOTAL PERMANENT	1.21	0.63	-	-	0.48	8.95	-	-	-	-
ALL CROPS	191.45	100.00	2.05	100.00	5.45	100.00	11.39	100.00	1.46	100.00

TABLE 1.5.10 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, SOUTH WOLO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	177.21	75.00	0.55	93.22	0.40	53.42	-	-	3.29	85.20
Teff	64.39	27.25	0.23	38.98	-	-	-	-	0.44	11.50
Barley	36.92	15.62	-	-	-	-	-	-	1.27	32.87
Wheat	39.13	16.56	0.32	54.24	-	-	-	-	0.03	0.71
Maize	9.45	4.00	-	-	0.40	53.42	-	-	1.30	33.70
Sorghum	22.02	9.32	-	-	-	-	-	-	0.25	6.43
Millet	-	-	-	-	-	-	-	-	-	-
Oats	5.30	2.24	-	-	-	-	-	-	-	-
PULSES	51.85	21.94	0.04	6.78	-	-	0.19	94.36	0.57	14.65
Horse Beans	23.62	10.00	-	-	-	-	-	-	0.57	14.65
Chick Peas	5.72	2.42	-	-	-	-	-	-	-	-
Haricot Bean	0.35	0.15	-	-	-	-	-	-	-	-
Field Peas	11.95	5.06	-	-	-	-	-	-	-	-
Lentils	4.60	1.95	-	-	-	-	-	-	-	-
Vetch	5.61	2.37	0.04	6.78	-	-	0.19	94.36	-	-
OILSEEDS	4.35	1.84	-	-	-	-	-	-	-	-
Neug	0.42	0.18	-	-	-	-	-	-	-	-
Linseed	2.48	1.05	-	-	-	-	-	-	-	-
Fenugreek	1.45	0.61	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.01	-	-	-	-	-	-	-	-	-
Spices	0.60	0.25	-	-	0.02	2.88	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.11	0.05	-	-	0.09	12.00	-	-	-	-
TOTAL TEMPORARY	234.13	98.83	0.59	100.00	0.51	65.42	0.19	94.36	3.86	99.84
Chat	0.46	0.19	-	-	-	-	-	-	-	-
Coffee	0.85	0.36	-	-	0.19	25.55	-	-	-	-
Enset	0.24	0.10	-	-	-	-	-	-	-	0.10
Fruits	0.01	-	-	-	0.01	1.53	0.01	5.64	-	-
Other Permanent	0.60	0.25	-	-	0.03	4.63	-	-	-	0.06
TOTAL PERMANENT	2.16	0.92	-	-	0.23	31.70	0.01	5.64	-	0.16
ALL CROPS	236.29	100.00	0.59	100.00	0.74	100.00	0.20	100.00	3.86	100.00

TABLE 1.6

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS  
OROMIA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	2614.27	75.84	33.24	93.50	7.77	34.61	322.12	96.50	1065.07	91.37
Teff	754.69	21.89	1.93	5.43	2.87	12.78	156.54	46.89	430.64	36.94
Barley	370.39	10.74	1.51	4.25	0.39	1.74	29.28	8.77	178.50	15.31
Wheat	406.23	11.78	14.82	41.69	1.85	8.24	82.60	24.74	263.52	22.61
Maize	663.11	19.24	10.61	29.85	1.61	7.17	28.98	8.68	143.28	12.29
Sorghum	355.64	10.32	4.37	12.29	1.05	4.68	23.17	6.94	27.42	2.35
Millet	38.42	1.11	-	-	-	-	0.69	0.21	10.65	0.91
Oats	25.79	0.75	-	-	-	-	0.86	0.26	11.06	0.95
PULSES	341.75	9.91	0.67	1.88	1.61	7.17	2.32	0.70	54.07	4.64
Horse Beans	146.17	4.24	0.21	0.59	0.24	1.07	0.80	0.24	28.94	2.48
Chick Peas	49.26	1.43	-	-	0.08	0.36	0.08	0.02	2.36	0.20
Haricot Bean	40.37	1.17	0.27	0.76	1.03	4.59	0.83	0.25	9.52	0.82
Field Peas	56.55	1.64	0.19	0.53	-	-	0.61	0.18	6.72	0.58
Lentils	22.87	0.66	-	-	0.26	1.16	-	-	4.01	0.34
Vetch	26.53	0.77	-	-	-	-	-	-	2.52	0.22
OILSEEDS	182.23	5.29	0.85	2.39	0.05	0.22	2.53	0.76	11.95	1.03
Neug	82.07	2.38	0.30	0.84	0.01	0.04	0.68	0.20	0.90	0.08
Linseed	84.14	2.44	0.55	1.55	0.04	0.18	1.83	0.55	5.59	0.48
Fenugreek	6.12	0.18	-	-	-	-	-	-	1.27	0.11
Rapeseed	9.90	0.29	-	-	-	-	0.02	0.01	4.19	0.36
Other Temporary	7.10	0.21	0.03	0.08	-	-	0.20	0.06	0.16	0.01
Spices	8.56	0.25	-	-	0.36	1.60	0.18	0.05	2.03	0.17
Potatoes	18.90	0.55	0.08	0.23	0.51	2.27	0.47	0.14	9.11	0.78
Other Vegetables	25.83	0.75	0.34	0.96	5.18	23.07	3.24	0.97	5.19	0.45
TOTAL TEMPORARY	3198.64	92.79	35.21	99.04	15.48	68.95	331.06	99.18	1147.58	98.45
Chat	37.58	1.09	0.27	0.76	4.64	20.67	1.07	0.32	4.62	0.40
Coffee	125.96	3.65	0.07	0.20	1.04	4.63	1.59	0.48	1.74	0.15
Enset	73.51	2.13	-	-	0.15	0.67	0.04	0.01	10.55	0.91
Fruits	2.41	0.07	-	-	0.26	1.16	-	-	0.05	-
Other Permanent	9.14	0.27	-	-	0.88	3.92	0.05	0.01	1.09	0.09
TOTAL PERMANENT	248.60	7.21	0.34	0.96	6.97	31.05	2.75	0.82	18.05	1.55
ALL CROPS	3447.24	100.00	35.55	100.00	22.45	100.00	333.81	100.00	1165.63	100.00

TABLE 1.6.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, ARSI ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA )									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	424.76	79.54	12.06	100.00	1.45	61.30	89.40	97.82	298.45	88.55
Teff	64.20	12.02	-	-	0.07	2.92	20.49	22.41	43.07	12.78
Barley	118.98	22.28	-	-	0.18	7.66	12.98	14.21	98.24	29.15
Wheat	149.56	28.01	12.06	100.00	1.12	47.48	50.35	55.09	137.76	40.87
Maize	72.65	13.60	-	-	0.08	3.25	3.50	3.83	12.40	3.68
Sorghum	13.85	2.59	-	-	-	-	1.59	1.74	1.73	0.51
Millet	-	-	-	-	-	-	-	-	-	-
Oats	5.52	1.03	-	-	-	-	0.49	0.54	5.25	1.56
PULSES	45.74	8.56	-	-	0.14	5.97	0.47	0.51	24.06	7.14
Horse Beans	31.65	5.93	-	-	0.14	5.97	0.47	0.51	20.47	6.07
Chick Peas	1.12	0.21	-	-	-	-	-	-	-	-
Haricot Bean	4.40	0.82	-	-	-	-	-	-	-	-
Field Peas	5.36	1.00	-	-	-	-	-	-	2.65	0.79
Lentils	1.78	0.33	-	-	-	-	-	-	0.86	0.26
Vetch	1.43	0.27	-	-	-	-	-	-	0.08	0.02
OILSEEDS	48.14	9.02	-	-	0.05	1.97	0.70	0.77	8.52	2.53
Neug	4.02	0.75	-	-	0.01	0.40	-	-	0.01	-
Linseed	39.79	7.45	-	-	0.04	1.57	0.70	0.77	4.75	1.41
Fenugreek	0.51	0.10	-	-	-	-	-	-	0.16	0.05
Rapeseed	3.82	0.72	-	-	-	-	-	-	3.60	1.07
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	2.24	0.42	-	-	-	-	0.18	0.20	0.30	0.09
Potatoes	1.65	0.31	-	-	0.01	0.58	-	-	0.81	0.24
Other Vegetables	3.42	0.64	-	-	0.07	2.79	0.10	0.11	1.82	0.54
TOTAL TEMPORARY	525.95	98.07	12.06	100.00	1.72	72.62	90.85	99.21	333.96	99.00
Chat	0.78	0.15	-	-	0.26	11.14	0.02	0.02	0.36	0.11
Coffee	3.18	0.60	-	-	0.29	12.08	0.47	0.51	0.15	0.04
Enset	2.29	0.43	-	-	-	-	-	-	2.22	0.66
Fruits	0.05	0.01	-	-	0.01	0.61	-	-	0.01	-
Other Permanent	1.75	0.33	-	-	0.08	3.55	0.05	0.05	0.34	0.10
TOTAL PERMANENT	8.05	1.51	-	-	0.64	27.38	0.54	0.59	3.08	0.91
ALL CROPS	534.00	100.00	12.06	100.00	2.36	100.00	91.39	100.00	337.04	100.00

TABLE 1.6.2 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, BALE ZONE, 1994/95 (1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	151.92	73.00	0.65	100.00	0.23	69.66	13.26	99.66	56.22	96.58
Teff	16.62	7.99	0.11	16.92	0.01	2.77	2.37	17.81	1.14	1.96
Barley	37.66	18.10	-	-	-	-	3.93	29.54	18.72	32.17
Wheat	60.00	28.83	0.54	83.08	-	-	6.52	49.01	30.42	52.25
Maize	13.17	6.33	-	-	0.22	66.89	0.07	0.52	0.19	0.33
Sorghum	7.96	3.82	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	16.51	7.93	-	-	-	-	0.37	2.80	5.75	9.87
PULSES	22.50	10.81	-	-	-	-	-	-	1.52	2.61
Horse Beans	8.20	3.94	-	-	-	-	-	-	0.52	0.90
Chick Peas	1.08	0.52	-	-	-	-	-	-	-	-
Haricot Bean	0.35	0.17	-	-	-	-	-	-	-	-
Field Peas	10.49	5.04	-	-	-	-	-	-	0.55	0.95
Lentils	1.51	0.72	-	-	-	-	-	-	0.42	0.71
Vetch	0.87	0.42	-	-	-	-	-	-	0.03	0.05
OILSEEDS	18.34	8.81	-	-	-	-	-	-	0.25	0.43
Neug	0.06	0.03	-	-	-	-	-	-	-	-
Linseed	17.38	8.35	-	-	-	-	-	-	0.09	0.16
Fenugreek	0.89	0.43	-	-	-	-	-	-	0.16	0.27
Rapeseed	0.01	-	-	-	-	-	-	-	-	-
Other Temporary	0.03	0.01	-	-	-	-	-	-	-	-
Spices	0.21	0.10	-	-	-	-	-	-	-	-
Potatoes	0.03	0.01	-	-	-	-	-	-	-	-
Other Vegetables	0.67	0.32	-	-	-	-	-	-	0.07	0.12
TOTAL TEMPORARY	193.70	92.96	0.65	100.00	0.23	69.66	13.26	99.66	58.06	99.75
Chat	1.32	0.64	-	-	0.08	24.48	-	-	0.09	0.16
Coffee	2.30	1.11	-	-	-	-	0.04	0.34	-	-
Enset	10.03	4.82	-	-	-	-	-	-	0.05	0.09
Fruits	0.13	0.06	-	-	-	-	-	-	-	-
Other Permanent	0.65	0.31	-	-	0.02	5.87	-	-	-	-
TOTAL PERMANENT	14.43	6.93	-	-	0.10	30.34	0.04	0.34	0.14	0.25
ALL CROPS	208.13	100.00	0.65	100.00	0.33	100.00	13.30	100.00	58.20	100.00

TABLE 1.6.3

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, BORENA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	54.36	45.89	0.51	100.00	0.05	9.63	-	-	0.47	50.08
Teff	8.91	7.52	0.17	33.33	-	-	-	-	0.07	7.03
Barley	16.17	13.65	-	-	-	-	-	-	-	-
Wheat	4.76	4.02	0.29	56.86	-	-	-	-	0.29	30.89
Maize	23.41	19.76	0.05	9.80	0.05	9.63	-	-	0.11	12.16
Sorghum	1.11	0.94	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	5.18	4.37	-	-	-	-	-	-	-	-
Horse Beans	1.18	1.00	-	-	-	-	-	-	-	-
Chick Peas	0.39	0.33	-	-	-	-	-	-	-	-
Haricot Bean	1.99	1.68	-	-	-	-	-	-	-	-
Field Peas	1.62	1.37	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	0.10	0.08	-	-	-	-	-	-	-	-
Potatoes	0.09	0.07	-	-	-	-	-	-	-	-
Other Vegetables	0.54	0.46	-	-	-	-	-	-	0.01	1.06
TOTAL TEMPORARY	60.27	50.79	0.51	100.00	0.05	9.63	-	-	0.48	51.14
Chat	0.95	0.80	-	-	-	-	-	-	-	-
Coffee	14.53	12.26	-	-	-	-	-	-	-	-
Enset	40.64	34.30	-	-	-	-	-	-	0.45	48.86
Fruits	0.12	0.10	-	-	-	-	-	-	-	-
Other Permanent	1.98	1.67	-	-	0.43	90.37	-	-	-	-
TOTAL PERMANENT	58.22	49.13	-	-	0.43	90.37	-	-	0.45	48.86
ALL CROPS	118.49	100.00	0.51	100.00	0.48	100.00	-	-	0.93	100.00

TABLE 1.6.4 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, EAST HARERGE ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	148.19	78.20	3.71	88.33	1.18	23.69	17.27	89.23	26.76	82.40
Teff	6.50	3.43	-	-	0.19	3.82	0.65	3.34	1.09	3.35
Barley	3.66	1.93	-	-	-	-	-	-	0.31	0.96
Wheat	8.19	4.32	0.03	0.71	0.00	0.00	0.24	1.24	2.12	6.54
Maize	45.36	23.94	0.06	1.43	0.18	3.66	7.12	36.79	8.64	26.61
Sorghum	84.32	44.50	3.62	86.19	0.81	16.21	9.26	47.86	14.54	44.76
Millet	-	-	-	-	-	-	-	-	-	-
Oats	0.16	0.08	-	-	-	-	-	-	0.06	0.18
PULSES	6.18	3.26	-	-	-	-	-	-	0.45	1.40
Horse Beans	4.58	2.41	-	-	-	-	-	-	0.38	1.17
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	0.13	0.07	-	-	-	-	-	-	-	-
Field Peas	1.30	0.68	-	-	-	-	-	-	0.07	0.23
Lentils	0.17	0.09	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.59	0.31	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	0.52	0.28	-	-	-	-	-	-	-	-
Fenugreek	0.07	0.04	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	5.02	2.65	-	-	-	-	0.20	1.03	-	-
Spices	0.07	0.04	-	-	-	-	-	-	0.07	0.21
Potatoes	2.28	1.20	0.02	0.48	0.36	7.28	0.09	0.47	0.77	2.39
Other Vegetables	6.81	3.59	0.34	8.10	0.81	16.21	0.14	0.72	1.04	3.22
TOTAL TEMPORARY	169.14	89.22	4.07	96.90	2.35	47.18	17.70	91.44	29.09	89.41
Chat	18.15	9.58	0.09	2.14	2.31	46.09	0.66	3.40	2.50	7.69
Coffee	2.03	1.07	0.04	0.95	0.29	5.74	1.00	5.16	0.87	2.69
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	0.05	0.02	-	-	0.01	0.12	-	-	-	-
Other Permanent	0.13	0.07	-	-	0.04	0.86	-	-	-	-
TOTAL PERMANENT	20.36	10.74	0.13	3.10	2.65	52.82	1.66	8.56	3.37	10.38
ALL CROPS	189.50	100.00	4.20	100.00	5.00	100.00	19.36	100.00	32.46	100.00

TABLE 1.6.5

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
 PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN  
 Oromia Region, WEST HARERGE ZONE, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	131.40	80.73	0.48	69.57	0.17	7.55	5.98	90.23	5.15	80.09
Teff	3.07	1.89	-	-	-	-	-	-	0.39	6.12
Barley	2.68	1.65	-	-	-	-	0.08	1.14	0.37	5.73
Wheat	0.75	0.46	0.11	15.94	-	-	-	-	-	-
Maize	33.65	20.67	0.37	53.62	0.13	5.66	1.29	19.52	1.67	25.93
Sorghum	90.81	55.79	-	-	0.04	1.89	4.61	69.58	2.72	42.30
Millet	-	-	-	-	-	-	-	-	-	-
Oats	0.44	0.27	-	-	-	-	-	-	-	-
PULSES	4.27	2.63	-	-	-	-	0.24	3.62	0.04	0.55
Horse Beans	2.32	1.42	-	-	-	-	-	-	0.04	0.55
Chick Peas	0.73	0.45	-	-	-	-	0.08	1.23	-	-
Haricot Bean	0.95	0.58	-	-	-	-	0.16	2.39	-	-
Field Peas	0.06	0.04	-	-	-	-	-	-	-	-
Lentils	0.21	0.13	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.75	0.46	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	0.30	0.19	-	-	-	-	-	-	-	-
Fenugreek	0.45	0.27	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	0.97	0.59	-	-	-	-	-	-	-	-
Potatoes	0.22	0.14	-	-	0.02	1.06	-	-	-	-
Other Vegetables	1.54	0.95	-	-	0.05	2.26	-	-	0.03	0.45
TOTAL TEMPORARY	139.15	84.90	0.48	69.57	0.24	10.88	6.22	93.85	5.22	81.09
Chat	11.02	6.77	0.18	26.09	1.76	76.54	0.39	5.91	1.16	18.07
Coffee	12.37	7.60	0.03	4.35	0.24	10.34	0.02	0.23	0.05	0.84
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.21	0.13	-	-	0.05	2.24	-	-	-	-
TOTAL PERMANENT	23.60	14.50	0.21	30.43	2.05	89.12	0.41	6.15	1.21	18.91
ALL CROPS	162.75	100.00	0.69	100.00	2.29	100.00	6.63	100.00	6.43	100.00

TABLE 1.6.6 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, ILUBABOR ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	140.61	73.37	0.65	72.22	-	-	3.31	95.56	19.11	95.45
Teff	48.44	25.27	0.65	72.22	-	-	2.88	83.23	12.57	62.78
Barley	9.08	4.74	-	-	-	-	-	-	2.24	11.19
Wheat	1.61	0.84	-	-	-	-	-	-	-	-
Maize	56.08	29.26	-	-	-	-	0.43	12.33	3.74	18.67
Sorghum	21.38	11.15	-	-	-	-	-	-	0.56	2.82
Millet	4.02	2.10	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	22.87	11.94	0.25	27.78	-	-	0.15	4.44	0.30	1.49
Horse Beans	11.89	6.21	0.06	6.67	-	-	0.06	1.70	0.11	0.55
Chick Peas	0.62	0.32	-	-	-	-	-	-	-	-
Haricot Bean	1.96	1.02	-	-	-	-	-	-	-	-
Field Peas	8.20	4.28	0.19	21.11	-	-	0.09	2.75	0.19	0.94
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	0.20	0.11	-	-	-	-	-	-	-	-
OILSEEDS	1.32	0.69	-	-	-	-	-	-	-	-
Neug	0.92	0.48	-	-	-	-	-	-	-	-
Linseed	0.15	0.08	-	-	-	-	-	-	-	-
Fenugreek	0.25	0.13	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.05	0.02	-	-	-	-	-	-	-	-
Spices	1.11	0.58	-	-	-	-	-	-	-	-
Potatoes	0.03	0.01	-	-	-	-	-	-	-	-
Other Vegetables	0.17	0.09	-	-	-	-	-	-	0.01	0.05
TOTAL TEMPORARY	166.16	86.12	0.90	100.00	-	-	3.46	100.00	19.42	96.99
Chat	2.22	1.16	-	-	-	-	-	-	0.13	0.65
Coffee	18.65	9.73	-	-	-	-	-	-	-	-
Enset	3.14	1.64	-	-	-	-	-	-	0.47	2.36
Fruits	0.59	0.31	-	-	-	-	-	-	-	-
Other Permanent	0.90	0.47	-	-	-	-	-	-	-	-
TOTAL PERMANENT	25.50	13.30	-	-	-	-	-	-	0.60	3.01
ALL CROPS	191.66	100.00	0.90	100.00	-	-	3.46	100.00	20.02	100.00

TABLE 1.6.7

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, JIMA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	204.72	77.57	1.80	100.00	-	-	41.60	99.78	61.77	96.99
Teff	76.41	28.95	0.32	17.78	-	-	29.25	70.18	39.86	62.58
Barley	14.93	5.66	-	-	-	-	0.22	0.52	-	-
Wheat	12.86	4.87	-	-	-	-	1.31	3.15	0.76	1.20
Maize	66.67	25.26	1.48	82.22	-	-	6.27	15.03	20.77	32.61
Sorghum	29.26	11.09	-	-	-	-	4.50	10.79	0.38	0.60
Millet	3.68	1.39	-	-	-	-	0.05	0.11	-	-
Oats	0.91	0.34	-	-	-	-	-	-	-	-
PULSES	15.08	5.71	-	-	-	-	0.08	0.18	0.11	0.18
Horse Beans	12.96	4.91	-	-	-	-	-	-	0.08	0.13
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	0.96	0.36	-	-	-	-	0.08	0.18	0.03	0.04
Field Peas	0.81	0.31	-	-	-	-	-	-	-	-
Lentils	0.35	0.13	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	2.98	1.13	-	-	-	-	0.01	0.03	0.03	0.05
Neug	2.52	0.96	-	-	-	-	-	-	-	-
Linseed	0.46	0.17	-	-	-	-	0.01	0.03	0.03	0.05
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	0.11	0.04	-	-	-	-	-	-	-	-
Potatoes	0.09	0.04	-	-	-	-	-	-	0.01	0.02
Other Vegetables	4.03	1.53	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	227.01	85.97	1.80	100.00	-	-	41.69	99.99	62.60	98.27
Chat	1.85	0.70	-	-	0.13	100.00	-	-	0.22	0.34
Coffee	25.09	9.51	-	-	-	-	-	-	0.06	0.09
Enset	9.04	3.43	-	-	-	-	0.01	0.01	0.74	1.17
Fruits	0.41	0.16	-	-	-	-	-	-	-	-
Other Permanent	0.52	0.20	-	-	-	-	-	-	0.08	0.12
TOTAL PERMANENT	36.91	13.98	-	-	0.13	100.00	0.01	0.01	1.10	1.72
ALL CROPS	263.92	100.00	1.80	100.00	0.13	100.00	41.70	100.00	63.70	100.00

TABLE 1.6.8 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, EAST SHEWA ZONE, 1994/95 (1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	325.81	82.74	8.31	96.18	—	—	54.25	93.21	182.73	89.89
Teff	111.46	28.31	0.18	2.08	—	—	35.70	61.35	100.54	49.46
Barley	8.78	2.23	—	—	—	—	3.04	5.22	4.55	2.24
Wheat	37.75	9.59	0.23	2.66	—	—	11.87	20.39	32.74	16.10
Maize	157.86	40.09	7.70	89.12	—	—	3.42	5.87	43.44	21.37
Sorghum	9.21	2.34	0.20	2.31	—	—	0.22	0.38	1.38	0.68
Millet	0.48	0.12	—	—	—	—	—	—	0.08	0.04
Oats	0.27	0.07	—	—	—	—	—	—	—	—
PULSES	50.90	12.93	0.27	3.13	1.03	23.93	0.59	1.01	13.96	6.87
Horse Beans	5.93	1.51	—	—	—	—	—	—	0.44	0.22
Chick Peas	8.25	2.09	—	—	—	—	—	—	1.04	0.51
Haricot Bean	24.33	6.18	0.27	3.13	1.03	23.93	0.59	1.01	9.45	4.65
Field Peas	2.70	0.69	—	—	—	—	—	—	0.80	0.39
Lentils	6.62	1.68	—	—	—	—	—	—	1.70	0.84
Vetch	3.07	0.78	—	—	—	—	—	—	0.53	0.26
OILSEEDS	1.12	0.29	—	—	—	—	—	—	0.08	0.04
Neug	—	—	—	—	—	—	—	—	—	—
Linseed	0.03	0.01	—	—	—	—	—	—	—	—
Fenugreek	1.08	0.28	—	—	—	—	—	—	0.08	0.04
Rapeseed	0.01	—	—	—	—	—	—	—	—	—
Other Temporary	0.20	0.05	—	—	—	—	—	—	0.09	0.05
Spices	0.55	0.14	—	—	—	—	—	—	0.32	0.16
Potatoes	11.12	2.82	0.06	0.69	—	—	0.38	0.65	5.98	2.94
Other Vegetables	3.80	0.96	—	—	3.26	76.03	2.98	5.13	0.06	0.03
TOTAL TEMPORARY	393.50	99.80	8.64	100.00	4.29	100.00	58.20	100.00	203.22	99.82
Chat	—	—	—	—	—	—	—	—	—	—
Coffee	—	—	—	—	—	—	—	—	—	—
Enset	0.01	—	—	—	—	—	—	—	—	—
Fruits	—	—	—	—	—	—	—	—	—	—
Other Permanent	0.23	0.06	—	—	—	—	—	—	0.05	0.02
TOTAL PERMANENT	0.24	0.06	—	—	—	—	—	—	0.05	0.02
ALL CROPS	393.74	100.00	8.64	100.00	4.29	100.00	58.20	100.00	203.27	100.00

TABLE 1.6.9

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, NORTH SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	193.72	76.37	0.77	100.00	1.10	83.97	11.56	98.86	54.51	95.49
Teff	84.06	33.14	0.15	19.48	0.75	56.88	9.86	84.38	35.47	62.12
Barley	54.57	21.51	-	-	-	-	0.89	7.59	1.30	2.28
Wheat	35.32	13.92	0.11	14.29	-	-	0.80	6.82	16.52	28.93
Maize	3.39	1.33	-	-	0.15	11.62	0.01	0.07	1.00	1.76
Sorghum	15.55	6.13	0.51	66.23	0.20	15.47	-	-	0.22	0.39
Millet	-	-	-	-	-	-	-	-	-	-
Oats	0.83	0.33	-	-	-	-	-	-	-	-
PULSES	42.72	16.84	-	-	-	-	0.13	1.14	1.36	2.38
Horse Beans	18.59	7.33	-	-	-	-	-	-	0.62	1.08
Chick Peas	7.03	2.77	-	-	-	-	-	-	0.49	0.86
Haricot Bean	0.45	0.18	-	-	-	-	-	-	-	-
Field Peas	7.70	3.04	-	-	-	-	0.13	1.14	-	-
Lentils	3.69	1.46	-	-	-	-	-	-	0.25	0.43
Vetch	5.26	2.08	-	-	-	-	-	-	-	-
OILSEEDS	15.04	5.93	-	-	-	-	-	-	1.07	1.87
Neug	11.67	4.60	-	-	-	-	-	-	0.26	0.45
Linseed	1.73	0.68	-	-	-	-	-	-	-	-
Fenugreek	1.63	0.64	-	-	-	-	-	-	0.81	1.42
Rapeseed	0.01	-	-	-	-	-	-	-	-	-
Other Temporary	1.22	0.48	-	-	-	-	-	-	-	-
Spices	0.10	0.04	-	-	0.04	2.95	-	-	-	-
Potatoes	0.14	0.05	-	-	0.03	2.05	-	-	0.06	0.10
Other Vegetables	0.36	0.14	-	-	0.07	5.53	-	-	0.03	0.06
TOTAL TEMPORARY	253.30	99.81	0.77	100.00	1.24	91.54	11.69	100.00	57.03	99.89
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.09	0.04	-	-	-	0.19	-	-	-	-
Enset	0.01	-	-	-	0.01	0.61	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.27	0.11	-	-	0.06	4.72	-	-	0.06	0.11
TOTAL PERMANENT	0.37	0.15	-	-	0.07	5.51	-	-	0.06	0.11
ALL CROPS	253.67	100.00	0.77	100.00	1.31	100.00	11.69	100.00	57.09	100.00

TABLE 1.6.10 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, WEST SHEWA ZONE, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	415.23	73.80	2.88	78.26	3.26	62.27	73.94	97.59	223.02	92.79
Teff	194.04	34.49	—	—	1.52	28.94	50.27	66.35	118.27	49.21
Barley	82.32	14.63	1.51	41.03	0.21	4.07	8.14	10.75	50.07	20.83
Wheat	77.59	13.79	1.29	35.05	0.73	13.95	11.51	15.19	41.61	17.31
Maize	39.69	7.05	0.08	2.17	0.80	15.31	1.78	2.35	11.92	4.96
Sorghum	20.88	3.71	—	—	—	—	2.24	2.96	1.15	0.48
Millet	0.08	0.01	—	—	—	—	—	—	—	—
Oats	0.63	0.11	—	—	—	—	—	—	—	—
PULSES	82.46	14.66	0.15	4.08	0.44	8.42	0.66	0.87	7.39	3.08
Horse Beans	25.83	4.59	0.15	4.08	0.10	1.95	0.27	0.35	2.86	1.19
Chick Peas	27.49	4.89	—	—	0.08	1.58	—	—	0.79	0.33
Haricot Bean	—	—	—	—	—	—	—	—	—	—
Field Peas	6.51	1.16	—	—	—	—	0.39	0.51	1.43	0.60
Lentils	7.89	1.40	—	—	0.26	4.89	—	—	0.56	0.23
Vetch	14.74	2.62	—	—	—	—	—	—	1.75	0.73
OILSEEDS	53.46	9.50	0.62	16.85	—	—	1.14	1.50	1.24	0.51
Neug	26.67	4.74	0.07	1.90	—	—	—	—	0.19	0.08
Linseed	21.10	3.75	0.55	14.95	—	—	1.12	1.47	0.60	0.25
Fenugreek	0.90	0.16	—	—	—	—	—	—	0.06	0.03
Rapeseed	4.79	0.85	—	—	—	—	0.02	0.03	0.39	0.16
Other Temporary	0.07	0.01	0.03	0.82	—	—	—	—	—	—
Spices	0.36	0.06	—	—	0.30	5.72	—	—	0.36	0.15
Potatoes	0.21	0.04	—	—	0.09	1.68	—	—	0.18	0.07
Other Vegetables	1.61	0.29	—	—	0.90	17.17	—	—	1.10	0.46
TOTAL TEMPORARY	553.40	98.29	3.68	100.00	4.99	89.55	75.74	99.96	233.29	96.91
Chat	0.28	0.05	—	—	0.02	0.37	—	—	0.13	0.05
Coffee	—	—	—	—	—	—	—	—	—	—
Enset	8.18	1.45	—	—	0.14	2.59	0.03	0.04	6.60	2.75
Fruits	0.02	—	—	—	—	—	—	—	0.02	0.01
Other Permanent	0.77	0.14	—	—	0.09	1.78	—	—	0.31	0.13
TOTAL PERMANENT	9.25	1.64	—	—	0.25	4.73	0.03	0.04	7.06	2.94
ALL CROPS	562.65	100.00	3.68	100.00	5.24	100.00	75.77	100.00	240.35	100.00

TABLE 1.6.11 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, EAST WELEGA ZONE, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	208.84	75.77	0.87	79.09	0.33	77.33	10.71	93.92	94.61	94.21
Teff	96.80	35.12	-	-	0.33	77.33	5.07	44.49	62.38	62.11
Barley	18.05	6.55	-	-	-	-	-	-	2.51	2.50
Wheat	12.65	4.59	0.16	14.55	-	-	-	-	1.29	1.28
Maize	58.88	21.36	0.67	60.91	-	-	4.64	40.70	21.80	21.71
Sorghum	12.83	4.66	0.04	3.64	-	-	0.48	4.17	1.70	1.69
Millet	9.56	3.47	-	-	-	-	0.52	4.56	4.93	4.91
Oats	0.07	0.02	-	-	-	-	-	-	-	-
PULSES	21.91	7.95	-	-	-	-	-	-	3.70	3.69
Horse Beans	12.28	4.45	-	-	-	-	-	-	2.51	2.50
Chick Peas	0.07	0.03	-	-	-	-	-	-	0.03	0.03
Haricot Bean	0.03	0.01	-	-	-	-	-	-	-	-
Field Peas	8.88	3.22	-	-	-	-	-	-	0.94	0.94
Lentils	0.65	0.23	-	-	-	-	-	-	0.22	0.22
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	34.24	12.42	0.23	20.91	-	-	0.68	5.93	0.72	0.72
Neug	30.54	11.08	0.23	20.91	-	-	0.68	5.93	0.40	0.40
Linseed	2.68	0.97	-	-	-	-	-	-	0.12	0.12
Fenugreek	0.05	0.02	-	-	-	-	-	-	-	-
Rapeseed	0.97	0.35	-	-	-	-	-	-	0.20	0.20
Other Temporary	0.51	0.19	-	-	-	-	-	-	0.07	0.07
Spices	1.39	0.50	-	-	0.02	4.43	-	-	0.76	0.76
Potatoes	0.75	0.27	-	-	-	-	-	-	0.21	0.20
Other Vegetables	0.97	0.35	-	-	-	-	0.02	0.15	0.22	0.22
TOTAL TEMPORARY	268.61	96.95	1.10	100.00	0.35	77.33	11.41	100.00	100.29	99.11
Chat	0.14	0.05	-	-	-	-	-	-	0.03	0.03
Coffee	5.93	2.15	-	-	0.02	5.44	-	-	0.03	0.03
Enset	0.07	0.03	-	-	-	-	-	-	0.02	0.02
Fruits	0.15	0.06	-	-	0.03	6.84	-	-	-	-
Other Permanent	0.72	0.26	-	-	0.03	5.96	-	-	0.05	0.05
TOTAL PERMANENT	7.01	2.55	-	-	0.08	18.24	-	-	0.13	0.13
ALL CROPS	275.62	100.00	1.10	100.00	0.43	100.00	11.41	100.00	100.42	100.00

TABLE 1.6.12 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MLHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, WEST WELEGA ZONE, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	214.71	73.26	0.55	100.00	--	--	0.84	92.85	42.27	92.46
Teff	44.18	15.07	0.35	63.64	--	--	--	--	15.79	34.55
Barley	3.51	1.20	--	--	--	--	--	--	0.19	0.41
Wheat	5.19	1.77	--	--	--	--	--	--	0.01	0.03
Maize	92.30	31.49	0.20	36.36	--	--	0.45	50.04	17.60	38.49
Sorghum	48.48	16.54	--	--	--	--	0.27	29.85	3.04	6.64
Millet	20.60	7.03	--	--	--	--	0.12	12.96	5.64	12.33
Oats	0.45	0.15	--	--	--	--	--	--	--	--
PULSES	21.94	7.48	--	--	--	--	--	--	1.18	2.58
Horse Beans	10.76	3.67	--	--	--	--	--	--	0.91	2.00
Chick Peas	2.48	0.84	--	--	--	--	--	--	0.01	0.02
Haricot Bean	4.82	1.64	--	--	--	--	--	--	0.04	0.08
Field Peas	2.92	1.00	--	--	--	--	--	--	0.09	0.19
Lentils	--	--	--	--	--	--	--	--	--	--
Vetch	0.96	0.33	--	--	--	--	--	--	0.13	0.29
OILSEEDS	6.25	2.13	--	--	--	--	--	--	0.04	0.09
Neug	5.67	1.93	--	--	--	--	--	--	0.04	0.09
Linseed	--	--	--	--	--	--	--	--	--	--
Fenugreek	0.29	0.10	--	--	--	--	--	--	--	--
Rapeseed	0.29	0.10	--	--	--	--	--	--	--	--
Other Temporary	--	--	--	--	--	--	--	--	--	--
Spices	1.35	0.46	--	--	--	--	--	--	0.21	0.46
Potatoes	2.29	0.78	--	--	--	--	--	--	1.10	2.40
Other Vegetables	1.91	0.65	--	--	0.02	2.84	--	--	0.12	0.27
TOTAL TEMPORARY	248.45	84.30	0.55	100.00	0.02	2.84	0.84	92.85	44.92	97.79
Chat	0.87	0.30	--	--	0.08	14.16	--	--	--	--
Coffee	41.79	14.26	--	--	0.20	33.05	0.06	7.15	0.58	1.28
Enset	0.10	0.03	--	--	--	--	--	--	--	--
Fruits	0.89	0.30	--	--	0.21	36.12	--	--	0.02	0.04
Other Permanent	1.01	0.35	--	--	0.08	13.83	--	--	0.20	0.43
TOTAL PERMANENT	44.66	15.24	--	--	0.57	97.16	0.06	7.15	0.80	1.75
ALL CROPS	293.11	100.00	0.55	100.00	0.59	100.00	0.90	100.00	45.72	100.00

TABLE 1.7

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95 (1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	53.15	86.03	2.43	100.00	-	-	3.68	99.22	2.60	99.94
Teff	11.98	19.39	1.05	43.21	-	-	0.10	2.65	2.16	82.96
Barley	0.16	0.25	-	-	-	-	-	-	-	-
Wheat	0.11	0.18	-	-	-	-	-	-	-	-
Maize	13.41	21.71	1.38	56.79	-	-	0.67	17.99	0.27	10.43
Sorghum	21.93	35.49	-	-	-	-	2.39	64.51	-	-
Millet	5.54	8.96	-	-	-	-	0.52	14.08	0.17	6.55
Oats	0.02	0.03	-	-	-	-	-	-	-	-
PULSES	2.66	4.32	-	-	-	-	-	-	-	-
Horse Beans	0.23	0.37	-	-	-	-	-	-	-	-
Chick Peas	0.09	0.15	-	-	-	-	-	-	-	-
Haricot Bean	2.21	3.58	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Lentils	0.13	0.21	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	4.60	7.47	-	-	-	-	0.03	0.78	-	-
Neug	4.60	7.45	-	-	-	-	0.03	0.78	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.06	0.10	-	-	-	-	-	-	-	-
Spices	0.07	0.11	-	-	-	-	-	-	-	-
Potatoes	0.41	0.66	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	60.95	98.58	2.43	100.00	-	-	3.71	100.00	2.60	99.94
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.58	0.93	-	-	0.06	54.04	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	0.20	0.32	-	-	0.05	45.96	-	-	-	0.06
Other Permanent	0.04	0.06	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.82	1.31	-	-	0.11	100.00	-	-	-	0.06
ALL CROPS	61.77	100.00	2.43	100.00	0.11	100.00	3.71	100.00	2.60	100.00

TABLE 1.8

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS S.E.P.A.\* REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	516.55	55.51	4.58	60.10	4.59	44.74	70.70	96.23	189.24	60.02
Teff	139.04	14.94	2.02	26.51	1.32	12.87	24.32	33.10	64.60	20.49
Barley	72.64	7.81	0.08	1.05	0.06	0.58	2.84	3.87	22.63	7.18
Wheat	74.39	7.99	1.23	16.14	0.03	0.29	35.15	47.84	51.36	16.29
Maize	148.42	15.95	1.21	15.88	2.11	20.57	6.30	8.57	43.31	13.74
Sorghum	78.40	8.43	0.04	0.52	1.07	10.43	0.86	1.17	5.13	1.63
Millet	3.42	0.37	-	-	-	-	1.23	1.67	2.21	0.70
Oats	0.24	0.03	-	-	-	-	-	-	-	-
PULSES	81.52	8.76	1.93	25.33	0.08	0.78	1.76	2.40	23.50	7.45
Horse Beans	40.51	4.35	0.86	11.29	-	-	0.54	0.73	11.79	3.74
Chick Peas	6.65	0.71	0.15	1.97	0.03	0.29	-	-	0.09	0.03
Haricot Bean	11.45	1.23	0.12	1.57	-	-	-	-	4.32	1.37
Field Peas	22.11	2.38	0.80	10.50	0.05	0.49	1.22	1.66	7.15	2.27
Lentils	0.80	0.09	-	-	-	-	-	-	0.15	0.05
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	1.15	0.12	-	-	-	-	-	-	1.08	0.34
Neug	0.04	-	-	-	-	-	-	-	-	-
Linseed	0.03	-	-	-	-	-	-	-	-	-
Fenugreek	1.08	0.12	-	-	-	-	-	-	1.08	0.34
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.51	0.05	-	-	-	-	-	-	-	-
Spices	17.52	1.88	-	-	-	-	0.19	0.26	9.22	2.92
Potatoes	8.04	0.86	0.15	1.97	0.13	1.27	0.28	0.38	4.50	1.43
Other Vegetables	38.99	4.19	0.54	7.09	1.68	16.37	0.37	0.50	10.29	3.26
TOTAL TEMPORARY	664.28	71.39	7.20	94.49	6.48	63.16	73.30	99.77	237.83	75.43
Chat	12.74	1.37	0.18	2.36	0.30	2.92	-	-	3.78	1.20
Coffee	50.40	5.42	0.10	1.31	0.27	2.63	0.02	0.03	7.12	2.26
Enset	178.27	19.16	0.12	1.57	0.43	4.19	0.13	0.18	64.53	20.47
Fruits	4.34	0.47	-	-	1.95	19.01	-	-	0.44	0.14
Other Permanent	20.46	2.20	0.02	0.26	0.83	8.09	0.02	0.03	1.60	0.51
TOTAL PERMANENT	266.21	28.61	0.42	5.51	3.78	36.84	0.17	0.23	77.47	24.57
ALL CROPS	930.49	100.00	7.62	100.00	10.26	100.00	73.47	100.00	315.30	100.00

\* S.E.P.A. REGION= South Ethiopia People's Administrative Region.

TABLE 1.8.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, BENCH ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	16.57	65.04	-	-	-	-	0.26	51.70	-	-
Teff	2.56	10.04	-	-	-	-	0.12	24.02	-	-
Barley	0.77	3.04	-	-	-	-	0.02	4.49	-	-
Wheat	0.36	1.40	-	-	-	-	-	-	-	-
Maize	8.84	34.69	-	-	-	-	-	-	-	-
Sorghum	4.04	15.87	-	-	-	-	0.12	23.19	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	2.71	10.66	-	-	-	-	0.25	48.30	-	-
Horse Beans	1.92	7.55	-	-	-	-	0.14	27.27	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	0.09	0.35	-	-	-	-	-	-	-	-
Field Peas	0.70	2.76	-	-	-	-	0.11	21.04	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	0.04	0.17	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	1.93	7.59	-	-	-	-	-	-	0.05	43.35
TOTAL TEMPORARY	21.25	83.29	-	-	-	-	0.51	100.00	0.05	43.35
Chat	0.10	0.40	-	-	-	-	-	-	-	-
Coffee	1.26	4.93	-	-	-	-	-	-	-	-
Enset	2.52	9.88	-	-	-	-	-	-	0.06	47.10
Fruits	0.20	0.80	-	-	-	-	-	-	-	-
Other Permanent	0.14	0.53	-	-	-	-	-	-	0.01	9.55
TOTAL PERMANENT	4.22	16.54	-	-	-	-	-	-	0.07	56.65
ALL CROPS	25.47	100.00	-	-	-	-	0.51	100.00	0.12	100.00

TABLE 1.8.2 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, GEDIO ZONE , 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	15.05	28.69	0.31	100.00	0.07	37.76	-	-	0.37	14.62
Teff	0.15	0.29	-	-	-	-	-	-	0.04	1.51
Barley	5.87	11.19	-	-	0.06	30.25	-	-	0.27	10.81
Wheat	2.20	4.19	0.31	100.00	0.01	7.51	-	-	0.04	1.57
Maize	6.65	12.68	-	-	-	-	-	-	0.02	0.72
Sorghum	0.18	0.35	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	4.61	8.78	-	-	0.05	25.49	-	-	0.27	10.86
Horse Beans	4.21	8.02	-	-	-	-	-	-	0.27	10.86
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	0.40	0.76	-	-	0.05	25.49	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.08	0.15	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	0.11	0.21	-	-	-	-	-	-	0.01	0.32
Other Vegetables	1.93	3.67	-	-	0.01	4.39	-	-	0.73	28.95
TOTAL TEMPORARY	21.78	41.50	0.31	100.00	0.13	67.64	-	-	1.38	54.75
Chat	0.16	0.31	-	-	-	-	-	-	-	-
Coffee	14.02	26.72	-	-	0.04	23.12	0.02	100.00	0.17	6.67
Enset	16.23	30.94	-	-	0.02	9.25	-	-	0.97	38.59
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.28	0.53	-	-	-	-	-	-	-	-
TOTAL PERMANENT	30.69	58.50	-	-	0.06	32.36	0.02	100.00	1.14	45.25
ALL CROPS	52.47	100.00	0.31	100.00	0.19	100.00	0.02	100.00	2.52	100.00

TABLE 1.8.3 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, GURAGE ZONE, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	76.61	56.28	1.17	100.00	0.15	41.70	6.68	97.12	26.47	48.67
Teff	21.49	15.79	0.62	52.99	-	-	2.21	32.09	10.87	19.98
Barley	12.37	9.09	-	-	-	-	-	-	8.41	15.46
Wheat	10.02	7.36	0.10	8.55	-	-	2.20	32.04	4.23	7.78
Maize	24.57	18.05	0.41	35.04	0.15	41.70	1.88	27.38	2.26	4.16
Sorghum	8.16	6.00	0.04	3.42	-	-	0.39	5.62	0.70	1.29
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	13.06	9.59	-	-	-	-	-	-	5.46	10.02
Horse Beans	5.19	3.81	-	-	-	-	-	-	2.85	5.23
Chick Peas	4.33	3.18	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	3.24	2.38	-	-	-	-	-	-	2.61	4.79
Lentils	0.30	0.22	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.04	0.03	-	-	-	-	-	-	-	-
Neug	0.04	0.03	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.03	0.02	-	-	-	-	-	-	-	-
Spices	5.09	3.74	-	-	-	-	0.08	1.20	-	-
Potatoes	0.44	0.32	-	-	-	-	-	-	0.40	0.74
Other Vegetables	2.14	1.57	-	-	-	-	0.12	1.68	0.67	1.22
TOTAL TEMPORARY	97.41	67.83	1.17	100.00	0.15	41.70	6.88	98.80	33.00	60.66
Chat	6.54	4.80	-	-	0.02	7.00	-	-	2.16	3.97
Coffee	1.65	1.22	-	-	-	-	-	-	0.62	1.14
Enset	29.49	21.67	-	-	0.18	51.29	-	-	18.37	33.77
Fruits	0.06	0.04	-	-	-	-	-	-	-	-
Other Permanent	0.96	0.70	-	-	-	-	-	-	0.25	0.46
TOTAL PERMANENT	38.70	28.43	-	-	0.20	58.30	-	-	21.40	39.34
ALL CROPS	136.11	100.00	1.17	100.00	0.35	100.00	6.88	100.00	54.40	100.00

TABLE 1.8.4 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, HADIYA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	101.35	77.39	0.44	100.00	0.13	48.65	49.36	96.37	81.60	78.57
Teff	24.20	18.48	-	-	-	-	15.29	29.85	21.77	20.96
Barley	7.32	5.59	-	-	-	-	2.44	4.77	6.76	6.51
Wheat	35.33	26.98	-	-	-	-	29.67	57.92	34.72	33.43
Maize	27.79	21.22	0.44	100.00	-	-	0.89	1.73	15.76	15.17
Sorghum	5.67	4.33	-	-	0.13	48.65	0.21	0.42	1.96	1.89
Millet	1.04	0.79	-	-	-	-	0.86	1.68	0.63	0.61
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	9.40	7.19	-	-	-	-	1.46	2.85	7.87	7.59
Horse Beans	5.39	4.12	-	-	-	-	0.40	0.78	4.80	4.63
Chick Peas	0.30	0.23	-	-	-	-	-	-	-	-
Haricot Bean	0.67	0.52	-	-	-	-	-	-	0.11	0.11
Field Peas	2.85	2.18	-	-	-	-	1.06	2.06	2.81	2.71
Lentils	0.19	0.15	-	-	-	-	-	-	0.15	0.14
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.03	0.02	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	0.03	0.02	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	2.59	1.98	-	-	-	-	0.08	0.15	1.52	1.46
Potatoes	1.52	1.16	-	-	0.05	16.78	0.19	0.37	1.15	1.11
Other Vegetables	2.13	1.63	-	-	0.08	29.18	-	-	0.91	0.88
TOTAL TEMPORARY	117.02	87.39	0.44	100.00	0.26	94.61	51.09	99.59	93.05	88.14
Chat	1.64	1.25	-	-	-	-	-	-	1.01	0.98
Coffee	0.81	0.62	-	-	-	-	-	-	0.31	0.29
Enset	10.99	8.39	-	-	-	-	0.13	0.26	9.33	8.99
Fruits	0.17	0.13	-	-	-	-	-	-	-	-
Other Permanent	0.32	0.25	-	-	0.01	5.39	-	-	0.14	0.13
TOTAL PERMANENT	13.93	10.64	-	-	0.01	5.39	0.13	0.26	10.79	10.39
ALL CROPS	130.95	100.00	0.44	100.00	0.27	100.00	51.22	100.00	103.84	100.00

TABLE 1.8.5

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, KEMBATA ZONE, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	65.57	73.16	0.38	63.33	0.14	100.00	9.25	99.70	43.47	72.83
Teff	15.37	17.15	0.02	3.33	0.12	86.65	5.30	57.08	12.32	20.65
Barley	0.60	0.67	-	-	-	-	0.22	2.39	0.56	0.94
Wheat	10.33	11.53	-	-	0.02	13.35	3.26	35.14	9.91	16.60
Maize	30.40	33.92	0.36	60.00	-	-	0.07	0.70	17.71	29.67
Sorghum	6.84	7.63	-	-	-	-	0.10	1.10	1.39	2.34
Millet	1.81	2.02	-	-	-	-	0.30	3.28	1.58	2.64
Oats	0.22	0.25	-	-	-	-	-	-	-	-
PULSES	1.86	2.07	0.06	10.00	-	-	-	-	1.05	1.75
Horse Beans	1.02	1.14	-	-	-	-	-	-	0.80	1.33
Chick Peas	0.44	0.49	0.06	10.00	-	-	-	-	0.09	0.15
Haricot Bean	0.15	0.17	-	-	-	-	-	-	-	-
Field Peas	0.25	0.28	-	-	-	-	-	-	0.16	0.26
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	1.08	1.21	-	-	-	-	-	-	1.08	1.81
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	1.08	1.21	-	-	-	-	-	-	1.08	1.81
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	7.54	8.41	-	-	-	-	0.03	0.27	6.67	11.18
Potatoes	1.17	1.30	0.06	10.00	-	-	-	-	0.96	1.62
Other Vegetables	2.37	2.64	-	-	-	-	-	0.02	0.51	0.85
TOTAL TEMPORARY	79.59	80.38	0.50	83.33	0.14	100.00	9.28	99.73	53.74	78.86
Chat	0.52	0.58	-	-	-	-	-	-	0.12	0.21
Coffee	4.03	4.50	0.10	16.67	-	-	-	-	2.00	3.36
Enset	4.81	5.37	-	-	-	-	-	-	3.50	5.86
Fruits	0.29	0.32	-	-	-	-	-	-	-	-
Other Permanent	0.39	0.44	-	-	-	-	-	-	0.32	0.54
TOTAL PERMANENT	10.04	11.21	0.10	16.67	-	-	-	-	5.94	9.96
ALL CROPS	89.63	100.00	0.60	100.00	0.14	100.00	9.28	100.00	59.68	100.00

TABLE 1.8.7 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, MAJI ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	5.25	79.98	-	-	0.04	100.00	0.02	100.00	-	-
Teff	0.41	6.23	-	-	-	-	-	-	-	-
Barley	0.81	12.35	-	-	-	-	-	-	-	-
Wheat	0.01	0.22	-	-	-	-	-	-	-	-
Maize	1.86	28.34	-	-	0.04	100.00	-	15.99	-	-
Sorghum	2.16	32.84	-	-	-	-	0.02	84.01	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	0.29	4.30	-	-	-	-	-	-	-	-
Horse Beans	0.08	1.17	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	0.01	0.09	-	-	-	-	-	-	-	-
Field Peas	0.20	3.05	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.02	0.26	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	5.56	84.54	-	-	0.04	100.00	0.02	100.00	-	-
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.15	2.25	-	-	-	-	-	-	-	-
Enset	0.70	10.70	-	-	-	-	-	-	-	-
Fruits	0.10	1.59	-	-	-	-	-	-	-	-
Other Permanent	0.05	0.80	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.00	15.46	-	-	-	-	-	-	-	-
ALL CROPS	6.56	100.00	-	-	0.04	100.00	0.02	100.00	-	-

TABLE 1.8.8 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, NORTH OMO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	109.60	49.32	1.67	47.99	1.60	30.52	0.14	55.42	24.99	41.78
Teff	42.41	19.08	1.38	39.66	-	-	0.14	55.42	15.09	25.23
Barley	31.21	14.04	0.08	2.30	-	-	-	-	6.42	10.73
Wheat	10.98	4.94	0.21	6.03	-	-	-	-	2.27	3.79
Maize	3.82	1.72	-	-	1.60	30.52	-	-	0.64	1.07
Sorghum	21.02	9.46	-	-	-	-	-	-	0.57	0.95
Millet	0.14	0.06	-	-	-	-	-	-	-	-
Oats	0.02	0.01	-	-	-	-	-	-	-	-
PULSES	21.75	9.78	1.72	49.43	-	-	-	-	7.94	13.27
Horse Beans	8.43	3.79	0.73	20.98	-	-	-	-	2.85	4.76
Chick Peas	0.43	0.19	0.07	2.01	-	-	-	-	-	-
Haricot Bean	6.98	3.14	0.12	3.45	-	-	-	-	3.52	5.89
Field Peas	5.71	2.57	0.80	22.99	-	-	-	-	1.57	2.62
Lentils	0.20	0.09	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.11	0.05	-	-	-	-	-	-	-	-
Spices	1.35	0.61	-	-	-	-	-	-	0.98	1.63
Potatoes	4.65	2.09	0.09	2.59	-	-	0.09	36.55	1.94	3.24
Other Vegetables	25.38	11.42	-	-	0.79	15.12	-	-	6.72	11.23
TOTAL TEMPORARY	162.84	72.66	3.48	100.00	2.39	45.65	0.23	91.97	42.57	69.53
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	7.43	3.35	-	-	0.09	1.63	-	-	1.94	3.24
Enset	35.99	16.19	-	-	-	-	-	-	14.59	24.40
Fruits	3.15	1.42	-	-	1.95	37.27	-	-	0.42	0.70
Other Permanent	12.84	5.78	-	-	0.81	15.45	0.02	8.03	0.30	0.50
TOTAL PERMANENT	59.41	26.73	-	-	2.85	54.35	0.02	8.03	17.25	28.84
ALL CROPS	222.25	100.00	3.48	100.00	5.24	100.00	0.25	100.00	59.82	100.00

TABLE 1.8.9

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, SOUTH OMO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	17.95	74.07	0.03	100.00	0.03	100.00	0.11	70.50	-	-
Teff	4.95	20.43	-	-	-	-	-	-	-	-
Barley	1.50	6.19	-	-	-	-	0.09	55.59	-	-
Wheat	0.10	0.41	0.03	100.00	-	-	-	-	-	-
Maize	5.15	21.27	-	-	-	-	-	-	-	-
Sorghum	6.02	24.83	-	-	0.03	100.00	0.02	14.91	-	-
Millet	0.23	0.94	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	2.25	9.28	-	-	-	-	0.05	29.50	-	-
Horse Beans	1.32	5.46	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	0.27	1.11	-	-	-	-	-	-	-	-
Field Peas	0.66	2.71	-	-	-	-	0.05	29.50	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.29	1.21	-	-	-	-	-	-	-	-
Spices	0.58	2.38	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.53	2.20	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	21.60	86.78	0.03	100.00	0.03	100.00	0.16	100.00	-	-
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	1.51	6.22	-	-	-	-	-	-	-	-
Enset	1.04	4.31	-	-	-	-	-	-	-	-
Fruits	0.04	0.17	-	-	-	-	-	-	-	-
Other Permanent	0.04	0.15	-	-	-	-	-	-	-	-
TOTAL PERMANENT	2.63	10.84	-	-	-	-	-	-	-	-
ALL CROPS	24.23	100.00	0.03	100.00	0.03	100.00	0.16	100.00	-	-

TABLE 1.8.10 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, SHEKICHO ZONE, 1994/95 (1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	7.12	51.96	0.22	62.86	-	-	0.05	100.00	-	-
Teff	2.04	14.92	-	-	-	-	-	-	-	-
Barley	0.24	1.78	-	-	-	-	-	-	-	-
Wheat	0.25	1.80	0.22	62.86	-	-	-	-	-	-
Maize	3.10	22.61	-	-	-	-	-	-	-	-
Sorghum	1.40	10.22	-	-	-	-	-	-	-	-
Millet	0.09	0.63	-	-	-	-	0.05	100.00	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	1.63	11.96	0.13	37.14	-	-	-	-	-	-
Horse Beans	0.74	5.43	0.13	37.14	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	0.26	1.92	-	-	-	-	-	-	-	-
Field Peas	0.63	4.61	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	0.06	0.46	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.09	0.67	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	8.90	64.64	0.35	100.00	-	-	0.05	100.00	-	-
Chat	0.02	0.16	-	-	-	-	-	-	-	-
Coffee	2.47	18.03	-	-	-	-	-	-	-	-
Enset	2.10	15.36	-	-	-	-	-	-	0.01	100.00
Fruits	0.17	1.22	-	-	-	-	-	-	-	-
Other Permanent	0.02	0.14	-	-	-	-	-	-	-	-
TOTAL PERMANENT	4.78	34.91	-	-	-	-	-	-	0.01	100.00
ALL CROPS	13.68	100.00	0.35	100.00	-	-	0.05	100.00	0.01	100.00

TABLE 1.8.11 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, SIDAMA ZONE, 1994/95 (1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	33.61	27.50	0.19	18.10	--	--	3.67	93.69	10.62	35.65
Teff	5.71	4.67	--	--	--	--	0.21	5.25	3.35	11.24
Barley	2.35	1.92	--	--	--	--	--	--	0.21	0.70
Wheat	0.48	0.39	0.19	18.10	--	--	--	--	0.19	0.64
Maize	24.73	20.24	--	--	--	--	3.46	88.44	6.87	23.05
Sorghum	0.34	0.28	--	--	--	--	--	--	--	--
Millet	--	--	--	--	--	--	--	--	--	--
Oats	--	--	--	--	--	--	--	--	--	--
PULSES	3.40	2.78	--	--	--	--	--	--	0.84	2.81
Horse Beans	0.94	0.77	--	--	--	--	--	--	0.15	0.49
Chick Peas	--	--	--	--	--	--	--	--	--	--
Haricot Bean	1.90	1.55	--	--	--	--	--	--	0.69	2.32
Field Peas	0.56	0.45	--	--	--	--	--	--	--	--
Lentils	--	--	--	--	--	--	--	--	--	--
Vetch	--	--	--	--	--	--	--	--	--	--
OILSEEDS	--	--	--	--	--	--	--	--	--	--
Neug	--	--	--	--	--	--	--	--	--	--
Linseed	--	--	--	--	--	--	--	--	--	--
Fenugreek	--	--	--	--	--	--	--	--	--	--
Rapeseed	--	--	--	--	--	--	--	--	--	--
Other Temporary	--	--	--	--	--	--	--	--	--	--
Spices	0.12	0.10	--	--	--	--	--	--	0.05	0.17
Potatoes	0.14	0.12	--	--	0.08	5.78	--	--	0.04	0.13
Other Vegetables	1.70	1.39	0.54	51.43	0.80	56.58	0.25	6.31	0.69	2.32
TOTAL TEMPORARY	38.97	31.78	0.73	69.52	0.88	62.35	3.92	100.00	12.24	40.91
Chat	3.75	3.07	0.18	17.14	0.28	19.62	--	--	0.49	1.64
Coffee	16.04	13.13	--	--	0.10	7.12	--	--	2.04	6.85
Enset	58.17	47.60	0.12	11.43	0.16	10.91	--	--	14.44	48.43
Fruits	0.16	0.13	--	--	--	--	--	--	0.02	0.05
Other Permanent	5.13	4.20	0.02	1.90	--	--	--	--	0.58	1.94
TOTAL PERMANENT	83.25	68.12	0.32	30.48	0.54	37.65	--	--	17.57	58.92
ALL CROPS	122.22	100.00	1.05	100.00	1.42	100.00	3.92	100.00	29.81	100.00

TABLE 1.8.12 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, AMARO WEREDA, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	3.90	26.65	0.17	100.00	0.09	47.07	-	-	-	-
Teff	0.36	2.47	-	-	0.09	47.07	-	-	-	-
Barley	2.14	14.63	-	-	-	-	-	-	-	-
Wheat	1.40	9.56	0.17	100.00	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	2.85	19.53	-	-	-	-	-	-	-	-
Horse Beans	0.69	4.73	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	2.06	14.10	-	-	-	-	-	-	-	-
Lentils	0.10	0.70	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.34	2.31	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	7.09	48.50	0.17	100.00	0.09	47.07	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.38	2.62	-	-	0.04	18.34	-	-	0.04	1.41
Enset	7.14	48.75	-	-	0.05	28.55	-	-	2.46	98.59
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.02	0.13	-	-	0.01	6.04	-	-	-	-
TOTAL PERMANENT	7.54	51.50	-	-	0.10	52.93	-	-	2.50	100.00
ALL CROPS	14.63	100.00	0.17	100.00	0.19	100.00	-	-	2.50	100.00

TABLE 1.8.13 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, BURJI WEREDA, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	1.13	51.75	-	-	-	-	-	-	-	-
Teff	0.63	29.02	-	-	-	-	-	-	-	-
Barley	0.28	12.76	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-
Sorghum	0.22	9.97	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	0.15	7.03	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	0.14	6.39	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Lentils	0.01	0.64	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.08	3.91	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	1.36	62.68	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.20	9.16	-	-	-	-	-	-	-	-
Enset	0.61	28.15	-	-	0.02	100.00	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.81	37.32	-	-	0.02	100.00	-	-	-	-
ALL CROPS	2.17	100.00	-	-	0.02	100.00	-	-	-	-

TABLE 1.8.14 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, DERASHE WEREDA, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	12.71	93.95	-	-	2.32	98.89	-	-	0.16	100.00
Teff	1.24	9.17	-	-	1.11	47.41	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	1.32	9.73	-	-	0.30	12.70	-	-	-	-
Sorghum	10.15	75.05	-	-	0.91	38.78	-	-	0.16	100.00
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	0.74	5.47	-	-	0.03	1.11	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	0.74	5.47	-	-	0.03	1.11	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	13.45	99.41	-	-	2.35	100.00	-	-	0.16	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.08	0.59	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.08	0.59	-	-	-	-	-	-	-	-
ALL CROPS	13.53	100.00	-	-	2.35	100.00	-	-	0.16	100.00

TABLE 1.8.15 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, KONSO WEREDA, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA )									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	5.95	79.97	-	-	0.02	100.00	-	-	0.35	100.00
Teff	0.29	3.88	-	-	-	-	-	-	-	-
Barley	0.06	0.83	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	0.10	1.34	-	-	0.02	100.00	-	-	-	-
Sorghum	5.50	73.92	-	-	-	-	-	-	0.35	100.00
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	0.95	12.77	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	0.38	5.16	-	-	-	-	-	-	-	-
Haricot Bean	0.57	7.61	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	6.90	92.80	-	-	0.02	100.00	-	-	0.35	100.00
Chat	0.01	0.17	-	-	-	-	-	-	-	-
Coffee	0.26	3.46	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.27	3.57	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.54	7.20	-	-	-	-	-	-	-	-
ALL CROPS	7.44	100.00	-	-	0.02	100.00	-	-	0.35	100.00

8

TABLE 1.8.16 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, YEM WEREDA, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	3.82	74.58	-	-	-	-	-	-	1.14	67.68
Teff	1.88	36.72	-	-	-	-	-	-	1.14	67.68
Barley	0.45	8.75	-	-	-	-	-	-	-	-
Wheat	0.66	12.93	-	-	-	-	-	-	-	-
Maize	0.33	6.43	-	-	-	-	-	-	-	-
Sorghum	0.50	9.70	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	0.58	11.37	-	-	-	-	-	-	0.07	4.25
Horse Beans	0.46	8.93	-	-	-	-	-	-	0.07	4.25
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	0.12	2.44	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	4.40	85.95	-	-	-	-	-	-	1.21	71.92
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	0.72	14.05	-	-	-	-	-	-	0.47	28.08
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.72	14.05	-	-	-	-	-	-	0.47	28.08
ALL CROPS	5.12	100.00	-	-	-	-	-	-	1.68	100.00

TABLE 1.9

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN GAMBELA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	6.14	86.01	0.32	100.00	-	-	-	-	-	-
Teff	0.03	0.38	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	3.34	46.78	0.32	100.00	-	-	-	-	-	-
Sorghum	2.77	38.85	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	0.10	1.47	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	0.10	1.47	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.02	0.30	-	-	-	-	-	-	-	-
Spices	0.17	2.45	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.03	0.47	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	6.46	88.24	0.32	100.00	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.23	3.25	-	-	0.02	100.00	-	-	-	-
Enset	0.25	3.51	-	-	-	-	-	-	-	-
Fruits	0.14	1.98	-	-	-	-	-	-	-	-
Other Permanent	0.04	0.57	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.66	9.31	-	-	0.02	100.00	-	-	-	-
ALL CROPS	7.12	100.00	0.32	100.00	0.02	100.00	-	-	-	-

TABLE 1.10 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN HARARI REGION, 1994/95 (1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	5.04	68.98	-	-	-	-	0.22	100.00	1.13	72.97
Teff	0.03	0.39	-	-	-	-	-	-	0.01	0.82
Barley	0.09	1.22	-	-	-	-	-	-	0.09	5.76
Wheat	0.42	5.78	-	-	-	-	-	-	0.32	20.81
Maize	0.18	2.44	-	-	-	-	-	-	0.09	5.58
Sorghum	4.30	58.92	-	-	-	-	0.22	100.00	0.60	38.92
Millet	-	-	-	-	-	-	-	-	-	-
Oats	0.02	0.23	-	-	-	-	-	-	0.02	1.09
PULSES	0.25	3.37	0.02	100.00	-	-	-	-	0.01	0.85
Horse Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	0.25	3.37	0.02	100.00	-	-	-	-	0.01	0.85
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	1.30	17.88	-	-	-	-	-	-	0.03	2.19
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.05	0.65	-	-	-	-	-	-	0.01	0.94
TOTAL TEMPORARY	6.64	90.88	0.02	100.00	-	-	0.22	100.00	1.18	76.94
Chat	0.62	8.48	-	-	-	-	-	-	0.36	23.06
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	0.05	0.64	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.67	9.12	-	-	-	-	-	-	0.36	23.06
ALL CROPS	7.31	100.00	0.02	100.00	-	-	0.22	100.00	1.54	100.00

TABLE 1.11 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN ADDIS ABABA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	7.66	72.29	-	-	-	-	0.62	92.39	7.38	89.32
Teff	5.13	48.52	-	-	-	-	0.59	88.44	5.04	61.09
Barley	0.01	0.11	-	-	-	-	-	-	-	-
Wheat	2.47	23.31	-	-	-	-	0.03	3.96	2.33	28.16
Maize	0.03	0.25	-	-	-	-	-	-	-	-
Sorghum	0.01	0.05	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	0.01	0.05	-	-	-	-	-	-	0.01	0.07
PULSES	2.54	24.07	-	-	-	1.68	0.03	4.67	0.68	8.27
Horse Beans	0.08	0.75	-	-	-	-	-	-	-	0.06
Chick Peas	0.96	9.05	-	-	-	1.68	-	-	0.37	4.48
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	0.07	0.69	-	-	-	-	-	-	-	-
Lentils	0.49	4.67	-	-	-	-	0.02	2.50	0.16	1.97
Vetch	0.94	8.91	-	-	-	-	0.01	2.17	0.15	1.76
OILSEEDS	0.11	1.05	-	-	-	1.39	-	-	0.02	0.24
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	0.11	1.01	-	-	-	1.39	-	-	0.02	0.24
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	0.02	0.16	-	-	0.02	14.22	-	0.21	0.01	0.14
Other Vegetables	0.25	2.35	0.11	100.00	0.10	81.24	0.02	2.73	0.16	1.99
TOTAL TEMPORARY	10.58	99.94	0.11	100.00	0.12	98.53	0.67	100.00	8.25	99.97
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	0.06	-	-	-	1.47	-	-	-	0.03
ALL CROPS	10.58	100.00	0.11	100.00	0.12	100.00	0.67	100.00	8.25	100.00

TABLE 1.12

ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN DIRE DAWA, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)									
	TOTAL CROP		IMPROVED SEED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	9.52	93.37	0.01	33.33	0.16	52.74	0.59	100.00	0.40	87.05
Teff	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	0.11	1.04	-	-	-	-	-	-	-	-
Sorghum	9.41	92.33	0.01	33.33	0.16	52.74	0.59	100.00	0.40	87.05
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.01	0.06	-	-	0.01	2.13	-	-	0.01	1.37
TOTAL TEMPORARY	9.53	93.43	0.01	33.33	0.17	54.87	0.59	100.00	0.41	88.41
Chat	0.46	4.47	0.02	66.67	0.09	29.25	-	-	0.04	7.87
Coffee	0.06	0.61	-	-	0.05	15.88	-	-	0.02	3.72
Enset	-	-	-	-	-	-	-	-	-	-
Fruits	0.15	1.49	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.67	6.57	0.02	66.67	0.14	45.13	-	-	0.06	11.59
ALL CROPS	10.20	100.00	0.03	100.00	0.31	100.00	0.59	100.00	0.47	100.00

2. Total Fertilizer Applied Area and Quantity by Type of Fertilizer.

2.1 Total Fertilizer Applied Area by Type of Fertilizer and Crop.

The types of fertilizers most commonly used by the private peasants during the survey year were natural, DAP and UREA. These fertilizers were used separately or in combination, i.e. only Natural, only DAP, only UREA, DAP mixed with UREA and Natural mixed UREA or DAP.

As shown in the Summary Table below, among the fertilizers used, DAP was applied in larger area. Natural fertilizer and UREA were also used for considerable crop area. Moreover, area fertilized using a mixture of natural and commercial fertilizers was very small at national level. In addition, according to the survey result, no fertilized area was reported either for natural or commercial fertilizer in Maji Zone, South Omo Zone, Burji Wereda and Gambela Region. For details refer to the tables presented.

Summary Table 2 : Total Fertilizer Applied Area By Type of Fertilizer

TYPE OF FERTILIZER	APPLIED AREA ('000 HA)
Natural	376.27
DAP	1253.34
UREA	257.39
DAP + UREA	222.74
Natural+Commercial	20.05
Total	2129.79

### 2.1.1. Natural Fertilizer Applied Area.

Out of the total fertilized area, i.e. 2129.79 thousand hectares, the natural fertilizer was applied on about 376.27 thousand hectares or 17.67%. Temporary and permanent crops account for about 282.24 and 94.03 thousand hectares respectively. See Table 2.1.1.

### 2.1.2. DAP Applied Area.

The total DAP applied area was 1253.34 thousand hectares or 58.85% of the total fertilized area. Temporary and permanent crops accounted for 1251.01 and 2.33 thousand hectares respectively.

Teff with 526.98 thousand hectares has the largest DAP applied area among temporary crops. From permanent crops, coffee with 1.35 thousand hectares has the largest DAP applied area. See Table 2.1.1.

### 2.1.3 Urea Applied Area.

The total UREA applied area was about 257.39 thousand hectares or 12.09% of the total fertilizer applied area. Temporary and permanent crops account for 255.50 thousand hectares or 12.00% and 1.89 thousand hectares or 0.09% respectively.

#### 2.1.4. DAP and UREA Applied Area.

Out of the total fertilized area the mixture of DAP and UREA was applied on 222.74 thousand hectares or 10.46%. Temporary and permanent crops account for about 222.36 thousand hectares or 10.44% and 0.38 thousand hectares or 0.02% respectively. See Table 2.1.1.

Here also, teff with 153.31 thousand hectares from temporary crops and enset with 0.24 thousand hectares from permanent crops have the largest DAP and UREA applied area.

#### 2.1.5. Natural and Commercial Fertilizer Applied Area.

From the total fertilized area the Natural fertilizer mixed with Commercial fertilizer was applied on 20.05 thousand hectares or 0.94%. Temporary and permanent crops account for 19.86 thousand hectares and 0.07 thousand hectares respectively.

#### 2.2. Quantity of Commercial Fertilizer Applied.

The total quantity of fertilizers applied at national level was 1.84 million quintals. It is important to note that the information on quantity was collected and estimated only for **commercial fertilizers**. However, section 2.1.5 above deals with application of both commercial and natural fertilizers in mix.

**Summary Table 3 : Quantity of Commercial Fertilizer Applied**  
**By Type**

TYPE OF FERTILIZER	QUANTITY	
	('000 QUINTALS)	PERCENT
DAP	1184.72	64.34
UREA	216.86	11.78
DAP + UREA	420.49	22.84
Natural + commercial	19.05	1.03
Total	1841.26	100.00

2.2.1. Quantity of DAP Applied.

From the total quantity of fertilizer applied, quantity of DAP applied was 1184.72 thousand quintals or 64.34%. The total quantity of DAP applied for temporary and permanent crops was 1181.31 and 3.41 thousand quintals respectively. Refer to Summary Table 3 and Table 2.2.1.

2.2.2. Quantity of UREA Applied.

From the total quantity of commercial fertilizer applied, quantity of UREA was 216.86 thousand quintals or 11.78%. The total quantity of UREA applied for temporary and permanent crops was 215.13 and 1.73 thousand quintals respectively.

### 2.2.3. Quantity of DAP and UREA Applied In Mix.

Out of the total quantity of commercial fertilizer applied, quantity of mixture of DAP and UREA was 420.49 thousand quintals or 22.84%. The total quantity of mixture of DAP and UREA applied to temporary and permanent crops were 419.94 and 0.55 thousand quintals respectively.

### 2.2.4. Quantity of Commercial with Natural Applied in Mix.

As mentioned above, commercial along with natural fertilizers applied area was reported during the survey year, and the quantity applied was 19.05 thousand quintals. Here the quantity however refers to only the commercial fertilizers, whereas, the application was made by mixing any commercial with natural fertilizer. For details refer to National, Regional and Zonal tables.

NOTE: If in some tables figures do not add up to total it is due to rounding.

TABLE 2.1.1 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS NATIONAL\*, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)											
	TOTAL		NATURAL		DAP		UREA		DAP + UREA		NAT + COMM	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	1866.35	87.63	234.11	62.22	1152.87	91.98	244.26	94.90	216.38	97.14	18.67	93.12
Teff	814.89	38.26	21.62	5.75	526.98	42.05	109.66	42.60	153.31	38.83	3.35	16.71
Barley	264.99	12.44	30.78	8.18	196.86	15.71	28.03	10.89	5.70	2.56	3.61	18.00
Wheat	373.01	17.51	12.59	3.35	234.64	18.72	70.02	27.20	52.98	23.79	2.75	13.72
Maize	265.64	12.47	123.77	32.89	114.81	9.16	16.50	6.41	2.86	1.28	7.70	38.40
Sorghum	58.74	2.76	39.55	10.51	7.56	0.60	10.46	4.06	0.21	0.09	0.96	4.79
Millet	77.98	3.66	5.79	1.54	64.32	5.13	6.45	2.51	1.09	0.49	0.30	1.50
Oats	11.10	0.52	0.01	0.00	7.70	0.61	3.14	1.22	0.23	0.10	-	-
PULSES	99.27	4.66	24.88	6.61	63.09	5.03	7.99	3.10	2.48	1.11	0.85	4.24
Horse Beans	49.97	2.35	13.99	3.72	30.74	2.45	4.45	1.73	0.51	0.23	0.30	1.50
Chick Peas	3.80	0.18	0.97	0.26	2.35	0.19	0.03	0.01	0.45	0.20	-	-
Haricot Bean	15.08	0.71	3.20	0.85	10.44	0.83	1.16	0.45	-	-	0.30	1.50
Field Peas	21.76	1.02	5.52	1.47	13.38	1.07	1.75	0.68	0.91	0.41	0.20	1.00
Lentils	5.39	0.25	0.96	0.26	3.49	0.28	0.32	0.12	0.55	0.25	0.05	0.25
Vetch	3.27	0.15	0.24	0.06	2.69	0.21	0.28	0.11	0.06	0.03	-	-
OILSEEDS	18.83	0.88	2.30	0.61	13.56	1.08	0.87	0.34	2.10	0.94	-	-
Neug	6.25	0.29	1.56	0.41	4.45	0.36	0.24	0.09	-	-	-	-
Linseed	5.97	0.28	0.63	0.17	4.99	0.40	0.34	0.13	-	-	-	-
Fenugreek	2.40	0.11	0.05	0.01	1.86	0.15	0.25	0.10	0.25	0.11	-	-
Rapeseed	4.20	0.20	0.06	0.02	2.26	0.18	0.04	0.02	1.85	0.83	-	-
Other Temporary	0.65	0.03	0.56	0.15	0.09	0.01	-	-	-	-	-	-
Spices	12.47	0.59	3.47	0.92	8.12	0.65	0.60	0.23	0.16	0.07	0.12	0.60
Potatoes	15.43	0.72	5.13	1.36	9.08	0.72	0.79	0.31	0.12	0.05	0.29	1.45
Other Vegetables	18.15	0.85	11.79	3.13	4.20	0.34	0.99	0.38	1.12	0.50	0.04	0.20
TOTAL TEMPORARY	2031.14	95.37	282.24	75.01	1251.01	99.81	255.50	99.27	222.36	99.83	19.97	99.60
Chat	9.23	0.43	7.85	2.09	0.09	0.01	1.10	0.43	0.14	0.06	0.07	0.35
Coffee	9.03	0.42	7.19	1.91	1.35	0.11	0.50	0.19	-	-	-	-
Enset	75.08	3.53	73.96	19.66	0.75	0.06	0.14	0.05	0.24	0.11	-	-
Fruits	0.52	0.02	0.52	0.14	-	-	-	-	-	-	-	-
Other Permanent	4.79	0.22	4.51	1.20	0.14	0.01	0.15	0.06	-	-	-	-
TOTAL PERMANENT	98.65	4.63	94.03	24.99	2.33	0.19	1.89	0.73	0.38	0.17	0.07	0.35
ALL CROPS	2129.79	100.00	376.27	100.00	1253.34	100.00	257.39	100.00	222.74	100.00	20.05	100.00

\* EXCLUDING SOMALI REGION AND OTHER NOMADIC AREAS.

0.00 Not Significant

- Not Reported

FIG 2. ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER  
 FOR MAJOR CROPS OF PRIVATE PEASANT HOLDINGS,  
 NATIONAL, 1994/95 (1987 E.C.)

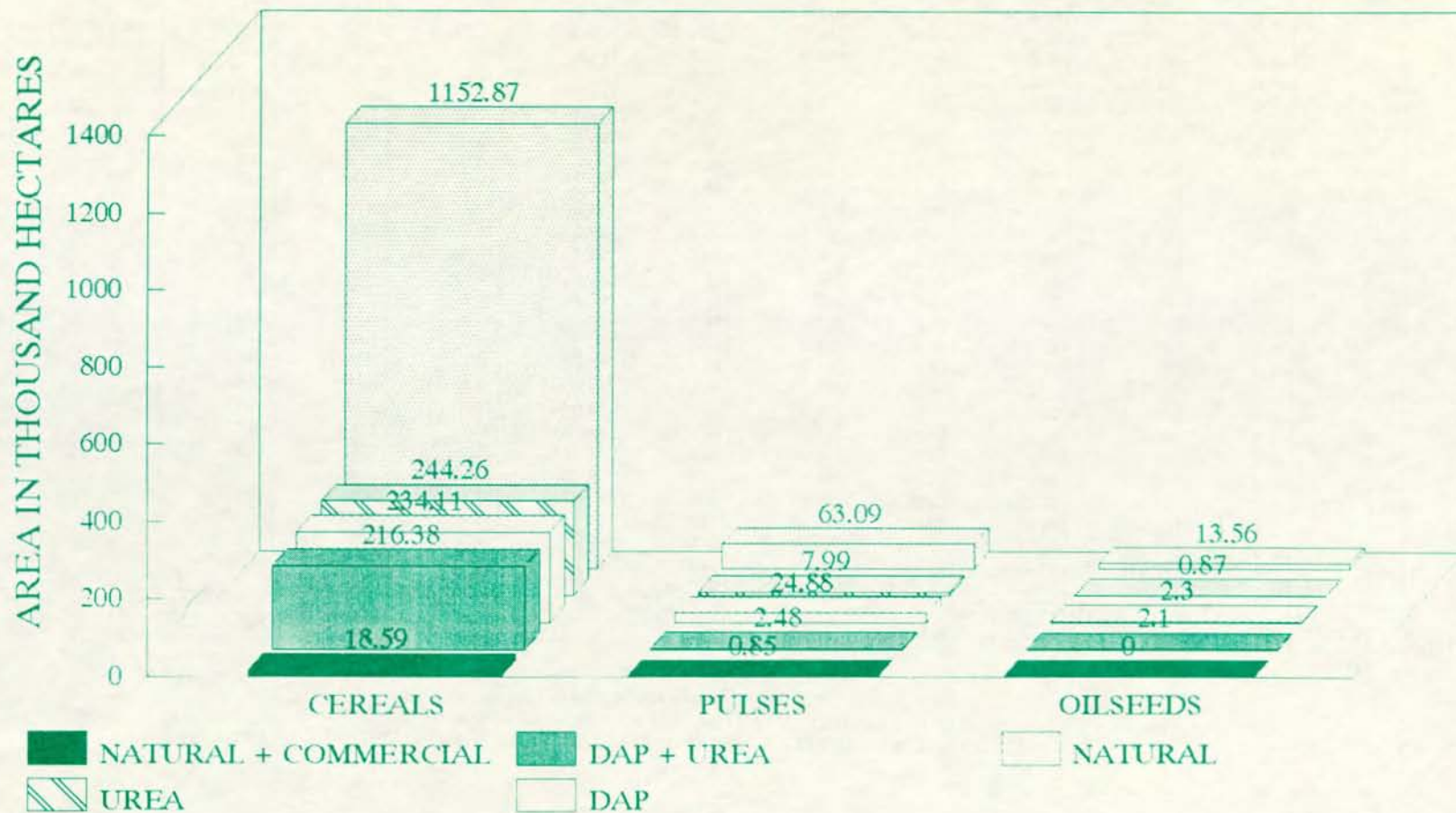


TABLE 2.1.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND REGION FOR MEHER SEASON, PRIVATE PEASANT HOLDINGS, NATIONAL\*, 1994/95 (1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP + UREA		NAT + COMM	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
TIGRAY	74.80	3.51	44.24	11.76	24.07	1.92	4.81	1.87	-	-	1.70	8.48
AFAR	3.94	0.18	3.94	1.05	-	-	-	-	-	-	-	-
AMHARA	557.26	26.16	91.80	24.40	333.60	26.62	72.54	28.18	52.55	23.59	6.75	33.67
OROMIA	1165.63	54.73	119.35	31.72	723.50	57.72	154.16	59.89	160.25	71.94	8.39	41.85
BENSHANGULE	2.60	0.12	0.14	0.04	2.47	0.20	-	-	-	-	-	-
S.E.P.A.R.	315.31	14.80	116.11	30.86	169.01	13.48	25.02	9.72	1.99	0.89	3.19	15.91
GAMBELA	-	-	-	-	-	-	-	-	-	-	-	-
HARARI	1.55	0.07	0.22	0.06	0.11	0.01	0.84	0.33	0.38	0.17	-	-
ADDIS ABABA	8.26	0.39	0.02	0.01	0.62	0.05	0.02	0.01	7.57	3.40	0.02	0.10
DIRE DAWA	0.46	0.02	0.46	0.12	-	-	-	-	-	-	-	-
TOTAL	2129.81	100.00	376.28	100.00	1253.38	100.00	257.39	100.00	222.74	100.00	20.05	100.00

\*EXCLUDING SOMALI REGION OTHER NOMADIC AREAS.

- Not Reported

TABLE 2.2.1 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS  
NATIONAL \*, 1994/95 (1987 E.C.)

( '000' Qt. )

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		NAT + COMM	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	1702.26	92.45	1076.62	90.88	197.41	91.03	411.28	97.81	16.94	88.92
Teff	829.74	45.06	457.33	38.60	89.27	41.16	279.72	66.52	3.41	17.90
Barley	209.29	11.37	176.24	14.88	20.59	9.49	9.33	2.22	3.12	16.38
Wheat	421.40	22.89	250.71	21.16	55.40	25.55	112.51	26.76	2.79	14.65
Maize	171.97	9.34	137.23	11.58	19.71	9.09	8.11	1.93	6.92	36.33
Sorghum	14.81	0.80	6.88	0.58	6.78	3.13	0.60	0.14	0.55	2.89
Millet	48.14	2.61	43.36	3.66	4.09	1.89	0.54	0.13	0.15	0.79
Oats	6.91	0.38	4.87	0.41	1.57	0.72	0.47	0.11	-	-
PULSES	62.97	3.42	53.14	4.49	6.52	3.01	2.56	0.61	0.77	4.04
Horse Beans	33.20	1.80	28.85	2.44	3.46	1.60	0.56	0.13	0.34	1.78
Chick Peas	2.29	0.12	1.84	0.16	0.01	-	0.44	0.10	-	-
Haricot Bean	10.25	0.56	8.76	0.74	1.19	0.55	-	-	0.31	1.63
Field Peas	11.86	0.64	10.18	0.86	1.12	0.52	0.52	0.12	0.04	0.21
Lentils	3.55	0.19	2.19	0.18	0.34	0.16	0.94	0.22	0.08	0.42
Vetch	1.82	0.10	1.32	0.11	0.40	0.18	0.10	0.02	-	-
OILSEEDS	13.49	0.73	9.40	0.79	1.73	0.80	2.36	0.56	0.01	0.05
Neug	2.58	0.14	2.27	0.19	0.32	0.15	-	-	-	-
Linseed	2.84	0.15	2.73	0.23	0.12	0.06	-	-	-	-
Fenugreek	4.83	0.26	3.02	0.25	1.26	0.58	0.54	0.13	0.01	0.05
Rapeseed	3.24	0.18	1.38	0.12	0.03	0.01	1.82	0.43	-	-
Other Temporary	0.48	0.03	0.48	0.04	-	-	-	-	-	-
Spices	23.61	1.28	21.17	1.79	2.18	1.01	0.16	0.04	0.08	0.42
Potatoes	16.40	0.89	13.21	1.12	1.81	0.83	0.34	0.08	1.03	5.41
Other Vegetables	16.20	0.88	7.29	0.62	5.48	2.53	3.24	0.77	0.21	1.10
TOTAL TEMPORARY	1835.41	99.68	1181.31	99.71	215.13	99.20	419.94	99.87	19.04	99.95
Chat	1.44	0.08	-	-	1.09	0.50	0.20	0.05	0.01	0.05
Coffee	0.94	0.05	0.72	0.06	0.22	0.10	-	-	-	-
Enset	1.96	0.11	1.41	0.12	0.19	0.09	0.35	0.08	-	-
Fruits	0.01	-	0.01	-	-	-	-	-	-	-
Other Permanent	1.50	0.08	1.27	0.11	0.23	0.11	-	-	-	-
TOTAL PERMANENT	5.85	0.32	3.41	0.29	1.73	0.80	0.55	0.13	0.01	0.05
ALL CROPS	1841.26	100.00	1184.72	100.00	216.86	100.00	420.49	100.00	19.05	100.00

\* EXCLUDING SOMALI REGION AND OTHER NOMADIC AREAS

FIG 3. ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE FOR MAJOR CROPS OF PRIVATE PEASANT HOLDINGS, NATIONAL, 1994/95 (1987 E.C.)

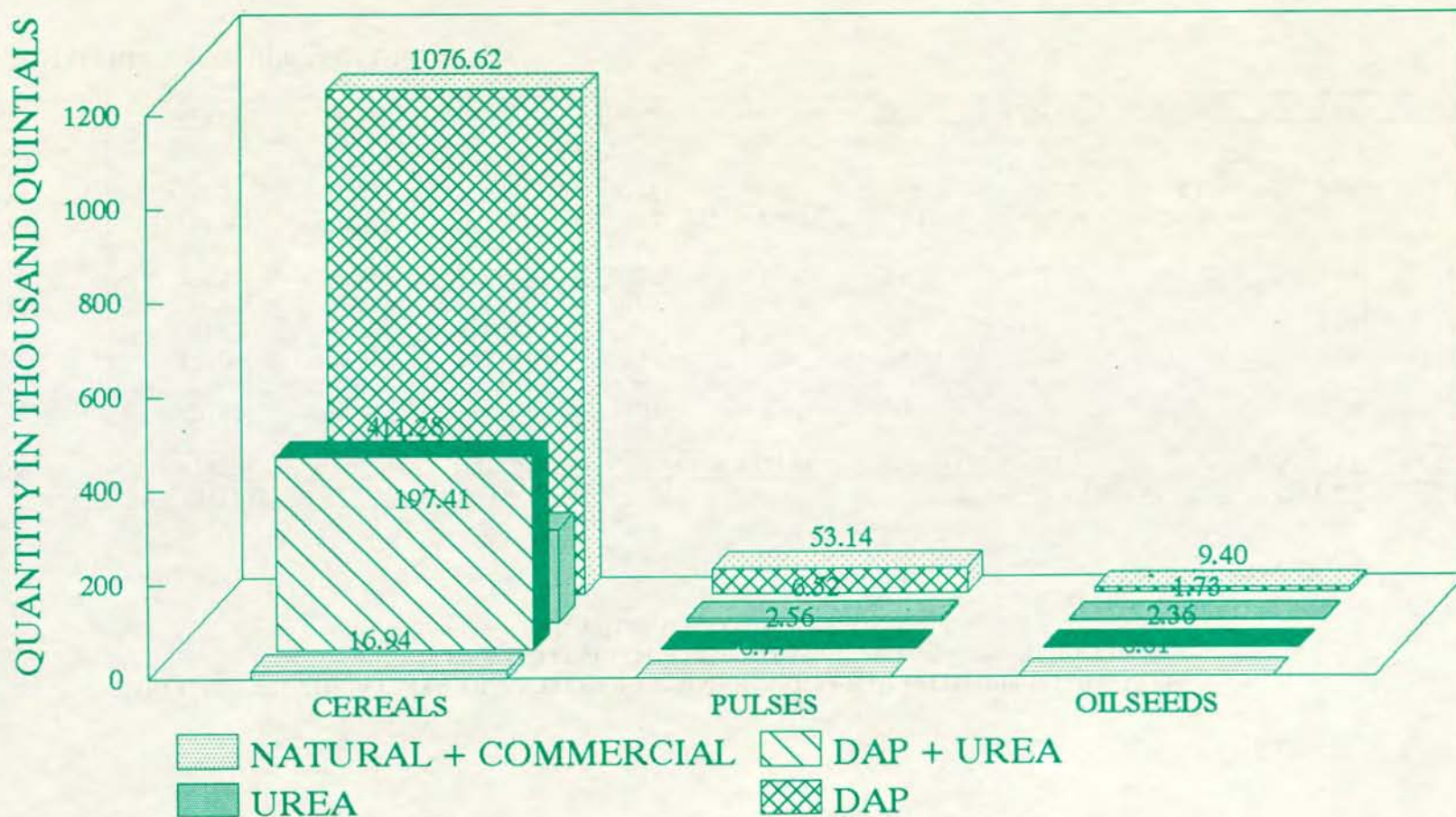


TABLE 2.2.2 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE  
OF FERTILIZER AND REGION FOR MEHER SEASON, PRIVATE PEASANT HOLDINGS,  
NATIONAL\*, 1994/95 (1987 E.C.)

( 000' Qt. )

REGION	TOTAL		DAP		UREA		DAP + UREA		NAT + COMM	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
TIGRAY	20.43	1.11	16.28	1.37	3.49	1.61	-	-	0.66	3.47
AFAR	-	-	-	-	-	-	-	-	-	-
AMHARA	428.06	23.25	297.65	25.12	65.03	29.99	58.89	14.00	6.49	34.10
OROMIA	1091.52	59.28	631.01	53.25	112.36	51.82	339.27	80.68	8.84	46.45
BENSHANGULE	0.98	0.05	0.98	0.08	-	-	-	-	-	-
S.E.P.A.R.	277.84	15.09	237.89	20.08	33.53	15.46	3.44	0.82	2.98	15.66
GAMBELA	-	-	-	-	-	-	-	-	-	-
HARARI	4.26	0.23	0.22	0.02	2.41	1.11	1.64	0.39	-	-
ADDIS ABABA	18.22	0.99	0.88	0.07	0.02	0.01	17.26	4.10	0.06	0.32
DIRE DAWA	-	-	-	-	-	-	-	-	-	-
TOTAL	1841.31	100.00	1184.91	100.00	216.84	100.00	420.50	100.00	19.03	100.00

\*EXCLUDING SOMALI REGION OTHER NOMADIC AREAS.

- Not Reported

FIG 4. ESTIMATES OF QUANTITY OF DAP AND UREA USED BY REGION 1994/95 (1987 E.C.)

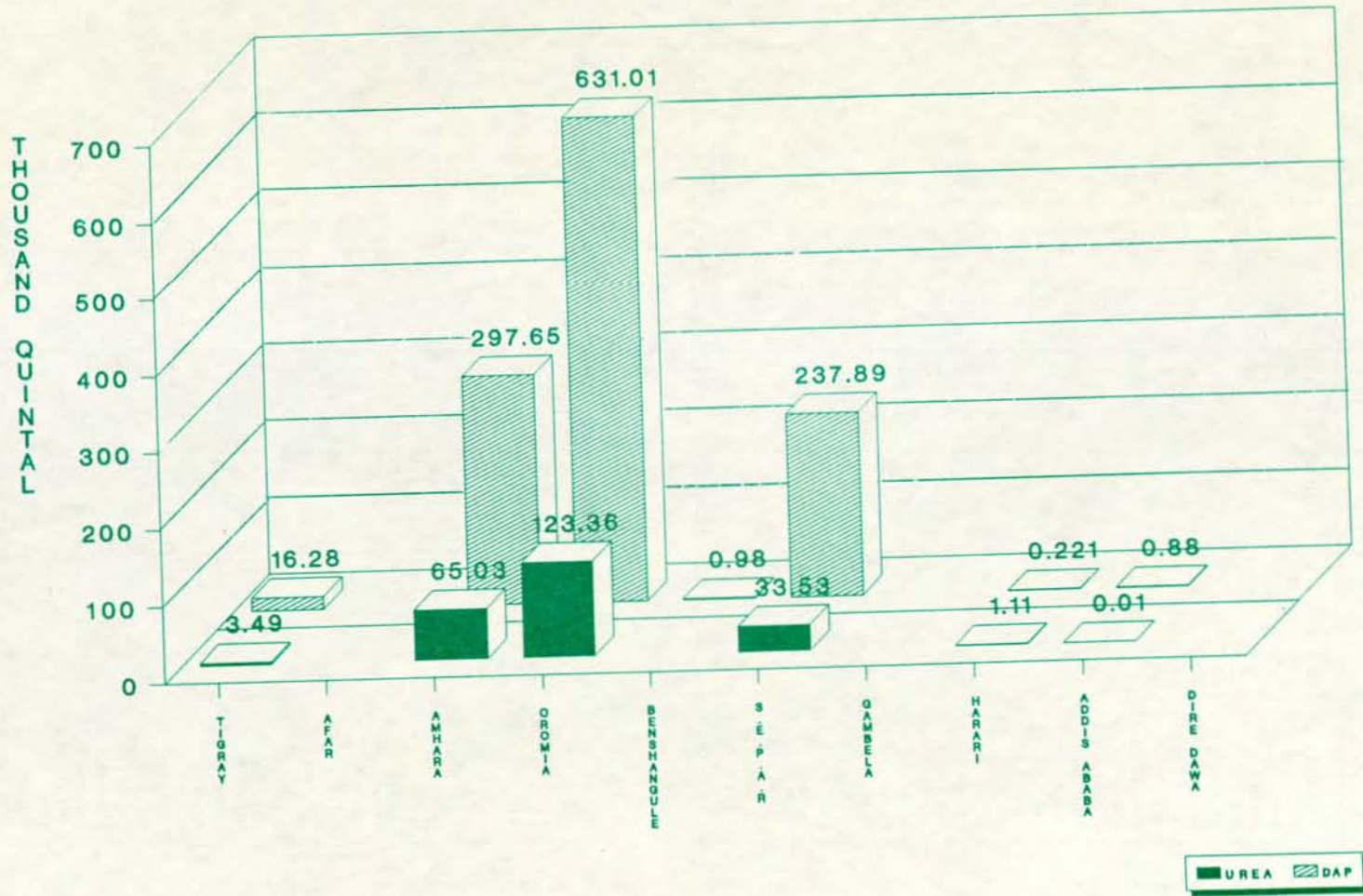


TABLE 2.3.1 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN TIGRAY REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	70.79	41.07	23.49	4.73	-	1.50
Teff	23.56	2.59	18.23	2.16	-	0.59
Barley	8.25	4.44	2.27	1.19	-	0.35
Wheat	5.68	1.63	2.56	1.38	-	0.10
Maize	12.47	11.87	0.36	-	-	0.24
Sorghum	17.29	17.29	-	-	-	-
Millet	3.54	3.24	0.07	-	-	0.22
Oats	-	-	-	-	-	-
PULSES	3.74	2.91	0.57	0.07	-	0.20
Horse Beans	0.38	-	0.38	-	-	-
Chick Peas	0.26	0.26	-	-	-	-
Haricot Bean	1.24	1.24	-	-	-	-
Field Peas	1.71	1.32	0.19	-	-	0.20
Lentils	0.08	0.08	-	-	-	-
Vetch	0.07	-	-	0.07	-	-
OILSEEDS	0.04	0.04	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	0.04	0.04	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	0.22	0.22	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	74.79	44.23	24.06	4.81	-	1.70
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.01	0.01	0.01	-	-	-
TOTAL PERMANENT	0.01	0.01	0.01	-	-	-
ALL CROPS	74.80	44.24	24.07	4.81	-	1.70

TABLE 2.3.2 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN TIGRAY REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	(000' Qt.)	
				DAP + UREA	COMM W/NAT
CEREALS	19.05	15.08	3.36	-	0.62
Teff	13.45	11.63	1.42	-	0.40
Barley	1.73	1.16	0.52	-	0.04
Wheat	3.36	1.91	1.41	-	0.04
Maize	0.31	0.27	-	-	0.04
Sorghum	-	-	-	-	-
Millet	0.20	0.11	-	-	0.09
Oats	-	-	-	-	-
PULSES	1.08	0.91	0.13	-	0.04
Horse Beans	0.37	0.37	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	0.58	0.54	-	-	0.04
Lentils	-	-	-	-	-
Vetch	0.13	-	0.13	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	20.13	15.98	3.49	-	0.66
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	0.30	0.30	-	-	-
TOTAL PERMANENT	0.30	0.30	-	-	-
ALL CROPS	20.43	16.28	3.49	-	0.66

TABLE 2.4.1 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN AFAR REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( '000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	3.94	3.94	-	-	-	-
Teff	1.74	1.74	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	0.11	0.11	-	-	-	-
Sorghum	2.09	2.09	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	3.94	3.94	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-
ALL CROPS	3.94	3.94	-	-	-	-

NOTE:- No commercial fertilizer was reported in the Region.

TABLE 2.5.1 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS AMHARA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP + UREA		NAT + COMM	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	525.80	94.35	76.72	83.57	319.58	95.80	70.90	97.74	51.90	98.76	6.68	98.96
Teff	287.14	51.53	9.68	10.54	181.80	54.50	52.31	72.11	42.19	80.29	1.18	17.48
Barley	55.52	9.96	15.41	16.79	33.24	9.96	4.33	5.97	0.48	0.91	2.06	30.52
Wheat	49.80	8.94	4.99	5.44	29.31	8.79	6.62	9.13	8.14	15.49	0.73	10.81
Maize	66.11	11.86	38.95	42.43	21.81	6.54	2.71	3.74	-	-	2.63	38.96
Sorghum	5.81	1.04	5.56	6.06	0.25	0.07	-	-	-	-	-	-
Millet	61.41	11.02	2.12	2.31	53.17	15.94	4.93	6.80	1.09	2.07	0.08	1.19
Oats	0.01	-	0.01	0.01	-	-	-	-	-	-	-	-
PULSES	17.27	3.10	8.37	9.12	7.70	2.31	1.02	1.41	0.19	0.36	-	-
Horse Beans	8.86	1.59	5.50	5.99	2.75	0.82	0.52	0.72	0.09	0.17	-	-
Chick Peas	0.71	0.13	0.37	0.40	0.24	0.07	-	-	0.10	0.19	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	6.18	1.11	1.51	1.64	4.36	1.31	0.32	0.44	-	-	-	-
Lentils	0.99	0.18	0.88	0.96	0.11	0.03	-	-	-	-	-	-
Vetch	0.53	0.10	0.11	0.12	0.24	0.07	0.18	0.25	-	-	-	-
OILSEEDS	5.73	1.03	1.36	1.48	4.20	1.26	0.16	0.22	-	-	-	-
Neug	5.35	0.96	1.29	1.41	3.95	1.18	0.11	0.15	-	-	-	-
Linseed	0.34	0.06	0.03	0.03	0.25	0.07	0.05	0.07	-	-	-	-
Fenugreek	0.03	0.01	0.03	0.03	-	-	-	-	-	-	-	-
Rapeseed	0.01	-	0.01	0.01	-	-	-	-	-	-	-	-
Other Temporary	0.24	0.04	0.24	0.26	-	-	-	-	-	-	-	-
Spices	1.22	0.22	0.89	0.97	0.14	0.04	-	-	0.16	0.30	0.02	0.30
Potatoes	1.81	0.32	1.33	1.45	0.36	0.11	0.07	0.10	-	-	0.04	0.59
Other Vegetables	2.49	0.45	0.34	0.37	1.62	0.49	0.24	0.33	0.30	0.57	-	-
TOTAL TEMPORARY	554.56	99.52	89.25	97.22	333.60	100.00	72.39	99.79	52.55	100.00	6.73	99.70
Chat	0.43	0.08	0.43	0.47	-	-	-	-	-	-	-	-
Coffee	0.15	0.03	0.15	0.16	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.03	0.01	0.03	0.03	-	-	-	-	-	-	-	-
Other Permanent	2.09	0.38	1.94	2.11	-	-	0.15	0.21	-	-	-	-
TOTAL PERMANENT	2.70	0.48	2.55	2.78	-	-	0.15	0.21	-	-	-	-
ALL CROPS	557.26	100.00	91.80	100.00	333.60	100.00	72.54	100.00	52.55	100.00	6.75	100.00

TABLE 2.5.2 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS  
AMHARA REGION, 1994/95 (1987 E.C.)

( 000' Qt. )

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		NAT + COMM	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	412.28	96.31	285.87	96.04	61.68	94.85	58.32	99.03	6.42	98.92
Teff	246.37	57.56	155.67	52.30	43.07	66.23	46.65	79.22	0.97	14.95
Barley	38.76	9.05	31.76	10.67	4.40	6.77	0.37	0.63	2.23	34.36
Wheat	54.98	12.84	34.48	11.58	9.12	14.02	10.78	18.31	0.60	9.24
Maize	32.37	7.56	27.48	9.23	2.33	3.58	—	—	2.56	39.45
Sorghum	0.01	—	0.01	—	—	—	—	—	—	—
Millet	39.80	9.30	36.46	12.25	2.75	4.23	0.54	0.92	0.06	0.92
Oats	—	—	—	—	—	—	—	—	—	—
PULSES	7.13	1.67	4.93	1.66	2.05	3.15	0.16	0.27	—	—
Horse Beans	3.77	0.88	2.09	0.70	1.61	2.48	0.08	0.14	—	—
Chick Peas	0.27	0.06	0.19	0.06	—	—	0.08	0.14	—	—
Haricot Bean	—	—	—	—	—	—	—	—	—	—
Field Peas	2.46	0.57	2.27	0.76	0.19	0.29	—	—	—	—
Lentils	0.09	0.02	0.09	0.03	—	—	—	—	—	—
Vetch	0.55	0.13	0.30	0.10	0.25	0.38	—	—	—	—
OILSEEDS	1.82	0.43	1.63	0.55	0.18	0.28	—	—	—	—
Neug	1.59	0.37	1.46	0.49	0.13	0.20	—	—	—	—
Linseed	0.21	0.05	0.16	0.05	0.05	0.08	—	—	—	—
Fenugreek	—	—	—	—	—	—	—	—	—	—
Rapeseed	—	—	—	—	—	—	—	—	—	—
Other Temporary	0.19	0.04	0.19	0.06	—	—	—	—	—	—
Spices	0.32	0.07	0.15	0.05	—	—	0.16	0.27	0.01	0.15
Potatoes	1.46	0.34	1.24	0.42	0.14	0.22	—	—	0.07	1.08
Other Vegetables	4.63	1.08	3.63	1.22	0.75	1.15	0.25	0.42	—	—
TOTAL TEMPORARY	427.51	99.87	297.49	99.95	64.80	99.65	58.74	99.75	6.49	100.00
Chat	—	—	—	—	—	—	—	—	—	—
Coffee	—	—	—	—	—	—	—	—	—	—
Enset	—	—	—	—	—	—	—	—	—	—
Fruits	—	—	—	—	—	—	—	—	—	—
Other Permanent	0.23	0.05	—	—	0.23	0.35	—	—	—	—
TOTAL PERMANENT	0.23	0.05	—	—	0.23	0.35	—	—	—	—
ALL CROPS	428.06	100.00	297.65	100.00	65.03	100.00	58.89	100.00	6.49	100.00

TABLE 2.5.3 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, AGEWAWI ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP + UREA	NAT + COMM
<b>CEREALS</b>	47.30	16.31	26.43	0.27	-	4.29
Teff	19.27	2.53	15.59	0.27	-	0.87
Barley	8.64	3.47	3.50	-	-	1.67
Wheat	1.25	0.22	0.59	-	-	0.43
Maize	12.22	9.18	1.72	-	-	1.32
Sorghum	-	-	-	-	-	-
Millet	5.93	0.91	5.02	-	-	-
Oats	-	-	-	-	-	-
<b>PULSES</b>	1.18	0.99	0.20	-	-	-
Horse Beans	0.55	0.35	0.20	-	-	-
Chick Peas	0.16	0.16	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.48	0.48	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
<b>OILSEEDS</b>	0.68	0.36	0.32	-	-	-
Neug	0.61	0.29	0.32	-	-	-
Linseed	0.03	0.03	-	-	-	-
Fenugreek	0.03	0.03	-	-	-	-
Rapeseed	0.01	0.01	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.05	0.05	-	-	-	-
Potatoes	0.74	0.60	0.09	-	-	0.04
Other Vegetables	0.22	0.22	-	-	-	-
<b>TOTAL TEMPORARY</b>	50.13	18.49	27.04	0.27	-	4.34
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Erset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.05	0.05	-	-	-	-
<b>TOTAL PERMANENT</b>	0.05	0.05	-	-	-	-
<b>ALL CROPS</b>	50.23	18.59	27.04	0.27	-	4.34

TABLE 2.5.4 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, AGEWAWI ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Qt. )	
				DAP + UREA	COMM W/NAT
<b>CEREALS</b>	28.14	22.72	0.28	-	5.15
Teff	13.15	12.09	0.28	-	0.78
Barley	6.11	4.01	-	-	2.10
Wheat	0.89	0.55	-	-	0.34
Maize	4.57	2.65	-	-	1.92
Sorghum	-	-	-	-	-
Millet	3.43	3.43	-	-	-
Oats	-	-	-	-	-
<b>PULSES</b>	0.11	0.11	-	-	-
Horse Beans	0.11	0.11	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
<b>OILSEEDS</b>	0.14	0.14	-	-	-
Neug	0.14	0.14	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	0.07	-	-	-	0.07
Other Vegetables	-	-	-	-	-
<b>TOTAL TEMPORARY</b>	28.46	22.97	0.28	-	5.22
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
<b>TOTAL PERMANENT</b>	-	-	-	-	-
<b>ALL CROPS</b>	28.46	22.97	0.28	-	5.22

TABLE 2.5.5 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, EAST GOJAM ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	163.79	10.94	96.40	29.58	25.87	1.00
Teff	118.02	1.07	71.57	21.94	23.14	0.31
Barley	13.28	1.37	8.07	3.45	-	0.39
Wheat	21.02	0.58	14.13	3.27	2.74	0.30
Maize	11.47	7.92	2.64	0.91	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	1.48	0.72	0.39	0.37	-	-
Horse Beans	0.97	0.39	0.39	0.19	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.33	0.33	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	0.18	-	-	0.18	-	-
OILSEEDS	0.44	-	0.38	0.05	-	-
Neug	0.23	-	0.23	-	-	-
Linseed	0.21	-	0.15	0.05	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.36	0.36	-	-	-	-
Potatoes	0.10	-	0.07	0.03	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	165.81	11.66	97.24	30.03	25.87	1.00
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.25	0.25	-	-	-	-
TOTAL PERMANENT	0.25	0.25	-	-	-	-
ALL CROPS	166.42	12.27	97.24	30.03	25.87	1.00

TABLE 2.5.6 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, EAST GOJAM ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	(000' Qt.)	
				DAP + UREA	COMM W/NAT
CEREALS	143.71	80.73	25.22	37.19	0.57
Teff	106.42	55.85	18.01	32.37	0.19
Barley	12.84	8.94	3.77	-	0.13
Wheat	20.29	12.69	2.52	4.82	0.26
Maize	4.16	3.25	0.91	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	1.49	0.34	1.15	-	-
Horse Beans	1.24	0.34	0.90	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	0.25	-	0.25	-	-
OILSEEDS	0.19	0.13	0.05	-	-
Neug	0.10	0.10	-	-	-
Linseed	0.08	0.03	0.05	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	0.26	0.13	0.13	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	145.64	81.33	26.55	37.19	0.57
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALL CROPS	145.64	81.33	26.55	37.19	0.57

TABLE 2.5.7 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, WEST GOJAM ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	164.31	16.94	131.26	13.54	1.26	1.31
Teff	65.00	1.20	54.64	7.91	1.26	-
Barley	22.43	4.13	17.58	0.72	-	-
Wheat	5.35	0.83	4.13	0.39	-	-
Maize	30.36	10.55	16.70	1.80	-	1.31
Sorghum	-	-	-	-	-	-
Millet	41.18	0.23	38.21	2.73	-	-
Oats	-	-	-	-	-	-
PULSES	8.62	2.30	6.13	0.11	0.09	-
Horse Beans	2.72	0.69	1.83	0.11	0.09	-
Chick Peas	0.03	0.03	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	4.68	0.63	4.06	-	-	-
Lentils	0.84	0.84	-	-	-	-
Vetch	0.35	0.11	0.24	-	-	-
OILSEEDS	3.64	0.42	3.11	0.11	-	-
Neug	3.64	0.42	3.11	0.11	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.44	0.37	0.05	-	-	0.02
Potatoes	0.27	0.03	0.20	0.04	-	-
Other Vegetables	0.13	0.11	0.02	-	-	-
TOTAL TEMPORARY	176.97	19.80	140.71	13.80	1.34	1.31
Chat	0.01	0.01	-	-	-	-
Coffee	0.03	0.03	-	-	-	-
Erset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.19	0.19	-	-	-	-
TOTAL PERMANENT	0.23	0.23	-	-	-	-
ALL CROPS	177.64	20.40	140.77	13.80	1.34	1.33

TABLE 2.5.8 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, WEST GOJAM ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	(000' Qt.)	
				DAP + UREA	COMM W/NAT
CEREALS	119.15	108.24	9.27	1.01	0.64
Teff	48.22	41.92	5.29	1.01	-
Barley	14.75	14.31	0.44	-	-
Wheat	3.66	3.09	0.56	-	-
Maize	23.27	21.21	1.42	-	0.64
Sorghum	-	-	-	-	-
Millet	29.25	27.70	1.55	-	-
Oats	-	-	-	-	-
PULSES	3.56	3.45	0.04	0.08	-
Horse Beans	1.17	1.06	0.04	0.08	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	2.09	2.09	-	-	-
Lentils	-	-	-	-	-
Vetch	0.30	0.30	-	-	-
OILSEEDS	1.14	1.01	0.13	-	-
Neug	1.14	1.01	0.13	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	0.04	0.03	-	-	0.01
Potatoes	1.13	1.11	0.01	-	-
Other Vegetables	0.03	0.03	-	-	-
TOTAL TEMPORARY	125.02	113.84	9.45	1.08	0.64
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALL CROPS	125.06	113.88	9.45	1.08	0.64

TABLE 2.5.9 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, NORTH GONDER ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( '000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	41.48	9.73	13.70	15.25	2.71	0.08
Teff	27.48	0.73	9.93	14.12	2.71	-
Barley	1.34	0.55	0.79	-	-	-
Wheat	0.23	0.23	-	-	-	-
Maize	5.99	5.94	0.04	-	-	-
Sorghum	1.45	1.45	-	-	-	-
Millet	4.99	0.83	2.94	1.13	-	0.08
Oats	-	-	-	-	-	-
PULSES	0.07	-	0.07	-	-	-
Horse Beans	0.07	-	0.07	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	0.56	0.56	-	-	-	-
Neug	0.56	0.56	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	0.24	0.24	-	-	-	-
Spices	0.06	0.05	0.01	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	0.08	0.01	0.02	0.05	-	-
TOTAL TEMPORARY	42.44	10.55	13.80	15.29	2.71	0.08
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	0.03	0.03	-	-	-	-
Other Permanent	1.18	1.03	-	0.15	-	-
TOTAL PERMANENT	1.21	1.06	-	0.15	-	-
ALL CROPS	43.71	11.66	13.81	15.45	2.71	0.08

TABLE 2.5.10 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, NORTH GONDER ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( '000' Qt. )	
				DAP + UREA	COMM W/NAT
CEREALS	17.06	8.16	7.80	1.04	0.06
Teff	14.52	6.42	7.05	1.04	-
Barley	0.16	0.16	-	-	-
Wheat	-	-	-	-	-
Maize	0.03	0.03	-	-	-
Sorghum	-	-	-	-	-
Millet	2.35	1.55	0.75	-	0.06
Oats	-	-	-	-	-
PULSES	0.12	0.12	-	-	-
Horse Beans	0.12	0.12	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	0.04	0.04	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	0.19	0.01	0.18	-	-
TOTAL TEMPORARY	17.37	8.29	7.98	1.04	0.06
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	0.23	-	0.23	-	-
TOTAL PERMANENT	0.23	-	0.23	-	-
ALL CROPS	17.64	8.33	8.21	1.04	0.06

TABLE 2.5.11 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, SOUTH GONDER ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	42.83	3.80	23.14	4.44	11.46	-
Teff	24.21	0.14	12.06	3.37	8.65	-
Barley	2.41	0.34	1.82	-	0.25	-
Wheat	3.10	0.09	1.54	-	1.47	-
Maize	3.80	3.09	0.71	-	-	-
Sorghum	-	-	-	-	-	-
Millet	9.31	0.15	7.00	1.07	1.09	-
Oats	-	-	-	-	-	-
PULSES	0.49	0.04	0.45	-	-	-
Horse Beans	0.26	-	0.26	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.19	-	0.19	-	-	-
Lentils	0.04	0.04	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	0.39	-	0.39	-	-	-
Neug	0.29	-	0.29	-	-	-
Linseed	0.10	-	0.10	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.25	-	0.08	-	0.16	-
Potatoes	0.70	0.70	-	-	-	-
Other Vegetables	0.30	-	-	-	0.30	-
TOTAL TEMPORARY	44.71	4.55	23.98	4.44	11.76	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Erset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.04	0.04	-	-	-	-
TOTAL PERMANENT	0.04	0.04	-	-	-	-
ALL CROPS	45.00	4.58	24.06	4.44	11.92	-

TABLE 2.5.12 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, SOUTH GONDER ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	(000' Qt.)	
				DAP + UREA	COMM W/NAT
CEREALS	26.10	16.19	1.95	7.96	-
Teff	16.27	9.01	1.50	5.76	-
Barley	1.70	1.52	-	0.18	-
Wheat	3.02	1.53	-	1.49	-
Maize	0.34	0.34	-	-	-
Sorghum	-	-	-	-	-
Millet	4.77	3.78	0.45	0.54	-
Oats	-	-	-	-	-
PULSES	0.54	0.54	-	-	-
Horse Beans	0.46	0.46	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	0.09	0.09	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	0.35	0.35	-	-	-
Neug	0.21	0.21	-	-	-
Linseed	0.13	0.13	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	0.24	0.08	-	0.16	-
Potatoes	-	-	-	-	-
Other Vegetables	0.25	-	-	0.25	-
TOTAL TEMPORARY	27.24	17.08	1.95	8.22	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALL CROPS	27.48	17.16	1.95	8.37	-

TABLE 2.5.13 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, NORTH SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	59.72	13.37	27.95	7.82	10.58	-
Teff	31.99	3.28	17.57	4.70	6.43	-
Barley	5.92	4.05	1.48	0.16	0.23	-
Wheat	18.19	2.41	8.89	2.96	3.93	-
Maize	0.52	0.52	-	-	-	-
Sorghum	3.10	3.10	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	4.09	3.00	0.45	0.54	0.10	-
Horse Beans	3.03	2.81	-	0.22	-	-
Chick Peas	0.52	0.18	0.24	-	0.10	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.43	-	0.11	0.32	-	-
Lentils	0.11	-	0.11	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	0.02	0.02	-	-	-	-
Neug	0.02	0.02	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.06	0.06	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	1.76	-	1.58	0.19	-	-
TOTAL TEMPORARY	65.59	16.38	29.98	8.55	10.69	-
Chat	-	-	-	-	-	-
Coffee	0.06	0.06	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.36	0.36	-	-	-	-
TOTAL PERMANENT	0.42	0.42	-	-	-	-
ALLCROPS	66.07	16.86	29.98	8.55	10.69	-

TABLE 2.5.14 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, NORTH SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Qt. )	
				DAP + UREA	COMM W/NAT
CEREALS	77.97	49.68	17.16	11.12	-
Teff	47.65	30.24	10.94	6.47	-
Barley	3.20	2.82	0.19	0.19	-
Wheat	27.12	16.62	6.04	4.47	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	1.31	0.37	0.86	0.08	-
Horse Beans	0.67	-	0.67	-	-
Chick Peas	0.27	0.19	-	0.08	-
Haricot Bean	-	-	-	-	-
Field Peas	0.28	0.09	0.19	-	-
Lentils	0.09	0.09	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	0.19	0.19	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	4.16	3.59	0.57	-	-
TOTAL TEMPORARY	83.63	53.83	18.59	11.21	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALLCROPS	83.63	53.83	18.59	11.21	-

TABLE 2.5.15 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, OROMIA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA)	
					DAP +UREA	NAT + COMM
CEREALS	1.93	1.93	-	-	-	-
Teff	0.46	0.46	-	-	-	-
Barley	0.02	0.02	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	0.43	0.43	-	-	-	-
Sorghum	1.01	1.01	-	-	-	-
Millet	-	-	-	-	-	-
Oats	0.01	0.01	-	-	-	-
PULSES	0.27	0.27	-	-	-	-
Horse Beans	0.19	0.19	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.07	0.07	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	2.19	2.19	-	-	-	-
Chat	0.42	0.42	-	-	-	-
Coffee	0.06	0.06	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.02	0.02	-	-	-	-
TOTAL PERMANENT	0.49	0.49	-	-	-	-
ALL CROPS	2.69	2.69	-	-	-	-

NOTE:- No commercial fertilizer was reported in the zone.

TABLE 2.5.16 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, WAG-HAMRA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA)					
	TOTAL	NATURAL	DAP	UREA	DAP +UREA	NAT + COMM
CEREALS	0.17	0.17	-	-	-	-
Teff	0.05	0.05	-	-	-	-
Barley	0.12	0.12	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	0.17	0.17	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-
ALL CROPS	0.17	0.17	-	-	-	-

NOTE:- No commercial fertilizer was reported in the zone.

TABLE 2.5.17 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN  
Amhara Region, NORTH WOLO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP, +UREA	NAT + COMM
CEREALS	0.97	0.97	-	-	-	-
Teff	0.22	0.22	-	-	-	-
Barley	0.09	0.09	-	-	-	-
Wheat	0.63	0.63	-	-	-	-
Maize	0.02	0.02	-	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	0.50	0.50	-	-	-	-
Horse Beans	0.50	0.50	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	-	-	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	1.47	1.47	-	-	-	-
ALL CROPS	1.47	1.47	-	-	-	-

NOTE:- No commercial fertilizer was reported in the zone.

TABLE 2.5.18 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, SOUTH WOLO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	3.30	2.58	0.72	-	-	-
Teff	0.44	-	0.44	-	-	-
Barley	1.27	1.27	-	-	-	-
Wheat	0.03	-	0.03	-	-	-
Maize	1.30	1.30	-	-	-	-
Sorghum	0.25	-	0.25	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	0.57	0.57	-	-	-	-
Horse Beans	0.57	0.57	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	3.86	3.14	0.72	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	0.01	0.01	-	-	-	-
ALLCROPS	3.87	3.15	0.72	-	-	-

TABLE 2.5.19 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Amhara Region, SOUTH WOLO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Qt. )	
				DAP + UREA	COMM W/NAT
CEREALS	0.15	0.15	-	-	-
Teff	0.14	0.14	-	-	-
Barley	0.00	0.00	-	-	-
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	0.01	0.01	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	0.15	0.15	-	-	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALLCROPS	0.15	0.15	-	-	-

0.00 - Insignificant

TABLE 2.6.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS  
OROMIA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)											
	TOTAL		NATURAL		DAP		UREA		DAP + UREA		NAT + COMM	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	1065.07	91.37	91.07	76.30	661.42	91.42	148.03	96.02	156.49	97.65	8.04	95.83
Teff	430.64	36.94	4.13	3.46	273.51	37.80	45.35	29.42	106.14	66.23	1.51	18.00
Barley	178.50	15.31	4.24	3.55	150.28	20.77	19.08	12.38	4.64	2.90	0.26	3.10
Wheat	263.52	22.61	3.13	2.62	156.58	21.64	59.67	38.71	42.51	26.53	1.62	19.31
Maize	143.28	12.29	67.32	56.41	59.48	8.22	10.00	6.49	2.80	1.75	3.69	43.98
Sorghum	27.42	2.35	11.82	9.90	4.66	0.64	9.80	6.36	0.17	0.11	0.96	11.44
Millet	10.65	0.91	0.43	0.36	9.21	1.27	1.01	0.66	-	-	-	-
Oats	11.06	0.95	-	-	7.70	1.06	3.12	2.02	0.23	0.14	-	-
PULSES	54.07	4.64	5.85	4.90	43.11	5.96	3.54	2.30	1.45	0.90	0.12	1.43
Horse Beans	28.94	2.48	4.65	3.90	22.07	3.05	1.95	1.26	0.22	0.14	0.07	0.83
Chick Peas	2.36	0.20	0.34	0.28	2.02	0.28	-	-	-	-	-	-
Haricot Bean	9.52	0.82	0.36	0.30	8.58	1.19	0.59	0.38	-	-	-	-
Field Peas	6.72	0.58	0.37	0.31	4.89	0.68	0.65	0.42	0.80	0.50	-	-
Lentils	4.01	0.34	-	-	3.19	0.44	0.32	0.21	0.43	0.27	0.05	0.60
Vetch	2.52	0.22	0.13	0.11	2.36	0.33	0.03	0.02	-	-	-	-
OILSEEDS	11.95	1.03	0.90	0.75	8.52	1.18	0.47	0.30	2.08	1.30	-	-
Neug	0.90	0.08	0.27	0.23	0.50	0.07	0.13	0.08	-	-	-	-
Linseed	5.59	0.48	0.56	0.47	4.74	0.66	0.29	0.19	-	-	-	-
Fenugreek	1.27	0.11	0.02	0.02	1.02	0.14	0.01	0.01	0.23	0.14	-	-
Rapeseed	4.19	0.36	0.05	0.04	2.26	0.31	0.04	0.03	1.85	1.15	-	-
Other Temporary	0.16	0.01	0.07	0.06	0.09	0.01	-	-	-	-	-	-
Spices	2.03	0.17	1.31	1.10	0.57	0.08	0.06	0.04	-	-	0.10	1.19
Potatoes	9.11	0.78	1.91	1.60	6.84	0.95	0.22	0.14	0.09	0.06	0.04	0.48
Other Vegetables	5.19	0.45	2.33	1.95	2.27	0.31	0.42	0.27	0.14	0.09	0.02	0.24
TOTAL TEMPORARY	1147.58	98.45	103.44	86.67	722.82	99.91	152.74	99.08	160.25	100.00	8.22	97.97
Chat	4.62	0.40	3.56	2.98	0.09	0.01	0.92	0.60	-	-	0.07	0.83
Coffee	1.74	0.15	1.21	1.01	0.03	-	0.50	0.32	-	-	-	-
Enset	10.55	0.91	10.09	8.45	0.47	0.06	-	-	-	-	-	-
Fruits	0.05	-	0.05	0.04	-	-	-	-	-	-	-	-
Other Permanent	1.09	0.09	1.00	0.84	0.09	0.01	-	-	-	-	-	-
TOTAL PERMANENT	18.05	1.55	15.91	13.33	0.68	0.09	1.42	0.92	-	-	0.07	0.83
ALL CROPS	1165.63	100.00	119.35	100.00	723.50	100.00	154.16	100.00	160.25	100.00	8.39	100.00

TABLE 2.6.2 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS  
OROMIA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		NAT + COMM	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	1020.83	93.52	575.04	91.13	103.99	92.55	334.24	98.52	7.53	85.18
Teff	482.28	44.18	223.87	35.48	36.21	32.23	220.46	64.98	1.76	19.91
Barley	145.65	13.34	126.50	20.05	10.78	9.59	8.08	2.38	0.29	3.28
Wheat	288.26	26.41	147.60	23.39	41.51	36.94	97.25	28.66	1.91	21.61
Maize	82.58	7.57	63.88	10.12	7.87	7.00	7.81	2.30	3.02	34.16
Sorghum	10.32	0.95	3.84	0.61	5.71	5.08	0.22	0.06	0.55	6.22
Millet	4.94	0.45	4.48	0.71	0.46	0.41	-	-	-	-
Oats	6.79	0.62	4.87	0.77	1.46	1.30	0.46	0.14	-	-
PULSES	39.21	3.59	35.08	5.56	2.52	2.24	1.39	0.41	0.24	2.71
Horse Beans	21.90	2.01	20.12	3.19	1.33	1.18	0.29	0.09	0.16	1.81
Chick Peas	1.57	0.14	1.57	0.25	-	-	-	-	-	-
Haricot Bean	7.69	0.70	7.03	1.11	0.65	0.58	-	-	-	-
Field Peas	3.97	0.36	3.45	0.55	0.18	0.16	0.34	0.10	-	-
Lentils	3.07	0.28	1.90	0.30	0.34	0.30	0.76	0.22	0.08	0.90
Vetch	0.98	0.09	0.96	0.15	0.02	0.02	-	-	-	-
OILSEEDS	8.02	0.73	5.41	0.86	0.30	0.27	2.32	0.68	-	-
Neug	0.99	0.09	0.81	0.13	0.19	0.17	-	-	-	-
Linseed	2.63	0.24	2.57	0.41	0.07	0.06	-	-	-	-
Fenugreek	1.16	0.11	0.66	0.10	0.01	0.01	0.50	0.15	-	-
Rapeseed	3.24	0.30	1.38	0.22	0.03	0.03	1.82	0.54	-	-
Other Temporary	0.29	0.03	0.29	0.05	-	-	-	-	-	-
Spices	0.87	0.08	0.76	0.12	0.02	0.02	-	-	0.07	0.79
Potatoes	11.25	1.03	9.07	1.44	1.08	0.96	0.26	0.08	0.84	9.50
Other Vegetables	8.15	0.75	3.22	0.51	3.74	3.33	1.04	0.31	0.16	1.81
TOTAL TEMPORARY	1087.77	99.66	628.10	99.54	111.58	99.31	339.27	100.00	8.76	99.10
Chat	0.69	0.06	-	-	0.54	0.48	-	-	0.01	0.11
Coffee	0.35	0.03	0.13	0.02	0.22	0.20	-	-	-	-
Enset	0.91	0.08	0.91	0.14	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.95	0.09	0.95	0.15	-	-	-	-	-	-
TOTAL PERMANENT	2.90	0.27	2.13	0.34	0.76	0.68	-	-	0.01	0.11
ALL CROPS	1091.52	100.00	631.01	100.00	112.36	100.00	339.27	100.00	8.84	100.00

( 000' Qt )

TABLE 2.6.3 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, ARSI ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	298.46	3.86	224.02	68.24	2.22	0.12
Teff	43.07	0.35	31.00	11.72	-	-
Barley	98.24	0.46	85.96	9.95	1.87	-
Wheat	137.76	0.29	95.17	42.18	0.12	-
Maize	12.40	2.77	6.89	2.63	-	0.12
Sorghum	1.73	-	0.29	1.44	-	-
Millet	-	-	-	-	-	-
Oats	5.25	-	4.70	0.32	0.23	-
PULSES	24.07	0.36	21.89	1.82	-	-
Horse Beans	20.47	0.36	18.67	1.44	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	2.65	-	2.34	0.31	-	-
Lentils	0.86	-	0.79	0.07	-	-
Vetch	0.08	-	0.08	-	-	-
OILSEEDS	8.52	0.33	6.13	0.22	1.85	-
Neug	0.01	0.01	-	-	-	-
Linseed	4.75	0.32	4.22	0.21	-	-
Fenugreek	0.16	-	0.15	0.01	-	-
Rapeseed	3.60	-	1.76	-	1.85	-
Other Temporary	-	-	-	-	-	-
Spices	0.30	0.06	0.18	0.06	-	-
Potatoes	0.81	0.43	0.37	-	-	-
Other Vegetables	1.82	0.64	1.18	-	-	-
TOTAL TEMPORARY	333.67	5.62	253.59	70.28	4.06	0.12
Chat	0.36	0.25	0.05	-	-	0.07
Coffee	0.15	0.15	-	-	-	-
Erset	2.22	2.22	-	-	-	-
Fruits	0.01	0.01	-	-	-	-
Other Permanent	0.34	0.27	0.07	-	-	-
TOTAL PERMANENT	3.08	2.90	0.12	-	-	0.07
ALL CROPS	337.06	8.58	253.89	70.34	4.06	0.19

TABLE 2.6.4 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, ARSI ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	(000' Qt.)	
				DAP + UREA	COMM W/NAT
CEREALS	255.07	208.63	43.78	2.62	0.04
Teff	34.49	28.71	5.78	-	-
Barley	78.45	71.19	5.32	1.94	-
Wheat	129.98	98.57	31.18	0.23	-
Maize	7.33	6.48	0.81	-	0.04
Sorghum	0.78	0.18	0.60	-	-
Millet	-	-	-	-	-
Oats	4.05	3.50	0.09	0.46	-
PULSES	19.69	18.87	0.82	-	-
Horse Beans	17.79	17.05	0.74	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	1.54	1.47	0.07	-	-
Lentils	0.35	0.34	0.01	-	-
Vetch	-	-	-	-	-
OILSEEDS	5.37	3.53	0.02	1.82	-
Neug	-	-	-	-	-
Linseed	2.40	2.40	0.01	-	-
Fenugreek	0.09	0.09	0.01	-	-
Rapeseed	2.88	1.05	-	1.82	-
Other Temporary	0.11	0.11	-	-	-
Spices	0.26	0.23	0.02	-	-
Potatoes	0.64	0.64	-	-	-
Other Vegetables	1.41	1.41	-	-	-
TOTAL TEMPORARY	282.30	233.19	44.62	4.45	0.04
Chat	0.13	-	-	-	0.01
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	0.88	0.88	-	-	-
TOTAL PERMANENT	1.01	1.00	-	-	0.01
ALL CROPS	283.57	234.43	44.64	4.45	0.05

TABLE 2.6.5 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, BALE ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	56.22	0.52	37.66	18.05	-	-
Teff	1.14	-	1.04	0.10	-	-
Barley	18.72	0.05	12.27	6.41	-	-
Wheat	30.42	0.46	21.26	8.70	-	-
Maize	0.19	-	0.15	0.04	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	5.75	-	2.94	2.80	-	-
PULSES	1.52	-	0.95	0.57	-	-
Horse Beans	0.52	-	0.38	0.15	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.55	-	0.21	0.34	-	-
Lentils	0.42	-	0.36	0.05	-	-
Vetch	0.03	-	-	0.03	-	-
OILSEEDS	0.25	-	0.17	0.08	-	-
Neug	-	-	-	-	-	-
Linseed	0.09	-	0.01	0.08	-	-
Fenugreek	0.16	-	0.16	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	0.07	-	-	0.07	-	-
TOTAL TEMPORARY	58.06	0.52	38.78	18.77	-	-
Chat	0.09	0.09	-	-	-	-
Coffee	-	-	-	-	-	-
Erset	0.05	0.05	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	0.15	0.15	-	-	-	-
ALL CROPS	58.21	0.66	38.78	18.77	-	-

TABLE 2.6.6 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, BALE ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	(000' Qt.)	
				DAP + UREA	COMM W/NAT
CEREALS	31.50	22.16	9.34	-	-
Teff	0.94	0.92	0.02	-	-
Barley	12.52	8.71	3.81	-	-
Wheat	15.23	11.11	4.12	-	-
Maize	0.18	0.16	0.02	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	2.63	1.26	1.37	-	-
PULSES	0.71	0.30	0.41	-	-
Horse Beans	0.42	0.16	0.26	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	0.21	0.10	0.11	-	-
Lentils	0.05	0.04	0.02	-	-
Vetch	0.02	-	0.02	-	-
OILSEEDS	0.11	0.05	0.06	-	-
Neug	-	-	-	-	-
Linseed	0.07	0.01	0.06	-	-
Fenugreek	0.05	0.05	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	0.01	-	0.01	-	-
TOTAL TEMPORARY	32.33	22.52	9.81	-	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALL CROPS	32.33	22.52	9.81	-	-

TABLE 2.6.7 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, BORENA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	0.47	-	0.47	-	-	-
Teff	0.07	-	0.07	-	-	-
Barley	-	-	-	-	-	-
Wheat	0.29	-	0.29	-	-	-
Maize	0.11	-	0.11	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	0.01	0.01	-	-	-	-
TOTAL TEMPORARY	0.48	0.01	0.47	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	0.45	0.45	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	0.45	0.45	-	-	-	-
ALL CROPS	0.93	0.46	0.47	-	-	-

TABLE 2.6.8 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, BORENA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Ql. )	
				DAP + UREA	COMM W/NAT
CEREALS	0.68	0.68	-	-	-
Teff	0.13	0.13	-	-	-
Barley	-	-	-	-	-
Wheat	0.13	0.13	-	-	-
Maize	0.42	0.42	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	0.68	0.68	-	-	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALL CROPS	0.68	0.68	-	-	-

TABLE 2.6.9 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, EAST HARERGE ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP +UREA	NAT + COMM
CEREALS	26.76	8.67	1.80	11.81	2.05	2.43
Teff	1.09	0.07	0.03	0.96	0.02	-
Barley	0.31	0.25	0.04	-	0.02	-
Wheat	2.12	0.71	0.05	1.33	0.03	-
Maize	8.64	2.53	0.39	2.44	1.80	1.47
Sorghum	14.54	5.10	1.23	7.08	0.17	0.96
Millet	-	-	-	-	-	-
Oats	0.06	-	0.06	-	-	-
PULSES	0.46	0.27	0.18	-	-	-
Horse Beans	0.38	0.27	0.11	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.07	-	0.07	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.07	0.07	-	-	-	-
Potatoes	0.77	0.25	0.28	0.18	0.02	0.04
Other Vegetables	1.04	0.65	0.05	0.28	0.06	-
TOTAL TEMPORARY	29.04	9.84	2.32	12.27	2.13	2.48
Chat	2.50	1.61	-	0.89	-	-
Coffee	0.87	0.87	-	-	-	-
Erset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	3.37	2.48	-	0.89	-	-
ALL CROPS	32.48	12.39	2.32	13.16	2.13	2.48

TABLE 2.6.10 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, EAST HARERGE ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Qt. )	
				DAP +UREA	COMM W/NAT
CEREALS	24.42	6.03	8.79	7.41	2.18
Teff	0.94	0.01	0.80	0.13	-
Barley	0.15	0.08	-	0.07	-
Wheat	1.28	0.05	1.10	0.13	-
Maize	15.70	4.63	2.58	6.86	1.63
Sorghum	6.24	1.15	4.32	0.22	0.55
Millet	-	-	-	-	-
Oats	0.11	0.11	-	-	-
PULSES	0.09	0.09	-	-	-
Horse Beans	0.07	0.07	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	0.01	0.01	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	2.38	0.37	1.05	0.12	0.84
Other Vegetables	4.17	0.07	3.47	0.63	-
TOTAL TEMPORARY	31.05	6.55	13.31	8.16	3.02
Chat	0.28	-	0.28	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.28	-	0.28	-	-
ALL CROPS	31.33	6.55	13.59	8.16	3.02

TABLE 2.6.11 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, WEST HARERGE ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)					
	TOTAL	NATURAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	5.14	3.82	0.39	0.93	-	-
Teff	0.39	-	0.39	-	-	-
Barley	0.37	0.37	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	1.67	1.49	-	0.18	-	-
Sorghum	2.72	1.96	-	0.75	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	0.04	0.04	-	-	-	-
Horse Beans	0.04	0.04	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	0.03	0.03	-	-	-	-
TOTAL TEMPORARY	5.21	3.88	0.39	0.93	-	-
Chat	1.16	1.13	0.04	-	-	-
Coffee	0.05	0.05	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	1.21	1.18	0.04	-	-	-
ALL CROPS	6.42	5.06	0.43	0.93	-	-

TABLE 2.6.12 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, WEST HARERGE ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' Qt.)				
	TOTAL	DAP	UREA	DAP + UREA	COMM W/NAT
CEREALS	1.52	0.64	0.87	-	-
Teff	0.64	0.64	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	0.31	-	0.31	-	-
Sorghum	0.57	-	0.57	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	1.52	0.64	0.87	-	-
Chat	0.02	0.02	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.02	0.02	-	-	-
ALL CROPS	1.54	0.66	0.87	-	-

TABLE 2.6.13 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, ILUBABOR ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP +UREA	NAT + COMM
CEREALS	19.12	2.57	11.40	5.08	-	0.08
Teff	12.57	0.16	8.69	3.65	-	0.08
Barley	2.24	0.36	1.88	-	-	-
Wheat	-	-	-	-	-	-
Maize	3.74	2.04	0.67	1.03	-	-
Sorghum	0.56	-	0.16	0.40	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	0.30	-	0.30	-	-	-
Horse Beans	0.11	-	0.11	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.19	-	0.19	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	0.01	0.01	-	-	-	-
TOTAL TEMPORARY	19.43	2.58	11.70	5.08	-	0.08
Chat	0.13	0.10	-	0.03	-	-
Coffee	-	-	-	-	-	-
Erset	0.47	0.47	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	0.60	0.57	-	0.03	-	-
ALLCROPS	20.03	3.15	11.70	5.11	-	0.08

TABLE 2.6.14 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, ILUBABOR ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Qt. )	
				DAP +UREA	COMM W/NAT
CEREALS	9.22	4.88	4.32	-	0.02
Teff	6.55	3.93	2.60	-	0.02
Barley	0.10	0.10	-	-	-
Wheat	-	-	-	-	-
Maize	2.27	0.73	1.54	-	-
Sorghum	0.30	0.12	0.18	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	0.31	0.31	-	-	-
Horse Beans	0.10	0.10	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	0.21	0.21	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	9.54	5.19	4.32	-	0.02
Chat	0.26	-	0.26	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.26	-	0.26	-	-
ALLCROPS	9.79	5.19	4.58	-	0.02

TABLE 2.6.15 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, JIMA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)					
	TOTAL	NATURAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	61.77	2.67	55.05	4.04	-	-
Teff	39.86	0.20	36.27	3.39	-	-
Barley	-	-	-	-	-	-
Wheat	0.76	-	0.73	0.03	-	-
Maize	20.77	2.41	17.74	0.62	-	-
Sorghum	0.38	0.07	0.31	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	0.11	0.03	-	0.08	-	-
Horse Beans	0.08	-	-	0.08	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	0.03	0.03	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	0.03	-	0.03	-	-	-
Neug	-	-	-	-	-	-
Linseed	0.03	-	0.03	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.01	0.01	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	0.68	0.30	0.33	0.04	-	-
TOTAL TEMPORARY	62.59	3.00	55.41	4.17	-	-
Chat	0.22	0.22	-	-	-	-
Coffee	0.06	0.06	-	-	-	-
Enset	0.74	0.74	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.08	0.08	-	-	-	-
TOTAL PERMANENT	1.09	1.09	-	-	-	-
ALLCROPS	63.69	4.11	55.41	4.17	-	-

TABLE 2.6.16 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, JIMA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' Qt.)				
	TOTAL	DAP	UREA	DAP + UREA	COMM W/NAT
CEREALS	73.15	68.38	4.77	-	-
Teff	43.96	39.92	4.05	-	-
Barley	-	-	-	-	-
Wheat	1.05	0.99	0.06	-	-
Maize	28.13	27.46	0.67	-	-
Sorghum	0.01	0.01	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	0.06	0.00	0.06	-	-
Horse Beans	0.06	-	0.06	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	0.00	0.00	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	0.55	0.38	0.17	-	-
TOTAL TEMPORARY	73.76	68.76	4.99	-	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALLCROPS	73.76	68.76	4.99	-	-

0.00 - Insignificant

TABLE 2.6.17 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, EAST SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	182.72	16.44	89.90	3.77	72.45	0.16
Teff	100.54	0.19	46.91	2.54	50.90	-
Barley	4.55	-	4.01	0.08	0.45	-
Wheat	32.74	0.35	11.73	0.56	20.10	-
Maize	43.44	15.71	25.98	0.59	1.00	0.16
Sorghum	1.38	0.20	1.18	-	-	-
Millet	0.08	-	0.08	-	-	-
Oats	-	-	-	-	-	-
PULSES	13.97	0.34	11.53	0.72	1.39	-
Horse Beans	0.44	0.05	0.23	-	0.16	-
Chick Peas	1.04	-	1.04	-	-	-
Haricot Bean	9.45	0.29	8.58	0.59	-	-
Field Peas	0.80	-	-	-	0.80	-
Lentils	1.70	-	1.14	0.13	0.43	-
Vetch	0.53	-	0.53	-	-	-
OILSEEDS	0.09	-	0.08	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	0.08	-	0.08	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	0.09	-	0.09	-	-	-
Spices	0.32	-	0.32	-	-	-
Potatoes	5.98	-	5.98	-	-	-
Other Vegetables	0.06	0.03	0.03	-	-	-
TOTAL TEMPORARY	202.90	16.81	107.61	4.48	73.83	0.16
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Erset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.05	0.04	0.01	-	-	-
TOTAL PERMANENT	0.05	0.04	0.01	-	-	-
ALL CROPS	203.27	16.85	107.94	4.48	73.83	0.16

TABLE 2.6.18 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, EAST SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Qt. )	
				DAP + UREA	COMM W/NAT
CEREALS	231.22	68.78	4.60	157.66	0.17
Teff	146.60	37.72	4.05	104.84	-
Barley	6.14	4.32	0.03	1.79	-
Wheat	60.20	9.80	0.31	50.09	-
Maize	16.69	15.35	0.21	0.95	0.17
Sorghum	1.40	1.40	-	-	-
Millet	0.18	0.18	-	-	-
Oats	-	-	-	-	-
PULSES	11.54	9.47	0.70	1.37	-
Horse Beans	0.51	0.24	-	0.27	-
Chick Peas	0.68	0.68	-	-	-
Haricot Bean	7.69	7.03	0.65	-	-
Field Peas	0.34	-	-	0.34	-
Lentils	1.89	1.08	0.05	0.76	-
Vetch	0.43	0.43	-	-	-
OILSEEDS	0.03	0.03	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	0.03	0.03	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	0.18	0.18	-	-	-
Spices	0.14	0.14	-	-	-
Potatoes	7.50	7.50	-	-	-
Other Vegetables	0.02	0.02	-	-	-
TOTAL TEMPORARY	250.49	85.98	5.30	159.04	0.17
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	0.01	0.01	-	-	-
TOTAL PERMANENT	0.01	0.01	-	-	-
ALL CROPS	250.64	86.13	5.30	159.04	0.17

TABLE 2.6.19 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, NORTH SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)					
	TOTAL	NATURAL	DAP	UREA	DAP + UREA	NAT + COMM
<b>CEREALS</b>	54.53	2.29	27.03	4.42	20.18	0.60
Teff	35.47	0.22	21.85	3.92	9.30	0.18
Barley	1.30	0.53	0.34	-	0.16	0.26
Wheat	16.52	0.42	4.72	0.50	10.72	0.16
Maize	1.00	0.89	0.11	-	-	-
Sorghum	0.22	0.22	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
<b>PULSES</b>	1.36	0.46	0.74	0.15	-	-
Horse Beans	0.62	0.46	-	0.15	-	-
Chick Peas	0.49	-	0.49	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	0.25	-	0.25	-	-	-
Vetch	-	-	-	-	-	-
<b>OILSEEDS</b>	1.07	0.02	0.78	0.09	0.18	-
Neug	0.26	0.02	0.15	0.09	-	-
Linseed	-	-	-	-	-	-
Fenugreek	0.81	-	0.63	-	0.18	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	0.06	0.06	-	-	-	-
Other Vegetables	0.03	-	-	0.03	-	-
<b>TOTAL TEMPORARY</b>	57.04	2.84	28.55	4.70	20.36	0.60
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Erset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.06	0.06	-	-	-	-
<b>TOTAL PERMANENT</b>	0.06	0.06	-	-	-	-
<b>ALL CROPS</b>	57.10	2.90	28.55	4.70	20.36	0.60

TABLE 2.6.20 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, NORTH SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' Qt.)				
	TOTAL	DAP	UREA	DAP + UREA	COMM W/NAT
<b>CEREALS</b>	74.40	27.02	3.94	42.38	1.06
Teff	44.95	21.68	3.30	19.40	0.57
Barley	0.71	0.33	-	0.09	0.29
Wheat	28.67	4.93	0.64	22.90	0.20
Maize	0.07	0.07	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
<b>PULSES</b>	0.57	0.43	0.15	-	-
Horse Beans	0.15	-	0.15	-	-
Chick Peas	0.36	0.36	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	0.07	0.07	-	-	-
Vetch	-	-	-	-	-
<b>OILSEEDS</b>	1.10	0.75	0.15	0.21	-
Neug	0.40	0.26	0.15	-	-
Linseed	-	-	-	-	-
Fenugreek	0.70	0.49	-	0.21	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	0.09	-	0.09	-	-
<b>TOTAL TEMPORARY</b>	76.17	28.19	4.32	42.59	1.06
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
<b>TOTAL PERMANENT</b>	-	-	-	-	-
<b>ALL CROPS</b>	76.17	28.19	4.32	42.59	1.06

TABLE 2.6.21 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, WEST SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( '000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	223.02	15.51	128.17	17.03	59.60	2.71
Teff	118.27	1.56	61.49	8.05	45.92	1.25
Barley	50.07	1.21	44.12	2.61	2.14	-
Wheat	41.61	0.65	21.58	6.37	11.54	1.46
Maize	11.92	11.12	0.80	-	-	-
Sorghum	1.15	0.96	0.19	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	7.39	1.52	5.69	0.07	0.06	0.05
Horse Beans	2.86	1.22	1.59	-	0.06	-
Chick Peas	0.79	0.30	0.49	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	1.43	-	1.43	-	-	-
Lentils	0.56	-	0.43	0.07	-	0.05
Vetch	1.75	-	1.75	-	-	-
OILSEEDS	1.24	0.47	0.72	-	0.05	-
Neug	0.19	0.19	-	-	-	-
Linseed	0.60	0.24	0.36	-	-	-
Fenugreek	0.06	0.02	-	-	0.05	-
Rapeseed	0.39	0.02	0.37	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.36	0.32	-	-	-	0.04
Potatoes	0.18	0.05	0.06	-	0.07	-
Other Vegetables	1.10	0.60	0.41	-	0.08	-
TOTAL TEMPORARY	232.92	18.15	135.05	17.10	59.86	2.76
Chat	0.13	0.13	-	-	-	-
Coffee	-	-	-	-	-	-
Erset	6.60	6.14	0.47	-	-	-
Fruits	0.02	0.02	-	-	-	-
Other Permanent	0.31	0.31	-	-	-	-
TOTAL PERMANENT	7.06	6.60	0.47	-	-	-
ALLCROPS	240.34	25.06	135.52	17.10	59.86	2.80

TABLE 2.6.22 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, WEST SHEWA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( '000' Qt. )	
				DAP + UREA	COMM W/NAT
CEREALS	247.34	107.54	12.75	124.17	2.88
Teff	148.31	44.00	7.05	96.09	1.17
Barley	46.75	40.97	1.59	4.19	-
Wheat	51.27	21.57	4.10	23.90	1.71
Maize	0.78	0.78	-	-	-
Sorghum	0.23	0.23	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	4.53	4.18	0.26	0.02	0.08
Horse Beans	1.61	1.59	-	0.02	-
Chick Peas	0.53	0.53	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	1.19	1.19	-	-	-
Lentils	0.67	0.33	0.26	-	0.08
Vetch	0.53	0.53	-	-	-
OILSEEDS	0.61	0.32	-	0.29	-
Neug	-	-	-	-	-
Linseed	0.11	0.11	-	-	-
Fenugreek	0.29	-	-	0.29	-
Rapeseed	0.20	0.20	-	-	-
Other Temporary	-	-	-	-	-
Spices	0.10	0.06	-	-	0.03
Potatoes	0.53	0.39	-	0.14	-
Other Vegetables	1.29	0.89	-	0.41	-
TOTAL TEMPORARY	254.31	113.32	13.00	125.03	2.96
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	0.91	0.91	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.91	0.91	-	-	-
ALLCROPS	255.32	114.30	13.00	125.03	2.99

TABLE 2.6.23 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, EAST WELEGA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)					
	TOTAL	NATURAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	94.61	15.70	65.16	11.81	-	1.94
Teff	62.38	1.28	50.75	10.35	-	-
Barley	2.51	0.83	1.65	0.03	-	-
Wheat	1.29	0.24	1.05	-	-	-
Maize	21.80	12.26	6.35	1.26	-	1.94
Sorghum	1.70	0.74	0.96	-	-	-
Millet	4.93	0.36	4.41	0.16	-	-
Oats	-	-	-	-	-	-
PULSES	3.70	1.83	1.68	0.13	-	0.07
Horse Beans	2.51	1.49	0.82	0.13	-	0.07
Chick Peas	0.03	0.03	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.94	0.31	0.63	-	-	-
Lentils	0.22	-	0.22	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	0.72	0.08	0.60	0.04	-	-
Neug	0.40	0.05	0.35	-	-	-
Linseed	0.12	-	0.12	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	0.20	0.03	0.13	0.04	-	-
Other Temporary	0.07	0.07	-	-	-	-
Spices	0.76	0.65	0.06	-	-	0.06
Potatoes	0.21	0.21	-	-	-	-
Other Vegetables	0.22	0.02	0.18	-	-	0.02
TOTAL TEMPORARY	99.52	17.90	67.62	11.98	-	2.02
Chat	0.03	0.03	-	-	-	-
Coffee	0.03	-	0.03	-	-	-
Enset	0.02	0.02	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.05	0.04	0.01	-	-	-
TOTAL PERMANENT	0.13	0.10	0.03	-	-	-
ALL CROPS	100.42	18.65	67.72	11.98	-	2.08

TABLE 2.6.24 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, EAST WELEGA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' Qt.)				
	TOTAL	DAP	UREA	DAP + UREA	COMM W/NAT
CEREALS	63.25	52.51	9.56	-	1.18
Teff	48.83	40.50	8.33	-	-
Barley	0.83	0.80	0.03	-	-
Wheat	0.45	0.45	-	-	-
Maize	9.80	7.57	1.06	-	1.18
Sorghum	0.57	0.57	-	-	-
Millet	2.76	2.62	0.14	-	-
Oats	-	-	-	-	-
PULSES	1.50	1.22	0.12	-	0.16
Horse Beans	1.00	0.72	0.12	-	0.16
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	0.46	0.46	-	-	-
Lentils	0.04	0.04	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	0.76	0.73	0.03	-	-
Neug	0.55	0.55	-	-	-
Linseed	0.05	0.05	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	0.16	0.13	0.03	-	-
Other Temporary	-	-	-	-	-
Spices	0.35	0.31	-	-	0.04
Potatoes	-	-	-	-	-
Other Vegetables	0.48	0.32	-	-	0.16
TOTAL TEMPORARY	65.99	54.78	9.71	-	1.49
Chat	-	-	-	-	-
Coffee	0.13	0.13	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	0.06	0.06	-	-	-
TOTAL PERMANENT	0.19	0.19	-	-	-
ALL CROPS	66.52	55.28	9.71	-	1.53

TABLE 2.6.25 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, WEST WELEGA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)					
	TOTAL	NATURAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	42.27	19.03	20.37	2.86	-	-
Teff	15.79	0.10	15.02	0.67	-	-
Barley	0.19	0.18	0.01	-	-	-
Wheat	0.01	0.01	-	-	-	-
Maize	17.60	16.10	0.29	1.21	-	-
Sorghum	3.04	2.57	0.34	0.13	-	-
Millet	5.64	0.07	4.72	0.85	-	-
Oats	-	-	-	-	-	-
PULSES	1.18	1.00	0.18	-	-	-
Horse Beans	0.91	0.76	0.16	-	-	-
Chick Peas	0.01	0.01	-	-	-	-
Haricot Bean	0.04	0.04	-	-	-	-
Field Peas	0.09	0.06	0.02	-	-	-
Lentils	-	-	-	-	-	-
Vetch	0.13	0.13	-	-	-	-
OILSEEDS	0.04	-	-	0.04	-	-
Neug	0.04	-	-	0.04	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.21	0.20	0.01	-	-	-
Potatoes	1.10	0.91	0.15	0.04	-	-
Other Vegetables	0.12	0.04	0.09	-	-	-
TOTAL TEMPORARY	44.70	20.97	20.79	2.94	-	-
Chat	-	-	-	-	-	-
Coffee	0.58	0.08	-	0.50	-	-
Erset	-	-	-	-	-	-
Fruits	0.02	0.02	-	-	-	-
Other Permanent	0.20	0.20	-	-	-	-
TOTAL PERMANENT	0.80	0.30	-	0.50	-	-
ALL CROPS	45.71	21.47	20.81	3.44	-	-

TABLE 2.2.26 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN Oromia Region, WEST WELEGA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' Qt.)				
	TOTAL	DAP	UREA	DAP + UREA	COMM W/NAT
CEREALS	9.06	7.79	1.27	-	-
Teff	5.94	5.71	0.23	-	-
Barley	0.00	0.00	-	-	-
Wheat	-	-	-	-	-
Maize	0.90	0.23	0.67	-	-
Sorghum	0.22	0.18	0.04	-	-
Millet	2.00	1.68	0.32	-	-
Oats	-	-	-	-	-
PULSES	0.21	0.21	-	-	-
Horse Beans	0.19	0.19	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	0.01	0.01	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	0.04	-	0.04	-	-
Neug	0.04	-	0.04	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	0.02	0.02	-	-	-
Potatoes	0.20	0.17	0.03	-	-
Other Vegetables	0.13	0.13	-	-	-
TOTAL TEMPORARY	9.63	8.30	1.33	-	-
Chat	-	-	-	-	-
Coffee	0.22	-	0.22	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.22	-	0.22	-	-
ALL CROPS	9.87	8.32	1.55	-	-

0.00 - Insignificant

TABLE 2.7.1 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	2.60	0.14	2.47	-	-	-
Teff	2.16	-	2.16	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	0.27	0.14	0.13	-	-	-
Sorghum	-	-	-	-	-	-
Millet	0.17	-	0.17	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	2.60	0.14	2.47	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Erset	-	-	-	-	-	-
Fruits	0.00	-	0.00	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	0.00	-	0.00	-	-	-
ALL CROPS	2.60	0.14	2.47	-	-	-

TABLE 2.7.2 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Ql )	
				DAP + UREA	COMM W/NAT
CEREALS	0.97	0.97	-	-	-
Teff	0.73	0.73	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	0.03	0.03	-	-	-
Sorghum	-	-	-	-	-
Millet	0.21	0.21	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	0.97	0.97	-	-	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	0.01	0.01	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.01	0.01	-	-	-
ALL CROPS	0.98	0.98	-	-	-

0.00 - Insignificant

TABLE 2.8.1 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS S.E.P.A. REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP + UREA		NAT + COMM	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	189.26	60.02	20.61	17.75	145.35	86.00	19.94	79.70	0.90	45.23	2.43	76.18
Teff	64.60	20.49	3.47	2.99	51.08	30.22	9.84	39.33	0.15	7.54	0.05	1.57
Barley	22.63	7.18	6.69	5.76	11.07	6.55	3.38	13.51	0.54	27.14	0.94	29.47
Wheat	51.36	16.29	2.82	2.43	45.90	27.16	2.13	8.51	0.22	11.06	0.30	9.40
Maize	43.31	13.74	5.35	4.61	33.03	19.54	3.79	15.15	-	-	1.14	35.74
Sorghum	5.13	1.63	2.28	1.96	2.56	1.51	0.29	1.16	-	-	-	-
Millet	2.21	0.70	-	-	1.70	1.01	0.51	2.04	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	23.49	7.45	7.76	6.68	11.54	6.83	3.35	13.39	0.31	15.58	0.53	16.61
Horse Beans	11.79	3.74	3.84	3.31	5.54	3.28	1.98	7.91	0.20	10.05	0.23	7.21
Chick Peas	0.09	0.03	-	-	0.06	0.04	0.03	0.12	-	-	-	-
Haricot Bean	4.32	1.37	1.60	1.38	1.86	1.10	0.57	2.28	-	-	0.30	9.40
Field Peas	7.15	2.27	2.32	2.00	3.94	2.33	0.78	3.12	-	-	-	-
Lentils	0.15	0.05	-	-	0.15	0.09	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	1.08	0.34	-	-	0.84	0.50	0.24	0.96	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	1.08	0.34	-	-	0.84	0.50	0.24	0.96	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-
Spices	9.22	2.92	1.27	1.09	7.41	4.38	0.54	2.16	-	-	-	-
Potatoes	4.50	1.43	1.89	1.63	1.88	1.11	0.50	2.00	0.02	1.01	0.21	6.58
Other Vegetables	10.29	3.26	9.11	7.85	0.31	0.18	0.32	1.28	0.52	26.13	0.02	0.63
TOTAL TEMPORARY	228.63	72.51	39.38	33.92	159.95	94.64	24.35	97.32	1.75	87.94	3.19	100.00
Chat	3.78	1.20	3.78	3.26	-	-	-	-	-	-	-	-
Coffee	7.12	2.26	5.81	5.00	1.32	0.78	-	-	-	-	-	-
Enset	64.53	20.47	63.87	55.01	0.28	0.17	0.14	0.56	0.24	12.06	-	-
Fruits	0.44	0.14	0.44	0.38	-	-	-	-	-	-	-	-
Other Permanent	1.60	0.51	1.56	1.34	0.04	0.02	-	-	-	-	-	-
TOTAL PERMANENT	77.48	24.57	75.46	64.99	1.63	0.96	0.14	0.56	0.24	12.06	-	-
ALL CROPS	315.31	100.00	116.11	100.00	169.01	100.00	25.02	100.00	1.99	100.00	3.19	100.00

\* S.E.P.A. REGION = South Ethiopia People's Administrative Region.

TABLE 2.8.2 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS  
S.E.P.A. REGION\*, 1994/95 (1987 E.C.)

( '000' Qt. )

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		NAT + COMM	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	228.72	82.32	198.75	83.55	26.56	79.21	1.08	31.40	2.33	78.19
Teff	74.01	26.64	65.03	27.34	8.57	25.56	0.17	4.94	0.23	7.72
Barley	22.95	8.26	16.82	7.07	4.84	14.43	0.73	21.22	0.56	18.79
Wheat	68.98	24.83	66.29	27.87	2.27	6.77	0.18	5.23	0.24	8.05
Maize	56.38	20.29	45.57	19.16	9.51	28.36	-	-	1.30	43.62
Sorghum	3.43	1.23	2.92	1.23	0.51	1.52	-	-	-	-
Millet	2.99	1.08	2.10	0.88	0.88	2.62	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	14.76	5.31	12.09	5.08	1.82	5.43	0.38	11.05	0.48	16.11
Horse Beans	7.16	2.58	6.27	2.64	0.52	1.55	0.19	5.52	0.18	6.04
Chick Peas	0.07	0.03	0.06	0.03	0.01	0.03	-	-	-	-
Haricot Bean	2.56	0.92	1.73	0.73	0.54	1.61	-	-	0.31	10.40
Field Peas	4.85	1.75	3.92	1.65	0.75	2.24	0.18	5.23	-	-
Lentils	0.12	0.04	0.12	0.05	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	3.62	1.30	2.36	0.99	1.25	3.73	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-
Fenugreek	3.62	1.30	2.36	0.99	1.25	3.73	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
Spices	22.42	8.07	20.26	8.52	2.16	6.44	-	-	-	-
Potatoes	3.65	1.31	2.90	1.22	0.59	1.76	0.04	1.16	0.12	4.03
Other Vegetables	3.00	1.08	0.44	0.18	0.94	2.80	1.58	45.93	0.05	1.68
TOTAL TEMPORARY	253.75	91.33	216.52	91.02	31.17	92.96	3.08	89.53	2.98	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	0.59	0.21	0.59	0.25	-	-	-	-	-	-
Enset	1.05	0.38	0.50	0.21	0.19	0.57	0.35	10.17	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.02	0.01	0.02	0.01	-	-	-	-	-	-
TOTAL PERMANENT	1.66	0.60	1.10	0.46	0.19	0.57	0.35	10.17	-	-
ALL CROPS	277.84	100.00	237.89	100.00	33.53	100.00	3.44	100.00	2.98	100.00

\* S.E.P.A. REGION= South Ethiopia People's Administrative Region.

TABLE 2.8.3 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, BENCH ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA)	
					DAP +UREA	NAT + COMM
CEREALS	-	-	-	-	-	-
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	0.05	0.05	-	-	-	-
TOTAL TEMPORARY	0.05	0.05	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	0.06	0.06	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.01	0.01	-	-	-	-
TOTAL PERMANENT	0.07	0.07	-	-	-	-
ALL CROPS	0.13	0.13	-	-	-	-

NOTE:- No commercial fertilizer was reported in the Zone.

TABLE 2.8.4 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, GEDIO ZONE , 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( '000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	0.37	0.33	-	0.04	-	-
Teff	0.04	-	-	0.04	-	-
Barley	0.27	0.27	-	-	-	-
Wheat	0.04	0.04	-	-	-	-
Maize	0.02	0.02	-	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	0.27	0.27	-	-	-	-
Horse Beans	0.27	0.27	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	0.01	0.01	-	-	-	-
Other Vegetables	0.73	0.73	-	-	-	-
TOTAL TEMPORARY	1.38	1.34	-	0.04	-	-
Chat	-	-	-	-	-	-
Coffee	0.17	0.17	-	-	-	-
Enset	0.97	0.97	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	1.14	1.14	-	-	-	-
ALLCROPS	2.52	2.48	-	0.04	-	-

TABLE 2.8.5 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, GEDIO ZONE , 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( '000' Qt. )	
				DAP + UREA	COMM W/NAT
CEREALS	0.01	-	0.01	-	-
Teff	0.01	-	0.01	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	0.01	-	0.01	-	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALLCROPS	0.01	-	0.01	-	-

TABLE 2.8.6 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, GURAGE ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' HA)					
	TOTAL	NATURAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	26.48	1.47	16.13	8.43	0.31	0.14
Teff	10.87	0.04	5.99	4.84	-	-
Barley	8.41	0.84	4.19	2.93	0.31	0.14
Wheat	4.23	0.51	3.07	0.66	-	-
Maize	2.26	0.08	2.18	-	-	-
Sorghum	0.70	-	0.70	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	5.45	1.34	1.62	2.29	0.12	0.08
Horse Beans	2.85	0.59	0.35	1.82	0.01	0.08
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	2.61	0.75	1.27	0.48	0.11	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	0.40	0.11	0.13	0.14	0.02	-
Other Vegetables	0.67	0.52	0.12	-	-	0.02
TOTAL TEMPORARY	33.01	3.45	18.01	10.86	0.45	0.24
Chat	2.16	2.16	-	-	-	-
Coffee	0.62	0.62	-	-	-	-
Erset	18.37	18.08	0.15	0.14	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.25	0.25	-	-	-	-
TOTAL PERMANENT	21.41	21.11	0.15	0.14	-	-
ALL CROPS	54.41	24.56	18.17	11.00	0.45	0.24

TABLE 2.8.7 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, GURAGE ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	(000' Qt.)				
	TOTAL	DAP	UREA	DAP + UREA	COMM W/NAT
CEREALS	34.19	24.78	8.53	0.44	0.45
Teff	11.18	7.87	3.31	-	-
Barley	14.67	9.13	4.65	0.44	0.45
Wheat	4.39	3.82	0.57	-	-
Maize	3.17	3.17	-	-	-
Sorghum	0.78	0.78	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	3.80	2.63	0.87	0.21	0.09
Horse Beans	1.04	0.62	0.31	0.02	0.09
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	2.76	2.01	0.57	0.18	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	0.62	0.24	0.34	0.04	-
Other Vegetables	0.20	0.16	-	-	0.05
TOTAL TEMPORARY	38.82	27.80	9.74	0.69	0.59
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	0.60	0.40	0.19	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.60	0.40	0.19	-	-
ALL CROPS	39.42	28.20	9.94	0.69	0.59

TABLE 2.8.8 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, HADIYA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	81.59	4.50	72.97	2.43	0.59	1.10
Teff	21.77	0.27	20.28	1.02	0.15	0.04
Barley	6.76	0.09	6.19	0.25	0.23	-
Wheat	34.72	0.28	32.99	1.16	0.22	0.07
Maize	15.76	3.05	11.72	-	-	0.99
Sorghum	1.96	0.81	1.15	-	-	-
Millet	0.63	-	0.63	-	-	-
Oats	-	-	-	-	-	-
PULSES	7.88	0.07	7.16	0.46	0.19	-
Horse Beans	4.80	0.07	4.39	0.16	0.19	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	0.11	-	0.11	-	-	-
Field Peas	2.81	-	2.51	0.30	-	-
Lentils	0.15	-	0.15	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	1.52	0.03	1.49	-	-	-
Potatoes	1.15	0.67	0.48	-	-	-
Other Vegetables	0.91	0.89	0.02	-	-	-
TOTAL TEMPORARY	91.54	6.13	80.64	2.89	0.78	1.10
Chat	1.01	1.01	-	-	-	-
Coffee	0.31	0.31	-	-	-	-
Enset	9.33	9.25	0.08	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.14	0.14	-	-	-	-
TOTAL PERMANENT	10.79	10.71	0.08	-	-	-
ALL CROPS	103.85	16.86	82.21	2.89	0.78	1.10

TABLE 2.8.9 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, HADIYA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Ql. )	
				DAP + UREA	COMM W/NAT
CEREALS	104.26	99.23	3.05	0.64	1.33
Teff	30.25	28.26	1.60	0.17	0.21
Barley	7.21	6.79	0.13	0.29	-
Wheat	51.75	50.16	1.32	0.18	0.09
Maize	13.02	11.99	-	-	1.03
Sorghum	1.40	1.40	-	-	-
Millet	0.63	0.63	-	-	-
Oats	-	-	-	-	-
PULSES	7.56	7.00	0.40	0.17	-
Horse Beans	5.32	4.94	0.21	0.17	-
Chick Peas	-	-	-	-	-
Haricot Bean	0.11	0.11	-	-	-
Field Peas	2.01	1.83	0.18	-	-
Lentils	0.12	0.12	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	3.07	3.07	-	-	-
Potatoes	0.65	0.65	-	-	-
Other Vegetables	0.06	0.06	-	-	-
TOTAL TEMPORARY	112.52	106.93	3.45	0.81	1.33
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	0.03	0.03	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.03	0.03	-	-	-
ALL CROPS	115.63	110.03	3.45	0.81	1.33

TABLE 2.8.10 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, KEMBATA ZONE. 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	43.47	3.25	35.41	4.65	-	0.16
Teff	12.32	1.18	10.33	0.80	-	0.01
Barley	0.56	0.01	0.55	-	-	-
Wheat	9.91	0.27	9.33	0.31	-	-
Maize	17.71	1.40	13.42	2.74	-	0.15
Sorghum	1.39	0.39	0.71	0.29	-	-
Millet	1.58	-	1.07	0.51	-	-
Oats	-	-	-	-	-	-
PULSES	1.04	-	1.01	0.03	-	-
Horse Beans	0.80	-	0.80	-	-	-
Chick Peas	0.09	-	-	0.06	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	0.16	-	0.16	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	1.08	-	0.84	0.24	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	1.08	-	0.84	0.24	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	6.67	0.23	5.92	0.52	-	-
Potatoes	0.96	0.29	0.67	-	-	-
Other Vegetables	0.51	0.39	0.11	-	-	-
TOTAL TEMPORARY	47.07	3.93	38.05	4.92	-	0.16
Chat	0.12	0.12	-	-	-	-
Coffee	2.00	1.91	0.10	-	-	-
Enset	3.50	3.50	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	0.32	0.32	-	-	-	-
TOTAL PERMANENT	5.95	5.85	0.10	-	-	-
ALLCROPS	59.68	10.01	44.07	5.44	-	0.16

TABLE 2.8.11 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, KEMBATA ZONE. 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	(000' Qt.)	
				DAP + UREA	COMM W/NAT
CEREALS	59.97	50.28	9.40	-	0.29
Teff	14.98	14.07	0.88	-	0.02
Barley	0.71	0.71	-	-	-
Wheat	12.23	11.85	0.38	-	-
Maize	28.45	21.43	6.75	-	0.27
Sorghum	1.25	0.74	0.51	-	-
Millet	2.36	1.47	0.88	-	-
Oats	-	-	-	-	-
PULSES	0.86	0.84	0.01	-	-
Horse Beans	0.71	0.71	-	-	-
Chick Peas	0.07	0.06	0.01	-	-
Haricot Bean	-	-	-	-	-
Field Peas	0.08	0.08	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	3.62	2.36	1.25	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	3.62	2.36	1.25	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	19.25	17.19	2.06	-	-
Potatoes	0.61	0.61	-	-	-
Other Vegetables	0.21	0.21	-	-	-
TOTAL TEMPORARY	65.26	54.30	10.67	-	0.29
Chat	-	-	-	-	-
Coffee	0.08	0.08	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.08	0.08	-	-	-
ALLCROPS	84.59	71.57	12.73	-	0.29

TABLE 2.8.12 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, KEFICHO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' HA )					
	TOTAL	NATURAL	DAP	UREA	DAP +UREA	NAT + COMM
CEREALS	0.08	0.05	0.02	-	-	-
Teff	0.02	-	0.02	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	0.05	0.05	-	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	0.01	0.01	-	-	-	-
TOTAL TEMPORARY	0.08	0.06	0.02	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Erset	0.33	0.33	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	0.33	0.33	-	-	-	-
ALLCROPS	0.41	0.39	0.02	-	-	-

TABLE 2.8.13 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, KEFICHO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	( 000' Qt. )				
	TOTAL	DAP	UREA	DAP +UREA	COMM W/NAT
CEREALS	0.00	0.00	-	-	-
Teff	0.00	0.00	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	0.00	0.00	-	-	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Erset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALLCROPS	0.00	0.00	-	-	-

0.00 - Insignificant

TABLE 2.8.14 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, NORTH OMO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	24.99	10.01	11.87	2.07	-	1.03
Teff	15.09	1.98	11.46	1.65	-	-
Barley	6.42	5.32	0.09	0.20	-	0.80
Wheat	2.27	1.72	0.32	-	-	0.23
Maize	0.64	0.42	0.00	0.22	-	-
Sorghum	0.57	0.57	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	7.94	5.86	1.27	0.36	-	0.45
Horse Beans	2.85	2.69	-	-	-	0.15
Chick Peas	-	-	-	-	-	-
Haricot Bean	3.52	1.60	1.27	0.36	-	0.30
Field Peas	1.57	1.57	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.98	0.96	-	0.02	-	-
Potatoes	1.94	0.79	0.58	0.36	-	0.21
Other Vegetables	6.72	6.50	0.06	0.16	-	-
TOTAL TEMPORARY	41.58	23.16	13.78	2.95	-	1.69
Chat	-	-	-	-	-	-
Coffee	1.94	1.94	-	-	-	-
Enset	14.59	14.59	-	-	-	-
Fruits	0.42	0.42	-	-	-	-
Other Permanent	0.30	0.30	-	-	-	-
TOTAL PERMANENT	17.25	17.25	-	-	-	-
ALL CROPS	59.80	41.37	13.78	2.96	-	1.69

TABLE 2.8.15 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, NORTH OMO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Qt. )	
				DAP + UREA	COMM W/NAT
CEREALS	13.00	11.63	1.11	-	0.26
Teff	11.76	11.23	0.53	-	-
Barley	0.33	0.16	0.06	-	0.11
Wheat	0.39	0.24	-	-	0.15
Maize	0.53	-	0.53	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	1.62	1.10	0.13	-	0.39
Horse Beans	0.09	-	-	-	0.09
Chick Peas	-	-	-	-	-
Haricot Bean	1.53	1.10	0.13	-	0.31
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	0.10	-	0.10	-	-
Potatoes	1.71	1.34	0.25	-	0.12
Other Vegetables	0.54	0.01	0.53	-	-
TOTAL TEMPORARY	16.87	14.08	2.02	-	0.77
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALL CROPS	16.97	14.08	2.12	-	0.77

TABLE 2.8.16

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN  
S.E.P.A. Region, SHEKICHO ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA)	
					DAP +UREA	NAT + COMM
CEREALS	-	-	-	-	-	-
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	-	-	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	0.01	0.01	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	0.01	0.01	-	-	-	-
ALL CROPS	0.01	0.01	-	-	-	-

NOTE:— No commercial fertilizer was reported in the Zone.

TABLE 2.8.17 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, SIDAMA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( 000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	10.63	0.49	7.81	2.32	-	-
Teff	3.35	-	1.86	1.49	-	-
Barley	0.21	0.16	0.05	-	-	-
Wheat	0.19	-	0.19	-	-	-
Maize	6.87	0.33	5.71	0.83	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	0.84	0.15	0.48	0.21	-	-
Horse Beans	0.15	0.15	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	0.69	-	0.48	0.21	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	0.05	0.05	-	-	-	-
Potatoes	0.04	0.02	0.02	-	-	-
Other Vegetables	0.69	0.02	-	0.16	0.52	-
TOTAL TEMPORARY	12.20	0.68	8.31	2.69	0.52	-
Chat	0.49	0.49	-	-	-	-
Coffee	2.04	0.82	1.22	-	-	-
Enset	14.44	14.15	0.05	-	0.24	-
Fruits	0.02	0.02	-	-	-	-
Other Permanent	0.58	0.54	0.04	-	-	-
TOTAL PERMANENT	17.56	16.02	1.30	-	0.24	-
ALL CROPS	29.81	16.75	9.62	2.69	0.76	-

TABLE 2.8.18 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, SIDAMA ZONE, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( 000' Qt. )	
				DAP + UREA	COMM W/NAT
CEREALS	15.74	11.28	4.46	-	-
Teff	4.28	2.05	2.24	-	-
Barley	0.03	0.03	-	-	-
Wheat	0.22	0.22	-	-	-
Maize	11.21	8.98	2.23	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	0.92	0.52	0.41	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	0.92	0.52	0.41	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	0.06	0.06	-	-	-
Other Vegetables	1.99	-	0.41	1.58	-
TOTAL TEMPORARY	18.72	11.86	5.28	1.58	-
Chat	-	-	-	-	-
Coffee	0.51	0.51	-	-	-
Enset	0.42	0.07	-	0.35	-
Fruits	-	-	-	-	-
Other Permanent	0.02	0.02	-	-	-
TOTAL PERMANENT	0.95	0.59	-	0.35	-
ALL CROPS	19.67	12.46	5.28	1.94	-

TABLE 2.8.19 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, AMARO WEREDA, 1994/95 (1987 E.C.)

TYPE OF CROP	( '000' HA)					
	TOTAL	NATURAL	DAP	UREA	DAP +UREA	NAT + COMM
CEREALS	-	-	-	-	-	-
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	-	-	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	0.04	0.04	-	-	-	-
Enset	2.46	2.46	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	2.50	2.50	-	-	-	-
ALL CROPS	2.50	2.50	-	-	-	-

NOTE:- No commercial fertilizer was reported in the Wereda.

TABLE 2.8.20

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN  
S.E.P.A. Region, DERASHE WEREDA, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	0.16	0.16	-	-	-	-
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	0.16	0.16	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	0.16	0.16	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-
ALL CROPS	0.16	0.16	-	-	-	-

NOTE: - No commercial fertilizer was reported in the Wereda.

TABLE 2.8.21 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, KONSO WEREDA, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	0.35	0.35	-	-	-	-
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	0.35	0.35	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	0.35	0.35	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-
ALL CROPS	0.35	0.35	-	-	-	-

NOTE:- No commercial fertilizer was reported in the Wereda.

TABLE 2.8.22 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, YEM WEREDA, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	( '000' HA )	
					DAP + UREA	NAT + COMM
CEREALS	1.14	-	1.14	-	-	-
Teff	1.14	-	1.14	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	0.07	0.07	-	-	-	-
Horse Beans	0.07	0.07	-	-	-	-
Chick Peas	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-
TOTAL TEMPORARY	1.21	0.07	1.14	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	0.47	0.47	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	0.47	0.47	-	-	-	-
ALL CROPS	1.68	0.54	1.14	-	-	-

TABLE 2.8.23 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. Region, YEM WEREDA, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	( '000' Qt. )	
				DAP + UREA	COMM W/NAT
CEREALS	1.55	1.55	-	-	-
Teff	1.55	1.55	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	-	-	-	-	-
TOTAL TEMPORARY	1.55	1.55	-	-	-
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALL CROPS	1.55	1.55	-	-	-

TABLE 2.9.1 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN HARARI REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	1.13	0.15	0.11	0.65	0.22	-
Teff	0.01	0.01	-	-	-	-
Barley	0.09	-	-	0.05	0.04	-
Wheat	0.32	-	0.03	0.21	0.08	-
Maize	0.09	0.03	-	-	0.06	-
Sorghum	0.60	0.11	0.09	0.37	0.04	-
Millet	-	-	-	-	-	-
Oats	0.02	-	-	0.02	-	-
PULSES	0.01	-	-	-	0.01	-
Horse Beans	-	-	-	-	-	-
Chick Peas	0.01	-	-	-	0.01	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Temporary	0.03	0.03	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Other Vegetables	0.01	-	-	0.01	-	-
TOTAL TEMPORARY	1.19	0.18	0.11	0.66	0.23	-
Chat	0.36	0.04	-	0.18	0.14	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	0.36	0.04	-	0.18	0.14	-
ALL CROPS	1.55	0.22	0.11	0.84	0.38	-

TABLE 2.9.2 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN HARARI REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	(000' Qt.)	
				DAP + UREA	COMM W/NAT
CEREALS	3.40	0.22	1.80	1.38	-
Teff	-	-	-	-	-
Barley	0.20	-	0.05	0.15	-
Wheat	1.74	0.11	1.08	0.55	-
Maize	0.30	-	-	0.30	-
Sorghum	1.05	0.11	0.56	0.38	-
Millet	-	-	-	-	-
Oats	0.11	-	0.11	-	-
PULSES	0.05	-	-	0.05	-
Horse Beans	-	-	-	-	-
Chick Peas	0.05	-	-	0.05	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	-	-	-	-	-
Other Vegetables	0.05	-	0.05	-	-
TOTAL TEMPORARY	3.51	0.22	1.85	1.44	-
Chat	0.75	-	0.55	0.20	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	0.75	-	0.55	0.20	-
ALL CROPS	4.26	0.22	2.41	1.64	-

TABLE 2.10.1 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN ADDIS ABABA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	NATURAL	DAP	UREA	(000' HA)	
					DAP + UREA	NAT + COMM
CEREALS	7.38	0.02	0.46	0.02	6.86	0.02
Teff	5.04	-	0.20	-	4.83	0.02
Barley	-	-	-	-	-	-
Wheat	2.33	0.02	0.26	0.01	2.03	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	0.01	-	-	-	-	-
PULSES	0.68	-	0.16	-	0.52	-
Horse Beans	-	-	-	-	-	-
Chick Peas	0.37	-	0.03	-	0.34	-
Haricot Bean	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Lentils	0.16	-	0.04	-	0.12	-
Vetch	0.15	-	0.09	-	0.06	-
OILSEEDS	0.02	-	-	-	0.02	0.00
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Fenugreek	0.02	-	-	-	0.02	0.00
Rapeseed	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Potatoes	0.01	-	-	-	0.01	-
Other Vegetables	0.16	-	-	-	0.16	-
TOTAL TEMPORARY	8.25	0.02	0.62	0.02	7.57	0.02
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-
ALLCROPS	8.26	0.02	0.62	0.02	7.57	0.02

TABLE 2.10.2 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN ADDIS ABABA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	(000' Qt.)	
				DAP + UREA	COMM W/NAT
CEREALS	16.99	0.72	0.01	16.21	0.05
Teff	12.90	0.40	-	12.44	0.05
Barley	-	-	-	-	-
Wheat	4.08	0.32	0.01	3.75	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	0.01	-	-	0.01	-
PULSES	0.76	0.16	-	0.60	-
Horse Beans	-	-	-	-	-
Chick Peas	0.33	0.02	-	0.31	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	0.27	0.08	-	0.18	-
Vetch	0.16	0.06	-	0.10	-
OILSEEDS	0.05	-	-	0.04	0.01
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	0.05	-	-	0.04	0.01
Rapeseed	-	-	-	-	-
Other Temporary	-	-	-	-	-
Spices	-	-	-	-	-
Potatoes	0.04	-	-	0.04	-
Other Vegetables	0.37	-	-	0.37	-
TOTAL TEMPORARY	18.22	0.88	0.02	17.26	0.06
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Enset	-	-	-	-	-
Fruits	-	-	-	-	-
Other Permanent	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-
ALLCROPS	18.22	0.88	0.02	17.26	0.06

0.00 - Insignificant

### 3. Rate of Commercial Fertilizer Application

**Rate of fertilizer application** is defined as a quantity of certain fertilizer applied divided by the area fertilized using the same fertilizer.

In this respect, the average rate of commercial fertilizer application for major crops (cereals, pulses and oilseed crops) at national level was about 102.83 kilogram per hectare. Moreover, the rate of fertilizer application is 104.29 kg/ha for cereals, 84.63 kg/ha for pulses and 81.61 kg/ha for oilseed crops (nueg, linseed, fenugreek and rapeseed).

In the case of application by type of fertilizer, DAP was used at the rate of 92.65 kilogram per hectare whereas UREA was used at the rate of 79.90 kilogram per hectare. This shows that the rate of application of DAP is considerably higher than that of UREA ( Refer to Table 3.1).

**Summary Table 4 : Rate of Fertilizer Application For Major Crops**

TYPE OF CROP	RATE OF FERTILIZER APPLICATION (KG/HA)
Cereals	104.29
Pulses	84.63
Oilseed Crops	81.61
Total	102.83

In addition, the rates of fertilizer application for each region by type of crops, actually major crops only, were also computed and presented separately in Tables 3.2 - 3.8. For detailed information of all cases refer to the tables.

TABLE 3.1 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS, NATIONAL\*, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	104.29	93.39	80.82	190.07	90.73
Teff	104.59	86.78	81.41	182.45	101.79
Barley	89.25	89.39	73.46	163.68	86.43
Wheat	117.02	106.98	79.12	212.36	101.45
Maize	121.22	119.53	119.45	283.57	89.87
Sorghum	77.18	91.01	64.82	285.71	57.29
Millet	66.71	67.41	63.41	49.54	50.00
Oats	62.42	63.25	50.00	204.35	-
PULSES	84.63	84.23	81.60	103.23	90.59
Horse Beans	92.22	93.85	77.75	109.80	113.33
Chick Peas	80.92	78.30	33.33	97.78	-
Haricot Bean	86.13	83.91	102.59	-	103.33
Field Peas	73.03	76.08	64.00	57.14	20.00
Lentils	80.50	62.75	106.25	170.91	160.00
Vetch	60.07	49.07	142.86	166.67	-
OILSEEDS	81.61	69.32	198.85	112.38	-
Neug	55.01	51.01	133.33	-	-
Linseed	53.28	54.71	35.29	-	-
Fenugreek	204.66	162.37	504.00	216.00	-
Rapeseed	78.07	61.06	75.00	98.38	-
ALL CROPS	102.83	92.65	79.90	188.78	95.01

\* EXCLUDING SOMALI REGION AND OTHER NOMADIC AREAS.

TABLE 3.2 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN TIGRAY REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	64.10	64.20	71.04	-	41.33
Teff	64.11	63.80	65.74	-	67.80
Barley	45.41	51.10	43.70	-	11.43
Wheat	83.17	74.61	102.17	-	40.00
Maize	51.67	75.00	-	-	16.67
Sorghum	-	-	-	-	-
Millet	68.97	157.14	-	-	40.91
Oats	-	-	-	-	-
PULSES	128.57	159.65	185.71	-	20.00
Horse Beans	97.37	97.37	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	148.72	284.21	-	-	20.00
Lentils	-	-	-	-	-
Vetch	185.71	-	185.71	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
ALL CROPS	65.87	66.46	72.50	-	38.24

**FIG. 5 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF PRIVATE PEASANT HOLDINGS, NATIONAL, 1994/95 (1987 E.C.)**

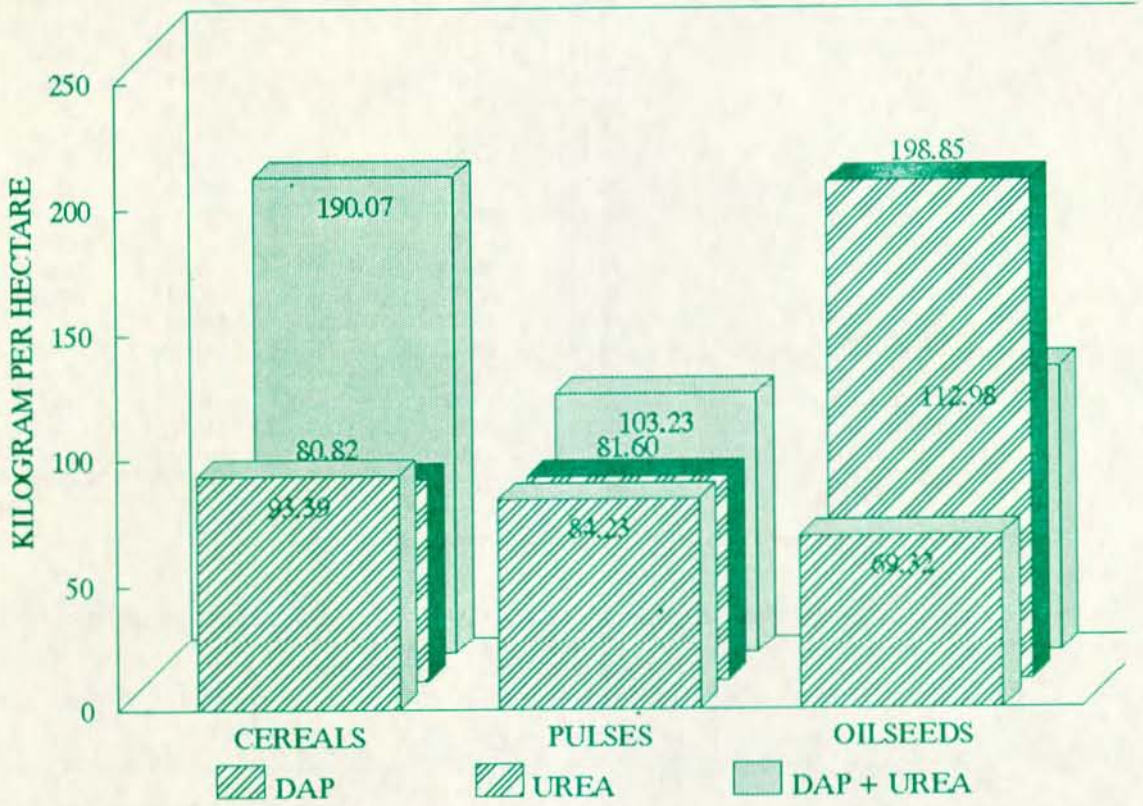


TABLE 3.3 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN AMHARA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	91.81	89.45	87.00	112.37	96.11
Teff	88.79	85.63	82.34	110.57	82.20
Barley	96.63	95.55	101.62	77.08	108.25
Wheat	122.72	117.64	137.76	132.43	82.19
Maize	119.23	126.00	85.98	-	97.34
Sorghum	4.00	4.00	-	-	-
Millet	67.15	68.57	55.78	49.54	75.00
Oats	-	-	-	-	-
PULSES	80.02	64.03	200.98	84.21	-
Horse Beans	112.20	76.00	309.62	88.89	-
Chick Peas	79.41	79.17	-	80.00	-
Haricot Bean	-	-	-	-	-
Field Peas	52.56	52.06	59.38	-	-
Lentils	81.82	81.82	-	-	-
Vetch	130.95	125.00	138.89	-	-
OILSEEDS	41.74	38.81	112.50	-	-
Neug	39.16	36.96	118.18	-	-
Linseed	70.00	64.00	100.00	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
ALL CROPS	91.11	88.22	88.09	112.06	96.15

TABLE 3.4 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN OROMIA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	104.81	86.94	70.25	213.59	93.66
Teff	113.08	81.85	79.85	207.71	116.56
Barley	83.44	84.01	56.50	174.14	111.54
Wheat	110.83	94.44	69.57	228.77	117.90
Maize	108.70	107.40	78.70	278.93	81.84
Sorghum	66.20	82.40	58.27	129.41	57.29
Millet	48.34	48.64	45.54	-	-
Oats	61.45	63.25	46.79	200.00	-
PULSES	81.31	81.37	71.19	95.86	200.00
Horse Beans	90.09	91.16	68.21	131.82	228.57
Chick Peas	77.72	77.72	-	-	-
Haricot Bean	83.86	81.93	110.17	-	-
Field Peas	62.62	70.55	27.69	42.50	-
Lentils	76.94	59.56	106.25	176.74	160.00
Vetch	41.00	40.68	66.67	-	-
OILSEEDS	72.45	63.50	63.83	111.54	-
Neug	157.14	162.00	146.15	-	-
Linseed	52.29	54.22	24.14	-	-
Fenugreek	92.06	64.71	100.00	217.39	-
Rapeseed	78.07	61.06	75.00	98.38	-
ALL CROPS	103.36	86.32	69.29	211.71	105.36

TABLE 3.5 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	39.27	39.27	-	-	-
Teff	33.80	33.80	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	23.08	23.08	-	-	-
Sorghum	-	-	-	-	-
Millet	123.53	123.53	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
ALL CROPS	39.27	39.27	-	-	-

TABLE 3.6 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN S.E.P.A.\* REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	135.64	136.74	133.20	120.00	95.88
Teff	121.09	127.31	87.09	113.33	460.00
Barley	144.07	151.94	143.20	135.19	59.57
Wheat	142.08	144.42	106.57	81.82	80.00
Maize	148.52	137.97	250.92	-	114.04
Sorghum	120.35	114.06	175.86	-	-
Millet	135.29	123.53	172.55	-	-
Oats	-	-	-	-	-
PULSES	93.83	104.77	54.33	122.58	90.57
Horse Beans	90.06	113.18	26.26	95.00	78.26
Chick Peas	77.78	100.00	33.33	-	-
Haricot Bean	93.77	93.01	94.74	-	103.33
Field Peas	100.41	99.49	96.15	163.64	-
Lentils	80.00	80.00	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	335.19	280.95	520.83	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	335.19	280.95	520.83	-	-
Rapeseed	-	-	-	-	-
ALL CROPS	133.47	135.16	118.51	172.86	93.42

\* S.E.P.A. REGION= South Ethiopia People's Administrative Region.

TABLE 3.3 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN AMHARA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	91.81	89.45	87.00	112.37	96.11
Teff	88.79	85.63	82.34	110.57	82.20
Barley	96.63	95.55	101.62	77.08	108.25
Wheat	122.72	117.64	137.76	132.43	82.19
Maize	119.23	126.00	85.98	-	97.34
Sorghum	4.00	4.00	-	-	-
Millet	67.15	68.57	55.78	49.54	75.00
Oats	-	-	-	-	-
PULSES	80.02	64.03	200.98	84.21	-
Horse Beans	112.20	76.00	309.62	88.89	-
Chick Peas	79.41	79.17	-	80.00	-
Haricot Bean	-	-	-	-	-
Field Peas	52.56	52.06	59.38	-	-
Lentils	81.82	81.82	-	-	-
Vetch	130.95	125.00	138.89	-	-
OILSEEDS	41.74	38.81	112.50	-	-
Neug	39.16	36.96	118.18	-	-
Linseed	70.00	64.00	100.00	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
ALL CROPS	91.11	88.22	88.09	112.06	96.15

TABLE 3.4 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN OROMIA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	104.81	86.94	70.25	213.59	93.66
Teff	113.08	81.85	79.85	207.71	116.56
Barley	83.44	84.01	56.50	174.14	111.54
Wheat	110.83	94.44	69.57	228.77	117.90
Maize	108.70	107.40	78.70	278.93	81.84
Sorghum	66.20	82.40	58.27	129.41	57.29
Millet	48.34	48.64	45.54	-	-
Oats	61.45	63.25	46.79	200.00	-
PULSES	81.31	81.37	71.19	95.86	200.00
Horse Beans	90.09	91.16	68.21	131.82	228.57
Chick Peas	77.72	77.72	-	-	-
Haricot Bean	83.86	81.93	110.17	-	-
Field Peas	62.62	70.55	27.69	42.50	-
Lentils	76.94	59.56	106.25	176.74	160.00
Vetch	41.00	40.68	66.67	-	-
OILSEEDS	72.45	63.50	63.83	111.54	-
Neug	157.14	162.00	146.15	-	-
Linseed	52.29	54.22	24.14	-	-
Fenugreek	92.06	64.71	100.00	217.39	-
Rapeseed	78.07	61.06	75.00	98.38	-
ALL CROPS	103.36	86.32	69.29	211.71	105.36

TABLE 3.5 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	39.27	39.27	-	-	-
Teff	33.80	33.80	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	23.08	23.08	-	-	-
Sorghum	-	-	-	-	-
Millet	123.53	123.53	-	-	-
Oats	-	-	-	-	-
PULSES	-	-	-	-	-
Horse Beans	-	-	-	-	-
Chick Peas	-	-	-	-	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
ALL CROPS	39.27	39.27	-	-	-

TABLE 3.6 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN S.E.P.A.\* REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	135.64	136.74	133.20	120.00	95.88
Teff	121.09	127.31	87.09	113.33	460.00
Barley	144.07	151.94	143.20	135.19	59.57
Wheat	142.08	144.42	106.57	81.82	80.00
Maize	148.52	137.97	250.92	-	114.04
Sorghum	120.35	114.06	175.86	-	-
Millet	135.29	123.53	172.55	-	-
Oats	-	-	-	-	-
PULSES	93.83	104.77	54.33	122.58	90.57
Horse Beans	90.06	113.18	26.26	95.00	78.26
Chick Peas	77.78	100.00	33.33	-	-
Haricot Bean	93.77	93.01	94.74	-	103.33
Field Peas	100.41	99.49	96.15	163.64	-
Lentils	80.00	80.00	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	335.19	280.95	520.83	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	335.19	280.95	520.83	-	-
Rapeseed	-	-	-	-	-
ALL CROPS	133.47	135.16	118.51	172.86	93.42

\* S.E.P.A. REGION= South Ethiopia People's Administrative Region.

TABLE 3.7 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN HARARI REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	346.94	200.00	276.92	627.27	-
Teff	-	-	-	-	-
Barley	222.22	-	100.00	375.00	-
Wheat	543.75	366.67	514.29	687.50	-
Maize	500.00	-	-	500.00	-
Sorghum	210.00	122.22	151.35	950.00	-
Millet	-	-	-	-	-
Oats	550.00	-	550.00	-	-
PULSES	500.00	-	-	500.00	-
Horse Beans	-	-	-	-	-
Chick Peas	500.00	-	-	500.00	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
OILSEEDS	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	-	-	-	-	-
Rapeseed	-	-	-	-	-
ALL CROPS	348.48	200.00	276.92	621.74	-

TABLE 3.8 RATE OF COMMERCIAL FERTILIZER APPLICATION FOR MAJOR CROPS OF MEHER SEASON, PRIVATE PEASANT HOLDINGS IN ADDIS ABABA REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL	DAP	UREA	DAP + UREA	NAT + COMM
CEREALS	230.84	156.52	50.00	236.30	250.00
Teff	255.45	200.00	-	257.56	250.00
Barley	-	-	-	-	-
Wheat	177.39	123.08	100.00	184.73	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Millet	-	-	-	-	-
Oats	-	-	-	-	-
PULSES	111.76	100.00	-	115.38	-
Horse Beans	-	-	-	-	-
Chick Peas	89.19	66.67	-	91.18	-
Haricot Bean	-	-	-	-	-
Field Peas	-	-	-	-	-
Lentils	168.75	200.00	-	150.00	-
Vetch	106.67	66.67	-	166.67	-
OILSEEDS	250.00	-	-	200.00	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Fenugreek	250.00	-	-	200.00	-
Rapeseed	-	-	-	-	-
ALL CROPS	221.12	141.94	100.00	227.43	300.00

**APPENDIX I**  
**ESTIMATION PROCEDURES OF TOTAL, RATIO**  
**AND SAMPLING ERRORS**

## APPENDIX I

### ESTIMATION PROCEDURES OF TOTAL, RATIO AND SAMPLING ERRORS.

The following formulas are used to estimate total area of land under specific crop where a certain agricultural input was used in a given stratum.

$$\hat{A}_h = \sum_{i1}^{n_h} w_{hi} a_{hi}$$

in which

$$W_{hi} = \frac{N_h M_{hi}}{n_h N_{hi} m_{hi}}$$

is the weight

where h represents the stratum.

$n_h$  is the total number of EAs selected in  $h^{\text{th}}$  stratum.

$N_h$  is the measure of size of the  $h^{\text{th}}$  stratum obtained from the sampling frame.

$N_{hi}$  is the measure of size of the  $i^{\text{th}}$  sample EA in the  $h^{\text{th}}$  stratum obtained from the sampling frame.

$M_{hi}$  is the total number of agricultural households of the  $i^{\text{th}}$  sample EA in the  $h^{\text{th}}$  stratum obtained from households listing of the survey.

$m_{hi}$  is number of sample agricultural households of the  $i^{\text{th}}$  sample EA in the  $h^{\text{th}}$  stratum.

$a_{hi}$  is the sample total of area values in the  $i^{\text{th}}$  EA in the  $h^{\text{th}}$  stratum for the specific agricultural input for the specific crop.

$A_h$  is estimate of total area under specific crop where a certain agricultural input was used in the  $h^{\text{th}}$  stratum.

Moreover, sampling variance of estimate of stratum total of area for a specific crop where a certain agricultural input used is estimated by the following formula.

$$\text{Var}(\hat{A}_h) = \frac{n_h}{n_h - 1} \left[ \sum_{i=1}^{n_h} \hat{A}_{hi}^2 - \frac{\hat{A}_h^2}{n_h} \right]$$

In estimating the sampling variance by the above formula, selection of EAs within a stratum is assumed to be with

replacement. By so doing the variance estimate may be slightly over estimated but it greatly simplify the estimation procedure. Further more the finite population correction (fpc) is ignored in the formula. This is due to the fact that its effect is negligible.

The estimate for rate of fertilizer application for the  $h^{\text{th}}$  stratum is given by:

$$\hat{R}_h = \frac{\hat{Q}_h}{\hat{A}_h}$$

where  $\hat{R}_h$  is estimate of rate of fertilizer application for a specific crop in the  $h^{\text{th}}$  stratum

$\hat{Q}_h$  is estimate of quantity of fertilizer applied for a specific crop in the  $h^{\text{th}}$  stratum

$\hat{A}_h$  is estimate of fertilizer applied area for a specific crop in the  $h^{\text{th}}$  stratum

The Sampling variance of the ratio estimate,  $\hat{R}_h$ , is approximated by:-

$$\text{Var}(\hat{R}) = \frac{1}{A^2} [\text{Var}(\hat{X}) + \hat{R}^2 \text{Var}(\hat{A}) - 2\hat{R}\text{Cov}(\hat{X}, \hat{A})]$$

Coefficient of variation (CV) of estimate of stratum total is given by:

$$CV(\hat{A}_h) = \frac{\sqrt{\text{Var}(\hat{A}_h)}}{\hat{A}_h} \times 100$$

Estimate of total quantity of fertilizer in a stratum, its sampling variance and coefficient of variation are obtained in the same manner mentioned above.

**APPENDIX II**  
**ESTIMATES, THEIR STANDARD ERROR AND**  
**COEFFICIENT OF VARIATIONS**

## APPENDIX II

TABLE 1.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN NATIONAL\*, 1994/95 (1987 E.C.)

TYPE OF CROP	(000 HA)															
	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED			
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV	
CEREALS	5745.97	112.69	1.96	58.87	11.26	19.13	34.71	8.64	24.90	537.40	50.78	9.45	1866.36	94.08	5.04	
Teff	1843.75	70.50	3.82	15.35	5.29	34.44	6.99	2.00	28.61	219.86	28.49	12.96	814.90	60.07	7.37	
Barley	879.18	54.95	6.25	2.40	1.20	49.93	4.47	1.68	37.68	40.55	7.05	17.39	265.01	33.75	12.74	
Wheat	769.35	48.38	6.29	21.18	8.35	39.41	2.91	1.40	47.98	122.46	16.81	13.72	373.00	38.65	10.36	
Maize	1104.67	50.75	4.59	13.71	4.00	29.20	8.24	3.52	42.69	57.34	11.64	20.30	265.65	23.43	8.82	
Sorghum	886.00	47.81	5.40	5.85	3.03	51.78	12.00	5.95	49.55	74.83	17.74	23.71	58.74	10.55	17.96	
Millet	228.51	23.64	10.35	0.38	0.26	68.42	0.09	0.09	100.00	21.49	7.45	34.66	77.97	14.87	19.07	
Oats	34.51	6.58	19.07	-	-	-	0.01	0.01	100.00	0.87	0.49	56.33	11.09	4.12	37.15	
PULSES	878.47	39.24	4.47	4.08	1.83	44.74	8.56	3.35	39.17	13.88	3.63	26.14	99.29	11.59	11.68	
Horse Beans	341.92	19.44	5.68	1.07	0.75	69.84	0.80	0.49	61.30	4.93	1.73	35.11	49.98	7.70	15.41	
Chick Peas	175.05	20.33	11.61	1.59	0.71	44.55	3.51	2.18	62.10	0.80	0.45	55.90	3.80	0.97	25.47	
Haricot Bean	68.75	9.82	14.28	0.39	0.30	75.76	1.03	1.03	100.00	0.82	0.44	53.66	15.09	5.51	36.49	
Field Peas	154.96	12.23	7.89	0.99	0.82	83.06	0.07	0.05	76.93	5.02	1.65	32.84	21.76	4.18	19.20	
Lentils	58.00	7.95	13.71	-	-	-	0.74	0.55	73.77	0.04	0.03	70.71	5.39	1.95	36.21	
Vetch	79.79	10.90	13.66	0.04	0.04	97.59	2.41	1.33	55.22	2.27	1.76	77.51	3.27	1.81	55.38	
OILSEEDS	335.66	25.96	7.74	1.15	0.56	49.10	0.96	0.63	65.62	2.95	1.42	47.97	18.83	4.55	24.16	
Neug	197.10	19.69	9.99	0.59	0.33	55.18	0.32	0.22	68.82	1.10	0.72	65.88	6.24	1.92	30.71	
Linseed	110.94	15.66	14.12	0.55	0.40	72.73	0.04	0.04	100.00	1.83	1.22	66.67	5.98	2.47	41.32	
Fenugreek	12.79	2.41	18.83	0.01	0.01	100.00	0.60	0.60	99.67	-	-	-	2.41	1.29	53.41	
Rapeseed	14.83	5.43	36.61	-	-	-	-	-	-	0.02	0.02	100.00	4.20	2.98	70.95	
Other Temporary	33.37	6.28	18.82	0.03	0.03	100.00	0.002	0.002	100.00	0.20	0.20	100.00	0.65	0.35	53.47	
Spices	43.53	6.52	14.99	0.01	0.01	100.00	2.41	1.46	60.63	0.56	0.28	50.25	12.49	3.26	26.14	
Potatoes	39.86	6.70	16.80	0.23	0.10	44.76	1.91	0.42	21.97	0.76	0.44	58.21	15.42	3.30	21.39	
Other Vegetables	71.39	7.51	10.52	1.00	0.65	64.76	8.76	3.55	40.57	3.63	3.00	82.68	18.16	3.09	17.03	
TOTAL TEMPORARY	7148.26	138.67	1.94	65.37	11.78	18.01	57.32	10.83	18.90	559.38	52.64	9.41	2031.20	99.98	4.92	
Chat	53.38	4.92	9.22	0.47	0.27	57.41	5.35	1.08	20.19	1.34	0.76	56.69	9.23	1.84	19.95	
Coffee	183.55	21.67	11.80	0.21	0.12	56.54	2.43	0.59	24.48	1.65	1.10	66.72	9.04	2.10	23.23	
Enset	252.26	18.62	7.38	0.12	0.12	100.00	0.56	0.25	44.71	0.17	0.09	55.80	75.11	8.78	11.68	
Fruits	8.06	2.57	31.88	0.002	0.002	100.00	2.59	1.87	72.35	0.01	0.01	100.00	0.51	0.32	63.05	
Other Permanent	42.35	10.81	25.53	0.03	0.02	74.54	2.92	1.00	34.16	0.23	0.16	69.43	4.77	1.17	24.60	
TOTAL PERMANENT	539.61	31.50	5.84	0.83	0.41	48.90	13.85	3.14	22.68	3.40	1.34	39.42	98.66	9.43	9.55	
ALL CROPS	7687.86	140.61	1.83	66.20	11.80	17.82	71.17	12.06	16.94	562.78	52.78	9.38	2129.86	100.98	4.74	

S.E. = STANDARD ERROR (IN THOUSAND HECTARES)

C.V. = COEFFICIENT OF VARIATION (IN PERCENT)

\* - EXCLUDING SOMALI REGION AND OTHER NOMADIC AREAS

TABLE 1.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN NATIONAL\*, 1994/95 (1987 E.C.)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	SE	CV	AREA	SE	CV	AREA	SE	CV	AREA	SE	CV	AREA	SE	CV
CEREALS	234.15	21.87	9.34	1152.89	73.90	6.41	244.28	36.41	14.91	216.37	46.88	21.67	18.64	4.53	24.30
Teff	21.63	4.22	19.51	526.98	45.60	8.65	109.65	17.82	16.25	153.30	33.01	21.53	3.35	1.11	33.01
Barley	30.81	5.74	18.64	196.86	31.40	15.95	28.02	7.63	27.22	5.70	2.34	40.97	3.61	1.89	52.47
Wheat	12.59	2.39	18.97	234.64	25.61	10.91	70.03	21.55	30.77	52.98	17.19	32.44	2.73	1.18	43.36
Maize	123.78	13.68	11.05	114.81	16.00	13.94	16.51	4.17	25.29	2.86	1.58	55.28	7.69	2.27	29.55
Sorghum	39.55	9.15	23.14	7.58	1.84	24.25	10.47	3.77	36.04	0.21	0.17	83.16	0.96	0.69	71.88
Millet	5.78	2.10	36.41	64.32	13.22	20.55	6.46	2.00	30.94	1.09	0.82	75.23	0.30	0.23	78.03
Oats	0.01	0.01	100.00	7.70	3.20	41.55	3.14	1.51	48.06	0.23	0.23	99.14	-	-	-
PULSES	24.83	3.83	15.42	63.12	10.28	16.29	7.98	2.22	27.87	2.47	1.04	41.97	0.86	0.40	45.97
Horse Beans	14.01	2.53	18.03	30.73	6.87	22.37	4.44	1.80	40.63	0.50	0.25	49.15	0.31	0.17	53.40
Chick Peas	0.97	0.40	41.25	2.35	0.87	36.86	0.03	0.03	100.00	0.45	0.21	45.81	0.002	0.002	100.00
Haricot Bean	3.20	1.50	47.00	10.45	5.16	49.37	1.16	0.55	47.69	-	-	-	0.30	-	-
Field Peas	5.51	1.60	29.07	13.38	3.46	25.89	1.76	0.62	35.25	0.91	0.81	88.74	0.20	0.20	100.00
Lentils	0.90	0.85	94.45	3.51	1.25	35.61	0.31	0.17	54.66	0.55	0.43	78.52	0.05	0.05	100.00
Vetch	0.24	0.14	56.67	2.70	1.80	66.55	0.28	0.20	69.80	0.06	0.02	33.33	-	-	-
OILSEEDS	2.31	0.86	37.23	13.56	3.55	26.20	0.87	0.37	42.15	2.09	1.85	88.52	0.002	0.002	100.00
Neug	1.56	0.79	50.38	4.45	1.78	39.90	0.24	0.15	61.94	-	-	-	-	-	-
Linseed	0.64	0.34	53.90	4.99	2.42	48.43	0.34	0.23	66.36	-	-	-	-	-	-
Fenugreek	0.05	0.03	56.57	1.87	1.07	57.07	0.25	0.24	96.08	0.24	0.15	62.64	-	-	-
Rapeseed	0.06	0.03	52.70	2.25	1.23	54.67	0.04	0.04	100.00	1.85	1.85	100.00	-	-	-
Other Temporary	0.56	0.33	59.57	0.09	0.09	100.00	-	-	-	-	-	-	-	-	-
Spices	3.47	1.16	33.41	8.15	2.82	34.66	0.59	0.32	53.52	0.16	0.13	81.25	0.12	0.07	60.67
Potatoes	5.12	1.05	20.53	9.09	2.95	32.40	0.77	0.36	47.01	0.13	0.08	63.90	0.29	0.16	55.28
Other Vegetables	11.80	2.20	18.66	4.21	1.79	42.43	1.00	0.38	38.35	1.12	0.61	54.81	0.04	0.03	70.71
TOTAL TEMPORARY	282.24	24.11	8.54	1251.11	79.71	6.37	255.49	37.27	14.59	222.35	47.37	21.30	19.95	4.68	23.44
Chat	7.84	1.60	20.35	0.08	0.05	62.50	1.10	0.91	82.55	0.14	0.14	100.00	0.07	0.07	100.00
Coffee	7.19	1.58	21.94	1.35	1.22	90.40	0.50	0.50	100.00	-	-	-	-	-	-
Enset	73.97	8.54	11.54	0.76	0.49	64.92	0.14	0.14	100.00	0.24	0.24	100.00	0.001	0.001	100.00
Fruits	0.51	0.32	63.29	0.002	0.002	100.00	-	-	-	-	-	-	-	-	-
Other Permanent	4.50	1.17	25.97	0.13	0.06	49.85	0.15	0.15	100.00	-	-	-	-	-	-
TOTAL PERMANENT	94.01	9.24	9.83	2.32	1.32	56.71	1.89	1.06	55.87	0.38	0.28	73.12	0.07	0.07	98.60
ALL CROPS	376.25	26.97	7.17	1253.44	79.98	6.38	257.38	37.43	14.54	222.73	47.37	21.27	20.03	4.69	23.45

SE. = STANDARD ERROR (IN THOUSAND HECTARES)

C.V. = COEFFICIENT OF VARIATION (IN PERCENT)

\* - EXCLUDING SOMALI REGION AND OTHER NOMADIC AREAS

TABLE 1.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN NATIONAL\*, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM		
	QUANTITY	SE.	CV	QUANTITY	SE.	C.V	QUANTITY	SE.	C.V	QUANTITY	SE.	C.V	QUANTITY	SE.	C.V
CEREALS	1702.25	141.51	8.31	1076.62	79.30	7.37	197.02	29.09	14.76	411.25	114.11	27.75	16.95	4.57	26.98
Teff	829.75	92.30	11.12	457.35	43.75	9.57	89.26	16.71	18.72	279.72	78.37	28.02	3.41	1.36	39.98
Barley	209.29	30.07	14.37	176.24	28.58	16.22	20.22	5.03	24.89	9.33	3.93	42.17	3.14	1.94	61.82
Wheat	421.38	52.20	12.39	250.71	30.77	12.27	55.39	14.65	26.44	112.49	38.76	34.46	2.78	1.37	49.23
Maize	171.97	29.46	17.13	137.25	22.93	16.71	19.70	5.49	27.88	8.10	6.81	84.03	6.92	2.21	31.88
Sorghum	14.80	3.10	20.95	6.87	1.66	24.16	6.78	1.99	29.30	0.60	0.44	73.18	0.55	0.42	76.36
Millet	48.15	9.74	20.23	43.33	9.10	21.01	4.09	1.36	33.30	0.54	0.47	87.04	0.15	0.11	72.11
Oats	6.91	3.25	47.06	4.87	2.61	53.58	1.58	0.76	47.92	0.47	0.46	97.90	-	-	-
PULSES	63.02	9.18	14.56	53.17	8.79	16.53	6.50	1.59	24.49	2.57	1.06	41.04	0.77	0.37	47.72
Horse Beans	33.22	6.75	20.33	28.86	6.58	22.81	3.46	1.18	34.19	0.57	0.27	46.80	0.34	0.19	57.11
Chick Peas	2.30	0.82	35.44	1.85	0.80	43.00	0.01	0.01	100.00	0.44	0.18	40.27	0.004	0.004	100.00
Haricot Bean	10.26	4.39	42.74	8.76	4.35	49.60	1.19	0.62	52.34	-	-	-	0.31	0.31	100.00
Field Peas	11.87	2.49	20.95	10.18	2.33	22.90	1.11	0.47	42.70	0.52	0.38	73.98	0.04	0.04	100.00
Lentils	3.54	1.84	51.97	2.19	1.01	46.11	0.33	0.26	77.85	0.94	0.76	81.30	0.08	0.08	100.00
Vetch	1.83	0.74	40.33	1.33	0.68	51.20	0.40	0.28	70.62	0.10	0.04	40.00	-	-	-
OILSEEDS	13.52	4.78	35.34	9.41	3.13	33.26	1.72	1.27	73.72	2.36	1.85	78.40	0.01	0.01	100.00
Neug	2.58	0.89	34.39	2.27	0.87	38.19	0.31	0.20	64.03	-	-	-	-	-	-
Linseed	2.86	1.48	51.70	2.73	1.48	54.09	0.12	0.08	65.09	-	-	-	-	-	-
Fenugreek	4.84	3.68	75.96	3.02	2.41	79.75	1.26	1.25	99.21	0.54	0.33	61.36	0.01	0.01	100.00
Rapeseed	3.24	2.49	76.85	1.39	0.74	53.24	0.03	0.03	100.00	1.82	1.82	100.00	-	-	-
Other Temporary	0.48	0.28	59.00	0.48	0.28	59.00	-	-	-	-	-	-	-	-	-
Spices	23.60	9.60	40.67	21.18	8.46	39.93	2.18	1.73	79.36	0.16	0.14	87.50	0.08	0.05	63.74
Potatoes	16.39	4.50	27.46	13.22	3.92	29.63	1.81	1.10	60.91	0.34	0.19	55.49	1.03	0.85	82.30
Other Vegetables	16.20	6.10	37.67	7.28	3.80	52.16	5.48	3.15	57.47	3.24	1.76	54.32	0.21	0.17	79.82
TOTAL TEMPORARY	1835.46	146.86	8.00	1181.36	85.22	7.21	214.72	31.07	14.47	419.92	25.39	6.05	19.05	5.00	26.24
Chat	1.44	0.85	59.03	-	-	-	1.09	0.67	61.33	0.20	0.20	100.00	0.01	0.01	100.00
Coffee	0.94	0.58	61.38	0.72	0.53	73.10	0.22	0.22	100.00	-	-	-	-	-	-
Enset	1.96	1.07	54.49	1.42	0.99	70.00	0.19	0.19	100.00	0.35	0.35	100.00	0.001	0.001	100.00
Fruits	0.01	0.01	100.00	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-
Other Permanent	1.50	0.81	54.23	1.27	0.78	61.44	0.23	0.23	100.00	-	-	-	-	-	-
TOTAL PERMANENT	5.85	1.69	28.81	3.42	1.38	40.36	1.73	0.76	44.21	0.55	0.40	73.29	0.01	0.01	91.36
ALL CROPS	1841.31	148.27	8.05	1184.78	86.81	7.33	216.45	31.51	14.56	420.47	114.45	27.22	19.07	5.01	26.26

SE. = STANDARD ERROR (IN THOUSAND HECTARES)

C.V. = COEFFICIENT OF VARIATION (IN PERCENT)

\* - EXCLUDING SOMALI REGION AND OTHER NOMADIC AREAS

TABLE 2.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN TIGRAY REGION, 1994/95(1987 E.C.)

TYPE OF CROP	( 000' HA)															
	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED			
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV	
CEREALS	461.33	36.51	7.91	9.33	4.82	51.66	6.01	4.02	66.89	95.12	32.19	33.84	70.79	18.18	25.68	
Teff	116.98	18.53	15.84	5.45	4.72	86.61	0.29	0.29	100.00	20.60	12.22	59.32	23.56	12.26	52.04	
Barley	104.24	20.99	20.14	0.57	0.44	77.19	0.32	0.18	56.25	4.97	2.26	45.47	8.25	3.65	44.24	
Wheat	45.72	10.02	21.92	2.98	1.35	45.30	-	-	-	0.98	0.51	52.04	5.68	2.60	45.77	
Maize	49.18	10.75	21.86	0.05	0.05	100.00	3.30	3.01	91.21	13.07	6.50	49.73	12.47	6.39	51.24	
Sorghum	100.46	25.46	25.34	0.28	0.28	100.00	2.10	1.48	70.48	39.41	16.41	41.64	17.29	8.06	46.62	
Millet	44.75	11.22	25.07	-	-	-	-	-	-	16.09	7.20	44.75	3.54	1.81	51.13	
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PULSES	40.01	8.66	21.64	0.17	0.17	100.00	0.63	0.49	77.78	3.13	2.48	79.23	3.74	1.66	44.39	
Horse Beans	8.93	3.64	40.76	-	-	-	-	-	-	0.34	0.23	67.65	0.38	0.27	71.05	
Chick Peas	12.10	6.40	52.89	0.17	0.17	100.00	0.46	0.46	100.00	-	-	-	0.26	0.26	100.00	
Haricot Bean	1.56	1.56	100.00	-	-	-	-	-	-	-	-	-	1.24	1.24	100.00	
Field Peas	7.62	2.77	36.35	-	-	-	-	-	-	1.06	0.77	72.64	1.71	0.91	53.22	
Lentils	3.75	1.98	52.80	-	-	-	-	-	-	-	-	-	0.08	0.08	100.00	
Vetch	6.05	3.03	50.08	-	-	-	0.17	0.17	100.00	1.73	1.73	100.00	0.07	0.07	100.00	
OILSEEDS	4.70	2.40	51.06	-	-	-	0.00	-	-	0.00	-	-	0.05	0.05	100.00	
Neug	3.45	2.37	68.70	-	-	-	-	-	-	-	-	-	-	-	-	
Linseed	1.21	0.60	49.59	-	-	-	-	-	-	-	-	-	-	-	-	
Fenugreek	0.04	0.04	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Temporary	0.45	0.30	66.67	-	-	-	-	-	-	-	-	-	0.22	0.22	100.00	
Spices	0.03	0.03	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Vegetables	0.06	0.04	66.67	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL TEMPORARY	506.58	37.95	7.49	9.50	4.84	50.95	6.64	4.05	60.99	98.25	33.92	34.52	74.80	19.05	25.47	
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Permanent	0.77	0.56	72.73	-	-	-	0.17	0.12	70.59	0.01	0.01	100.00	0.01	0.01	100.00	
TOTAL PERMANENT	0.77	0.56	72.73	-	-	-	0.17	0.12	70.59	0.01	0.01	100.00	0.01	0.01	100.00	
ALL CROPS	507.35	37.91	7.47	9.50	4.84	50.95	6.81	4.05	59.47	98.26	33.92	34.52	74.81	19.05	25.46	

TABLE 2.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN TIGRAY REGION, 1994/95(1987 E.C.)

TYPE OF CROP	( '000' HA)														
	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	41.06	14.50	35.31	23.49	11.71	49.85	4.73	1.92	40.59	-	-	-	1.50	1.09	72.67
Teff	2.59	1.74	67.18	18.23	11.47	62.92	2.16	1.10	50.93	-	-	-	0.59	0.34	57.63
Barley	4.44	2.27	51.13	2.27	1.18	51.98	1.19	0.77	64.71	-	-	-	0.35	0.35	100.00
Wheat	1.63	0.60	36.81	2.56	1.63	63.67	1.38	0.99	71.74	-	-	-	0.10	0.10	100.00
Maize	11.87	6.40	53.92	0.36	0.36	100.00	-	-	-	-	-	-	0.24	0.24	100.00
Sorghum	17.29	8.06	46.62	-	-	-	-	-	-	-	-	-	-	-	-
Millet	3.24	1.79	55.25	0.07	0.07	100.00	-	-	-	-	-	-	0.22	0.22	100.00
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	2.83	1.64	57.95	0.57	0.32	56.14	0.07	0.01	14.29	-	-	-	0.20	0.20	100.00
Horse Beans	-	-	-	0.38	0.27	71.05	-	-	-	-	-	-	-	-	-
Chick Peas	0.26	0.26	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	1.24	1.24	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	1.32	0.86	65.15	0.19	0.19	100.00	-	-	-	-	-	-	0.20	0.20	100.00
Lentils	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	0.07	0.07	100.00	-	-	-	-	-	-
OILSEEDS	0.05	0.05	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	0.05	0.05	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.22	0.22	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	44.16	15.64	35.42	24.06	11.76	48.88	4.80	1.92	40.00	-	-	-	1.70	1.28	75.29
Char	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.01	0.01	100.00	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.01	0.01	100.00	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-
ALL CROPS	44.17	15.64	35.41	24.07	11.76	48.86	4.80	1.92	40.00	-	-	-	1.70	1.28	75.29

TABLE 2.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN TIGRAY REGION, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	S.E.	CV	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V	QUANTITY	S.E.	CV	QUANTITY	S.E.	C.V
CEREALS	19.05	8.96	47.03	15.08	8.36	55.44	3.35	1.50	44.78	-	-	-	0.62	0.37	59.68
Teff	13.45	8.61	64.01	11.63	8.19	70.42	1.42	0.70	49.30	-	-	-	0.40	0.30	75.00
Barley	1.73	0.65	37.57	1.16	0.57	49.14	0.52	0.31	59.62	-	-	-	0.05	0.05	100.00
Wheat	3.36	2.08	61.90	1.91	1.16	60.73	1.41	1.02	72.34	-	-	-	0.04	0.04	100.00
Maize	0.31	0.27	87.10	0.27	0.27	100.00	-	-	-	-	-	-	0.04	0.04	100.00
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	0.20	0.14	70.00	0.11	0.11	100.00	-	-	-	-	-	-	0.09	0.09	100.00
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	1.08	0.63	58.33	0.91	0.62	68.13	0.13	0.13	100.00	-	-	-	0.04	0.04	100.00
Horse Beans	0.37	0.33	89.19	0.37	0.33	89.19	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	0.58	0.54	93.10	0.54	0.54	100.00	-	-	-	-	-	-	0.04	0.04	100.00
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	0.13	0.13	100.00	-	-	-	0.13	0.13	100.00	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	20.13	9.06	45.01	15.99	8.43	52.72	3.48	1.53	43.97	-	-	-	0.66	0.40	60.61
Cha	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.30	0.30	100.00	0.30	0.30	100.00	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.30	0.30	100.00	0.30	0.30	100.00	-	-	-	-	-	-	-	-	-
ALL CROPS	20.43	9.11	44.59	16.29	8.49	52.12	3.48	1.53	43.97	-	-	-	0.66	0.40	60.61

TABLE 3.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN AFAR REGION, 1994/95(1987 E.C.)

( '000' HA)

TYPE OF CROP	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED		
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV
CEREALS	16.51	9.52	57.66	0.21	0.21	100.00	-	-	-	-	-	-	3.94	3.94	100.00
Teff	6.32	3.77	59.65	-	-	-	-	-	-	-	-	-	1.74	1.74	100.00
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.46	0.28	60.87	-	-	-	-	-	-	-	-	-	0.11	0.11	100.00
Sorghum	9.73	5.60	57.55	0.21	0.21	100.00	-	-	-	-	-	-	2.09	2.09	100.00
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	0.04	0.04	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	0.04	0.04	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.06	0.06	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	16.61	9.60	57.80	0.21	0.21	100.00	-	-	-	-	-	-	3.94	3.94	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.33	0.26	78.79	-	-	-	0.16	0.10	65.74	-	-	-	-	-	-
Other Permanent	0.15	0.11	73.33	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.48	0.37	77.08	-	-	-	0.16	0.10	65.74	-	-	-	-	-	-
ALL CROPS	17.09	9.86	57.69	0.21	0.21	100.00	0.16	0.10	65.74	-	-	-	3.94	3.94	100.00

TABLE 3.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN AFAR REGION, 1994/95(1987 E.C.)

( '000' HA)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	3.94	3.94	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Teff	1.74	1.74	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.11	0.11	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	2.09	2.09	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	3.94	3.94	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Cha	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	3.94	3.94	100.00	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN AMHARA REGION, 1994/95 (1987 E.C.)

( '000 HA)

TYPE OF CROP	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED		
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V.	AREA	SE	C.V.	AREA	SE	CV
CEREALS	2055.80	67.41	3.28	8.75	2.29	26.17	16.17	6.45	39.89	44.35	9.54	21.51	525.80	53.91	10.25
Teff	809.55	41.32	5.10	4.90	1.80	36.73	2.50	0.87	34.80	17.72	5.22	29.46	287.15	32.47	11.31
Barley	331.63	26.68	8.05	0.24	0.17	70.83	3.70	1.65	44.59	3.46	1.73	50.00	55.53	11.74	21.14
Wheat	240.01	23.66	9.86	2.15	0.64	29.77	1.03	0.58	56.31	3.69	1.83	49.59	49.79	11.37	22.84
Maize	226.45	14.87	6.57	0.14	0.12	85.71	1.22	0.44	36.07	8.33	3.71	44.54	66.11	10.11	15.29
Sorghum	303.35	30.53	10.06	0.94	0.80	85.11	7.62	5.65	74.15	8.18	2.18	26.65	5.81	2.52	43.37
Millet	136.39	19.52	14.31	0.38	0.26	68.42	0.09	0.09	100.00	2.96	1.58	53.38	61.40	14.29	23.27
Oats	8.42	2.56	30.40	-	-	-	0.01	0.01	100.00	0.01	0.01	100.00	0.01	0.01	100.00
PULSES	409.61	26.56	6.48	1.29	0.68	52.71	6.24	3.14	50.32	6.66	2.32	34.83	17.27	4.43	25.65
Horse Beans	145.99	12.65	8.66	-	-	-	0.56	0.46	82.14	3.26	1.63	50.00	8.85	2.80	31.64
Chick Peas	105.71	13.60	12.87	1.25	0.68	54.40	2.94	2.13	72.45	0.72	0.44	61.11	0.71	0.33	46.48
Haricot Bean	13.07	4.26	32.59	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	68.62	8.56	12.47	-	-	-	0.02	0.02	100.00	2.13	1.04	48.83	6.18	3.01	48.71
Lentils	29.95	5.48	18.30	-	-	-	0.48	0.48	100.00	0.02	0.02	100.00	1.00	0.85	85.00
Vetch	46.27	8.25	17.83	0.04	0.04	100.00	2.24	1.32	58.93	0.53	0.32	60.38	0.53	0.32	60.38
OILSEEDS	142.87	15.48	10.84	0.30	0.22	73.33	0.91	0.63	69.23	0.39	0.39	100.00	5.73	1.90	33.16
Neug	106.94	13.90	13.00	0.29	0.22	75.86	0.31	0.22	70.97	0.39	0.39	100.00	5.35	1.88	35.14
Linseed	25.55	4.78	18.71	-	-	-	-	-	-	-	-	-	0.34	0.23	67.65
Fenugreek	5.45	1.45	26.61	0.01	0.01	100.00	0.60	0.60	100.00	-	-	-	0.03	0.02	66.67
Rapeseed	4.93	2.38	48.28	-	-	-	-	-	-	-	-	-	0.01	0.01	100.00
Other Temporary	23.86	5.03	21.08	-	-	-	-	-	-	-	-	-	0.24	0.24	100.00
Spices	17.18	4.42	25.73	0.01	0.01	100.00	2.05	1.43	69.76	0.19	0.18	94.74	1.23	0.45	36.59
Potatoes	12.49	4.17	33.39	-	-	-	1.24	0.36	29.03	-	-	-	1.80	0.68	37.78
Other Vegetables	6.13	2.05	33.44	0.01	0.01	100.00	1.78	0.63	35.39	0.01	0.01	100.00	2.50	1.80	72.00
TOTAL TEMPORARY	2667.94	84.08	3.15	10.36	2.44	23.55	28.39	7.68	27.05	51.60	10.89	21.10	554.57	57.02	10.28
Chat	1.98	0.88	44.44	-	-	-	0.39	0.26	66.67	0.27	0.27	100.00	0.42	0.29	69.05
Coffee	6.32	2.04	32.28	0.04	0.04	100.00	1.01	0.43	42.57	0.04	0.04	100.00	0.15	0.07	46.67
Enset	0.24	0.24	100.00	-	-	-	-	-	-	-	-	-	0.004	0.004	100.00
Fruits	0.44	0.07	15.91	-	-	-	0.17	0.10	58.82	0.01	0.01	100.00	0.03	0.03	100.00
Other Permanent	11.75	2.96	25.19	0.01	0.01	100.00	1.03	0.35	33.98	0.15	0.15	100.00	2.08	0.95	45.67
TOTAL PERMANENT	20.73	4.37	21.08	0.05	0.05	100.00	2.60	0.73	28.08	0.47	0.35	74.47	2.68	1.01	37.63
ALL CROPS	2688.67	84.43	3.14	10.41	2.44	23.44	30.99	7.92	25.56	52.07	10.88	20.89	557.25	57.24	10.27

TABLE 4.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN AMARA REGION, 1994/95(1987E.C.)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	76.74	9.44	12.30	319.59	44.84	14.03	70.90	16.74	23.61	51.88	16.18	31.19	6.69	3.13	46.79
TEFF	9.68	2.59	26.76	181.80	26.51	14.58	52.30	13.73	26.25	42.18	12.80	30.35	1.19	0.67	56.30
Barley	15.42	4.05	26.26	33.24	8.94	26.90	4.33	2.58	59.58	0.48	0.32	66.67	2.06	1.67	81.07
Wheat	4.99	1.64	32.87	29.31	8.94	30.50	6.63	2.64	39.82	8.13	4.46	54.86	0.73	0.53	72.60
Maize	38.95	5.84	14.99	21.82	6.58	30.16	2.71	1.25	46.13	-	-	-	2.63	0.93	35.36
Sorghum	5.57	2.51	45.06	0.25	0.25	100.00	-	-	-	-	-	-	-	-	-
Millet	2.12	1.09	51.42	53.17	12.81	24.09	4.93	1.80	36.51	1.09	0.82	75.23	0.08	0.08	100.00
Oats	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	8.38	2.04	24.34	7.69	3.42	44.47	1.01	0.49	48.51	0.19	0.14	73.68	-	-	-
Horse Beans	5.51	1.77	32.12	2.75	1.44	52.36	0.51	0.27	52.94	0.09	0.09	100.00	-	-	-
Chick Peas	0.37	0.22	59.46	0.24	0.24	100.00	-	-	-	0.10	0.10	100.00	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	1.50	0.60	40.00	4.35	2.68	61.61	0.32	0.32	100.00	-	-	-	-	-	-
Lentils	0.89	0.85	95.51	0.11	0.11	100.00	-	-	-	-	-	-	-	-	-
Vetch	0.11	0.11	100.00	0.24	0.24	100.00	0.18	0.18	100.00	-	-	-	-	-	-
OILSEEDS	1.36	0.77	56.62	4.20	1.76	41.90	0.16	0.12	75.00	-	-	-	-	-	-
Neug	1.29	0.76	58.91	3.95	1.75	44.30	0.11	0.11	100.00	-	-	-	-	-	-
Linseed	0.03	0.03	100.00	0.25	0.18	72.00	0.05	0.05	100.00	-	-	-	-	-	-
Fenugreek	0.03	0.02	66.67	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	0.01	0.04	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.24	0.24	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Spices	0.90	0.39	43.33	0.15	0.10	66.67	-	-	-	0.16	0.13	81.25	0.02	0.02	100.00
Ptatoes	1.33	0.61	45.86	0.36	0.16	44.44	0.07	0.05	71.43	-	-	-	0.04	0.04	100.00
Other Vegetables	0.34	0.18	52.94	1.62	1.58	97.53	0.24	0.19	79.17	0.30	0.30	100.00	-	-	-
TOTAL TEMPORARY	89.29	10.61	11.88	333.61	47.51	14.24	72.38	17.06	23.57	52.53	16.30	31.03	6.75	3.17	46.96
Chat	0.42	0.29	69.05	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	0.15	0.07	46.67	-	-	-	-	-	-	-	-	-	-	-	-
Enset	0.004	0.004	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.03	0.03	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	1.93	0.95	49.22	-	-	-	0.15	0.15	100.00	-	-	-	-	-	-
TOTAL PERMANENT	2.53	1.00	39.46	-	-	-	0.15	0.15	100.00	-	-	-	-	-	-
ALL CROPS	91.82	10.87	11.84	333.61	47.54	14.25	72.53	17.08	23.55	52.53	16.32	31.07	6.75	3.17	46.96

( '000' HA)

TABLE 4.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN AMARA REGION, 1994/95(1987E.C.)

TYPE OF CROP	('000 QT.)														
	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV
CEREALS	412.27	63.00	15.28	285.85	49.60	17.35	61.67	19.91	32.28	58.33	22.36	38.33	6.42	3.43	53.43
Teff	246.36	38.37	15.57	155.67	28.38	18.23	43.07	14.06	32.64	46.65	18.02	38.63	0.97	0.57	58.76
Barley	38.76	11.54	29.77	31.75	9.32	29.35	4.40	2.75	62.50	0.37	0.24	64.86	2.23	1.89	84.75
Wheat	54.97	17.21	31.31	34.48	12.95	37.56	9.12	5.43	59.54	10.77	5.50	51.07	0.60	0.43	71.67
Maize	32.37	9.28	28.67	27.49	8.36	30.41	2.33	1.00	42.92	-	-	-	2.56	1.12	43.75
Sorghum	0.01	0.01	100.00	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-
Millet	39.80	9.50	23.87	36.45	8.93	24.50	2.75	1.13	41.09	0.54	0.47	87.04	0.06	0.06	100.00
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	7.15	2.46	34.41	4.95	1.93	38.99	2.05	1.20	58.54	0.16	0.11	68.75	-	-	-
Horse Beans	3.78	1.52	40.21	2.10	0.90	42.86	1.61	1.07	66.46	0.08	0.08	100.00	-	-	-
Chick Peas	0.27	0.20	74.07	0.19	0.19	100.00	-	-	-	0.08	0.08	100.00	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	2.46	1.33	54.07	2.27	1.31	57.71	0.19	0.19	100.00	-	-	-	-	-	-
Lentils	0.09	0.09	100.00	0.09	0.09	100.00	-	-	-	-	-	-	-	-	-
Vetch	0.55	0.39	70.91	0.30	0.30	100.00	0.25	0.25	100.00	-	-	-	-	-	-
OILSEEDS	1.81	0.69	38.12	1.63	0.68	41.72	0.18	0.14	77.78	-	-	-	-	-	-
Neug	1.59	0.68	42.77	1.47	0.67	45.58	0.13	0.13	100.00	-	-	-	-	-	-
Linseed	0.22	0.16	72.73	0.16	0.16	87.50	0.05	0.05	100.00	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.19	0.19	100.00	0.19	0.19	100.00	-	-	-	-	-	-	-	-	-
Spices	0.32	0.18	56.25	0.15	0.10	66.67	-	-	-	0.16	0.14	87.50	0.01	0.01	100.00
Potatoes	1.45	0.79	54.48	1.24	0.76	61.29	0.14	0.13	92.86	-	-	-	0.07	0.07	100.00
Other Vegetables	4.63	4.17	90.06	3.63	3.59	98.90	0.75	0.59	78.67	0.25	0.25	100.00	-	-	-
TOTAL TEMPORARY	427.82	67.30	15.73	297.64	52.45	17.62	64.79	21.24	32.78	58.90	22.42	38.06	6.50	3.49	53.69
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.23	0.23	100.00	-	-	-	0.23	0.23	100.00	-	-	-	-	-	-
TOTAL PERMANENT	0.23	0.23	100.00	-	-	-	0.23	0.23	100.00	-	-	-	-	-	-
ALL CROPS	428.05	67.32	15.73	297.64	52.46	17.63	65.02	21.25	32.68	58.90	22.44	38.10	6.50	3.49	53.69

TABLE 5.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN OROMIA REGION, 1994/95(1987 E.C.)

TYPE OF CROP	( '000' HA)															
	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED			
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV	
CEREALS	2614.31	73.70	2.82	33.24	9.70	29.18	7.80	2.99	38.33	322.09	35.00	10.87	1065.07	72.53	6.81	
Teff	754.69	51.10	6.77	1.93	0.81	41.97	2.88	1.38	47.92	156.53	23.77	15.19	430.64	47.66	11.07	
Barley	370.41	40.69	10.99	1.51	1.10	72.85	0.39	0.28	71.79	29.27	6.20	21.18	178.51	30.90	17.31	
Wheat	406.23	39.12	9.63	14.82	8.20	55.33	1.85	1.27	68.65	82.60	13.93	16.86	263.52	35.46	13.46	
Maize	663.11	43.56	6.57	10.61	3.80	35.82	1.62	0.68	41.98	28.97	8.16	28.17	143.28	18.22	12.72	
Sorghum	355.65	23.18	6.52	4.37	2.90	66.36	1.06	0.61	57.55	23.18	5.93	25.58	27.42	5.87	21.41	
Millet	38.42	6.45	16.79	-	-	-	-	-	-	0.68	0.32	47.06	10.65	3.56	33.43	
Oats	25.80	6.06	23.49	-	-	-	-	-	-	0.86	0.49	56.98	11.05	4.12	37.29	
PULSES	341.72	25.67	7.51	0.67	0.39	58.21	1.61	1.07	66.46	2.31	0.77	33.33	54.08	9.17	16.96	
Horse Beans	146.17	13.01	8.90	0.21	0.16	76.19	0.24	0.17	70.83	0.79	0.45	56.96	28.95	6.23	21.52	
Chick Peas	49.25	12.95	26.29	-	-	-	0.08	0.08	100.00	0.08	0.08	100.00	2.36	0.85	36.02	
Haricot Bean	40.36	7.81	19.35	0.27	0.27	100.00	1.03	1.03	100.00	0.82	0.44	53.66	9.52	5.05	53.05	
Field Peas	56.54	7.52	13.30	0.19	0.19	100.00	-	-	-	0.62	0.32	51.61	6.73	1.96	29.12	
Lentils	22.87	5.39	23.57	-	-	-	0.26	0.26	100.00	-	-	-	4.00	1.75	43.75	
Vetch	26.53	6.45	24.31	-	-	-	-	-	-	-	-	-	2.52	1.78	70.63	
OILSEEDS	182.22	20.57	11.29	0.85	0.52	61.18	0.05	0.04	80.00	2.53	1.36	53.75	11.95	3.99	33.79	
Neug	82.07	13.58	16.55	0.30	0.24	80.00	0.01	0.01	100.00	0.68	0.61	89.71	0.89	0.37	41.57	
Linseed	84.15	14.90	17.71	0.55	0.40	72.73	0.04	0.04	100.00	1.83	1.22	66.67	5.59	2.46	44.01	
Fenugreek	6.11	1.59	26.02	-	-	-	-	-	-	-	-	-	1.28	0.70	54.69	
Rapeseed	9.89	4.88	49.34	-	-	-	-	-	-	0.02	0.02	100.00	4.19	2.98	71.12	
Other Temporary	7.10	3.66	51.55	0.03	0.03	100.00	0.002	0.002	100.00	0.20	0.20	100.00	0.16	0.12	75.00	
Spices	8.55	2.00	23.39	-	-	-	0.36	0.30	83.33	0.18	0.18	100.00	2.04	0.73	35.78	
Potatoes	18.90	4.92	26.03	0.08	0.05	62.50	0.52	0.20	38.46	0.47	0.39	82.98	9.10	2.94	32.31	
Other Vegetables	25.84	4.41	17.07	0.34	0.34	100.00	5.19	3.33	64.16	3.24	2.99	92.28	5.19	1.14	21.97	
TOTAL TEMPORARY	3198.64	94.82	2.96	35.21	9.90	28.12	15.53	5.51	35.48	331.02	35.59	10.75	1147.59	76.86	6.70	
Chat	37.57	3.96	10.54	0.27	0.20	74.07	4.65	1.01	21.72	1.07	0.71	66.36	4.62	1.28	27.71	
Coffee	125.96	19.54	15.51	0.07	0.05	71.43	1.03	0.38	36.89	1.59	1.10	69.18	1.75	0.87	49.71	
Enset	73.51	15.55	21.15	-	-	-	0.14	0.10	71.43	0.04	0.03	75.00	10.56	3.78	35.80	
Fruits	2.41	0.50	20.75	-	-	-	0.26	0.17	65.38	-	-	-	0.05	0.03	60.00	
Other Permanent	9.14	1.33	14.55	-	-	-	0.89	0.45	50.56	0.05	0.05	100.00	1.08	0.30	27.78	
TOTAL PERMANENT	248.59	25.72	10.35	0.34	0.23	67.65	6.97	1.25	17.93	2.75	1.29	46.91	18.06	4.14	22.92	
ALL CROPS	3447.23	95.83	2.78	35.55	9.90	27.85	22.50	5.81	25.82	333.77	35.80	10.73	1165.65	76.86	6.59	

TABLE 5.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN OROMIA REGION, 1994/95(1987 E.C.)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	91.08	11.63	12.77	661.43	55.06	8.32	148.04	31.82	21.49	156.50	43.98	28.10	8.01	2.74	34.21
Teff	4.14	0.96	23.19	273.51	33.85	12.38	45.35	10.39	22.91	106.14	30.42	28.66	1.50	0.81	54.00
Barley	4.25	0.96	22.59	150.28	29.84	19.86	19.07	6.97	36.55	4.64	2.28	49.14	0.26	0.26	100.00
Wheat	3.13	0.97	30.99	156.58	21.90	13.99	59.67	21.34	35.76	42.52	16.59	39.02	1.61	1.04	64.60
Maize	67.32	10.44	15.51	59.48	12.74	21.42	10.00	3.63	36.30	2.80	1.58	56.43	3.68	1.80	48.91
Sorghum	11.82	2.77	23.43	4.67	1.67	35.76	9.81	3.76	38.33	0.17	0.17	100.00	0.96	0.69	71.88
Millet	0.42	0.19	45.24	9.21	3.17	34.42	1.02	0.79	77.45	-	-	-	-	-	-
Oats	-	-	-	7.70	3.20	41.56	3.12	1.51	48.40	0.23	0.23	100.00	-	-	-
PULSES	5.86	1.10	18.77	43.14	9.11	21.12	3.54	0.93	26.27	1.45	0.99	68.28	0.12	0.09	75.00
Horse Beans	4.65	0.97	20.86	22.06	6.21	28.15	1.95	0.57	29.23	0.22	0.13	59.09	0.07	0.07	100.00
Chick Peas	0.34	0.21	61.76	2.02	0.83	41.09	-	-	-	-	-	-	-	-	-
Haricot Bean	0.36	0.29	80.56	8.58	5.08	59.21	0.59	0.42	71.19	-	-	-	-	-	-
Field Peas	0.38	0.27	71.05	4.90	1.75	35.71	0.66	0.40	60.61	0.80	0.80	100.00	-	-	-
Lentils	-	-	-	3.21	1.24	38.63	0.31	0.17	54.84	0.43	0.43	100.00	0.05	0.05	100.00
Vetch	0.13	0.08	61.54	2.37	1.78	75.11	0.03	0.03	100.00	-	-	-	-	-	-
OILSEEDS	0.90	0.38	42.22	8.52	2.97	34.86	0.47	0.25	53.19	2.07	1.85	89.37	-	-	-
Neug	0.27	0.20	74.07	0.50	0.30	60.00	0.13	0.10	76.92	-	-	-	-	-	-
Linseed	0.56	0.34	60.71	4.74	2.41	50.84	0.29	0.22	75.86	-	-	-	-	-	-
Fenugreek	0.02	0.02	100.00	1.03	0.66	64.08	0.01	0.01	100.00	0.22	0.15	68.18	-	-	-
Rapeseed	0.05	0.03	60.00	2.25	1.23	54.67	0.04	0.04	100.00	1.85	1.85	100.00	-	-	-
Other Temporary	0.07	0.07	100.00	0.09	0.09	100.00	-	-	-	-	-	-	-	-	-
Spices	1.30	0.52	40.00	0.58	0.36	62.07	0.06	0.06	100.00	-	-	-	0.10	0.07	70.00
Potatoes	1.90	0.62	32.63	6.84	2.83	41.37	0.21	0.18	85.71	0.10	0.08	80.00	0.04	0.04	100.00
Other Vegetables	2.33	0.67	28.76	2.27	0.82	36.12	0.43	0.25	58.14	0.14	0.08	57.14	0.02	0.02	100.00
TOTAL TEMPORARY	103.44	12.07	11.67	722.87	60.27	8.34	152.75	32.46	21.25	160.26	44.44	27.73	8.29	2.79	33.66
Char	3.55	0.96	27.04	0.08	0.05	62.50	0.92	0.89	96.74	-	-	-	0.07	0.07	100.00
Coffee	1.22	0.64	52.46	0.03	0.03	100.00	0.50	0.50	100.00	-	-	-	-	-	-
Enset	10.10	3.51	34.75	0.47	0.47	100.00	-	-	-	-	-	-	-	-	-
Fruits	0.05	0.03	60.00	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	1.00	0.28	28.00	0.08	0.05	62.50	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	15.92	3.77	23.68	0.66	0.47	71.21	1.42	1.02	71.83	-	-	-	0.07	0.07	100.00
ALL CROPS	119.36	12.67	10.61	723.53	60.38	8.35	154.17	32.60	21.15	160.26	44.44	27.73	8.36	2.82	33.73

( '000' HA)

TABLE 5.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN OROMIA REGION, 1994/95(1987 E.C.)

TYPE OF CROP	('000 QT.)														
	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	S.E.	CV	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V
CEREALS	1020.84	122.75	12.02	575.04	54.66	9.51	103.99	19.91	19.15	334.26	111.84	33.46	7.53	2.65	35.19
Teff	482.30	82.22	17.05	223.88	29.18	13.03	36.20	8.32	22.98	220.46	76.23	34.58	1.76	1.18	67.05
Barley	145.66	27.02	18.55	126.52	26.48	20.93	10.77	3.57	33.15	8.08	3.89	48.14	0.29	0.29	100.00
Wheat	288.26	46.97	16.29	147.60	23.65	16.02	41.51	13.51	32.55	97.24	38.35	39.44	1.91	1.29	67.54
Maize	82.57	22.58	27.35	63.88	17.12	26.80	7.87	3.00	38.12	7.80	6.80	87.18	3.02	1.57	51.99
Sorghum	10.31	2.91	28.23	3.83	1.45	37.86	5.71	1.90	33.27	0.22	0.22	100.00	0.55	0.42	76.36
Millet	4.95	1.57	31.72	4.46	1.42	31.84	0.46	0.32	69.57	-	-	-	-	-	-
Oats	6.79	3.25	47.86	4.87	2.61	53.59	1.47	0.75	51.02	0.46	0.46	100.00	-	-	-
PULSES	39.21	8.00	20.40	35.06	7.86	22.42	2.50	0.72	28.80	1.40	1.00	71.43	0.24	0.18	75.00
Horse Beans	21.91	5.97	27.25	20.12	5.99	29.77	1.33	0.42	31.58	0.30	0.19	63.33	0.16	0.16	100.00
Chick Peas	1.58	0.77	48.73	1.58	0.77	48.73	-	-	-	-	-	-	-	-	-
Haricot Bean	7.69	4.27	55.53	7.03	4.28	60.88	0.65	0.46	70.77	-	-	-	-	-	-
Field Peas	3.98	1.25	31.41	3.46	1.20	34.68	0.17	0.11	64.71	0.34	0.34	100.00	-	-	-
Lentils	3.06	1.83	59.80	1.90	1.00	52.63	0.33	0.26	78.79	0.76	0.76	100.00	0.08	0.08	100.00
Vetch	0.99	0.61	61.62	0.97	0.61	62.89	0.02	0.02	100.00	-	-	-	-	-	-
OILSEEDS	8.04	3.04	37.81	5.42	1.94	35.79	0.29	0.16	55.17	2.32	1.85	79.74	0.00	-	-
Neug	0.99	0.57	57.58	0.80	0.55	68.75	0.18	0.15	83.33	-	-	-	-	-	-
Linseed	2.64	1.47	55.68	2.57	1.47	57.20	0.07	0.06	85.71	-	-	-	-	-	-
Fenugreek	1.17	0.64	54.70	0.66	0.48	72.73	0.01	0.01	100.00	0.50	0.33	66.00	-	-	-
Rapeseed	3.24	2.49	76.85	1.39	0.74	53.24	0.03	0.03	100.00	1.82	1.82	100.00	-	-	-
Other Temporary	0.29	0.21	72.41	0.29	0.21	72.41	-	-	-	-	-	-	-	-	-
Spices	0.85	0.37	43.53	0.76	0.34	44.74	0.02	0.02	100.00	-	-	-	0.07	0.05	71.43
Ptatoes	11.25	4.15	36.89	9.08	3.57	39.32	1.08	1.05	97.22	0.26	0.18	69.23	0.84	0.84	100.00
Other Vegetables	8.15	3.94	48.34	3.22	1.22	37.89	3.74	3.02	80.75	1.04	0.70	67.31	0.16	0.16	100.00
TOTAL TEMPORARY	1088.63	125.99	11.57	628.87	59.73	9.50	111.62	21.06	18.87	339.28	11.21	3.30	8.84	3.23	36.54
Chat	0.69	0.40	57.97	-	-	-	0.54	0.38	70.37	-	-	-	0.01	0.01	100.00
Coffee	0.35	0.25	71.43	0.13	0.13	100.00	0.22	0.22	100.00	-	-	-	-	-	-
Enset	0.91	0.91	100.00	0.91	0.91	100.00	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.95	0.72	75.79	0.95	0.72	75.79	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	2.90	1.26	43.45	1.99	1.18	59.30	0.76	0.44	57.89	-	-	-	0.01	0.01	100.00
ALL CROPS	1091.53	126.06	11.55	630.86	60.10	9.53	112.38	21.10	18.78	339.28	112.15	33.06	8.85	3.24	36.61

TABLE 6.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95(1987 E.C.)

TYPE OF CROP	(000' HA)														
	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED		
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV
CEREALS	53.15	10.52	19.79	2.43	1.30	53.50	--	--	--	3.68	2.65	72.01	2.60	1.44	55.38
Teff	11.98	2.99	24.96	1.05	0.64	60.95	--	--	--	0.10	0.10	100.00	2.16	1.33	61.57
Barley	0.16	0.16	100.00	--	--	--	--	--	--	--	--	--	--	--	--
Wheat	0.11	0.11	100.00	--	--	--	--	--	--	--	--	--	--	--	--
Maize	13.41	4.70	35.05	1.38	1.08	78.26	--	--	--	0.67	0.46	68.66	0.27	0.19	70.37
Sorghum	21.93	7.63	34.79	--	--	--	--	--	--	2.39	2.29	95.82	--	--	--
Millet	5.54	2.96	53.43	--	--	--	--	--	--	0.52	0.52	100.00	0.17	0.17	100.00
Oats	0.02	0.02	100.00	--	--	--	--	--	--	--	--	--	--	--	--
PULSES	2.66	2.16	81.20	--	--	--	--	--	--	--	--	--	--	--	--
Horse Beans	0.23	0.23	100.00	--	--	--	--	--	--	--	--	--	--	--	--
Chick Peas	0.09	0.05	55.56	--	--	--	--	--	--	--	--	--	--	--	--
Haricot Bean	2.21	2.15	97.29	--	--	--	--	--	--	--	--	--	--	--	--
Field Peas	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lentils	0.13	0.13	100.00	--	--	--	--	--	--	--	--	--	--	--	--
Vetch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OILSEEDS	4.61	2.12	45.99	--	--	--	--	--	--	0.03	0.03	100.00	--	--	--
Neug	4.60	2.11	45.87	--	--	--	--	--	--	0.03	0.03	100.00	--	--	--
Linseed	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fenugreek	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rapeseed	0.01	0.01	100.00	--	--	--	--	--	--	--	--	--	--	--	--
Other Temporary	0.06	0.04	66.67	--	--	--	--	--	--	--	--	--	--	--	--
Spices	0.07	0.04	57.14	--	--	--	--	--	--	--	--	--	--	--	--
Potatoes	0.41	0.41	100.00	--	--	--	--	--	--	--	--	--	--	--	--
Other Vegetables	0.02	0.02	100.00	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL TEMPORARY	60.98	12.43	20.38	2.43	1.30	53.50	--	--	--	3.71	2.66	71.70	2.60	1.44	55.38
Chat	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Coffee	0.58	0.56	96.55	--	--	--	0.06	0.06	100.00	--	--	--	--	--	--
Enset	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fruits	0.20	0.11	55.00	--	--	--	0.05	0.05	96.64	--	--	--	0.002	0.002	100.00
Other Permanent	0.04	0.03	75.00	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL PERMANENT	0.82	0.65	79.27	--	--	--	0.11	0.12	98.44	--	--	--	0.002	0.002	100.00
ALL CROPS	61.80	12.36	20.00	2.43	1.30	53.50	0.11	0.12	98.44	3.71	2.66	71.70	2.60	1.44	55.34

155

TABLE 6.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95(1987 E.C.)

(000' HA)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	0.14	0.10	71.43	2.46	1.42	57.72	-	-	-	-	-	-	-	-	-
Teff	-	-	-	2.16	1.33	61.57	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.14	0.10	71.43	0.13	0.13	100.00	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	0.17	0.17	100.00	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	0.14	0.10	71.43	2.46	1.42	57.72	-	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	0.002	0.002	100.00	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	0.002	0.002	100.00	-	-	-	-	-	-	-	-	-
ALL CROPS	0.14	0.10	71.43	2.46	1.42	57.68	-	-	-	-	-	-	-	-	-

TABLE 6.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95(1987 E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	S.E.	CV	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V
CEREALS	0.97	0.53	54.64	0.97	0.53	54.64	-	-	-	-	-	-	-	-	-
Teff	0.73	0.39	53.42	0.73	0.39	53.42	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.03	0.03	100.00	0.03	0.03	100.00	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	0.21	0.21	100.00	0.21	0.21	100.00	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	0.97	0.53	54.64	0.97	0.53	54.64	-	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.01	0.01	100.00	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.01	0.01	100.00	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-
ALL CROPS	0.98	0.53	54.08	0.98	0.53	54.08	-	-	-	-	-	-	-	-	-

('000 QT.)

TABLE 7.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. REGION\*, 1994/95(1987 E.C.)

TYPE OF CROP	(000 HA)																	
	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED					
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V.	AREA	SE	C.V.	AREA	SE	CV			
CEREALS	516.51	34.32	6.64	4.58	1.56	34.06	4.57	2.82	61.71	70.73	14.81	20.94	189.25	18.29	9.66			
Teff	139.04	16.88	12.14	2.02	1.17	57.92	1.32	1.12	84.85	24.32	8.36	34.38	64.60	11.24	17.40			
Barley	72.64	14.54	20.02	0.08	0.06	75.00	0.06	0.06	100.00	2.85	1.78	62.46	22.63	5.76	25.45			
Wheat	74.39	12.22	16.43	1.23	0.45	36.59	0.03	0.02	66.67	35.16	9.21	26.19	51.36	10.02	19.51			
Maize	148.40	17.84	12.02	1.21	0.55	45.45	2.10	1.63	77.62	6.30	3.57	56.67	43.32	8.61	19.88			
Sorghum	78.39	8.22	10.49	0.04	0.04	100.00	1.06	0.92	86.79	0.86	0.43	50.00	5.13	0.96	18.71			
Millet	3.41	1.33	39.00	-	-	-	-	-	-	1.24	0.87	70.16	2.21	0.99	44.80			
Oats	0.24	0.22	91.67	-	-	-	-	-	-	-	-	-	-	-	-			
PULSES	81.54	9.75	11.96	1.93	1.64	84.97	0.08	0.05	62.50	1.75	1.02	58.29	23.50	5.28	22.47			
Horse Beans	40.52	5.93	14.63	0.86	0.73	84.88	-	-	-	0.54	0.29	53.70	11.79	3.55	30.11			
Chick Peas	6.65	4.39	66.02	0.15	0.10	66.67	0.03	0.03	100.00	-	-	-	0.09	0.07	77.78			
Haricot Bean	11.45	3.19	27.86	0.12	0.12	100.00	-	-	-	-	-	-	4.33	1.81	41.80			
Field Peas	22.11	3.46	15.65	0.80	0.80	100.00	0.05	0.05	100.00	1.21	0.97	80.17	7.14	1.93	27.03			
Lentils	0.81	0.41	50.62	-	-	-	-	-	-	-	-	-	0.15	0.11	73.33			
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
OILSEEDS	1.15	1.08	93.91	-	-	-	-	-	-	-	-	-	-	-	-			
Neug	0.04	0.04	100.00	-	-	-	-	-	-	-	-	-	-	-	-			
Linseed	0.03	0.03	100.00	-	-	-	-	-	-	-	-	-	-	-	-			
Fenugreek	1.08	1.08	100.00	-	-	-	-	-	-	-	-	-	1.08	1.08	100.00			
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Other Temporary	0.52	0.20	38.46	-	-	-	-	-	-	-	-	-	-	-	-			
Spices	17.53	4.36	24.87	-	-	-	-	-	-	0.19	0.12	63.16	9.22	3.15	34.16			
Potatoes	8.04	1.76	21.89	0.15	0.09	60.00	0.13	0.08	61.54	0.29	0.21	72.41	4.51	1.33	29.49			
Other Vegetables	39.00	5.72	14.67	0.54	0.54	100.00	1.68	1.07	63.69	0.36	0.26	72.22	10.29	2.24	21.77			
TOTAL TEMPORARY	664.29	38.32	5.77	7.20	3.07	42.64	6.46	3.40	52.63	73.32	15.10	20.59	237.85	21.33	8.97			
Chat	12.75	2.74	21.49	0.18	0.18	100.00	0.30	0.28	93.33	-	-	-	3.79	1.24	32.72			
Coffee	50.40	9.12	18.10	0.10	0.10	100.00	0.26	0.14	53.85	0.02	0.02	100.00	7.12	1.91	26.83			
Enset	178.26	10.23	5.74	0.12	0.12	100.00	0.42	0.23	54.76	0.13	0.09	69.23	64.54	7.92	12.27			
Fruits	4.34	2.50	57.60	-	-	-	1.95	1.86	95.38	-	-	-	0.43	0.32	74.42			
Other Permanent	20.46	10.30	50.34	0.02	0.02	100.00	0.83	0.81	97.59	0.02	0.02	100.00	1.60	0.62	38.75			
TOTAL PERMANENT	266.21	17.62	6.62	0.42	0.33	78.57	3.76	2.78	73.94	0.17	0.10	58.82	77.48	8.40	10.84			
ALL CROPS	930.50	41.94	4.51	7.62	3.15	41.34	10.22	5.69	55.68	73.49	15.11	20.56	315.33	25.09	7.96			

\* - S.E.P.A. REGION = South Ethiopia People's Administrative Region

TABLE 7.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. REGION\*, 1994/95(1987 E.C.)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	SE	CV	AREA	SE	CV	AREA	SE	CV	AREA	SE	CV	AREA	SE	CV
CEREALS	20.62	5.32	25.80	145.34	16.72	11.50	19.95	5.42	27.17	0.91	0.67	73.63	2.42	1.42	58.68
Teff	3.47	2.03	58.50	51.08	9.89	19.36	9.84	4.46	45.33	0.15	0.15	100.00	0.05	0.04	80.00
Barley	6.70	3.24	48.36	11.07	3.81	34.42	3.38	1.53	45.27	0.54	0.39	72.22	0.94	0.78	82.98
Wheat	2.82	1.31	46.45	45.90	9.67	21.07	2.13	0.92	43.19	0.22	0.22	100.00	0.29	0.17	58.62
Maize	5.36	1.75	32.65	33.02	7.09	21.47	3.80	1.64	43.16	-	-	-	1.14	1.00	87.72
Sorghum	2.27	0.61	26.87	2.57	0.72	28.02	0.29	0.21	72.41	-	-	-	-	-	-
Millet	-	-	-	1.70	0.78	45.88	0.51	0.36	70.59	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	7.76	2.57	33.12	11.56	3.31	28.63	3.36	1.96	58.33	0.30	0.22	73.33	0.54	0.33	61.11
Horse Beans	3.85	1.52	39.48	5.54	2.56	46.21	1.98	1.69	85.35	0.19	0.19	100.00	0.24	0.15	62.50
Chick Peas	-	-	-	0.06	0.06	100.00	0.03	0.03	100.00	-	-	-	-	-	-
Haricot Bean	1.60	0.80	50.00	1.87	0.90	48.13	0.57	0.36	63.16	-	-	-	0.30	-	-
Field Peas	2.31	1.18	51.08	3.94	1.31	33.25	0.78	0.35	44.87	0.11	0.11	100.00	-	-	-
Lentils	-	-	-	0.15	0.11	73.33	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	0.84	0.84	100.00	0.24	0.24	100.00	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	0.84	0.84	100.00	0.24	0.24	100.00	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	1.27	0.96	75.59	7.42	2.80	37.74	0.53	0.31	58.49	-	-	-	-	-	-
Potatoes	1.89	0.59	31.22	1.89	0.80	42.33	0.49	0.31	63.27	0.02	0.02	100.00	0.21	0.15	71.43
Other Vegetables	9.12	2.09	22.92	0.32	0.15	46.88	0.32	0.22	68.75	0.52	0.52	100.00	0.02	0.02	100.00
TOTAL TEMPORARY	40.66	7.93	19.50	167.37	17.98	10.74	24.89	6.35	25.51	1.75	1.04	59.43	3.19	1.55	48.59
Chat	3.79	1.24	32.72	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	5.80	1.44	24.83	1.32	1.22	92.42	-	-	-	-	-	-	-	-	-
Enset	63.86	7.78	12.18	0.29	0.15	51.72	0.14	0.14	100.00	0.24	0.24	100.00	-	-	-
Fruits	0.43	0.32	74.42	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	1.56	0.62	39.74	0.04	0.04	100.00	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	75.44	8.38	11.11	1.65	1.23	74.55	0.14	0.14	100.00	0.24	0.24	100.00	-	-	-
ALL CROPS	116.10	13.73	11.83	169.02	18.72	11.08	25.03	6.53	26.09	1.99	1.06	53.27	3.19	1.55	48.59

\* - S.E.P.A. REGION = South Ethiopia People's Administrative Region

TABLE 7.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. REGION\*, 1994/95(1987 E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM		
	QUANTITY	SE.	CV	QUANTITY	SE.	C.V	QUANTITY	SE.	C.V	QUANTITY	SE.	C.V	QUANTITY	SE.	C.V
CEREALS	228.73	29.86	13.05	198.74	27.75	13.96	26.20	7.05	26.91	1.08	0.78	72.22	2.33	1.41	60.52
Teff	74.01	14.39	19.44	65.04	13.79	21.20	8.57	3.42	39.91	0.17	0.17	100.00	0.23	0.22	95.65
Barley	22.94	6.35	27.68	16.81	5.34	31.77	4.48	2.22	49.55	0.73	0.52	71.23	0.57	0.33	57.89
Wheat	68.97	14.67	21.27	66.29	14.77	22.28	2.26	1.01	44.69	0.18	0.18	100.00	0.23	0.15	65.22
Maize	56.39	16.48	29.23	45.58	12.76	27.99	9.50	4.49	47.26	-	-	-	1.30	1.07	82.31
Sorghum	3.43	0.87	25.36	2.92	0.80	27.40	0.51	0.39	76.47	-	-	-	-	-	-
Millet	2.99	1.45	48.49	2.10	1.01	48.10	0.88	0.69	78.41	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	14.77	3.71	25.12	12.09	3.37	27.87	1.82	0.75	41.21	0.37	0.27	72.97	0.49	0.32	65.31
Horse Beans	7.16	2.75	38.41	6.27	2.56	40.83	0.52	0.28	53.85	0.19	0.17	89.47	0.18	0.11	61.11
Chick Peas	0.07	0.06	85.71	0.06	0.06	100.00	0.01	0.01	100.00	-	-	-	-	-	-
Haricot Bean	2.57	1.00	38.91	1.73	0.75	43.35	0.54	0.42	77.78	-	-	-	0.31	0.31	100.00
Field Peas	4.85	1.60	32.99	3.91	1.41	36.06	0.75	0.42	56.00	0.18	0.18	100.00	-	-	-
Lentils	0.12	0.09	75.00	0.12	0.09	75.00	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	3.62	3.62	100.00	2.36	2.36	100.00	1.25	1.25	100.00	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	3.62	3.62	100.00	2.36	2.36	100.00	1.25	1.25	100.00	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	22.43	+9.59	42.76	20.27	8.45	41.69	2.16	1.73	80.09	-	-	-	-	-	-
Potatoes	3.65	1.55	42.47	2.90	1.42	48.97	0.59	0.31	52.54	0.04	0.04	100.00	0.12	0.09	75.00
Other Vegetables	3.00	2.07	69.00	0.43	0.20	46.51	0.94	0.67	71.28	1.58	1.58	100.00	0.05	0.05	100.00
TOTAL TEMPORARY	276.20	32.66	11.82	236.79	29.53	12.47	32.96	8.20	24.88	3.07	1.91	62.21	2.99	1.49	49.83
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	0.59	0.52	88.14	0.59	0.51	86.44	-	-	-	-	-	-	-	-	-
Enset	1.05	0.56	53.33	0.51	0.40	78.43	0.19	0.19	100.00	0.35	0.35	100.00	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.02	0.02	100.00	0.02	0.02	100.00	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.66	0.74	44.58	1.12	0.65	58.04	0.19	0.19	100.00	0.35	0.35	100.00	-	-	-
ALL CROPS	277.86	38.21	13.75	237.91	33.16	13.94	33.15	9.54	28.78	3.42	1.92	56.14	2.99	1.49	49.83

\* - S.E.P.A. REGION = South Ethiopia People's Administrative Region

TABLE 4.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN AMARA REGION, 1994/95(1987E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	S.E.	CV	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V	QUANTITY	S.E.	CV	QUANTITY	S.E.	C.V
	('000 QT.)														
CEREALS	412.27	63.00	15.28	285.85	49.60	17.35	61.67	19.91	32.28	58.33	22.36	38.33	6.42	3.43	53.43
Teff	246.36	38.37	15.57	155.67	28.38	18.23	43.07	14.06	32.64	46.65	18.02	38.63	0.97	0.57	58.76
Barley	38.76	11.54	29.77	31.75	9.32	29.35	4.40	2.75	62.50	0.37	0.24	64.86	2.23	1.89	84.75
Wheat	54.97	17.21	31.31	34.48	12.95	37.56	9.12	5.43	59.54	10.77	5.50	51.07	0.60	0.43	71.67
Maize	32.37	9.28	28.67	27.49	8.36	30.41	2.33	1.00	42.92	-	-	-	2.56	1.12	43.75
Sorghum	0.01	0.01	100.00	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-
Millet	39.80	9.50	23.87	36.45	8.93	24.50	2.75	1.13	41.09	0.54	0.47	87.04	0.06	0.06	100.00
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	7.15	2.46	34.41	4.95	1.93	38.99	2.05	1.20	58.54	0.16	0.11	68.75	-	-	-
Horse Beans	3.78	1.52	40.21	2.10	0.90	42.86	1.61	1.07	66.46	0.08	0.08	100.00	-	-	-
Chick Peas	0.27	0.20	74.07	0.19	0.19	100.00	-	-	-	0.08	0.08	100.00	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	2.46	1.33	54.07	2.27	1.31	57.71	0.19	0.19	100.00	-	-	-	-	-	-
Lentils	0.09	0.09	100.00	0.09	0.09	100.00	-	-	-	-	-	-	-	-	-
Vetch	0.55	0.39	70.91	0.30	0.30	100.00	0.25	0.25	100.00	-	-	-	-	-	-
OILSEEDS	1.81	0.69	38.12	1.63	0.68	41.72	0.18	0.14	77.78	-	-	-	-	-	-
Neug	1.59	0.68	42.77	1.47	0.67	45.58	0.13	0.13	100.00	-	-	-	-	-	-
Linseed	0.22	0.16	72.73	0.16	0.16	87.50	0.05	0.05	100.00	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.19	0.19	100.00	0.19	0.19	100.00	-	-	-	-	-	-	-	-	-
Spices	0.32	0.18	56.25	0.15	0.10	66.67	-	-	-	0.16	0.14	87.50	0.01	0.01	100.00
Potatoes	1.45	0.79	54.48	1.24	0.76	61.29	0.14	0.13	92.86	-	-	-	0.07	0.07	100.00
Other Vegetables	4.63	4.17	90.06	3.63	3.59	98.90	0.75	0.59	78.67	0.25	0.25	100.00	-	-	-
TOTAL TEMPORARY	427.82	67.30	15.73	297.64	52.45	17.62	64.79	21.24	32.78	58.90	22.42	38.06	6.50	3.49	53.69
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.23	0.23	100.00	-	-	-	0.23	0.23	100.00	-	-	-	-	-	-
TOTAL PERMANENT	0.23	0.23	100.00	-	-	-	0.23	0.23	100.00	-	-	-	-	-	-
ALL CROPS	428.05	67.32	15.73	297.64	52.46	17.63	65.02	21.25	32.68	58.90	22.44	38.10	6.50	3.49	53.69

TABLE 5.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN OROMIA REGION, 1994/95(1987 E.C.)

( '000 HA)

TYPE OF CROP	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED		
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV
CEREALS	2614.31	73.70	2.82	33.24	9.70	29.18	7.80	2.99	38.33	322.09	35.00	10.87	1065.07	72.53	6.81
Teff	754.69	51.10	6.77	1.93	0.81	41.97	2.88	1.38	47.92	156.53	23.77	15.19	430.64	47.66	11.07
Barley	370.41	40.69	10.99	1.51	1.10	72.85	0.39	0.28	71.79	29.27	6.20	21.18	178.51	30.90	17.31
Wheat	406.23	39.12	9.63	14.82	8.20	55.33	1.85	1.27	68.65	82.60	13.93	16.86	263.52	35.46	13.46
Maize	663.11	43.56	6.57	10.61	3.80	35.82	1.62	0.68	41.98	28.97	8.16	28.17	143.28	18.22	12.72
Sorghum	355.65	23.18	6.52	4.37	2.90	66.36	1.06	0.61	57.55	23.18	5.93	25.58	27.42	5.87	21.41
Millet	38.42	6.45	16.79	-	-	-	-	-	-	0.68	0.32	47.06	10.65	3.56	33.43
Oats	25.80	6.06	23.49	-	-	-	-	-	-	0.86	0.49	56.98	11.05	4.12	37.29
PULSES	341.72	25.67	7.51	0.67	0.39	58.21	1.61	1.07	66.46	2.31	0.77	33.33	54.08	9.17	16.96
Horse Beans	146.17	13.01	8.90	0.21	0.16	76.19	0.24	0.17	70.83	0.79	0.45	56.96	28.95	6.23	21.52
Chick Peas	49.25	12.95	26.29	-	-	-	0.08	0.08	100.00	0.08	0.08	100.00	2.36	0.85	36.02
Haricot Bean	40.36	7.81	19.35	0.27	0.27	100.00	1.03	1.03	100.00	0.82	0.44	53.66	9.52	5.05	53.05
Field Peas	56.54	7.52	13.30	0.19	0.19	100.00	-	-	-	0.62	0.32	51.61	6.73	1.96	29.12
Lentils	22.87	5.39	23.57	-	-	-	0.26	0.26	100.00	-	-	-	4.00	1.75	43.75
Vetch	26.53	6.45	24.31	-	-	-	-	-	-	-	-	-	2.52	1.78	70.63
OILSEEDS	182.22	20.57	11.29	0.85	0.52	61.18	0.05	0.04	80.00	2.53	1.36	53.75	11.95	3.99	33.39
Neug	82.07	13.58	16.55	0.30	0.24	80.00	0.01	0.01	100.00	0.68	0.61	89.71	0.89	0.37	41.57
Linseed	84.15	14.90	17.71	0.55	0.40	72.73	0.04	0.04	100.00	1.83	1.22	66.67	5.59	2.46	44.01
Fenugreek	6.11	1.59	26.02	-	-	-	-	-	-	-	-	-	1.28	0.70	54.69
Rapeseed	9.89	4.88	49.34	-	-	-	-	-	-	0.02	0.02	100.00	4.19	2.98	71.12
Other Temporary	7.10	3.66	51.55	0.03	0.03	100.00	0.002	0.002	100.00	0.20	0.20	100.00	0.16	0.12	75.00
Spices	8.55	2.00	23.39	-	-	-	0.36	0.30	83.33	0.18	0.18	100.00	2.04	0.73	35.78
Potatoes	18.90	4.92	26.03	0.08	0.05	62.50	0.52	0.20	38.46	0.47	0.39	82.98	9.10	2.94	32.31
Other Vegetables	25.84	4.41	17.07	0.34	0.34	100.00	5.19	3.33	64.16	3.24	2.99	92.28	5.19	1.14	21.97
TOTAL TEMPORARY	3198.64	94.82	2.96	35.21	9.90	28.12	15.53	5.51	35.48	331.02	35.59	10.75	1147.59	76.86	6.70
Chat	37.57	3.96	10.54	0.27	0.20	74.07	4.65	1.01	21.72	1.07	0.71	66.36	4.62	1.28	27.71
Coffee	125.96	19.54	15.51	0.07	0.05	71.43	1.03	0.38	36.89	1.59	1.10	69.18	1.75	0.87	49.71
Enset	73.51	15.55	21.15	-	-	-	0.14	0.10	71.43	0.04	0.03	75.00	10.56	3.78	35.80
Fruits	2.41	0.50	20.75	-	-	-	0.26	0.17	65.38	-	-	-	0.05	0.03	60.00
Other Permanent	9.14	1.33	14.55	-	-	-	0.89	0.45	50.56	0.05	0.05	100.00	1.08	0.30	27.78
TOTAL PERMANENT	248.59	25.72	10.35	0.34	0.23	67.65	6.97	1.25	17.93	2.75	1.29	46.91	18.06	4.14	22.92
ALL CROPS	3447.23	95.83	2.78	35.55	9.90	27.85	22.50	5.81	25.82	333.77	35.80	10.73	1165.65	76.86	6.59

TABLE 5.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN OROMIA REGION, 1994/95(1987 E.C.)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	91.08	11.63	12.77	661.43	55.06	8.32	148.04	31.82	21.49	156.50	43.98	28.10	8.01	2.74	34.21
Teff	4.14	0.96	23.19	273.51	33.85	12.38	45.35	10.39	22.91	106.14	30.42	28.66	1.50	0.81	54.00
Barley	4.25	0.96	22.59	150.28	29.84	19.86	19.07	6.97	36.55	4.64	2.28	49.14	0.26	0.26	100.00
Wheat	3.13	0.97	30.99	156.58	21.90	13.99	59.67	21.34	35.76	42.52	16.59	39.02	1.61	1.04	64.60
Maize	67.32	10.44	15.51	59.48	12.74	21.42	10.00	3.63	36.30	2.80	1.58	56.43	3.68	1.80	48.91
Sorghum	11.82	2.77	23.43	4.67	1.67	35.76	9.81	3.76	38.33	0.17	0.17	100.00	0.96	0.69	71.88
Millet	0.42	0.19	45.24	9.21	3.17	34.42	1.02	0.79	77.45	-	-	-	-	-	-
Oats	-	-	-	7.70	3.20	41.56	3.12	1.51	48.40	0.23	0.23	100.00	-	-	-
PULSES	5.86	1.10	18.77	43.14	9.11	21.12	3.54	0.93	26.27	1.45	0.99	68.28	0.12	0.09	75.00
Horse Beans	4.65	0.97	20.86	22.06	6.21	28.15	1.95	0.57	29.23	0.22	0.13	59.09	0.07	0.07	100.00
Chick Peas	0.34	0.21	61.76	2.02	0.83	41.09	-	-	-	-	-	-	-	-	-
Haricot Bean	0.36	0.29	80.56	8.58	5.08	59.21	0.59	0.42	71.19	-	-	-	-	-	-
Field Peas	0.38	0.27	71.05	4.90	1.75	35.71	0.66	0.40	60.61	0.80	0.80	100.00	-	-	-
Lentils	-	-	-	3.21	1.24	38.63	0.31	0.17	54.84	0.43	0.43	100.00	0.05	0.05	100.00
Vetch	0.13	0.08	61.54	2.37	1.78	75.11	0.03	0.03	100.00	-	-	-	-	-	-
OILSEEDS	0.90	0.38	42.22	8.52	2.97	34.86	0.47	0.25	53.19	2.07	1.85	89.37	-	-	-
Neug	0.27	0.20	74.07	0.50	0.30	60.00	0.13	0.10	76.92	-	-	-	-	-	-
Linseed	0.56	0.34	60.71	4.74	2.41	50.84	0.29	0.22	75.86	-	-	-	-	-	-
Fenugreek	0.02	0.02	100.00	1.03	0.66	64.08	0.01	0.01	100.00	0.22	0.15	68.18	-	-	-
Rapeseed	0.05	0.03	60.00	2.25	1.23	54.67	0.04	0.04	100.00	1.85	1.85	100.00	-	-	-
Other Temporary	0.07	0.07	100.00	0.09	0.09	100.00	-	-	-	-	-	-	-	-	-
Spices	1.30	0.52	40.00	0.58	0.36	62.07	0.06	0.06	100.00	-	-	-	0.10	0.07	70.00
Potatoes	1.90	0.62	32.63	6.84	2.83	41.37	0.21	0.18	85.71	0.10	0.08	80.00	0.04	0.04	100.00
Other Vegetables	2.33	0.67	28.76	2.27	0.82	36.12	0.43	0.25	58.14	0.14	0.08	57.14	0.02	0.02	100.00
TOTAL TEMPORARY	103.44	12.07	11.67	722.87	60.27	8.34	152.75	32.46	21.25	160.26	44.44	27.73	8.29	2.79	33.66
Chat	3.55	0.96	27.04	0.08	0.05	62.50	0.92	0.89	96.74	-	-	-	0.07	0.07	100.00
Coffee	1.22	0.64	52.46	0.03	0.03	100.00	0.50	0.50	100.00	-	-	-	-	-	-
Enset	10.10	3.51	34.75	0.47	0.47	100.00	-	-	-	-	-	-	-	-	-
Fruits	0.05	0.03	60.00	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	1.00	0.28	28.00	0.08	0.05	62.50	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	15.92	3.77	23.68	0.66	0.47	71.21	1.42	1.02	71.83	-	-	-	0.07	0.07	100.00
ALL CROPS	119.36	12.67	10.61	723.53	60.38	8.35	154.17	32.60	21.15	160.26	44.44	27.73	8.36	2.82	33.73

TABLE 5.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN OROMIA REGION, 1994/95(1987 E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV
CEREALS	1020.84	122.75	12.02	575.04	54.66	9.51	103.99	19.91	19.15	334.26	111.84	33.46	7.53	2.65	35.19
Teff	482.30	82.22	17.05	223.88	29.18	13.03	36.20	8.32	22.98	220.46	76.23	34.58	1.76	1.18	67.05
Barley	145.66	27.02	18.55	126.52	26.48	20.93	10.77	3.57	33.15	8.08	3.89	48.14	0.29	0.29	100.00
Wheat	288.26	46.97	16.29	147.60	23.65	16.02	41.51	13.51	32.55	97.24	38.35	39.44	1.91	1.29	67.54
Maize	82.57	22.58	27.35	63.88	17.12	26.80	7.87	3.00	38.12	7.80	6.80	87.18	3.02	1.57	51.99
Sorghum	10.31	2.91	28.23	3.83	1.45	37.86	5.71	1.90	33.27	0.22	0.22	100.00	0.55	0.42	76.36
Millet	4.95	1.57	31.72	4.46	1.42	31.84	0.46	0.32	69.57	-	-	-	-	-	-
Oats	6.79	3.25	47.86	4.87	2.61	53.59	1.47	0.75	51.02	0.46	0.46	100.00	-	-	-
PULSES	39.21	8.00	20.40	35.06	7.86	22.42	2.50	0.72	28.80	1.40	1.00	71.43	0.24	0.18	75.00
Horse Beans	21.91	5.97	27.25	20.12	5.99	29.77	1.33	0.42	31.58	0.30	0.19	63.33	0.16	0.16	100.00
Chick Peas	1.58	0.77	48.73	1.58	0.77	48.73	-	-	-	-	-	-	-	-	-
Haricot Bean	7.69	4.27	55.53	7.03	4.28	60.88	0.65	0.46	70.77	-	-	-	-	-	-
Field Peas	3.98	1.25	31.41	3.46	1.20	34.68	0.17	0.11	64.71	0.34	0.34	100.00	-	-	-
Lentils	3.06	1.83	59.80	1.90	1.00	52.63	0.33	0.26	78.79	0.76	0.76	100.00	0.08	0.08	100.00
Vetch	0.99	0.61	61.62	0.97	0.61	62.89	0.02	0.02	100.00	-	-	-	-	-	-
OILSEEDS	8.04	3.04	37.81	5.42	1.94	35.79	0.29	0.16	55.17	2.32	1.85	79.74	0.00	-	-
Neug	0.99	0.57	57.58	0.80	0.55	68.75	0.18	0.15	83.33	-	-	-	-	-	-
Linseed	2.64	1.47	55.68	2.57	1.47	57.20	0.07	0.06	85.71	-	-	-	-	-	-
Fenugreek	1.17	0.64	54.70	0.66	0.48	72.73	0.01	0.01	100.00	0.50	0.33	66.00	-	-	-
Rapeseed	3.24	2.49	76.85	1.39	0.74	53.24	0.03	0.03	100.00	1.82	1.82	100.00	-	-	-
Other Temporary	0.29	0.21	72.41	0.29	0.21	72.41	-	-	-	-	-	-	-	-	-
Spices	0.85	0.37	43.53	0.76	0.34	44.74	0.02	0.02	100.00	-	-	-	0.07	0.05	71.43
Potatoes	11.25	4.15	36.89	9.08	3.57	39.32	1.08	1.05	97.22	0.26	0.18	69.23	0.84	0.84	100.00
Other Vegetables	8.15	3.94	48.34	3.22	1.22	37.89	3.74	3.02	80.75	1.04	0.70	67.31	0.16	0.16	100.00
TOTAL TEMPORARY	1088.63	125.99	11.57	628.87	59.73	9.50	111.62	21.06	18.87	339.28	112.21	33.0	8.84	3.23	36.54
Chat	0.69	0.40	57.97	-	-	-	0.54	0.38	70.37	-	-	-	0.01	0.01	100.00
Coffee	0.35	0.25	71.43	0.13	0.13	100.00	0.22	0.22	100.00	-	-	-	-	-	-
Enset	0.91	0.91	100.00	0.91	0.91	100.00	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.95	0.72	75.79	0.95	0.72	75.79	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	2.90	1.26	43.45	1.99	1.18	59.30	0.76	0.44	57.89	-	-	-	0.01	0.01	100.00
ALL CROPS	1091.53	126.06	11.55	630.86	60.10	9.53	112.38	21.10	18.78	339.28	112.15	33.06	8.85	3.24	36.61

('000 QT.)

TABLE 6.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95(1987 E.C.)

( '000 HA)

TYPE OF CROP	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED		
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV
CEREALS	53.15	10.52	19.79	2.43	1.30	53.50	-	-	-	3.68	2.65	72.01	2.60	1.44	55.38
Teff	11.98	2.99	24.96	1.05	0.64	60.95	-	-	-	0.10	0.10	100.00	2.16	1.33	61.57
Barley	0.16	0.16	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	0.11	0.11	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Maize	13.41	4.70	35.05	1.38	1.08	78.26	-	-	-	0.67	0.46	68.66	0.27	0.19	70.37
Sorghum	21.93	7.63	34.79	-	-	-	-	-	-	2.39	2.29	95.82	-	-	-
Millet	5.54	2.96	53.43	-	-	-	-	-	-	0.52	0.52	100.00	0.17	0.17	100.00
Oats	0.02	0.02	100.00	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	2.66	2.16	81.20	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	0.23	0.23	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	0.09	0.05	55.56	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	2.21	2.15	97.29	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	0.13	0.13	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	4.61	2.12	45.99	-	-	-	-	-	-	0.03	0.03	100.00	-	-	-
Neug	4.60	2.11	45.87	-	-	-	-	-	-	0.03	0.03	100.00	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.06	0.04	66.67	-	-	-	-	-	-	-	-	-	-	-	-
Spices	0.07	0.04	57.14	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	0.41	0.41	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.02	0.02	100.00	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	60.98	12.43	20.38	2.43	1.30	53.50	-	-	-	3.71	2.66	71.70	2.60	1.44	55.38
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	0.58	0.56	96.55	-	-	-	0.06	0.06	100.00	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.20	0.11	55.00	-	-	-	0.05	0.05	96.64	-	-	-	0.002	0.002	100.00
Other Permanent	0.04	0.03	75.00	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.82	0.65	79.27	-	-	-	0.11	0.12	98.44	-	-	-	0.002	0.002	100.00
ALL CROPS	61.80	12.36	20.00	2.43	1.30	53.50	0.11	0.12	98.44	3.71	2.66	71.70	2.60	1.44	55.34

TABLE 6.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95(1987 E.C.)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	0.14	0.10	71.43	2.46	1.42	57.72	--	--	--	--	--	--	--	--	--
Teff	--	--	--	2.16	1.33	61.57	--	--	--	--	--	--	--	--	--
Barley	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wheat	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Maize	0.14	0.10	71.43	0.13	0.13	100.00	--	--	--	--	--	--	--	--	--
Sorghum	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Millet	--	--	--	0.17	0.17	100.00	--	--	--	--	--	--	--	--	--
Oats	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PULSES	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Beans	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chick Peas	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Haricot Bean	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Peas	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lentils	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vetch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OILSEEDS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Neug	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Linseed	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fenugreek	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rapeseed	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Temporary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Spices	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potatoes	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Vegetables	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL TEMPORARY	0.14	0.10	71.43	2.46	1.42	57.72	--	--	--	--	--	--	--	--	--
Chat	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Coffee	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Enset	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fruits	--	--	--	0.002	0.002	100.00	--	--	--	--	--	--	--	--	--
Other Permanent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL PERMANENT	--	--	--	0.002	0.002	100.00	--	--	--	--	--	--	--	--	--
ALL CROPS	0.14	0.10	71.43	2.46	1.42	57.68	--	--	--	--	--	--	--	--	--

TABLE 6.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN BENSANGULE REGION, 1994/95(1987 E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV
CEREALS	0.97	0.53	54.64	0.97	0.53	54.64	-	-	-	-	-	-	-	-	-
Teff	0.73	0.39	53.42	0.73	0.39	53.42	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.03	0.03	100.00	0.03	0.03	100.00	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	0.21	0.21	100.00	0.21	0.21	100.00	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	0.97	0.53	54.64	0.97	0.53	54.64	-	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.01	0.01	100.00	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.01	0.01	100.00	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-
ALL CROPS	0.98	0.53	54.08	0.98	0.53	54.08	-	-	-	-	-	-	-	-	-

TABLE 7.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. REGION\*, 1994/95(1987 E.C.)

TYPE OF CROP	(000' HA)															
	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED			
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V.	AREA	SE	C.V.	AREA	SE	CV	
CEREALS	516.51	34.32	6.64	4.58	1.56	34.06	4.57	2.82	61.71	70.73	14.81	20.94	189.25	18.29	9.66	
Teff	139.04	16.88	12.14	2.02	1.17	57.92	1.32	1.12	84.85	24.32	8.36	34.38	64.60	11.24	17.40	
Barley	72.64	14.54	20.02	0.08	0.06	75.00	0.06	0.06	100.00	2.85	1.78	62.46	22.63	5.76	25.45	
Wheat	74.39	12.22	16.43	1.23	0.45	36.59	0.03	0.02	66.67	35.16	9.21	26.19	51.36	10.02	19.51	
Maize	148.40	17.84	12.02	1.21	0.55	45.45	2.10	1.63	77.62	6.30	3.57	56.67	43.32	8.61	19.88	
Sorghum	78.39	8.22	10.49	0.04	0.04	100.00	1.06	0.92	86.79	0.86	0.43	50.00	5.13	0.96	18.71	
Millet	3.41	1.33	39.00	-	-	-	-	-	-	1.24	0.87	70.16	2.21	0.99	44.80	
Oats	0.24	0.22	91.67	-	-	-	-	-	-	-	-	-	-	-	-	
PULSES	81.54	9.75	11.96	1.93	1.64	84.97	0.08	0.05	62.50	1.75	1.02	58.29	23.50	5.28	22.47	
Horse Beans	40.52	5.93	14.63	0.86	0.73	84.88	-	-	-	0.54	0.29	53.70	11.79	3.55	30.11	
Chick Peas	6.65	4.39	66.02	0.15	0.10	66.67	0.03	0.03	100.00	-	-	-	0.09	0.07	77.78	
Haricot Bean	11.45	3.19	27.86	0.12	0.12	100.00	-	-	-	-	-	-	4.33	1.81	41.80	
Field Peas	22.11	3.46	15.65	0.80	0.80	100.00	0.05	0.05	100.00	1.21	0.97	80.17	7.14	1.93	27.03	
Lentils	0.81	0.41	50.62	-	-	-	-	-	-	-	-	-	0.15	0.11	73.33	
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OILSEEDS	1.15	1.08	93.91	-	-	-	-	-	-	-	-	-	1.08	1.08	100.00	
Neug	0.04	0.04	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Linseed	0.03	0.03	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Fenugreek	1.08	1.08	100.00	-	-	-	-	-	-	-	-	-	1.08	1.08	100.00	
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Temporary	0.52	0.20	38.46	-	-	-	-	-	-	-	-	-	-	-	-	
Spices	17.53	4.36	24.87	-	-	-	-	-	-	0.19	0.12	63.16	9.22	3.15	34.16	
Potatoes	8.04	1.76	21.89	0.15	0.09	60.00	0.13	0.08	61.54	0.29	0.21	72.41	4.51	1.33	29.49	
Other Vegetables	39.00	5.72	14.67	0.54	0.54	100.00	1.68	1.07	63.69	0.36	0.26	72.22	10.29	2.24	21.77	
TOTAL TEMPORARY	664.29	38.32	5.77	7.20	3.07	42.64	6.46	3.40	52.63	73.32	15.10	20.59	237.85	21.33	8.97	
Chat	12.75	2.74	21.49	0.18	0.18	100.00	0.30	0.28	93.33	-	-	-	3.79	1.24	32.72	
Coffee	50.40	9.12	18.10	0.10	0.10	100.00	0.26	0.14	53.85	0.02	0.02	100.00	7.12	1.91	26.83	
Enset	178.26	10.23	5.74	0.12	0.12	100.00	0.42	0.23	54.76	0.13	0.09	69.23	64.54	7.92	12.27	
Fruits	4.34	2.50	57.60	-	-	-	1.95	1.86	95.38	-	-	-	0.43	0.32	74.42	
Other Permanent	20.46	10.30	50.34	0.02	0.02	100.00	0.83	0.81	97.59	0.02	0.02	100.00	1.60	0.62	38.75	
TOTAL PERMANENT	266.21	17.62	6.62	0.42	0.33	78.57	3.76	2.78	73.94	0.17	0.10	58.82	77.48	8.40	10.84	
ALL CROPS	930.50	41.94	4.51	7.62	3.15	41.34	10.22	5.69	55.68	73.49	15.11	20.56	315.33	25.09	7.96	

\* - S.E.P.A. REGION = South Ethiopia People's Administrative Region

TABLE 7.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. REGION\*, 1994/95(1987 E.C.)

TYPE OF CROP	( '000' HA)															
	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED			
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV	
CEREALS	516.51	34.32	6.64	4.58	1.56	34.06	4.57	2.82	61.71	70.73	14.81	20.94	189.25	18.29	9.66	
Teff	139.04	16.88	12.14	2.02	1.17	57.92	1.32	1.12	84.85	24.32	8.36	34.38	64.60	11.24	17.40	
Barley	72.64	14.54	20.02	0.08	0.06	75.00	0.06	0.06	100.00	2.85	1.78	62.46	22.63	5.76	25.45	
Wheat	74.39	12.22	16.43	1.23	0.45	36.59	0.03	0.02	66.67	35.16	9.21	26.19	51.36	10.02	19.51	
Maize	148.40	17.84	12.02	1.21	0.55	45.45	2.10	1.63	77.62	6.30	3.57	56.67	43.32	8.61	19.88	
Sorghum	78.39	8.22	10.49	0.04	0.04	100.00	1.06	0.92	86.79	0.86	0.43	50.00	5.13	0.96	18.71	
Millet	3.41	1.33	39.00	-	-	-	-	-	-	1.24	0.87	70.16	2.21	0.99	44.80	
Oats	0.24	0.22	91.67	-	-	-	-	-	-	-	-	-	-	-	-	
PULSES	81.54	9.75	11.96	1.93	1.64	84.97	0.08	0.05	62.50	1.75	1.02	58.29	23.50	5.28	22.47	
Horse Beans	40.52	5.93	14.63	0.86	0.73	84.88	-	-	-	0.54	0.29	53.70	11.79	3.55	30.11	
Chick Peas	6.65	4.39	66.02	0.15	0.10	66.67	0.03	0.03	100.00	-	-	-	0.09	0.07	77.78	
Haricot Bean	11.45	3.19	27.86	0.12	0.12	100.00	-	-	-	-	-	-	4.33	1.81	41.80	
Field Peas	22.11	3.46	15.65	0.80	0.80	100.00	0.05	0.05	100.00	1.21	0.97	80.17	7.14	1.93	27.03	
Lentils	0.81	0.41	50.62	-	-	-	-	-	-	-	-	-	0.15	0.11	73.33	
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OILSEEDS	1.15	1.08	93.91	-	-	-	-	-	-	-	-	-	1.08	1.08	100.00	
Neug	0.04	0.04	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Linseed	0.03	0.03	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Fenugreek	1.08	1.08	100.00	-	-	-	-	-	-	-	-	-	1.08	1.08	100.00	
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Temporary	0.52	0.20	38.46	-	-	-	-	-	-	-	-	-	-	-	-	
Spices	17.53	4.36	24.87	-	-	-	-	-	-	0.19	0.12	63.16	9.22	3.15	34.16	
Potatoes	8.04	1.76	21.89	0.15	0.09	60.00	0.13	0.08	61.54	0.29	0.21	72.41	4.51	1.33	29.49	
Other Vegetables	39.00	5.72	14.67	0.54	0.54	100.00	1.68	1.07	63.69	0.36	0.26	72.22	10.29	2.24	21.77	
TOTAL TEMPORARY	664.29	38.32	5.77	7.20	3.07	42.64	6.46	3.40	52.63	73.32	15.10	20.59	237.85	21.33	8.97	
Chat	12.75	2.74	21.49	0.18	0.18	100.00	0.30	0.28	93.33	-	-	-	3.79	1.24	32.72	
Coffee	50.40	9.12	18.10	0.10	0.10	100.00	0.26	0.14	53.85	0.02	0.02	100.00	7.12	1.91	26.83	
Enset	178.26	10.23	5.74	0.12	0.12	100.00	0.42	0.23	54.76	0.13	0.09	69.23	64.54	7.92	12.27	
Fruits	4.34	2.50	57.60	-	-	-	1.95	1.86	95.38	-	-	-	0.43	0.32	74.42	
Other Permanent	20.46	10.30	50.34	0.02	0.02	100.00	0.83	0.81	97.59	0.02	0.02	100.00	1.60	0.62	38.75	
TOTAL PERMANENT	266.21	17.62	6.62	0.42	0.33	78.57	3.76	2.78	73.94	0.17	0.10	58.82	77.48	8.40	10.84	
ALL CROPS	930.50	41.94	4.51	7.62	3.15	41.34	10.22	5.69	55.68	73.49	15.11	20.56	315.33	25.09	7.96	

\* - S.E.P.A. REGION = South Ethiopia People's Administrative Region

TABLE 7.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. REGION\*, 1994/95(1987 E.C.)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	SE	CV	AREA	SE	CV	AREA	SE	CV	AREA	SE	CV	AREA	SE	CV
CEREALS	20.62	5.32	25.80	145.34	16.72	11.50	19.95	5.42	27.17	0.91	0.67	73.63	2.42	1.42	58.68
Teff	3.47	2.03	58.50	51.08	9.89	19.36	9.84	4.46	45.33	0.15	0.15	100.00	0.05	0.04	80.00
Barley	6.70	3.24	48.36	11.07	3.81	34.42	3.38	1.53	45.27	0.54	0.39	72.22	0.94	0.78	82.98
Wheat	2.82	1.31	46.45	45.90	9.67	21.07	2.13	0.92	43.19	0.22	0.22	100.00	0.29	0.17	58.62
Maize	5.36	1.75	32.65	33.02	7.09	21.47	3.80	1.64	43.16	-	-	-	1.14	1.00	87.72
Sorghum	2.27	0.61	26.87	2.57	0.72	28.02	0.29	0.21	72.41	-	-	-	-	-	-
Millet	-	-	-	1.70	0.78	45.88	0.51	0.36	70.59	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	7.76	2.57	33.12	11.56	3.31	28.63	3.36	1.96	58.33	0.30	0.22	73.33	0.54	0.33	61.11
Horse Beans	3.85	1.52	39.48	5.54	2.56	46.21	1.98	1.69	85.35	0.19	0.19	100.00	0.24	0.15	62.50
Chick Peas	-	-	-	0.06	0.06	100.00	0.03	0.03	100.00	-	-	-	-	-	-
Haricot Bean	1.60	0.80	50.00	1.87	0.90	48.13	0.57	0.36	63.16	-	-	-	0.30	-	-
Field Peas	2.31	1.18	51.08	3.94	1.31	33.25	0.78	0.35	44.87	0.11	0.11	100.00	-	-	-
Lentils	-	-	-	0.15	0.11	73.33	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	0.84	0.84	100.00	0.24	0.24	100.00	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	0.84	0.84	100.00	0.24	0.24	100.00	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	1.27	0.96	75.59	7.42	2.80	37.74	0.53	0.31	58.49	-	-	-	-	-	-
Potatoes	1.89	0.59	31.22	1.89	0.80	42.33	0.49	0.31	63.27	0.02	0.02	100.00	0.21	0.15	71.43
Other Vegetables	9.12	2.09	22.92	0.32	0.15	46.88	0.32	0.22	68.75	0.52	0.52	100.00	0.02	0.02	100.00
TOTAL TEMPORARY	40.66	7.93	19.50	167.37	17.98	10.74	24.89	6.35	25.51	1.75	1.04	59.43	3.19	1.55	48.59
Chat	3.79	1.24	32.72	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	5.80	1.44	24.83	1.32	1.22	92.42	-	-	-	-	-	-	-	-	-
Erset	63.86	7.78	12.18	0.29	0.15	51.72	0.14	0.14	100.00	0.24	0.24	100.00	-	-	-
Fruits	0.43	0.32	74.42	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	1.56	0.62	39.74	0.04	0.04	100.00	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	75.44	8.38	11.11	1.65	1.23	74.55	0.14	0.14	100.00	0.24	0.24	100.00	-	-	-
ALL CROPS	116.10	13.73	11.83	169.02	18.72	11.08	25.03	6.53	26.09	1.99	1.06	53.27	3.19	1.55	48.59

\* - S.E.P.A. REGION = South Ethiopia People's Administrative Region

TABLE 7.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN S.E.P.A. REGION\*, 1994/95(1987 E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	SE.	CV	QUANTITY	SE.	C.V	QUANTITY	SE.	C.V	QUANTITY	SE.	C.V	QUANTITY	SE.	C.V
CEREALS	228.73	29.86	13.05	198.74	27.75	13.96	26.20	7.05	26.91	1.08	0.78	72.22	2.33	1.41	60.52
Teff	74.01	14.39	19.44	65.04	13.79	21.20	8.57	3.42	39.91	0.17	0.17	100.00	0.23	0.22	95.65
Barley	22.94	6.35	27.68	16.81	5.34	31.77	4.48	2.22	49.55	0.73	0.52	71.23	0.57	0.33	57.89
Wheat	68.97	14.67	21.27	66.29	14.77	22.28	2.26	1.01	44.69	0.18	0.18	100.00	0.23	0.15	65.22
Maize	56.39	16.48	29.23	45.58	12.76	27.99	9.50	4.49	47.26	-	-	-	1.30	1.07	82.31
Sorghum	3.43	0.87	25.36	2.92	0.80	27.40	0.51	0.39	76.47	-	-	-	-	-	-
Millet	2.99	1.45	48.49	2.10	1.01	48.10	0.88	0.69	78.41	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	14.77	3.71	25.12	12.09	3.37	27.87	1.82	0.75	41.21	0.37	0.27	72.97	0.49	0.32	65.31
Horse Beans	7.16	2.75	38.41	6.27	2.56	40.83	0.52	0.28	53.85	0.19	0.17	89.47	0.18	0.11	61.11
Chick Peas	0.07	0.06	85.71	0.06	0.06	100.00	0.01	0.01	100.00	-	-	-	-	-	-
Haricot Bean	2.57	1.00	38.91	1.73	0.75	43.35	0.54	0.42	77.78	-	-	-	0.31	0.31	100.00
Field Peas	4.85	1.60	32.99	3.91	1.41	36.06	0.75	0.42	56.00	0.18	0.18	100.00	-	-	-
Lentils	0.12	0.09	75.00	0.12	0.09	75.00	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	3.62	3.62	100.00	2.36	2.36	100.00	1.25	1.25	100.00	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	3.62	3.62	100.00	2.36	2.36	100.00	1.25	1.25	100.00	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	22.43	9.59	42.76	20.27	8.45	41.69	2.16	1.73	80.09	-	-	-	-	-	-
Potatoes	3.65	1.55	42.47	2.90	1.42	48.97	0.59	0.31	52.54	0.04	0.04	100.00	0.12	0.09	75.00
Other Vegetables	3.00	2.07	69.00	0.43	0.20	46.51	0.94	0.67	71.28	1.58	1.58	100.00	0.05	0.05	100.00
TOTAL TEMPORARY	276.20	32.66	11.82	236.79	29.53	12.47	32.96	8.20	24.88	3.07	1.91	62.21	2.99	1.49	49.83
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	0.59	0.52	88.14	0.59	0.51	86.44	-	-	-	-	-	-	-	-	-
Enset	1.05	0.56	53.33	0.51	0.40	78.43	0.19	0.19	100.00	0.35	0.35	100.00	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.02	0.02	100.00	0.02	0.02	100.00	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.66	0.74	44.58	1.12	0.65	58.04	0.19	0.19	100.00	0.35	0.35	100.00	-	-	-
ALL CROPS	277.86	38.21	13.75	237.91	33.16	13.94	33.15	9.54	28.78	3.42	1.92	56.14	2.99	1.49	49.83

\* - S.E.P.A. REGION = South Ethiopia People's Administrative Region

TABLE 8.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN GAMBELA REGION, 1994/95(1987 E.C.)

TYPE OF CROP	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED		
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV
CEREALS	6.14	1.31	21.34	0.32	0.32	100.00	-	-	-	-	-	-	-	-	-
Teff	0.03	0.03	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	3.34	1.00	29.94	0.32	0.32	100.00	-	-	-	-	-	-	-	-	-
Sorghum	2.77	1.51	54.51	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	0.10	0.10	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	0.10	0.10	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.02	0.02	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Spices	0.17	0.12	70.59	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.03	0.03	100.00	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	6.46	1.33	20.59	0.32	0.32	100.00	-	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	0.23	0.14	60.87	-	-	-	0.02	0.02	100.00	-	-	-	-	-	-
Enset	0.25	0.21	84.00	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.14	0.07	50.00	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.04	0.04	100.00	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.66	0.27	40.91	-	-	-	0.02	-	-	-	-	-	-	-	-
ALL CROPS	7.12	1.41	19.80	0.32	0.32	100.00	0.02	0.02	100.00	-	-	-	-	-	-

TABLE 9.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN HARARI REGION, 1994/95(1987 E.C.)

( 000' HA)

TYPE OF CROP	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED		
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V.	AREA	SE	C.V.	AREA	SE	CV
CEREALS	5.04	0.97	19.25	--	--	--	--	--	--	0.22	0.13	59.09	1.13	0.55	48.67
Teff	0.03	0.03	100.00	--	--	--	--	--	--	--	--	--	0.01	0.01	100.00
Barley	0.09	0.05	55.56	--	--	--	--	--	--	--	--	--	0.09	0.05	55.56
Wheat	0.42	0.27	64.29	--	--	--	--	--	--	--	--	--	0.32	0.21	65.63
Maize	0.18	0.12	66.67	--	--	--	--	--	--	--	--	--	0.09	0.05	55.56
Sorghum	4.30	0.90	20.93	--	--	--	--	--	--	0.22	0.13	59.09	0.60	0.37	61.67
Millet	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oats	0.02	0.02	100.00	--	--	--	--	--	--	--	--	--	0.02	0.02	100.00
PULSES	0.25	0.21	84.00	0.02	0.02	100.00	--	--	--	--	--	--	0.01	0.01	100.00
Horse Beans	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chick Peas	0.25	0.21	84.00	0.02	0.02	100.00	--	--	--	--	--	--	0.01	0.01	100.00
Haricot Bean	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Peas	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lentils	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vetch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OILSEEDS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Neug	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Linseed	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fenugreek	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rapeseed	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Temporary	1.30	0.79	60.77	--	--	--	--	--	--	--	--	--	0.03	0.02	66.67
Spices	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potatoes	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Vegetables	0.05	0.03	60.00	--	--	--	--	--	--	--	--	--	0.01	0.01	100.00
TOTAL TEMPORARY	6.64	0.78	11.75	0.02	0.02	100.00	--	--	--	0.22	0.13	59.09	1.18	0.55	46.61
Chat	0.62	0.45	72.58	--	--	--	--	--	--	--	--	--	0.36	0.36	100.00
Coffee	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Enset	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fruits	0.05	0.05	100.00	--	--	--	--	--	--	--	--	--	--	--	--
Other Permanent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL PERMANENT	0.67	0.45	67.16	--	--	--	--	--	--	--	--	--	0.36	0.36	100.00
ALL CROPS	7.31	0.49	6.70	0.02	0.02	100.00	--	--	--	0.22	0.13	59.09	1.54	0.76	49.35

TABLE 9.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN HARARI REGION, 1994/95(1987E.C.)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	0.15	0.06	40.00	0.12	0.11	91.67	0.65	0.39	60.00	0.22	0.17	77.27	-	-	-
Teff	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	0.05	0.05	100.00	0.04	0.04	100.00	-	-	-
Wheat	-	-	-	0.03	0.03	100.00	0.21	0.13	61.90	0.08	0.08	100.00	-	-	-
Maize	0.03	0.02	66.67	-	-	-	-	-	-	0.06	0.06	100.00	-	-	-
Sorghum	0.11	0.06	54.55	0.09	0.09	100.00	0.37	0.23	62.16	0.04	0.04	100.00	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	0.02	0.02	100.00	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	0.01	0.01	100.00	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	0.01	0.01	100.00	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	0.03	0.02	66.67	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	0.01	0.01	100.00	-	-	-	-	-	-
TOTAL TEMPORARY	0.18	0.07	38.89	0.12	0.11	91.67	0.66	0.39	59.09	0.23	0.17	73.91	-	-	-
Chat	0.04	0.04	100.00	-	-	-	0.18	0.18	100.00	0.14	0.14	100.00	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.04	0.04	100.00	-	-	-	0.18	0.18	100.00	0.14	0.14	100.00	-	-	-
ALL CROPS	0.22	0.03	13.64	0.12	0.11	91.67	0.84	0.49	58.33	0.37	0.31	83.78	-	-	-

TABLE 9.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN HARARI REGION, 1994/95(1987E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV	QUANTITY	S.E.	CV
CEREALS	3.40	2.10	61.76	0.22	0.22	100.00	1.80	1.12	62.22	1.38	0.95	68.84	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	0.20	0.14	70.00	-	-	-	0.05	0.05	100.00	0.15	0.15	100.00	-	-	-
Wheat	1.74	1.19	68.39	0.11	0.11	100.00	1.08	0.68	62.96	0.55	0.55	100.00	-	-	-
Maize	0.30	0.30	100.00	-	-	-	-	-	-	0.30	0.30	100.00	-	-	-
Sorghum	1.05	0.62	59.05	0.11	0.11	100.00	0.56	0.43	76.79	0.38	0.38	100.00	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	0.11	0.11	100.00	-	-	-	0.11	0.11	100.00	-	-	-	-	-	-
PULSES	0.05	0.05	100.00	-	-	-	-	-	-	0.05	0.05	100.00	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	0.05	0.05	100.00	-	-	-	-	-	-	0.05	0.05	100.00	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.05	0.05	100.00	-	-	-	0.05	0.05	100.00	-	-	-	-	-	-
TOTAL TEMPORARY	3.50	2.16	61.71	0.22	0.22	100.00	1.85	1.16	62.70	1.43	0.95	66.43	-	-	-
Chat	0.75	0.75	100.00	-	-	-	0.55	0.55	100.00	0.20	0.20	100.00	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.75	0.75	100.00	-	-	-	0.55	0.55	100.00	0.20	0.20	100.00	-	-	-
ALL CROPS	4.25	2.81	66.12	0.22	0.22	100.00	2.40	1.66	69.17	1.63	1.14	69.94	-	-	-

TABLE 10.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN ADDIS ABABA REGION, 1994/95(1987 E.C.)

TYPE OF CROP	( '000 HA)															
	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED			
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V.	AREA	SE	C.V.	AREA	SE	CV	
CEREALS	7.66	1.23	16.06	0.001	0.001	100.00	-	-	-	0.62	0.22	35.48	7.38	1.20	16.26	
Teff	5.13	0.78	15.20	-	-	-	-	-	-	0.59	0.21	35.59	5.04	0.77	15.28	
Barley	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Wheat	2.47	0.51	20.65	0.001	0.001	100.00	-	-	-	0.03	0.02	66.67	2.33	0.47	20.17	
Maize	0.03	0.02	66.67	-	-	-	-	-	-	-	-	-	-	-	-	
Sorghum	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oats	0.01	0.004	40.00	-	-	-	-	-	-	-	-	-	0.01	0.004	40.00	
PULSES	2.54	0.67	26.37	0.001	0.001	100.00	0.002	0.002	100.00	0.03	0.03	100.00	0.69	0.18	26.09	
Horse Beans	0.08	0.04	50.00	-	-	-	-	-	-	-	-	-	0.01	0.00	30.00	
Chick Peas	0.96	0.45	46.88	-	-	-	0.002	0.002	100.00	-	-	-	0.37	0.18	48.65	
Haricot Bean	0.001	0.001	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Field Peas	0.07	0.06	85.71	-	-	-	-	-	-	-	-	-	-	-	-	
Lentils	0.49	0.13	26.53	-	-	-	-	-	-	0.02	0.02	100.00	0.16	0.07	43.75	
Vetch	0.94	0.13	13.83	0.001	0.001	100.00	-	-	-	0.01	0.01	100.00	0.15	0.06	40.00	
OILSEEDS	0.11	0.04	35.40	-	-	-	0.002	0.002	100.00	-	-	-	0.02	0.01	50.00	
Neug	0.003	0.003	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fenugreek	0.11	0.04	36.36	-	-	-	0.002	0.002	100.00	-	-	-	0.02	0.01	50.00	
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Temporary	0.003	0.003	100.00	-	-	-	-	-	-	-	-	-	-	-	-	
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potatoes	0.02	0.01	50.00	-	-	-	0.02	0.01	61.55	0.001	0.001	100.00	0.01	0.01	100.00	
Other Vegetables	0.25	0.12	48.00	0.11	0.11	100.00	0.10	0.05	51.45	0.02	0.01	50.00	0.16	0.10	62.50	
TOTAL TEMPORARY	10.59	1.81	17.10	0.11	0.11	100.00	0.12	0.06	50.72	0.67	0.25	37.26	8.26	1.28	15.50	
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Enset	0.003	0.002	66.67	-	-	-	0.001	0.001	100.00	-	-	-	0.003	0.002	66.67	
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Permanent	0.003	0.002	66.67	-	-	-	0.001	0.001	100.00	-	-	-	-	-	-	
TOTAL PERMANENT	0.01	-	-	-	-	-	0.002	0.001	50.00	-	-	-	0.002	0.002	100.00	
ALL CROPS	10.59	1.81	17.09	0.11	0.11	100.00	0.13	0.06	50.19	0.67	0.25	37.26	8.26	1.28	15.49	

TABLE 10.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN ADDIS ABABA REGION, 1994/95(1987 E.C.)

( '000' HA)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	0.02	0.02	100.00	0.46	0.31	67.10	0.01	0.01	83.33	6.86	1.23	17.92	0.02	0.02	100.00
Teff	-	-	-	0.20	0.16	80.00	-	-	-	4.83	0.78	16.15	0.02	0.02	100.00
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	0.02	0.02	100.00	0.26	0.16	61.54	0.01	0.01	100.00	2.03	0.50	24.63	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	0.002	0.002	100.00	0.002	0.002	100.00	0.002	0.002	100.00	-	-	-
PULSES	0.002	0.002	100.00	0.16	0.06	37.50	0.001	0.001	100.00	0.52	0.17	32.50	0.002	0.002	100.00
Horse Beans	0.002	0.002	100.00	-	-	-	-	-	-	0.003	0.003	100.00	-	-	-
Chick Peas	-	-	-	0.03	0.02	66.67	-	-	-	0.34	0.18	52.94	0.002	0.002	100.00
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	0.04	0.03	75.00	0.001	0.001	100.00	0.12	0.04	33.33	-	-	-
Vetch	-	-	-	0.09	0.05	55.56	-	-	-	0.06	0.02	33.33	-	-	-
OILSEEDS	-	-	-	0.002	0.002	100.00	-	-	-	0.02	0.01	50.00	0.002	0.002	100.00
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	0.002	0.002	100.00	-	-	-	0.02	0.01	50.00	0.002	0.002	100.00
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	0.01	0.01	100.00	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	0.16	0.10	62.50	-	-	-
TOTAL TEMPORARY	0.02	0.02	90.91	0.62	0.35	56.09	0.01	0.01	76.92	7.58	1.33	17.56	0.02	0.02	83.33
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	0.002	0.002	100.00	-	-	-	-	-	-	-	-	-	0.001	0.001	100.00
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.002	0.002	100.00	-	-	-	-	-	-	-	-	-	0.001	0.001	100.00
ALL CROPS	0.02	0.02	83.33	0.62	0.35	56.09	0.01	0.01	76.92	7.58	1.33	17.56	0.03	0.02	80.00

TABLE 10.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN ADDIS ABABA REGION, 1994/95(1987 E.C.)

TYPE OF CROP	TOTAL FERTILIZER			DAP			UREA			DAP+UREA			NATURAL+COMM.		
	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V	QUANTITY	S.E.	C.V
CEREALS	16.99	3.34	19.66	0.72	0.43	59.64	0.01	0.01	83.33	16.20	3.41	21.05	0.05	0.05	100.00
Teff	12.90	2.31	17.91	0.40	0.27	67.50	-	-	-	12.44	2.33	18.73	0.05	0.05	100.00
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	4.08	1.10	26.96	0.32	0.16	50.00	0.01	0.01	100.00	3.75	1.14	30.40	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	0.01	0.01	100.00	0.001	0.001	100.00	0.002	0.002	100.00	0.01	0.01	100.00	-	-	-
PULSES	0.76	0.19	24.97	0.16	0.07	43.75	0.004	0.004	100.00	0.59	0.16	27.07	0.004	0.004	100.00
Horse Beans	0.001	0.001	100.00	-	-	-	-	-	-	0.001	0.001	100.00	-	-	-
Chick Peas	0.33	0.16	48.48	0.02	0.01	50.00	-	-	-	0.31	0.15	48.39	0.004	0.004	100.00
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	0.27	0.14	51.85	0.08	0.06	75.00	0.004	0.004	100.00	0.18	0.08	44.44	-	-	-
Vetch	0.16	0.06	37.50	0.06	0.04	66.67	-	-	-	0.10	0.04	40.00	-	-	-
OILSEEDS	0.05	0.03	60.00	-	-	-	-	-	-	0.04	0.03	75.00	0.01	0.01	100.00
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	0.05	0.03	60.00	-	-	-	-	-	-	0.04	0.03	75.00	0.01	0.01	100.00
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	0.04	0.04	100.00	-	-	-	-	-	-	0.04	0.04	100.00	-	-	-
Other Vegetables	0.37	0.22	59.46	-	-	-	-	-	-	0.37	0.22	59.46	-	-	-
TOTAL TEMPORARY	18.21	3.33	18.29	0.88	0.46	52.21	0.02	0.01	62.50	17.24	3.42	19.84	0.06	0.05	78.12
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	0.001	0.001	100.00	-	-	-	-	-	-	-	-	-	0.001	0.001	100.00
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.001	0.001	100.00	-	-	-	-	-	-	-	-	-	0.001	0.001	100.00
ALL CROPS	18.21	3.33	18.28	0.88	0.46	52.21	0.02	0.01	62.50	17.24	3.42	19.84	0.07	0.05	76.92

TABLE 11.1 ESTIMATES OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN DIRE DAWA, 1994/95 (1987 E.C.)

TYPE OF CROP	TOTAL CROP			IMPROVED SEED APPLIED			IRRIGATED			PESTICIDES APPLIED			FERTILIZER APPLIED		
	AREA	SE	C.V.	AREA	SE	CV	AREA	SE	C.V	AREA	SE	C.V	AREA	SE	CV
CEREALS	9.52	2.81	29.52	0.01	0.01	100.00	0.16	0.16	100.00	0.59	0.41	69.49	0.40	0.21	52.50
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.11	0.05	45.45	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	9.41	2.82	29.97	0.01	0.01	100.00	0.16	0.16	100.00	0.59	0.41	69.49	0.40	0.21	52.50
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.01	0.01	100.00	-	-	-	0.01	0.01	100.00	-	-	-	0.01	0.01	100.00
TOTAL TEMPORARY	9.53	2.81	29.49	0.01	0.01	100.00	0.17	0.16	94.12	0.59	0.41	69.49	0.41	0.22	53.66
Chat	0.46	0.21	45.65	0.02	0.02	100.00	0.01	0.01	100.00	-	-	-	0.04	0.02	50.00
Coffee	0.06	0.04	66.67	-	-	-	0.05	0.03	60.00	-	-	-	0.02	0.02	100.00
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.15	0.11	73.33	0.002	0.002	100.00	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.67	0.23	34.33	0.02	0.02	100.00	0.06	0.08	133.33	-	-	-	0.06	0.03	50.00
ALL CROPS	10.20	2.85	27.94	0.03	0.02	66.67	0.23	0.22	95.65	0.59	0.41	69.49	0.47	0.24	51.06

TABLE 11.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR MEHER SEASON CROPS OF PRIVATE PEASANT HOLDINGS IN DIRE DAWA REGION, 1994/95(1987E.C.)

( '000' HA)

TYPE OF CROP	NATURAL FERTILIZER			DAP FERTILIZER			UREA FERTILIZER			DAP+UREA FERTILIZER			NATURAL+COMM.FERTILIZER		
	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV	AREA	S.E	CV
CEREALS	0.40	0.21	52.50	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	0.40	0.21	52.50	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TEMPORARY	0.01	0.01	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Chat	0.41	0.20	48.78	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	0.04	0.02	50.00	-	-	-	-	-	-	-	-	-	-	-	-
Enset	0.02	0.02	100.00	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.06	0.03	50.00	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	0.47	0.24	51.06	-	-	-	-	-	-	-	-	-	-	-	-