



## Appendix 9

### **Crops Grown, Modern Cultivar Seed Use, Emergency Seed Assistance and Local Market Seed Price in Meta, Chiro and Dire Dawa**

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## **DATA ACQUISITION**

This report deals with secondary data obtained from different offices (woreda Bureau of Agriculture, BoA; Disaster Prevention and Preparedness Commission (DPPC) Bureaus and information generated through informal interviews from grain traders. Record keeping at any one of the offices was not satisfactory. Pieces of individual notes and irregularly filed papers were searched to gather meaningful data. Reasonably well-managed data was obtained from East Hararghe DPPC, Chiro BoA market price monitoring team. Due to poor data recording, processing and management, only limited information was obtained from West Hararghe zone and Dire Dawa DPPC. Concerned office staff-keep the data in their individual notes in a manner that is not comprehensible and not readily usable. Their absence from offices due to official trips or otherwise limits performance in the field. The offices complained frequent office restructuring that did not allow proper record keeping. Complaint on previous office holders, section and unit heads are frequently cited for poor record keeping. Lack of staff motivation, lack of data collection, restructuring, editing, processing knowledge, processing facility like computers and reporting format seems to be the main problem. It took time for the author to first understand, collate and then present the data in a comprehensible manner. After compiling the data, effort has been made to crosscheck with the different bureaus, although the outcome was not that satisfactory due to limited knowledge of the people consulted. Data was, however, cleaned as much as possible through different means to increase reliability.

### **LAND ALLOCATION TO DIFFERENT CROPS IN META AND CHIRO WOREDAS AND DIRE DAWA ADMINISTRATIVE COUNCIL**

#### ***Meta and Chiro woredas***

Administratively, Meta and Chiro woredas are located respectively in East and West Hararghe zones of the Oromiya National Regional State. East and West Hararghe zones are areas where the three traditionally defined agroecologies that include the Dega (highland) Woina Dega (intermediate altitude) and Kolla (low altitude) areas prevail in different proportions. As defined in relation to the growing of major crops such as sorghum and maize, the highland zone comprise areas with altitudes between 1900 and 2300 masl, the Woina Dega between 1500-1900 masl and the Kola areas with altitudes less than 1500 masl. In normal as well as in difficult years rainwater availability decreases from the Dega to Woina Dega and then Kolla zones. Different cropping systems made of different crop combinations evolved along these different climatic zones. Due to this, in both East and West Hararghe different farming systems have evolved in the different agroecologies. Various crops identified locally as highland (temperate) or lowland (tropical) crops are grown in both Meta and Chiro (Tables 1a and 1b). Growing such a large number of crops is also smallholder farmers' strategy to avert risk associated with the unpredictable regional rainfall. It has to be noted that grain production in east and west Hararghe is entirely dependent on rainwater. The different crops are mainly grown under multiple cropping-scheme either in combination (intercropping, relay cropping) or in succession. The growing of sorghum, maize and dry beans under an intercropping system and the growing of small cereals and highland pulses like peas, faba bean and lentils in succession are frequent occurrences in the intermediate altitude and highland zones. In both woredas, like in any other woreda found in east and west Hararghe, sorghum and maize are the

first and second most important cereals. Among the small cereals, barley and wheat are important in both woredas, whereas tef is prominent in Chiro than in Meta. Due to their short cycle, small cereals are also grown as catch crops in years when sorghum and maize crop performance failures are detected early in the season. Failure of major crops might happen due to early low moisture stress, armyworm or locust seedling damage, lack of labor and/or draft power to plant on time or to properly manage fields. Several other leguminous crops including dry beans, peas and faba beans are also grown in both woredas. Chickpea is recently getting prominence as a result of frequent occurrence of drought stresses. Its prominence is also related to emergency seed aids managed by several NGOs operating in the region. Due to chickpea's adaptation to less available (residual) moisture, it has become a focus crop under emergency situations. Oil crops such as linseed, sesame and rapeseed which were grown in less proportions earlier are now promoted as crops with potentials in improving smallholder farmers' livelihoods due to their high value and market attraction.

### ***Dire Dawa***

Dire Dawa, administratively recognized as Dire Dawa Administrative Council largely comprises low altitude areas. Here the greater share of agricultural land is situated in the Kolla zone. As a result, there is less diversification of crops grown. Agriculture in Dire Dawa is largely restricted to the growing of sorghum, maize and dry beans (Table 1c).

### **Use of Modern Cultivar Seed**

#### ***Meta and Chiro Woredas***

Although crop farming in the two woredas evolved towards growing large number of crops, many of the crops are grown using seed sourced from the local seed supply system. Modern Cultivar (MC) seed is made available for only a few crops, namely maize, wheat and dry beans. Even for these crops small quantity seed that only covers only a few hectares is made available (Tables 1a, 1b and 1c). Among the various reasons that contributed to limited MC seed use, the underdevelopment of the formal seed sector in Ethiopia is the major one. MCs seed is mainly supplied in credit under the Bureau of Agriculture (BoA) extension program. The other MC seed sources are Non-Governmental Organizations (NGOs) and UN institutions like the FAO that manage seed aid operation in the region. As could be seen later in the report, there are several NGOs that operate in east and west Hararghe zones and Dire Dawa Administrative council. When MC seed is made available for a crop, only one or two MCs are selected per crop for seed to be supplied. This is true for BoA extension program and NGOs that lead seed aid operations.

#### ***Wheat***

For wheat the cultivars HAR-1685 (Kubsa, released in 1994) and Pavon-76 (released in 1982) are the ones supplied largely with little addition from HAR-1522 (Abola) and HAR-1595 (Magal, both released in 1997) (Table 2a). Information obtained from the bread wheat breeding center (Kulumsa Agricultural Research Center, KARC) revealed that the widely distributed cultivar HAR-1685 is almost out of production due to its break in resistance to rust diseases (Bedada Girma, Personal Communication) and is being largely replaced by other recently released MCs. Despite this in all wheat growing areas of East and West Hararghe the BoA extension program and NGOs seed programs largely promote HAR-1685. Moreover, Pavon-76

the second largely supplied cultivar is an old release mainly suitable for irrigated areas. The repeated distribution of the same MC seed in subsequent years happened despite the presence of several MCs released for production in the country. It is true that none of the wheat MCS available currently are developed for the wheat growing areas of east and west Hararghe. Therefore, lack of information on cultivar adaptation to the highland conditions of Hararghe and lack of data on farmers' preference of recently released bread wheat cultivars are among the reasons that resulted in low cultivar replacement rate under Hararghe condition. Be it in east or west Hararghe, there is no data generated through systematic cultivar performance trial regarding adaptation and farmers' preferences for wheat as well as other crops. Neither the Ethiopian Seed Enterprise nor other institutions working in the area of agricultural development endeavored to generate data that could help in selecting cultivars that are adaptable to the growing conditions and at the same time win farmers' acceptance. Whatever MCs grown in Hararghe today are identified based on blanket recommendation made by breeders and the ESE during the start of the extension package program in the mid 1990s.

### ***Maize***

Regarding maize, attempts made to supply MC seed indicate that the hybrid cultivar BH-660 (released in 1993) was supplied throughout the package years to some farmers in Meta and Chiro (Table 2b). This also holds true for other highland parts of East and West Hararghe. Supply of seed of Open Pollinated Varieties (OPVs) was insignificant due to the shift made by the ESE from producing and supplying OPV seed to supplying hybrid seed in view of profit making following its transformation to ESE in 1991. Due to its proven good performance in normal years in the highland zone, farmers cultivar preference is shifting from growing OPVs to growing BH-660. The condition has brought about abandonment of some locally grown OPVs. Problems that limit the expansion of BH-660 include the limited seed supply and the weak performance of the cultivar in years of below normal rainfall. The limited supply of BH-660 seed resulted in large unsatisfied demand in normal years. In drought or in years of low moisture stress the performance of BH-660 is poor that farmers might risk losing the entire harvest. Due to the unpredictable nature of rainfall in both east and west Hararghe, it is hardly possible to make a realistic demand estimate for BH-660. For example following the two drought years of 2001-02 and 2002-03, Chiro BoA refrained from undertaking the maize package with BH-660 seed until detecting normal years. As a result, area planted to MC maize seed dropped from 16% of maize area in 2001-02 to 7% in 2002-03 to almost nil in 2003-04 (Table 1b). Not being able to make decision at the local level, if instructed to carry on the package with BH-660 the BoA might not have choice except considering BH-660 for its package program. Lack of other maize hybrids with better adaptation to the rainfall regime (with proven stable performance) limited the BoA's choice to BH-660. Other MCs supplied in limited quantity include BH-140 (hybrid cultivar released in 1988 and suitable for intermediate altitude rain short areas) and Awassa-511 (an OPV released in 1974 for production in rain short intermediate altitude areas). Note should be taken that the OPV seed is rather made available through emergency seed intervention programs.

### ***Dry bean***

Two white seeded export type dry bean cultivars (Mexican-142, released in 1973 and Awash-1, released in 1990) are the ones that are largely supplied in the different

woredas be it through the BoA package program or NGO seed aid programs (Table 2c). Although there are a number of food type dry bean cultivars released from breeding, neither of them are largely produced and marketed by ESE.. The supply of export type dry bean cultivars is also motivated by the current extension policy of Ethiopia that favors the promotion of export type products.

### ***Dire Dawa***

In Dire Dawa MC seed is supplied for the three major crops grown in the region, which are sorghum, maize and dry bean. Like in Meta and Chiro, the seed supplied is however of limited quantity (4c and 4d). The supply is of limited quantity due to farmers' preference to growing local cultivars of particularly sorghum compared to growing MCs. For example in 2003-04 the BoA decided to limit the quantity of MC seed to that indicated in Table 2d while it additionally purchased 12.5 MT of locally grown sorghum cultivars (Muyra, Worabi, Jeldi Amejigita) from farmers stock. In the same year the sorghum MC 76T<sub>1</sub> No<sub>23</sub> fetched ETB 2.65/kg, whereas the local cultivars Muyra, Worabi, Jeldi and Amejigita costed, respectively ETB 2.00, 2.50, 2.75 and 3.00/kg. Two out of four local cultivars thus fetched more than the MC seed due to farmers' preference to grow the local cultivars over the MC. As will be indicated later, HCS, the major NGO operating in Dire Dawa preferred supplying local cultivars of maize and sorghum under its aid operations. Currently, one sorghum MC (76T<sub>1</sub> No<sub>23</sub>, released in 1979) and one maize MC (Katumani, released in 1974) are made available to farmers. The cultivars are selected for their better performance compared to other tried ones. For example, earlier attempts made by the BoA to supply the intermediate altitude sorghum MC Gambella-1107 was stopped due to poor performance of the cultivar under the highly unpredictable rainfall regime of Dire Dawa.

From the above presentation three elements are worth noting:

1. Among the many crops grown in Meta and Chiro woredas (east and west Hararghe for that matter) MC seed is made available only for a few crops namely wheat, maize and dry bean. For the other crops the supply of MCs is limited or inexistent that farmers largely or totally depend on seed sourced from the local seed supply system
2. The quantity of MC seed supplied is very limited that there is a large proportion of unsatisfied physical demand. Whether smallholder farmers are willing to pay for new seed or not however, requires further investigation
3. The MC seed supply is not handled in a way that improves genetic diversity on which the smallholder farming systems of the three woredas (for that matter the entire Hararghe) relies to cope with the unpredictable rainfall of the area. The supply of few cultivars of a crop under conditions of Hararghe would undermine the coping ability of the smallholder farmers, as it will limit farmers' production choice particularly in years of low moisture stress. Note should be taken that years of low moisture stress are common than being exceptions in Hararghe as a whole.



**Table 1a.** Type of crops grown, total crop area (ha) and area planted to Modern Cultivar (MC) seed in Meta woreda, East Hararghe zone from 2001-2002 to 2003-2004

| Crop                   | 2001-2002         |                              |                              | 2002-2003       |                              |                              | 2003-2004       |                              |                              |
|------------------------|-------------------|------------------------------|------------------------------|-----------------|------------------------------|------------------------------|-----------------|------------------------------|------------------------------|
|                        | Total area (ha)   | Area planted to MC seed (ha) | % of area planted to MC seed | Total area (ha) | Area planted to MC seed (ha) | % of area planted to MC seed | Total area (ha) | Area planted to MC seed (ha) | % of area planted to MC seed |
| Wheat                  | 3410              | 43                           | 1.3                          | 4113            | Unknown <sup>x</sup>         | Unknown <sup>x</sup>         | 3813            | 51                           | 1.3                          |
| Sorghum                | 6044              | Insignificant                | Insignificant                | 10589           | Insignificant                | Insignificant                | 10580           | Insignificant                | Insignificant                |
| Maize                  | 7586              | 1906                         | 25.1                         | 9737            | 2072                         | 21.3                         | 9730            | 1686                         | 17.3                         |
| Barley                 | 2834              | Nil                          | Nil                          | 3014            | Nil                          | Nil                          | 3020            | Nil                          | Nil                          |
| Tef                    | 705               | Nil                          | Nil                          | 172             | Nil                          | Nil                          | 100             | Nil                          | Nil                          |
| Oats                   | 259               | Nil                          | Nil                          | 260             | Nil                          | Nil                          | 260             | Nil                          | Nil                          |
| Peas                   | 792 <sup>w</sup>  | Nil                          | Nil                          | 902             | Nil                          | Nil                          | 900             | Nil                          | Nil                          |
| Faba bean              | 724 <sup>w</sup>  | Nil                          | Nil                          | 654             | Nil                          | Nil                          | 640             | Nil                          | Nil                          |
| Dry bean               | 7726 <sup>x</sup> | Unknown <sup>y</sup>         | Unknown <sup>y</sup>         | 7726            | Unknown <sup>y</sup>         | Unknown <sup>y</sup>         | 7650            | Unknown <sup>y</sup>         | Unknown <sup>y</sup>         |
| Chickpea               | 66                | Nil                          | Nil                          | 381             | Nil                          | Nil                          | Unknown         | Nil                          | Nil                          |
| Fenugreek              | 55                | Nil                          | Nil                          | 82              | Nil                          | Nil                          | 80              | Nil                          | Nil                          |
| Lentils                | 446 <sup>w</sup>  | Nil                          | Nil                          | 419             | Nil                          | Nil                          | 430             | Nil                          | Nil                          |
| Linseed                | 40                | Nil                          | Nil                          | 40              | Nil                          | Nil                          | 38              | Nil                          | Nil                          |
| Groundnut              | 234               | Nil                          | Nil                          | 234             | Nil                          | Nil                          | 230             | Nil                          | Nil                          |
| Roots and Veggies      | 2200              | No data                      | No data                      | 2300            | No data                      | No data                      | 2375            | No data                      | No data                      |
| Total annual crop area | 33124             | -                            | -                            | 40623           | -                            | -                            | 39846           | -                            | -                            |
| Perennials             | 4177              | -                            | -                            | 4177            | -                            | -                            | 4177            | -                            | -                            |
| Total crop area        | 37381             | -                            | -                            | 44800           | -                            | -                            | 44023           | -                            | -                            |

<sup>w</sup> Grown under double cropping scheme with small cereals largely in 'Meher' season

<sup>x</sup> Largely grown under intercropping with sorghum and maize

<sup>y</sup> MC seed Supplied by different NGOs but difficult to separate

<sup>z</sup> . Except Irish, Potato, garlic & shallot, the other vegetables are largely grown from MC seed sourced from country traders.

**Source:** Meta woreda BoA

**Table 1b.** Type of crops grown and total crop area (ha) and area planted to MC seed in Chiro woreda, West Hararghe zone from 2001-2002 to 2003-2004

| Crop                   | 2001-2002       |                              |                              | 2002-2003       |                              |                              | 2003-2004       |                              |                              |
|------------------------|-----------------|------------------------------|------------------------------|-----------------|------------------------------|------------------------------|-----------------|------------------------------|------------------------------|
|                        | Total area (ha) | Area planted to MC seed (ha) | % of area planted to MC seed | Total area (ha) | Area planted to MC seed (ha) | % of area planted to MC seed | Total area (ha) | Area planted to MC seed (ha) | % of area planted to MC seed |
| Wheat                  | 766             | 63                           | 8.2                          | 613             | 192                          | 31.3                         | 1420            | 138                          | 9.7                          |
| Sorghum                | 17934           | Insignificant <sup>x</sup>   | Insignificant <sup>x</sup>   | 26400           | Insignificant <sup>x</sup>   | Insignificant <sup>x</sup>   | 21437           | Insignificant <sup>x</sup>   | Insignificant <sup>x</sup>   |
| Maize                  | 7479            | 1200                         | 16.0                         | 6891            | 7.0                          | 0.1                          | 9187            | Insignificant <sup>x</sup>   | Insignificant <sup>x</sup>   |
| Barley                 | 1259            | Nil                          | Nil                          | 894             | Nil                          | Nil                          | 2135            | Nil                          | Nil                          |
| Tef                    | 2727            | Nil                          | Nil                          | 3117            | Nil                          | Nil                          | 3092            | Nil                          | Nil                          |
| Oats                   | 80              | Nil                          | Nil                          | 86              | Nil                          | Nil                          | 156             | Nil                          | Nil                          |
| Millet                 | 50              | Nil                          | Nil                          | 71              | Nil                          | Nil                          | 28              | Nil                          | Nil                          |
| Peas <sup>y</sup>      | 287             | Nil                          | Nil                          | 92              | Nil                          | Nil                          | 441             | Nil                          | Nil                          |
| Faba bean <sup>y</sup> | 478             | Nil                          | Nil                          | 468             | Nil                          | Nil                          | 821             | Nil                          | Nil                          |
| Dry bean <sup>z</sup>  | 1576            | Unknown <sup>w</sup>         | Unknown <sup>w</sup>         | 1060            | 127                          | 12                           | 1417            | 217                          | 15.3                         |
| Chickpea               | 580             | Nil                          | Nil                          | 1270            | Nil                          | Nil                          | 70              | Nil                          | Nil                          |
| Fenugreek              | 18              | Nil                          | Nil                          | 45              | Nil                          | Nil                          | 40              | Nil                          | Nil                          |
| Lentils <sup>y</sup>   | 54              | Nil                          | Nil                          | 100             | Nil                          | Nil                          | 417             | Nil                          | Nil                          |
| Linseed                | 30              | Nil                          | Nil                          | 38              | Nil                          | Nil                          | 57              | Nil                          | Nil                          |
| Grass pea              | 3               | Nil                          | Nil                          | 14              | Nil                          | Nil                          | 140             | Nil                          | Nil                          |
| Sesame                 | 9               | Nil                          | Nil                          | 26              | Nil                          | Nil                          | 20              | Nil                          | Nil                          |
| Rapeseed               | 2               | Nil                          | Nil                          | 12              | Nil                          | Nil                          | 20              | Nil                          | Nil                          |
| Noog                   | 2               | Nil                          | Nil                          | 8               | Nil                          | Nil                          | 4               | Nil                          | Nil                          |
| Sunflower              | 5               | Nil                          | Nil                          | 9               | Nil                          | Nil                          | 5               | Nil                          | Nil                          |
| Roots and Veggies      | Unreported      | Unreported                   | Unreported                   | Unreported      | Unreported                   | Unreported                   | Unreported      | Unreported                   | Unreported                   |
| Total annual crop area | 32336           | -                            | -                            | 41211           | -                            | -                            | 39907           | -                            | -                            |
| Perennials             | 15431           | -                            | -                            | 14215           | -                            | -                            | 14230           | -                            | -                            |
| Total crop area        | 47767           | -                            | -                            | 55426           | -                            | -                            | 54137           | -                            | -                            |

<sup>w</sup> MC seed supplied by different NGO's but difficult to separate

<sup>x</sup> In Habro woreda some farmers are supplied with two striga resistant sorghum cultivars Gubiye & Abshir obtained through NGO operations

<sup>y</sup> Grown under double cropping scheme with small cereals largely in 'Meher' season

<sup>z</sup> Largely grown under intercropping with sorghum and maize

**Source:** Chiro woreda BoA



**Table 1c.** Type of crops grown and total crop area (ha) and relation to area planted to MC seed in Dire Dawa Administrative council from 2001-2002 to 2003-2004

| Crop                   | 2001-2002       |                              |                              | 2002-2003       |                              |                              | 2003-2004       |                              |                              |
|------------------------|-----------------|------------------------------|------------------------------|-----------------|------------------------------|------------------------------|-----------------|------------------------------|------------------------------|
|                        | Total area (ha) | Area planted to MC seed (ha) | % of area planted to MC seed | Total area (ha) | Area planted to MC seed (ha) | % of area planted to MC seed | Total area (ha) | Area planted to MC seed (ha) | % of area planted to MC seed |
| Sorghum                | 9975            | Unknown                      | Unknown                      | 10691           | 129                          | 1.2                          | 10883           | 1429                         | 13.1                         |
| Maize                  | 525             | Unknown                      | Unknown                      | 563             | 116                          | 20.6                         | 573             | 176                          | 30.7                         |
| Dry bean               | IC              | Unknown                      | Unknown                      | IC              | 175*                         |                              | IC              | 200                          | Unknown                      |
| Roots and Veggies      | Unreported      | Unreported                   | Unreported                   | Unreported      | Unreported                   | Unreported                   | Unreported      | Unreported                   | Unreported                   |
| Total annual crop area | 10500           | -                            | -                            | 11254           | -                            | -                            | 11456           | -                            | -                            |
| Perennials             | Unreported      | Unreported                   | Unreported                   | Unreported      | Unreported                   | Unreported                   | Unreported      | Unreported                   | Unreported                   |
| Total crop area        | -               | -                            | -                            | -               | -                            | -                            | -               | -                            | -                            |

\*20 ha from BoA package program and 155 ha from HCS seed distribution

Source: Dire Dawa BoA and HCS

**Table 2a.** Modern crop cultivars of wheat supplied to farmers through the BoA package program between 2001-02 and 2003-04 in Meta (east Hararghe) and Chiro (west Hararghe).

| Year             | Meta woreda         |                       |                            | Chiro woreda        |                       |                            |
|------------------|---------------------|-----------------------|----------------------------|---------------------|-----------------------|----------------------------|
|                  | Wheat cultivar name | Quantity of seed (MT) | Area seed could plant (ha) | Wheat cultivar name | Quantity of seed (MT) | Area seed could plant (ha) |
| <b>2001-2002</b> | HAR-1685            | 3.8                   | 25.2                       | -                   | -                     | -                          |
|                  | ET-13               | 1.9                   | 12.3                       | Pavon-76            | 9.4                   | 63.0                       |
|                  | HAR-1595            | 0.9                   | 5.5                        | -                   | -                     | -                          |
| <b>Total</b>     | -                   | <b>6.6</b>            | <b>43.0</b>                | -                   | <b>9.4</b>            | <b>63.0</b>                |
| <b>2002-2003</b> | HAR-1685            | Unknown*              | Unknown*                   | Pavon-76            | 20.0                  | 133.3                      |
|                  | -                   | -                     | -                          | HAR-1522            | 8.8                   | 58.7                       |
| <b>Total</b>     | -                   | <b>Unknown*</b>       | <b>Unknown*</b>            |                     | <b>28.8</b>           | <b>192.0</b>               |
| <b>2003-2004</b> | HAR-1685            | 7.6                   | 50.3                       | HAR-1522            | 15.0                  | 100                        |
|                  | ET-13               | 0.2                   | 1.0                        | HAR-1685            | 5.6                   | 37.3                       |
| <b>Total</b>     |                     | <b>7.8</b>            | <b>51.3</b>                |                     | <b>20.6</b>           | <b>137.3</b>               |

\*Distributed only by NGOs

Source: Meta and Chiro BoA

**Table 2b.** Modern crop cultivars of maize supplied to farmers through the BoA package program between 2001-02 and 2003-04 in Meta (East Hararghe) and Chiro (West Hararghe)

| Year             | Meta woreda         |                       |                            | Chiro woreda        |                       |                            |
|------------------|---------------------|-----------------------|----------------------------|---------------------|-----------------------|----------------------------|
|                  | Maize cultivar name | Quantity of seed (MT) | Area seed could plant (ha) | Maize cultivar name | Quantity of seed (MT) | Area seed could plant (ha) |
| <b>2001-2002</b> | BH-660              | 42.9                  | 1716                       | BH-660              | 30                    | 1200                       |
|                  | BH-140              | 4.7                   | 185                        | -                   | -                     | -                          |
|                  | A-511               | 0.2                   | 5                          | -                   | -                     | -                          |
| <b>Total</b>     | -                   | <b>47.8</b>           | <b>1906</b>                | -                   | <b>30</b>             | <b>1200</b>                |
| <b>2002-2003</b> | BH-660              | 50.2                  | 2000.5                     | BH-660              | Insignificant         | Insignificant              |
|                  | BH-140              | 1.8                   | 69                         | PHB-3253            | 0.2                   | 6                          |
| <b>Total</b>     | -                   | <b>52</b>             | <b>2069.5</b>              | -                   | -                     | -                          |
| <b>2003-2004</b> | BH-660              | 37.3                  | 1488.8                     | None                | None                  | None                       |
|                  | BH-140              | 5                     | 197                        | -                   | -                     | -                          |
| <b>Total</b>     | -                   | <b>42.3</b>           | <b>1685.8</b>              | -                   | -                     | -                          |

Source: Meta and Chiro BoA

**Table 2c.** Modern crop cultivars of dry bean supplied to farmers through the BoA package program between 2001-02 and 2003-04 in Chiro woredas (west Hararghe) and Dire Dawa Administrative council

| Year             | Chiro woreda      |                       |                            | Dire Dawa         |                       |                            |
|------------------|-------------------|-----------------------|----------------------------|-------------------|-----------------------|----------------------------|
|                  | Dry bean cultivar | Quantity of seed (MT) | Area seed could plant (ha) | Dry bean cultivar | Quantity of seed (MT) | Area seed could plant (ha) |
| <b>2001-2002</b> | Unknown           | Unknown               | Unknown                    | Unknown           | Unknown               | Unknown                    |
| <b>Total</b>     | -                 | -                     | -                          | -                 | -                     | -                          |
| <b>2002-2003</b> | Mex-142           | 7.6                   | 127.2                      | Mex-142           | 17.5 <sup>z</sup>     | 175                        |
| <b>Total</b>     | -                 | <b>7.6</b>            | <b>127.2</b>               | -                 | <b>17.5</b>           | <b>17.5</b>                |
| <b>2003-2004</b> | Mex-142           | 13                    | 216.7                      | Mex-142           | 10                    | 100                        |
|                  | -                 | -                     | -                          | Awash-1           | 10                    | 100                        |
| <b>Total</b>     | -                 | <b>13</b>             | <b>216.7</b>               | -                 | <b>20</b>             | <b>200</b>                 |

<sup>z</sup> 2 MT from BoA extension program and 15.5 MT from HCS seed aid

Source: Dire Dawa BoA and HCS

**Table 2d.** Modern crop cultivars of maize and sorghum supplied to farmers through the BoA package program between 2001-02 and 2003-04 in Dire Dawa

| Year      | Sorghum                           |                       |                            | Maize            |                       |                            |
|-----------|-----------------------------------|-----------------------|----------------------------|------------------|-----------------------|----------------------------|
|           | Name of cultivar                  | Quantity of seed (MT) | Area seed could plant (ha) | Name of cultivar | Quantity of seed (MT) | Area seed could plant (ha) |
| 2001-2002 | Unknown                           | Unknown               | Unknown                    | Unknown          | Unknown               | Unknown                    |
| 2002-2003 | 76T <sub>1</sub> N <sub>023</sub> | 0.9                   | 129                        | Katumani         | 2.9                   | 116                        |
| 2003-2004 | 76T <sub>1</sub> N <sub>023</sub> | 10                    | 1429                       | Katumani         | 4.4                   | 176                        |

Source: Dire Dawa BoA

## EMERGENCY FOOD GRAIN AND SEED ASSISTANCE IN META, CHIRO WOREDAS AND DIRE DAWA ADMINISTRATIVE COUNCIL

### *Food Aid*

Eastern Ethiopia in general and east and west Hararghe zones in particular are parts of Ethiopia where the livelihood of the rural population entirely depend on the performance of their agriculture (mixed crop-livestock production system). The performance of the agriculture was however poor in the past years due to, among other things, frequent occurrence of low moisture stress conditions during the cropping season. As a result, in this part of the country crop farming repeatedly failed to regenerate itself to the extent that producers have become increasingly food and seed insecure. Consequently, food and seed relief are increasingly becoming part of the agricultural system. Although seed relief handouts were meant to decrease dependence on repeated food aid by contributing to the restoration, rehabilitation or improvement of agricultural systems and farmers' self-reliance, this did not materialize in eastern Ethiopia as a whole. Data obtained from Disaster Prevention and Preparedness Commission (DPPC) of East and West Hararghe zones and Dire Dawa Administrative Council revealed that in the past years each woreda found in the zones received emergency food aid every year (Tables 3a, 3b and 3c). Only the magnitude of the aid received varied among woredas depending on the level of vulnerability of each woreda. For example, woredas such as Fedis, Gursum and Babile which largely comprise mid and low altitude drought prone areas received the greatest share of food aid compared to those woredas which largely comprise highland areas (Fig. 1). The need for the food aid was associated with the poor performance of the crop production sector due partly to rainfall uncertainties. Note should be taken that among the several constraints rainfall uncertainty ranked top in limiting the performance of the agriculture. The woredas of interest to this work are not exceptions and, therefore, have received continuous food aid.

Wheat grain constituted the largest volume of grain handout followed by maize. In addition to food grain handouts large volume of other value added foodstuffs labeled 'supplementary food' (vitamin and mineral containing foods) and cooking oil has been donated. The amount of food grain distributed and beneficiaries targeted increased through years following repeated occurrence of low moisture stress conditions that affected the major staple crops sorghum and maize. The volume of food grain distributed to farm HH in east Hararghe zone from 1995-96 to 2002-03 is demonstrated in Fig. 2, as an example. The volume of food grain aid in east Hararghe

zone increased from 1934.4 MT in 1995/96 to 105878.2 MT in 2002-03 (Table 3<sub>a</sub> and Fig. 2), whereas number of beneficiary HH increased from 48360 to 1067100 in the same period (Table 3<sub>a1</sub> and Fig. 2).

### *Seed Aid*

Seed aid was the other operation handled together with the food aid in east and west Hararghe zones and Dire Dawa Administrative council in the past year. According to the DPPC's of the different zones giving seed handouts to the different woredas has a long history dating back to the early 1980's. Different crop seed sourced largely from the local seed supply system (mainly major grain traders, see Mulatu, 2003) was being distributed to selected needy households since then. For a few crops, particularly wheat, maize and dry beans seed was partly or totally sourced from the formal seed supply sector (ESE and breeding centers) in certain years. According to the DPPC, the volume of seed handouts and the households (HH) targeted showed an increasing trend (Fig. 3) compared to the 1980s indicating the failure of crop farming to regenerate itself. In east Hararghe zone the volume of seed handout decreased from 1525 MT in 1999/2000 to 642 MT in 2001/02 but increased once again to 1220 MT in 2002/03 (Table 7<sub>c</sub> and Fig. 3). In west Hararghe zone seed handout increased from 1070 MT in 2001/02 to 2166 MT in 2002/03, whereas number of beneficiary farm HH almost tripled from 99141 to 283903 in the same period (Tables 5<sub>a</sub> and 5<sub>b</sub>). Tables 4<sub>a</sub>, 4<sub>b</sub>, 4<sub>c</sub>, 4<sub>d</sub> and 4<sub>e</sub> give the data summary for emergency seed aid from 1999-2000 for east Hararghe zone by crop type, whereas Tables 5<sub>a</sub> and 5<sub>b</sub> give the seed aid data summary for west Hararghe zone.

### *The donors*

Several international NGOs, UN institutions such as the WFP (World Food Program) and the FAO and few local NGOs are involved in emergency food and seed aid in east and west Hararghe zones as a whole, whereas according to the DPPC, HCS and WFP are the ones active in Dire Dawa in donating seed and food handouts, respectively. In east Hararghe FAO, MFM (Menschen für Menschen, a German based NGO), CISP (Comitato Internazionale per lo Sviluppo dei Popoli, an Italian based NGO), HCS (Hararghe Catholic Secretariat), SHDI (Self-Help Development International, an Ireland based NGO), WLF (World Lutheran Federation) and CARE International (to a limited extent) featured, whereas in west Hararghe CARE, HCS, ICRC (international Committee of the Red Cross), FAO, ERCS (Ethiopian Red Cross Society), GO-Eth (Goal Ethiopia) and ESHA featured the most. Whereas food aid was largely done by the WFP, some of the above-indicated NGOs also supply some food grain. EU (European Union) and OPEC, Belgian Government and SIDA (Swedish International Development Agency) were also involved in food aid particularly in 2002-03. In 2000-01, seven institutions (UN and NGOs) performed seed aid operations in east Hararghe zone (Tables 7<sub>a</sub> and 7<sub>b</sub>). The institutions include FAO, CARE, HCS, MFM, CISP, SHDI, WLF and GO-Eth. The donor institutions gave 1072 MT of seed of six crops (maize, sorghum, wheat, dry bean, tef and chickpea) to about 81221 households found in the 15 woredas of the zone (Tables 7<sub>a</sub> and 7<sub>b</sub>). In 2001/02 six NGOs (CARE, SHDI, HCS, CISP, MFM, WLF) and FAO donated about 642 MT seed of five crops (maize, sorghum, wheat, dry bean and chickpea (Table 8a). In **2002-03** a total of 1220.2 MT of seed of five crops (sorghum, wheat, maize, tef and dry bean) was donated to a total of 144739 farm HH distributed in 16 woredas of the zone by the same NGOs though data on donor institutions is not available (Table 9). Information on crop cultivars is given as explanatory note under Table 9. More or less the same

trend is observed in 2003/04 for east Hararghe zone (Table 10). Data we were able to capture indicated that in west Hararghe zone six NGOs (ICRC, ERCS, CARE, ESHA, HCS, MFM) FAO, and the Government itself donated 2105 MT seed of six crops (maize, sorghum, wheat, dry bean chickpea and barley) to 283906 farm HH in 2002/03 (Table 11).

Some of the NGOs distributed the food and seed handouts to farm HH by themselves, whereas others operated through the DPPC. Donors, however, react based on request made by the DPPC, at the National, Regional and Zonal levels. Woredas where food and seed aid should take place, the volume to be distributed and the number of HH to be targeted is fixed by the DPPC.

Aid institutions that handled seed distribution by their own include HCS, CARE, MFM, CISP and SHDI, whereas others like ICRC, ERCS and WLF distribute through the DPPC. Even when NGOs handle distribution by their own they work in close collaboration with the grassroots development offices such as the Rural Development Bureau, Bureau of Agriculture and the like. The major food aid operator in all zones was the WFP.

#### ***Crop Cultivars Distributed under Seed Aid Operations***

Generally due to lack on knowledge of varietal performance employees of the DPPC were not able to provide specific information to donors regarding required crop cultivars. As a result donors did not have opportunity to provide adapted and farmers' preferred MCs to beneficiary farm HH. As an example to this I presented data on volume of seed and cultivars supplied to farmers by HCS between 2000/01 and 2003/04 in Table 6. In all years HCS purchased and supplied local seed except for wheat and dry bean. The reason for purchasing local seed is lack of MCs that meet farmers' preferences from formal seed suppliers. For wheat and dry bean only single MC, respectively HAR-1685 and Mexican-142 were purchased. These are the cultivars that showed proven performance in the zones, according to HCS. Absence of systematic on-farm performance evaluation and readily usable recommendation by NGOs made seed supply to deal with on only those cultivars that NGOs have prior information about. The ESE does not conduct or lead the conduct of planned demonstrations and performance evaluations in any of the zones in Hararghe. EPHSI supplies small quantity seed for demonstrations to BoA. But absence of proper evaluation of cultivars by BoA and absence of follow up from EPHSI made the generation of utilizable data difficult. Moreover, NGOs are not interested to provide hybrid seed to farmers, as it does not contribute much to rehabilitation programs.

**Table 3a.** Quantity of food grain (MT) distributed in East Hararghe woredas as food aid between 1995-96 and 2002-03

| Woreda            | 1995/96           | 1996/97           | 1997/98           | 1998/99           | 1999/00           | 2000/01           | 2001/02        | 2002/03         |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|-----------------|
| Fedis             | 12.8              | 43.7              | 941.0             | 19678.9           | 9887.7            | 7870.1            | 14014.9        | 16113.8         |
| Gursum            | 23.7              | 109.5             | 654.9             | 10473.2           | 6544.7            | 6019.4            | 9745.5         | 12351.0         |
| Babile            | 10.1              | 154.7             | 1000.3            | 5066.2            | 1881.5            | 3643.8            | 4828.2         | 7662.6          |
| Grawa             | 363.1             | 228.9             | 24.1              | 9745.9            | 5036.5            | 3786.5            | 4592.8         | 7345.0          |
| Kurfa<br>Chele    | 50.8              | 56.7              | 110.2             | 1467.1            | 1393.9            | 1537.1            | 2563.5         | 4754.1          |
| Bedeno            | 732.9             | 150.4             | 91.6              | 1353.1            | 727.9             | 1922.1            | 2693.6         | 4729.9          |
| Golo Oda          | 19.5              | 133.8             | 102.9             | 3749.7            | 723.0             | 2598.8            | 3184.8         | 8273.3          |
| Jarso             | 7.7               | 30.8              | 134.1             | 1004.6            | 1502.4            | 946.2             | 1211.0         | 4610.3          |
| Kombolcha         | 37.8              | 65.4              | 68.7              | 736.7             | 1197.2            | 474.4             | 1591.1         | 3395.1          |
| Kersa             | 37.1              | 324.7             | 253.6             | 2399.8            | 2907.2            | 1149.3            | 902.7          | 5516.7          |
| Meta              | 86.5              | 77.2              | 135.1             | 2206.6            | 2196.2            | 2707.2            | 1817.0         | 7230.8          |
| Goro Gutu         | 58.6              | 129.0             | 843.0             | 2153.9            | 1650.8            | 1338.9            | 1642.7         | 5989.0          |
| Deder             | 240.7             | 42.0              | 55.1              | 544.4             | 746.9             | 504.9             | 296.8          | 4406.8          |
| Melka Belo        | 121.2             | 91.9              | 325.7             | 486.1             | 1337.6            | 1566.8            | 1763.5         | 5179.2          |
| Alemaya           | 131.8             | 63.9              | 1.5               | 1050.0            | 1101.9            | 465.1             | 917.5          | 3435.9          |
| Meyu <sup>z</sup> | No such<br>woreda | No such<br>woreda | No such<br>woreda | No such<br>woreda | No such<br>woreda | No such<br>woreda | 1521.0         | 4884.8          |
| <b>Total</b>      | <b>1934.4</b>     | <b>1702.5</b>     | <b>4742.0</b>     | <b>62116.1</b>    | <b>38835.2</b>    | <b>36530.5</b>    | <b>53286.6</b> | <b>105878.2</b> |

<sup>z</sup> Recognized as a separate woreda as of 2001/02.

Source: East Hararghe Zone DPPC

**Table 3a1.** Number of beneficiary HH targeted for food aid in East Hararghe woredas between 1995-96 and 2002-03

| Woreda            | 1995/96           | 1996/97           | 1997/98           | 1998/99           | 1999/00           | 2000/01           | 2001/02       | 2002/03        |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------|----------------|
| Fedis             | 710               | 689               | 15640             | 160750            | 198946            | 104903            | 110000        | 127400         |
| Gursum            | 639               | 1771              | 11250             | 81878             | 84878             | 91368             | 55600         | 78000          |
| Babile            | 683               | 4832              | 25670             | 43726             | 26569             | 41814             | 53400         | 62700          |
| Grawa             | 4779              | 3551              | 1609              | 99720             | 113920            | 73208             | 42900         | 47800          |
| Kurfa<br>Chele    | 938               | 549               | 3772              | 22457             | 23854             | 15710             | 26800         | 51500          |
| Bedeno            | 17295             | 8582              | 4015              | 20689             | 25283             | 32924             | 18200         | 57700          |
| Golo Oda          | 1987              | 2146              | 2369              | 39756             | 29567             | 54046             | 36000         | 62100          |
| Jarso             | 510               | 513               | 2980              | 22985             | 28883             | 25040             | 16700         | 45100          |
| Kombolcha         | 2411              | 1053              | 1405              | 16507             | 9722              | 4020              | 20500         | 44300          |
| Kersa             | 875               | 14088             | 7483              | 36560             | 54930             | 22984             | 12500         | 89200          |
| Meta              | 6000              | 836               | 6776              | 29622             | 44057             | 47044             | 24600         | 90800          |
| Goro Gutu         | 2405              | 8333              | 27027             | 34512             | 30114             | 20196             | 27100         | 74600          |
| Deder             | 4663              | 860               | 2721              | 14815             | 9953              | 11506             | 15000         | 55600          |
| Melka Belo        | 3554              | 1390              | 15318             | 18374             | 26222             | 22340             | 21000         | 57400          |
| Alemaya           | 911               | 1267              | 12                | 17500             | 26103             | 7881              | 11000         | 70900          |
| Meyu <sup>z</sup> | No such<br>woreda | No such<br>woreda | No such<br>woreda | No such<br>woreda | No such<br>woreda | No such<br>woreda | 16500         | 52000          |
| <b>Total</b>      | <b>48360</b>      | <b>50460</b>      | <b>128047</b>     | <b>659851</b>     | <b>733001</b>     | <b>574984</b>     | <b>507800</b> | <b>1067100</b> |

<sup>z</sup> Recognized as a separate woreda as of 2001/02.

Source: East Hararghe Zone DPPC

**Table 3b.** Quantity of food grain (MT) aid distributed and beneficiary HH targeted in West Hararghe woredas between 2001-02 and 2003-04

| Woreda          | 2001/02         |             | 2002/03         |               | 2003/04         |               |
|-----------------|-----------------|-------------|-----------------|---------------|-----------------|---------------|
|                 | Food grain (MT) | Beneficiary | Food grain (MT) | Beneficiary   | Food grain (MT) | Beneficiary   |
| Boke            | 1169.9          | No data     | 10660           | 78000         | 4633.1          | 54000         |
| Mesela          | 160             | No data     | 7750.4          | 43500         | 4873.5          | 56381         |
| Tulo            | 254.8           | No data     | 6245.1          | 28500         | 3319.1          | 45416         |
| Dobba           | 455.1           | No data     | 8005.7          | 43000         | 6868.3          | 74387         |
| Anchar          | 402             | No data     | 7086.5          | 43000         | 5853.6          | 66907         |
| Goba<br>Koricha | 461.4           | No data     | 10743.8         | 68000         | 8915.7          | 59428         |
| Miesso          | 822.4           | No data     | 15968.1         | 50500         | 10042.6         | 112264        |
| Kuni            | 268.9           | No data     | 8844.3          | 49500         | 5580.4          | 78571         |
| Chiro           | 552             | No data     | 21528.8         | 166000        | 16439.4         | 174003        |
| Habro           | 0               | No data     | 8915.9          | 55000         | 4145.7          | 51246         |
| Daro<br>Lebu    | 1568.9          | No data     | 10869.3         | 29000         | 4338.9          | 47832         |
| <b>Total</b>    | <b>6115.4</b>   | No data     | <b>116617.5</b> | <b>654000</b> | <b>75019.1</b>  | <b>820435</b> |

Source: West Hararghe Zone DPPC

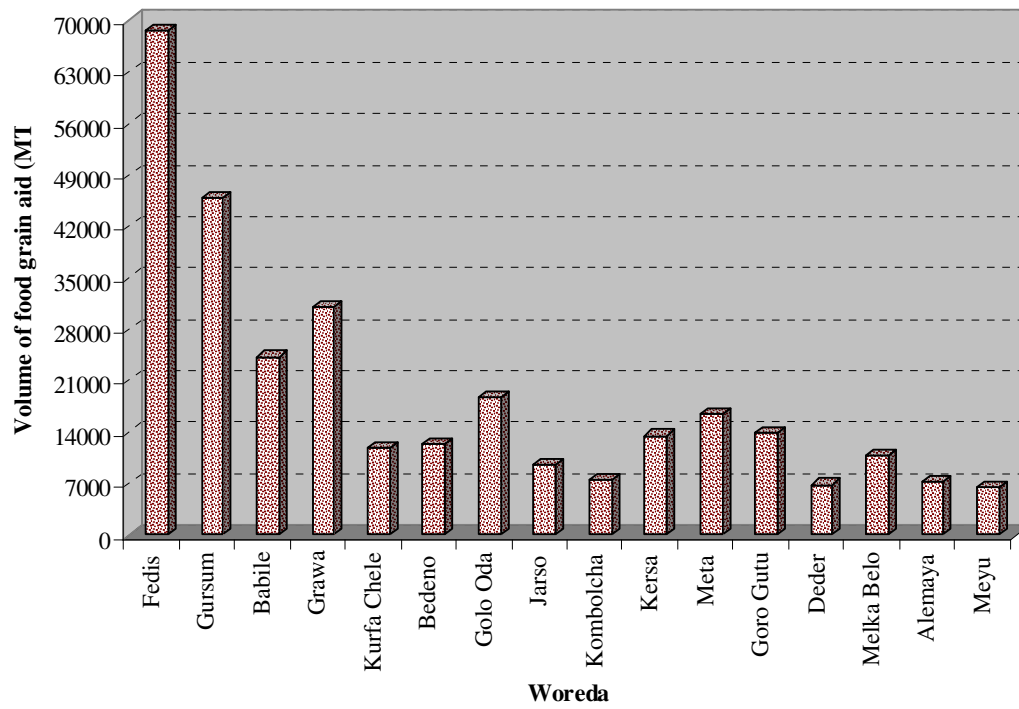
**Table 3c.** Quantity of food grain (MT) aid distributed and beneficiaries targeted in Dire Dawa between 2001-02 and 2003-04

| Year    | Food grain (MT) | Beneficiary |
|---------|-----------------|-------------|
| 2001/02 | 100             | 8000        |
| 2002/03 | 918.8           | 73500       |
| 2003/04 | 7411.8          | 91500       |

Source: Dire Dawa Administrative Council DPPC

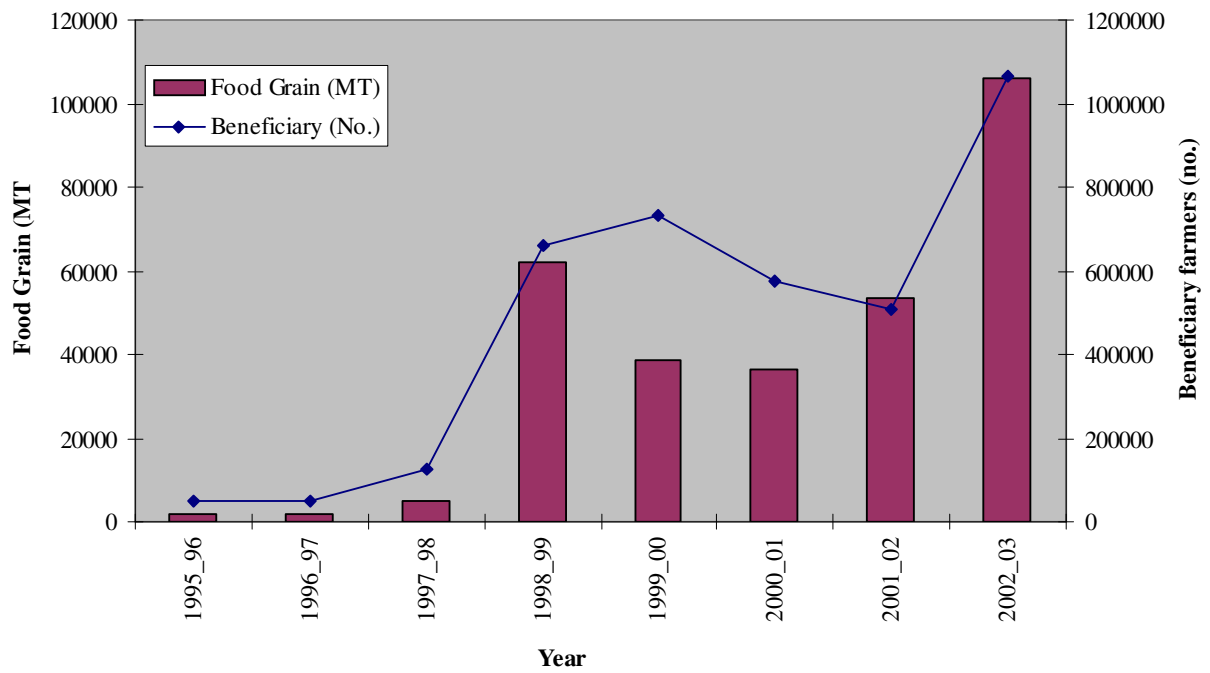
### ***Mode of Seed Supply***

In view of fighting the ever increasing dependency mentality and not to contradict the currently underway credit extension package, the Government don't allow to give seed for free. As a result, seed handouts were given in credit to be returned in kind upon harvest, which will be used to establish a revolving seed scheme. Although seed was given to beneficiary HH with such an agreement, there is no any encouraging record of repayment collection. Continuously occurring drought years, lack of follow-up of harvest conditions, lack of responsible body to collect repayments, lack of law reinforcement to punish credit defaulters, etc. were among the reasons that contributed to repeated failures to establish revolving seed schemes (for further explanation see Mulatu 2002 and 2003).

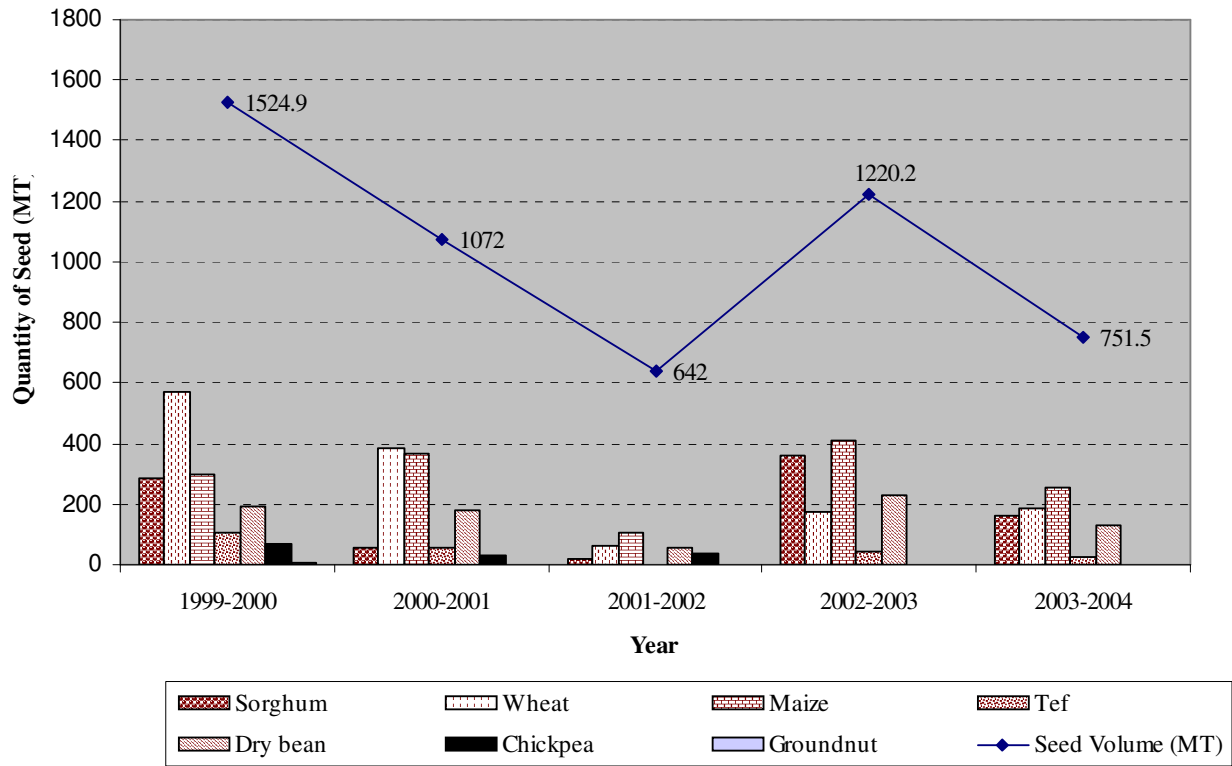


**Fig. 1.** Food grain aid donated to the different woredas of East Hararghe zone between 1995/96 and 2002/03 by different donors (Source: EHZ DPPC) (note: **Meyu** was recognized as woreda in its own right as of 2001-02)





**Fig. 2.** Quantity of food grain distributed under aid operations by GO and NGOs in East Hararghe zone between 1995-96 and 2002-03 (Source: EHZ-DPPC)



**Fig. 3.** Volume of emergency seed distributed to needy farmers by Government and NGOs between 1999-2000 and 2003-04 in East Hararghe Zone (Source: EHZ-DPPC)



**Table 4a.** Crop type, quantity of seed (MT) distributed and beneficiaries targeted in East Hararghe under seed aid operation in 1999-2000

| Woreda                           | Tef          | HH   | Ha  | Wheat         | HH   | Ha  | Maize        | HH    | Ha  | Sorghum      | HH    | Ha  | DB           | HH   | Ha | CP          | HH   | Ha  | GN         | HH  | Ha  | Actually targeted HH |
|----------------------------------|--------------|------|-----|---------------|------|-----|--------------|-------|-----|--------------|-------|-----|--------------|------|----|-------------|------|-----|------------|-----|-----|----------------------|
| Golo Oda                         | Nil          | Nil  | Nil | Nil           | Nil  | Nil | 10           | 800   |     | 10           | 2000  |     | 4.1          | 205  |    | Nil         | Nil  | Nil | Nil        | Nil | Nil | 3005                 |
| Bedeno                           | 25           | 3334 |     | 17.1          | 456  |     | 3            | 480   |     | 10           | 1600  |     | 4.4          | 440  |    | Nil         | Nil  | Nil | Nil        | Nil | Nil | 6310                 |
| Grawa                            | 20           | 5194 |     | 16.2          | 486  |     | 42.4         | 9343  |     | 25           | 6751  |     | 9.8          | 1633 |    | 16.3        | 815  |     |            |     |     | 24222                |
| Kurfachele                       | Nil          | Nil  | Nil | 44.1          | 1398 |     | 6.5          | 680   |     | 12.9         | 2264  |     | 2.5          | 344  |    | 9           | 800  |     | 3.4        | 319 |     | 5805                 |
| Alemaya                          | Nil          | Nil  | Nil | Nil           | Nil  | Nil | 30.5         | 2293  |     | 9.8          | 1960  |     |              |      |    | 4.9         | 392  |     |            |     |     | 4645                 |
| Gorogutu                         | Nil          | Nil  | Nil | 70.5          | 1957 |     | Nil          | Nil   | Nil | Nil          | Nil   | Nil | 30.5         | 1495 |    | Nil         | Nil  | Nil | Nil        | Nil | Nil | 3452                 |
| Deder                            | 14.2         | 1035 |     | Nil           | Nil  | Nil | Nil          | Nil   | Nil | Nil          | Nil   | Nil |              |      |    | Nil         | Nil  | Nil | Nil        | Nil | Nil | 1035                 |
| Melka Belo                       | 20           | 1843 |     | 10.3          | 321  |     | Nil          | Nil   | Nil | Nil          | Nil   | Nil |              |      |    | Nil         | Nil  | Nil | Nil        | Nil | Nil | 2164                 |
| Fedis                            | Nil          | Nil  | Nil | 67.3          | 1681 |     | 186.5        | 18760 |     | 150.1        | 17393 |     | 64.1         | 6507 |    | 13.6        | 1360 |     |            |     |     | 45701                |
| Babile                           | Nil          | Nil  | Nil | Nil           | Nil  | Nil | 10           | 1600  |     | 24           | 4033  |     | 28           | 2800 |    | Nil         | Nil  | Nil | Nil        | Nil | Nil | 8433                 |
| Gursum                           | 22.5         | 1500 |     | 48.9          | 653  |     | 10           | 3318  |     | 43.1         | 10600 |     | 19.6         | 980  |    | Nil         | Nil  | Nil | Nil        | Nil | Nil | 17051                |
| Jarso                            | Nil          | Nil  | Nil | 35            | 729  |     | Nil          | Nil   | Nil | Nil          | Nil   | Nil |              |      |    | 2           | 154  |     |            |     |     | 883                  |
| Kombolcha                        | Nil          | Nil  | Nil | 3.3           | 132  |     | Nil          | Nil   | Nil | Nil          | Nil   | Nil |              |      |    | Nil         | Nil  | Nil | Nil        | Nil | Nil | 132                  |
| Kersa                            | Nil          | Nil  | Nil | 162.1         | 6482 |     | Nil          | Nil   | Nil | Nil          | Nil   | Nil | 9.4          | 1880 |    | Nil         | Nil  | Nil | Nil        | Nil | Nil | 8362                 |
| Meta                             | 5            | 709  |     | 95            | 3344 |     | Nil          | Nil   | Nil | Nil          | Nil   | Nil | 22           | 1100 |    | 20          | 2590 |     |            |     |     | 7748                 |
| <b>Total</b>                     | <b>106.7</b> |      |     | <b>569.8</b>  |      |     | <b>298.9</b> |       |     | <b>284.9</b> |       |     | <b>195.4</b> |      |    | <b>65.8</b> |      |     | <b>3.4</b> |     |     |                      |
| <b>Total volume of seed (MT)</b> |              |      |     | <b>1524.9</b> |      |     |              |       |     |              |       |     |              |      |    |             |      |     |            |     |     |                      |
| <b>Total number of HH</b>        |              |      |     | <b>138948</b> |      |     |              |       |     |              |       |     |              |      |    |             |      |     |            |     |     |                      |

Source: EHZ DPPC

**Table 4b.** Crop type, quantity of seed (MT) distributed and beneficiaries targeted in East Hararghe under seed aid operation in 2000-01

| Woreda                           | Tef         | HH          | Ha  | CP            | HH          | Ha  | Wheat      | HH          | Ha    | Maize        | HH           | Ha   | Sorghum     | HH          | Ha   | DB           | HH           | Ha  | Veggies    | HH         | Ha  |
|----------------------------------|-------------|-------------|-----|---------------|-------------|-----|------------|-------------|-------|--------------|--------------|------|-------------|-------------|------|--------------|--------------|-----|------------|------------|-----|
| Golo Oda                         | Nil         | Nil         | Nil | Nil           | Nil         | Nil | Nil        | Nil         | Nil   | 20           | 1600         | 800  | 5           | 1000        | 500  | Nil          | Nil          | Nil | Nil        | Nil        | Nil |
| Bedeno                           | 7.8         | 1042        |     | Nil           | Nil         | Nil | 20         | 527         | 133.3 | 19.7         | 3152         | 788  | Nil         | Nil         | Nil  | Nil          | Nil          | Nil | Nil        | Nil        | Nil |
| Grawa                            | 7.8         | 517         |     | Nil           | Nil         | Nil | 18.2       | 238         | 121.3 | 20.3         | 1545         | 812  | 2.8         | 562         | 280  | Nil          | Nil          | Nil | Nil        | Nil        | Nil |
| Kurfachele                       | Nil         | Nil         | Nil | Nil           | Nil         | Nil | 71.9       | 1713        | 479.3 | 15.1         | 2400         | 604  | 2.5         | 400         | 250  | 40           | 1334         | 400 | Nil        | Nil        | Nil |
| Alemaya                          | Nil         | Nil         | Nil | 10.4          | 832         |     | Nil        | Nil         | Nil   | Nil          | Nil          | Nil  | 2           | 400         | 200  | 20           | 1002         | 200 | Nil        | Nil        | Nil |
| Gorogutu                         | Nil         | Nil         | Nil | Nil           | Nil         | Nil | 15         | 312         | 100   | 10.9         | 1264         | 436  | Nil         | Nil         | Nil  | 15           | 750          | 150 | Nil        | Nil        | Nil |
| Deder                            | Nil         | Nil         | Nil | 10            | 500         |     | Nil        | Nil         | Nil   | 3            | 240          | 120  | Nil         | Nil         | Nil  | Nil          | Nil          | Nil | Nil        | Nil        | Nil |
| Melka Belo                       | 10          | 667         |     | 10            | 1000        |     | 17         | 240         | 113.3 | 17           | 1360         | 680  | 3.5         | 700         | 350  | Nil          | Nil          | Nil | Nil        | Nil        | Nil |
| Fedis                            | Nil         | Nil         | Nil | Nil           | Nil         | Nil | 10         | 269         | 66.7  | Nil          | Nil          | Nil  | 34.5        | 5762        | 3450 | 10           | 1000         | 100 | Nil        | Nil        | Nil |
| Babile                           | Nil         | Nil         | Nil | Nil           | Nil         | Nil | Nil        | Nil         | Nil   | 114.1        | 9128         | 4564 | 2.5         | 500         | 250  | 20           | 1330         | 200 | Nil        | Nil        | Nil |
| Gursum                           | 10          | 533         |     | Nil           | Nil         | Nil | 30         | 400         | 200   | 85.6         | 6821         | 3424 | 2.5         | 500         | 250  | 23.9         | 5954         | 239 | Nil        | Nil        | Nil |
| Jarso                            | Nil         | Nil         | Nil | Nil           | Nil         | Nil | 69.3       | 2079        | 462   | 15           | 2000         | 600  | Nil         | Nil         | Nil  | 15           | 750          | 150 | Nil        | Nil        | Nil |
| Kombolcha                        | Nil         | Nil         | Nil | Nil           | Nil         | Nil | 14.1       | 752         | 94    | 4.3          | 344          | 172  | Nil         | Nil         | Nil  | 6.8          | 1360         | 68  | 1.1        | 165        |     |
| Kersa                            | 5           | 667         |     | Nil           | Nil         | Nil | 25         | 835         | 166.7 | 15.2         | 1216         | 608  | Nil         | Nil         | Nil  | 20           | 2000         | 200 | Nil        | Nil        | Nil |
| Meta                             | 15          | 3999        |     | Nil           | Nil         | Nil | 91.5       | 2440        | 610   | 27           | 4320         | 1080 | Nil         | Nil         | Nil  | 10           | 800          | 100 | Nil        | Nil        | Nil |
| <b>Total</b>                     | <b>55.6</b> | <b>7425</b> |     | <b>30.4</b>   | <b>2332</b> |     | <b>382</b> | <b>9805</b> |       | <b>367.2</b> | <b>35390</b> |      | <b>55.3</b> | <b>9824</b> |      | <b>180.7</b> | <b>16280</b> |     | <b>1.1</b> | <b>165</b> |     |
| <b>Total volume of seed (MT)</b> |             |             |     | <b>1072.3</b> |             |     |            |             |       |              |              |      |             |             |      |              |              |     |            |            |     |
| <b>Total number of HH</b>        |             |             |     |               |             |     |            |             |       |              |              |      |             |             |      |              |              |     |            |            |     |

Source: EHZ DPPC

**Table 4c.** Crop type, quantity of seed (MT) distributed and beneficiaries targeted in East Hararghe under seed aid operation in 2001-02

| Woreda                           | Chickpea    | HH  | Ha  | Wheat                    | HH  | Ha  | Maize        | HH  | Ha  | Sorghum     | HH  | Ha  | DB          | HH  | Ha  | Actually targeted HH |
|----------------------------------|-------------|-----|-----|--------------------------|-----|-----|--------------|-----|-----|-------------|-----|-----|-------------|-----|-----|----------------------|
| Golo Oda                         | Nil         | Nil | Nil | Nil                      | Nil | Nil | Nil          | Nil | Nil | Nil         | Nil | Nil | Nil         | Nil | Nil | No data              |
| Bedeno                           | 10          |     |     | 6.1                      |     |     | 7.5          |     |     | Nil         | Nil | Nil | Nil         | Nil | Nil | No data              |
| Grawa                            | Nil         | Nil | Nil | 12.1                     |     |     | Nil          | Nil | Nil | Nil         | Nil | Nil | Nil         | Nil | Nil | No data              |
| Kurfachele                       | Nil         | Nil | Nil | 8.7                      |     |     | 20           |     |     | Nil         | Nil | Nil | Nil         | Nil | Nil | No data              |
| Alemaya                          | 15.3        |     |     | Nil                      | Nil | Nil | 30.5         |     |     | 11.8        |     |     | 20          |     |     | No data              |
| Gorogutu                         | 4.9         |     |     | Nil                      | Nil | Nil | Nil          | Nil | Nil | Nil         | Nil | Nil | 15          |     |     | No data              |
| Deder                            | Nil         | Nil | Nil | Nil                      | Nil | Nil | Nil          | Nil | Nil | Nil         | Nil | Nil | Nil         | Nil | Nil | No data              |
| Melka Belo                       | Nil         | Nil | Nil | Nil                      | Nil | Nil | Nil          | Nil | Nil | Nil         | Nil | Nil | Nil         | Nil | Nil | No data              |
| Fedis                            | Nil         | Nil | Nil | Nil                      | Nil | Nil | 6.6          |     |     | 2.4         |     |     | 4.2         |     |     | No data              |
| Babile                           | Nil         | Nil | Nil | Nil                      | Nil | Nil | 24.6         |     |     | 2.2         |     |     | 2.4         |     |     | No data              |
| Gursum                           | 6.2         |     |     | Nil                      | Nil | Nil | 5.6          |     |     | 2.0         |     |     | Nil         | Nil | Nil | No data              |
| Jarso                            | Nil         | Nil | Nil | 19.2                     |     |     | Nil          | Nil | Nil | Nil         | Nil | Nil | Nil         | Nil | Nil | No data              |
| Kombolcha                        | Nil         | Nil | Nil | 2.0                      |     |     | 7.9          |     |     | Nil         | Nil | Nil | Nil         | Nil | Nil | No data              |
| Kersa                            | Nil         | Nil | Nil | Nil                      | Nil | Nil | Nil          | Nil | Nil | Nil         | Nil | Nil | 4.2         |     |     | No data              |
| Meta                             | Nil         | Nil | Nil | 16.5                     |     |     | Nil          | Nil | Nil | Nil         | Nil | Nil | 9.8         |     |     | No data              |
| <b>Total</b>                     | <b>36.4</b> |     |     | <b>64.6</b>              |     |     | <b>102.7</b> |     |     | <b>18.4</b> |     |     | <b>55.6</b> |     |     | No data              |
| <b>Total volume of seed (MT)</b> |             |     |     | <b>642.0<sup>z</sup></b> |     |     |              |     |     |             |     |     |             |     |     |                      |

<sup>z</sup> including 364.3 MT un accounted seed by the DPPC but distributed by HCS (See Table 6)

Source: EHZ DPPC

**Table 4d.** Crop type, quantity of seed (MT) distributed and beneficiaries targeted in East Hararghe under seed aid operation in 2002-03

| Woreda                           | Tef       | HH   | Ha  | Wheat         | HH   | Ha    | Maize        | HH   | Ha   | Sorghum      | HH    | Ha   | DB           | HH   | Ha  | Actually targeted HH |
|----------------------------------|-----------|------|-----|---------------|------|-------|--------------|------|------|--------------|-------|------|--------------|------|-----|----------------------|
| Golo Oda                         | Nil       | Nil  | Nil | Nil           | Nil  | Nil   | 28.7         | 4600 | 1148 | 23           | 4600  | 2300 | Nil          | Nil  | Nil | 4600                 |
| Bedeno                           | 10        | 1333 |     | Nil           | Nil  | Nil   | 30           | 4800 | 1200 | 10           | 4000  | 1000 | 10           | 1000 | 100 | 10133                |
| Grawa                            | 8.4       | 560  |     | Nil           | Nil  | Nil   | 10           | 1600 | 400  | 14.1         | 2810  | 1410 | Nil          | Nil  | Nil | 4970                 |
| Kurfachele                       | Nil       | Nil  | Nil | Nil           | Nil  | Nil   | 50           | 8000 | 2000 | 20           | 4000  | 2000 | Nil          | Nil  | Nil | 12000                |
| Alemaya                          | Nil       | Nil  | Nil | Nil           | Nil  | Nil   | 25.1         | 4016 | 1004 | 35.5         | 7100  | 3550 | Nil          | Nil  | Nil | 11116                |
| Gorogutu                         | Nil       | Nil  | Nil | 53.6          | 1429 | 357.3 | 11.8         | 1888 | 472  | 9.5          | 1900  | 950  | 11.8         | 1180 | 118 | 5217                 |
| Deder                            | Nil       | Nil  | Nil | Nil           | Nil  | Nil   | 14.3         | 2280 | 572  | 11.4         | 2280  | 1140 | 28.5         | 2850 | 285 | 4560                 |
| Melka Belo                       | 15        | 2000 |     | Nil           | Nil  | Nil   | 30           | 4800 | 4800 | 35           | 7000  | 3500 | 20           | 2000 | 200 | 13800                |
| Fedis                            | Nil       | Nil  | Nil | Nil           | Nil  | Nil   | 25           | 4000 | 1000 | 75           | 15000 | 7500 | 50           | 5000 | 500 | 19000                |
| Babile                           | Nil       | Nil  | Nil | Nil           | Nil  | Nil   | 27.5         | 4400 | 1100 | 25           | 5000  | 2500 | Nil          | Nil  | Nil | 9400                 |
| Gursum                           | 19.6      | 2612 |     | Nil           | Nil  | Nil   | 20.7         | 3312 | 828  | Nil          | Nil   | Nil  | Nil          | Nil  | Nil | 5924                 |
| Jarso                            | Nil       | Nil  | Nil | 15            | 400  | 100   | 20           | 3200 | 800  | 4.8          | 960   | 480  | 10           | 1000 | 100 | 4560                 |
| Kombolcha                        | Nil       | Nil  | Nil | 28            | 747  | 186.7 | 21.2         | 3392 | 848  | 7.4          | 2960  | 740  | 25.5         | 2550 | 255 | 7099                 |
| Kersa                            | Nil       | Nil  | Nil | 33            | 880  | 220   | 35           | 5600 | 1400 | 40           | 8000  | 4000 | 40           | 4000 | 400 | 14480                |
| Meta                             | Nil       | Nil  | Nil | 45            | 1200 | 300   | 40           | 6400 | 1600 | 35           | 7000  | 3500 | 35           | 2800 | 350 | 14600                |
| Meyu                             | Nil       | Nil  | Nil | Nil           | Nil  | Nil   | 20.5         | 3280 | 820  | 16.4         | 3280  | 1640 | Nil          | Nil  | Nil | 3280                 |
| <b>Total</b>                     | <b>43</b> |      |     | <b>174.6</b>  |      |       | <b>409.8</b> |      |      | <b>362.1</b> |       |      | <b>230.8</b> |      |     | <b>144739</b>        |
| <b>Total volume of seed (MT)</b> |           |      |     | <b>1220.3</b> |      |       |              |      |      |              |       |      |              |      |     |                      |
| <b>Total number of HH</b>        |           |      |     | <b>144739</b> |      |       |              |      |      |              |       |      |              |      |     |                      |

Source: EHZ DPPC

**Table 4e.** Crop type, quantity of seed (MT) distributed and beneficiaries targeted in East Hararghe under seed aid operation in 2003-04

| Woreda                           | Tef         | HH   | Ha  | Wheat        | HH   | Ha    | Maize        | HH   | Ha   | Sorghum      | HH   | Ha   | DB           | HH   | Ha  | Actual targeted HH |
|----------------------------------|-------------|------|-----|--------------|------|-------|--------------|------|------|--------------|------|------|--------------|------|-----|--------------------|
| Golo Oda                         | Nil         | Nil  | Nil | Nil          | Nil  | Nil   | 15           | 1200 | 600  | 15           | 3000 | 1500 | Nil          | Nil  | Nil | 4200               |
| Bedeno                           | 9.9         | 1320 |     | Nil          | Nil  | Nil   | 20           | 1600 | 800  | Nil          | Nil  | Nil  | Nil          | Nil  | Nil | 2920               |
| Grawa                            | Nil         | Nil  | Nil | 37           | 984  | 246.7 | 15           | 1200 | 600  | 15           | 3000 | 1500 | Nil          | Nil  | Nil | 5184               |
| Kurfachele                       | Nil         | Nil  | Nil | 25.8         | 688  | 172   | 15           | 1200 | 600  | 7.5          | 1500 | 750  | 13.5         | 2700 | 135 | 3380               |
| Alemaya                          | Nil         | Nil  | Nil | Nil          | Nil  | Nil   | 7            | 560  | 280  | 8.5          | 1700 | 850  | 11.3         | 2260 | 113 | 2260               |
| Gorogutu                         | Nil         | Nil  | Nil | 24           | 640  | 160   | 15           | 1200 | 600  | 10           | 2000 | 1000 | 16           | 3200 | 160 | 3840               |
| Deder                            | Nil         | Nil  | Nil | 34.8         | 2000 | 232   | 25           | 928  | 1000 | Nil          | Nil  | Nil  | Nil          | Nil  | Nil | 2928               |
| Melka Belo                       | 5.1         | 680  |     | 6.6          | 176  | 44    | 10           | 800  | 400  | 10           | 2000 | 1000 | Nil          | Nil  | Nil | 3656               |
| Fedis                            | Nil         | Nil  | Nil | Nil          | Nil  | Nil   | 40           | 3200 | 1600 | 25           | 5000 | 2500 | Nil          | Nil  | Nil | 8200               |
| Babile                           | Nil         | Nil  | Nil | Nil          | Nil  | Nil   | 15           | 1200 | 600  | 10           | 2000 | 1000 | 16           | 3200 | 160 | 3200               |
| Gursum                           | 6.9         | 920  |     | Nil          | Nil  | Nil   | 20           | 1600 | 800  | 15           | 3000 | 1500 | 23           | 4600 | 230 | 5520               |
| Jarso                            | Nil         | Nil  | Nil | 15.6         | 416  | 104   | 10           | 800  | 400  | 7.5          | 1500 | 750  | 11.5         | 2300 | 115 | 2716               |
| Kombolcha                        | Nil         | Nil  | Nil | 9.9          | 264  | 66    | 6.2          | 500  | 248  | 7.5          | 1500 | 750  | 10           | 2000 | 100 | 2264               |
| Kersa                            | Nil         | Nil  | Nil | 19.5         | 520  | 130   | 10           | 800  | 400  | 10           | 2000 | 1000 | 14           | 2800 | 140 | 3320               |
| Meta                             | Nil         | Nil  | Nil | 14.5         | 392  | 96.7  | 12.5         | 1000 | 500  | 7.5          | 1500 | 750  | 12.5         | 2500 | 125 | 2892               |
| Meyu                             | Nil         | Nil  | Nil | Nil          | Nil  | Nil   | 20           | 1600 | 800  | 10           | 2000 | 1000 | Nil          | Nil  | Nil | 3600               |
| <b>Total</b>                     | <b>21.9</b> |      |     | <b>187.6</b> |      |       | <b>255.7</b> |      |      | <b>158.8</b> |      |      | <b>127.8</b> |      |     | <b>60080</b>       |
| <b>Total volume of seed (MT)</b> |             |      |     | <b>751.8</b> |      |       |              |      |      |              |      |      |              |      |     |                    |
| <b>Total number of HH</b>        |             |      |     | <b>60080</b> |      |       |              |      |      |              |      |      |              |      |     |                    |

Source: EHZ DPPC



**Table 5a.** Crop type, quantity of seed (MT) distributed and beneficiaries targeted in West Hararghe under seed aid operation in 2001-02

| <b>Woreda</b>                    | <b>Tef</b>   | <b>HH</b>    | <b>Ha</b>   | <b>Chickpea</b> | <b>HH</b>    | <b>Ha</b>   | <b>Wheat</b> | <b>HH</b>   | <b>Ha</b>  | <b>Barley</b> | <b>HH</b>    | <b>Ha</b>  | <b>Maize</b> | <b>HH</b>   | <b>Ha</b>   |
|----------------------------------|--------------|--------------|-------------|-----------------|--------------|-------------|--------------|-------------|------------|---------------|--------------|------------|--------------|-------------|-------------|
| Boke                             | 11.8         | 1652         | 393         | 58.1            | 5090         | 581         | Nil          | Nil         | Nil        | Nil           | Nil          | Nil        | Nil          | Nil         | Nil         |
| Mesela                           | 6.8          | 1364         | 272         | 15.7            | 1395         | 174         | 10.0         | 927         | 67         | 84.0          | 820          | 560        | Nil          | Nil         | Nil         |
| Tulo                             | 39.4         | 3940         | 1303        | 49.9            | 4990         | 555         | Nil          | Nil         | Nil        | Nil           | Nil          | Nil        | Nil          | Nil         | Nil         |
| Dobba                            | 11.8         | 1180         | 393         | 21.9            | 2160         | 240         | Nil          | Nil         | Nil        | 17.0          | 850          | 113        | 5.0          | 500         | 164         |
| Anchar                           | 27.2         | 5756         | 1813        | 49.7            | 5756         | 613         | 40.5         | 5756        | 270        | Nil           | Nil          | Nil        | Nil          | Nil         | Nil         |
| Goba<br>Koricha                  | 10.6         | 1413         | 354         | 43.0            | 3876         | 538         | Nil          | Nil         | Nil        | Nil           | Nil          | Nil        | Nil          | Nil         | Nil         |
| Miesso                           | 6.8          | 272          | 226         | 21.8            | 872          | 242         | Nil          | Nil         | Nil        | Nil           | Nil          | Nil        | 30.0         | 1200        | 1500        |
| Kuni                             | 9.8          | 1274         | 319         | 28.3            | 1867         | 471         | Nil          | Nil         | Nil        | Nil           | Nil          | Nil        | Nil          | Nil         | Nil         |
| Chiro                            | 51.4         | 10710        | 1700        | 66.9            | 10710        | 743         | Nil          | Nil         | Nil        | 30.0          | 10710        | 200        | Nil          | Nil         | Nil         |
| Habro                            | 18.8         | 4406         | 627         | 41.1            | 2055         | 514         | Nil          | Nil         | Nil        | 8.6           | 4406         | 57         | Nil          | Nil         | Nil         |
| Daro<br>Lebu                     | 12.2         | 814          | 407         | 242.0           | 2420         | 303         | Nil          | Nil         | Nil        | Nil           | Nil          | Nil        | Nil          | Nil         | Nil         |
| <b>Total</b>                     | <b>206.6</b> | <b>32781</b> | <b>7808</b> | <b>638.4</b>    | <b>41191</b> | <b>4974</b> | <b>50.5</b>  | <b>6683</b> | <b>337</b> | <b>139.6</b>  | <b>16786</b> | <b>930</b> | <b>35.0</b>  | <b>1700</b> | <b>1664</b> |
| <b>Total volume of seed (MT)</b> |              |              |             | <b>1070.1</b>   |              |             |              |             |            |               |              |            |              |             |             |
| <b>Total number of HH</b>        |              |              |             | <b>99141</b>    |              |             |              |             |            |               |              |            |              |             |             |

Source: WH zone DPPC

**Table 5b.** Crop type, quantity of seed (MT) distributed and beneficiaries targeted in West Hararghe under seed aid operation in 2002-03

| Woreda                           | Tef       | HH          | Ha         | Chickpea      | HH           | Ha          | Wheat     | HH          | Ha         | Barley     | HH          | Ha        | Maize        | HH           | Ha           | Sorghum      | HH            | Ha           | DB         | HH           | Ha          |
|----------------------------------|-----------|-------------|------------|---------------|--------------|-------------|-----------|-------------|------------|------------|-------------|-----------|--------------|--------------|--------------|--------------|---------------|--------------|------------|--------------|-------------|
| Boke                             | Nil       | Nil         | Nil        | 180           | 8002         | 2000        | Nil       | Nil         | Nil        | Nil        | Nil         | Nil       | 243          | 23148        | 8100         | 138.3        | 17561         | 13830        | 63.5       | 17561        | 635         |
| Mesela                           | Nil       | Nil         | Nil        | Nil           | Nil          | Nil         | Nil       | Nil         | Nil        | Nil        | Nil         | Nil       | 13.4         | 1072         | 447          | 1.7          | 340           | 170          | Nil        | Nil          | Nil         |
| Tulo                             | Nil       | Nil         | Nil        | Nil           | Nil          | Nil         | Nil       | Nil         | Nil        | Nil        | Nil         | Nil       | 2.3          | 460          | 77           | 4.6          | 1720          | 460          | Nil        | Nil          | Nil         |
| Dobba                            | Nil       | Nil         | Nil        | Nil           | Nil          | Nil         | 39        | 2053        | 256        | Nil        | Nil         | Nil       | 59.0         | 5833         | 1967         | 15.2         | 21505         | 1520         | 26.2       | 3311         | 262         |
| Anchar                           | Nil       | Nil         | Nil        | Nil           | Nil          | Nil         | Nil       | Nil         | Nil        | Nil        | Nil         | Nil       | 59.9         | 5985         | 1997         | 5.0          | 1000          | 500          | Nil        | Nil          | Nil         |
| Goba<br>Koricha                  | Nil       | Nil         | Nil        | Nil           | Nil          | Nil         | 25        | 708         | 167        | 5.2        | 1060        | 35        | 67.4         | 6740         | 2247         | 28.0         | 3210          | 2790         | 45.0       | 4230         | 450         |
| Miesso                           | 10        | 2000        | 330        | 10            | 2000         | 110         | Nil       | Nil         | Nil        | Nil        | Nil         | Nil       | 84.1         | 4143         | 2803         | 123.3        | 17316         | 12330        | 50.0       | 8000         | 500         |
| Kuni                             | Nil       | Nil         | Nil        | Nil           | Nil          | Nil         | Nil       | Nil         | Nil        | Nil        | Nil         | Nil       | 80.0         | 8600         | 2667         | 6.7          | 1669          | 957          | Nil        | Nil          | Nil         |
| Chiro                            | Nil       | Nil         | Nil        | Nil           | Nil          | Nil         | Nil       | Nil         | Nil        | Nil        | Nil         | Nil       | 110.4        | 14652        | 3680         | 24.6         | 24920         | 2460         | Nil        | Nil          | Nil         |
| Habro                            | Nil       | Nil         | Nil        | Nil           | Nil          | Nil         | Nil       | Nil         | Nil        | Nil        | Nil         | Nil       | 14.0         | 2800         | 467          | 112.0        | 21400         | 11200        | Nil        | Nil          | Nil         |
| Daro<br>Lebu                     | Nil       | Nil         | Nil        | Nil           | Nil          | Nil         | Nil       | Nil         | Nil        | Nil        | Nil         | Nil       | 169.3        | 16969        | 5643         | 180.3        | 16969         | 18030        | 169.3      | 16969        | 1693        |
| <b>Total</b>                     | <b>10</b> | <b>2000</b> | <b>330</b> | <b>190</b>    | <b>10002</b> | <b>2110</b> | <b>64</b> | <b>2761</b> | <b>423</b> | <b>5.2</b> | <b>1060</b> | <b>35</b> | <b>902.8</b> | <b>90402</b> | <b>30095</b> | <b>639.6</b> | <b>127610</b> | <b>64247</b> | <b>354</b> | <b>50071</b> | <b>3540</b> |
| <b>Total volume of seed (MT)</b> |           |             |            | <b>2165.6</b> |              |             |           |             |            |            |             |           |              |              |              |              |               |              |            |              |             |
| <b>Total number of HH</b>        |           |             |            | <b>283906</b> |              |             |           |             |            |            |             |           |              |              |              |              |               |              |            |              |             |

Source: WH zone DPPC

**Table 6.** Crop seed purchased and distributed from 2000-2001 to 2003-2004 in West and East Hararghe zones and Dire Dawa Administrative council by HCS

| Zone          | Crop             | Cultivar         | 2000-01       |               | 2001-02       |               | 2002-03       |               | 2003-04       |               |
|---------------|------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|               |                  |                  | Quantity (MT) | Beneficiaries | Quantity (MT) | Beneficiaries | Quantity (MT) | Beneficiaries | Quantity (MT) | Beneficiaries |
| East Hararghe | Wheat            | HAR-1685         | 30.4          |               | 29.2          |               | 30.0          |               | 7.0           |               |
|               | Sorghum          | Local            | 0.0           |               | 43.3          |               | 63.9          |               | 2.1           |               |
|               | Maize            | Local            | 49.0          |               | 70.0          |               | 35.0          |               | 13.3          |               |
|               | Barley           | Local            | 12.3          |               | 1.0           |               | 0.0           |               | 0.0           |               |
|               | Tef              | Local            | 5.8           |               | 0.0           |               | 10.0          |               | 44.3          |               |
|               | Faba bean        | Local            | 0.0           |               | 0.0           |               | 0.0           |               | 3.8           |               |
|               | Dry bean         | Mexican-142      | 114.6         |               | 178.2         |               | 169.7         |               | 56.7          |               |
|               | Chickpea         | Local            | 0.0           |               | 42.5          |               | 15.0          |               | 72.3          |               |
|               | Sesame           | Local            | 0.0           |               | 0.0           |               | 0.0           |               | 0.4           |               |
|               | <b>Sub-total</b> | -                | <b>212.1</b>  | <b>15855</b>  | <b>364.3</b>  | <b>34451</b>  | <b>323.6</b>  | <b>41761</b>  | <b>199.9</b>  | <b>26776</b>  |
| West Hararghe | Wheat            | HAR-1685         | 22.0          |               | 20.7          |               | 49.3          |               | 0.0           |               |
|               | Sorghum          | Local            | 0.0           |               | 0.3           |               | 6.6           |               | 0.0           |               |
|               | Maize            | Local            | 0.7           |               | 0.7           |               | 70.2          |               | 0.0           |               |
|               | Barley           | Local            | 0.0           |               | 0.0           |               | 0.8           |               | 0.0           |               |
|               | Faba bean        | Local            | 0.0           |               | 0.0           |               | 7.6           |               | 0.0           |               |
|               | Dry bean         | Mexican-142      | 22.1          |               | 23.2          |               | 42.8          |               | 0.0           |               |
|               | Chickpea         | Local            | 0.0           |               | 0.0           |               | 0.0           |               | 60.4          |               |
|               |                  | <b>Sub-total</b> |               | <b>44.8</b>   | <b>4012</b>   | <b>44.9</b>   | <b>4076</b>   | <b>177.3</b>  | <b>9395</b>   | <b>60.4</b>   |
| Dire Dawa     | Sorghum          | Local            | 0.0           |               | 0.0           |               | 17.4          |               | 0.0           |               |
|               | Maize            | Local            | 0.0           |               | 0.0           |               | 12.6          |               | 0.0           |               |
|               | Dry bean         | Mexican-142      | 0.0           |               | 0.0           |               | 15.5          |               | 0.0           |               |
|               |                  | <b>Sub-total</b> |               | <b>0.0</b>    | <b>0</b>      | <b>0.0</b>    | <b>0</b>      | <b>45.5</b>   | <b>9396</b>   | <b>0.0</b>    |

Source: HCS Dire Dawa

**Table 7a.** Seed donated by different donors to the different woredas of East Hararghe Zone (2000-01)

| Woreda       | Donor  | Quantity (MT)      |                      |                    |                       |                  |                       | Remark on woreda                     |
|--------------|--------|--------------------|----------------------|--------------------|-----------------------|------------------|-----------------------|--------------------------------------|
|              |        | Maize <sup>U</sup> | Sorghum <sup>V</sup> | Wheat <sup>W</sup> | Dry bean <sup>X</sup> | Tef <sup>Y</sup> | Chickpea <sup>Z</sup> |                                      |
| Golo Oda     | FAO    | 20.0               | 5.0                  | -                  | -                     | -                | -                     | Largely mid alt drought prone        |
| Bedeno       | FAO    | 19.7               | -                    | 20.0               | -                     | 7.8              | -                     | Largely mid alt drought prone        |
| Grawa        | FAO    | 20.4               | 2.8                  | 18.2               | -                     | 7.8              | -                     | Largely highland                     |
| Kurfachele   | FAO    | 15.1               | 2.5                  | 15.0               | -                     | -                | -                     | Largely highland                     |
|              | CARE   | -                  | -                    | 50.0               | 40.0                  | -                | -                     |                                      |
|              | GO-Eth | -                  | -                    | 7.0                | -                     | -                | -                     |                                      |
| Alemaya      | FAO    | -                  | 2.0                  | -                  | -                     | -                | -                     | -                                    |
|              | SHDI   | -                  | -                    | -                  | 20.0                  | -                | 10.4                  |                                      |
| Gorogutu     | FAO    | 5.0                | -                    | 8.0                | -                     | -                | -                     | Highland with drought prone lowlands |
|              | HCS    | 5.9                | -                    | -                  | 15.0                  | -                | -                     |                                      |
| Deder        | FAO    | 3.0                | -                    | -                  | -                     | -                | -                     | Largely highland                     |
|              | WLF    |                    |                      |                    |                       |                  | 10.0                  |                                      |
| Melka Belo   | FAO    | 17.0               | 3.5                  | 17.0               | -                     | 10.0             | -                     |                                      |
|              | WLF    |                    |                      |                    |                       |                  | 10.0                  |                                      |
| Fedis        | FAO    | -                  | 28.9                 | 10.0               | -                     | -                | -                     | Largely mid to low alt drought prone |
|              | CISP   | -                  | 5.6                  | -                  | 10.0                  | -                | -                     |                                      |
| Babile       | FAO    | 17.0               | 2.5                  | -                  | -                     | -                | -                     | Largely mid to low alt drought prone |
|              | CISP   | 3.0                | -                    | -                  | -                     | -                | -                     |                                      |
|              | MFM    | 94.1               | -                    | -                  | 20.0                  | -                | -                     |                                      |
| Gursum       | FAO    | 13.7               | 2.5                  | 30.0               | -                     | 10.0             | -                     | Largely mid to low alt drought prone |
|              | MFM    | 71.9               | -                    | -                  | 24.0                  | -                | -                     |                                      |
| Jarso        | FAO    | 5.0                | -                    | 10.0               | -                     | -                | -                     | Largely highland                     |
|              | HCS    | 10.0               | -                    | 59.3               | 15.0                  | -                | -                     |                                      |
| Kombolcha    | FAO    | 1.7                | -                    | -                  | -                     | -                | -                     | Largely highland                     |
|              | HCS    | 2.6                | -                    | 14.1               | 6.8                   | -                | -                     |                                      |
| Kersa        | FAO    | 15.2               | -                    | 25.0               | -                     | 5.0              | -                     | Largely midland                      |
|              | CSIP   | -                  | -                    | -                  | 20.0                  | -                | -                     |                                      |
| Meta         | FAO    | 10.0               | -                    | 24.0               | -                     | 5.0              | -                     | Largely highland                     |
|              | HCS    | 17.0               | -                    | 68.0               | 10.0                  | 10.0             | -                     |                                      |
| <b>Total</b> |        | <b>367.3</b>       | <b>55.3</b>          | <b>382.6</b>       | <b>180.8</b>          | <b>55.6</b>      | <b>30.4</b>           |                                      |

<sup>U</sup> Maize varieties include A-511 (OPV suitable for mid alt drought prone areas), BH-140 (hybrid suitable for mid alt low rainfall areas) and unidentified local cultivars

<sup>V</sup> All sorghum varieties were local varieties, <sup>W</sup> Wheat varieties include HAR-1685 (Kubsa) and ET-13, <sup>X</sup> Dry bean varieties include Mexican-142, Awash-1 and the local variety Red Wolayita, <sup>Y</sup> All tef varieties were local varieties, <sup>Z</sup> All chickpea varieties were local varieties

**Source:** EHZ-DPPC and respective donors

**Table 7b.** Total number of HH who received seed aid in 2000-01 in different woredas in East Hararghe zone

| <b>Woreda</b> | <b>Donor</b>      | <b>Crop</b> | <b>HH</b>    |
|---------------|-------------------|-------------|--------------|
| Golo Oda      | FAO               | Maize       | 1600         |
|               |                   | Sorghum     | 1000         |
| Bedeno        | FAO               | Tef         | 1042         |
|               |                   | Wheat       | 527          |
|               |                   | Maize       | 3152         |
| Grawa         | FAO               | Tef         | 517          |
|               |                   | Wheat       | 238          |
|               |                   | Maize       | 1545         |
|               |                   | Sorghum     | 562          |
| Kurfachele    | GO-Eth, FAO, CARE | Wheat       | 1713         |
|               | CARE              | Dry bean    | 1334         |
|               | FAO               | Maize       | 2400         |
|               |                   | Sorghum     | 400          |
| Alemaya       | SHDI              | Chickpea    | 832          |
|               |                   | Dry bean    | 1002         |
|               | FAO               | Sorghum     | 400          |
| Gorogutu      | FAO, HCS          | Wheat       | 312          |
|               |                   | Maize       | 1264         |
|               | HCS               | Dry bean    | 750          |
| Deder         | WLF               | Chickpea    | 500          |
|               | FAO               | Maize       | 240          |
| Melka Belo    | FAO               | Tef         | 667          |
|               |                   | Wheat       | 240          |
|               |                   | Maize       | 1360         |
|               |                   | Sorghum     | 700          |
|               | WLF               | Chickpea    | 1000         |
| Fedis         | FAO               | Wheat       | 269          |
|               | CISP              | Dry bean    | 1000         |
|               | FAO, CISP         | Sorghum     | 5762         |
| Babile        | MFM               | Dry bean    | 1330         |
|               | MFM, FAO, CISP    | Maize       | 9128         |
|               | FAO               | Sorghum     | 500          |
| Gursum        | FAO               | Tef         | 533          |
|               |                   | Wheat       | 400          |
|               |                   | Sorghum     | 500          |
|               | MFM               | Dry bean    | 5954         |
|               | MFM, FAO          | Maize       | 6821         |
| Jarso         | HCS, FAO          | Wheat       | 2079         |
|               |                   | Maize       | 2000         |
|               | HCS               | Dry bean    | 750          |
| Kombolcha     | HCS               | Wheat       | 752          |
|               |                   | Dry bean    | 1360         |
|               | HCS, FAO          | Maize       | 344          |
|               | FAO               | Veggies     | 165          |
| Kersa         | FAO               | Tef         | 667          |
|               |                   | Wheat       | 835          |
|               |                   | Maize       | 1216         |
|               | CISP              | Dry bean    | 2000         |
| Meta          | HCS, FAO          | Tef         | 3999         |
|               |                   | Wheat       | 2440         |
|               |                   | Maize       | 4320         |
|               | HCS               | Dry bean    | 800          |
| <b>Total</b>  |                   |             | <b>81221</b> |

**Source:** EHZ-DPPC and respective donors

**Table 7c.** Quantity of seed supplied to the 15 woredas in east Hararghe zone between 1999-2000 and 2003-04

| <b>Year</b>      | <b>Crop</b> | <b>Quantity (MT)</b>   |
|------------------|-------------|------------------------|
| <b>1999-2000</b> | Sorghum     | 284.9                  |
|                  | Wheat       | 569.8                  |
|                  | Maize       | 298.9                  |
|                  | Tef         | 106.7                  |
|                  | Dry bean    | 195.4                  |
|                  | Chickpea    | 65.8                   |
|                  | Groundnut   | 3.4                    |
| <b>Total</b>     |             | <b>1524.9</b>          |
| <b>2000-2001</b> | Sorghum     | 55.3                   |
|                  | Wheat       | 382.6                  |
|                  | Maize       | 367.3                  |
|                  | Tef         | 55.6                   |
|                  | Dry bean    | 180.8                  |
|                  | Chickpea    | 30.4                   |
| <b>Total</b>     |             | <b>1072</b>            |
| <b>2001-2002</b> | Sorghum     | 18.4 + 43.3            |
|                  | Wheat       | 64.6 + 29.2            |
|                  | Maize       | 102.7 + 70.0           |
|                  | Dry bean    | 55.6 + 178.2           |
|                  | Chickpea    | 36.4 + 42.5            |
|                  | Barley      | 0.0 + 1.0              |
| <b>Total</b>     |             | <b>642<sup>Z</sup></b> |
| <b>2002-2003</b> | Sorghum     | 362.05                 |
|                  | Wheat       | 174.6                  |
|                  | Maize       | 409.75                 |
|                  | Tef         | 43                     |
|                  | Dry bean    | 230.8                  |
| <b>Total</b>     |             | <b>1220.2</b>          |
| <b>2003-2004</b> | Sorghum     | 158.5                  |
|                  | Wheat       | 187.6                  |
|                  | Maize       | 255.7                  |
|                  | Tef         | 21.9                   |
|                  | Dry bean    | 127.8                  |
| <b>Total</b>     |             | <b>751.5</b>           |

<sup>Z</sup> including 364.3 MT not accounted by the DPPC but distributed by HCS (see Tables 4<sub>c</sub> and 6)

**Source:** EHZ-DPPC and respective donors

**Table 8a.** Seed donated by different donors to the different woredas of East Hararghe Zone (2001-02)

| Woreda             | Donor | Quantity (MT)          |                      |                    |                       |                       |
|--------------------|-------|------------------------|----------------------|--------------------|-----------------------|-----------------------|
|                    |       | Maize <sup>v</sup>     | Sorghum <sup>w</sup> | Wheat <sup>x</sup> | Dry bean <sup>y</sup> | Chickpea <sup>z</sup> |
| Golo Oda           | -     | -                      | -                    | -                  | -                     | -                     |
| Bedeno             | CARE  | 7.5                    | -                    | 6.1                | -                     | 10.0                  |
| Grawa              | CARE  | -                      | -                    | 12.1               | -                     | -                     |
| Kurfachele         | CARE  | 20.0                   | -                    | 8.7                | -                     | -                     |
| Alemaya            | SHDI  | 30.5                   | 9.8                  | -                  | 20.0                  | 15.3                  |
|                    | FAO   | -                      | 2.0                  | -                  | -                     | -                     |
| Gorogutu           | HCS   | -                      | -                    | -                  | 15.0                  | 4.9                   |
| Deder              | -     | -                      | -                    | -                  | -                     | -                     |
| Melka Belo         | -     | -                      | -                    | -                  | -                     | -                     |
| Fedis              | CISP  | 6.6                    | 2.4                  | -                  | 4.2                   | -                     |
| Babile             | MFM   | 20.0                   | 2.2                  | -                  | -                     | -                     |
|                    | CISP  | 4.6                    | -                    | -                  | 2.4                   | -                     |
| Gursum             | CISP  | 5.6                    | 2.0                  | -                  | -                     | 6.2                   |
| Jarso              | WLF   | -                      | -                    | 19.2               | -                     | -                     |
| Kombolcha          | HCS   | 6.2                    | -                    | 2.0                | -                     | -                     |
|                    | FAO   | 1.7                    | -                    | -                  | -                     | -                     |
| Kersa              | HCS   | -                      | -                    | -                  | 4.2                   | -                     |
| Meta               | HCS   | -                      | -                    | 16.5               | 9.8                   | -                     |
| <b>Total</b>       |       | <b>102.7</b>           | <b>18.4</b>          | <b>64.67</b>       | <b>55.6</b>           | <b>36.4</b>           |
| <b>Grand total</b> |       | <b>642<sup>z</sup></b> |                      |                    |                       |                       |

<sup>z</sup> including 364.3 MT not accounted by the DPPC but distributed by HCS (see Table 6)

Source: EHZ DPPC

**Table 9.** Seed donated by different donors to the different woredas of East Hararghe Zone in 2002-03

| Woreda             | Donor   | Quantity (MT)      |                      |                    |                       |                  |
|--------------------|---------|--------------------|----------------------|--------------------|-----------------------|------------------|
|                    |         | Maize <sup>v</sup> | Sorghum <sup>w</sup> | Wheat <sup>x</sup> | Dry bean <sup>y</sup> | Tef <sup>z</sup> |
| Golo Oda           | No data | 28.7               | 23.0-                | -                  | -                     | -                |
| Bedeno             | No data | 30.0               | 10.0                 | -                  | 10.0                  | 10.0             |
| Grawa              | No data | 10.0               | 14.1                 | -                  | -                     | 8.4              |
| Kurfachele         | No data | 50.0               | 20.0                 | -                  | -                     | -                |
| Alemaya            | No data | 25.1               | 35.5                 | -                  | -                     | -                |
| Gorogutu           | No data | 11.8               | 9.5                  | 53.6               | 11.8                  | -                |
| Deder              | No data | 14.3               | 11.4                 | -                  | 28.5                  | -                |
| Melka Belo         | No data | 30.0               | 35.0                 | -                  | 20.0                  | 15.0             |
| Fedis              | No data | 25.0               | 75.0                 | -                  | 50.0                  | -                |
| Babile             | No data | 27.5               | 25.0                 | -                  | -                     | -                |
| Gursum             | No data | 20.7               | -                    | -                  | -                     | 19.6             |
| Jarso              | No data | 20.0               | 4.8                  | 15.0               | 10.0                  | -                |
| Kombolcha          | No data | 21.2               | 7.4                  | 28.0               | 25.5                  | -                |
| Kersa              | No data | 35.0               | 40.0                 | 33.0               | 40.0                  | -                |
| Meta               | No data | 40                 | 35.0                 | 45.0               | 35.0                  | -                |
| Meyu               | No data | 20.5               | 16.4                 | -                  | -                     | -                |
| <b>Total</b>       |         | <b>409.8</b>       | <b>339.1</b>         | <b>174.6</b>       | <b>230.8</b>          | <b>53.0</b>      |
| <b>Grand total</b> |         | <b>1220.2</b>      |                      |                    |                       |                  |

<sup>v</sup> Awassa-511 (maize varieties that is suitable for mid altitude rain short areas) and Katumani (variety suitable for mid and low altitude drought prone areas and several unidentified local cultivars)

<sup>w</sup> Varieties suitable for mid altitude rain short areas because of early maturity (Gambella-1107) and striga tolerant varieties (Gubyie and Abshir) and several other local varieties were distributed

<sup>x</sup> The variety HAR-1685 (Kubsa) was the only MC whereas the other cultivars were local cultivars

<sup>y</sup> The only dry bean MC distributed was Mexican-142 whereas the rest was constituted by the largely grown local cultivar Red Wolayita

<sup>z</sup> What was distributed to farmers was all local cultivars collected from local traders and farmers

Source: EHZ DPPC

**Table 10.** Seed donated by different donors to the different woredas of East Hararghe Zone in 2003-04

| Woreda             | Donor   | Quantity (MT)      |                      |                    |                       |                  |
|--------------------|---------|--------------------|----------------------|--------------------|-----------------------|------------------|
|                    |         | Maize <sup>V</sup> | Sorghum <sup>W</sup> | Wheat <sup>X</sup> | Dry bean <sup>Y</sup> | Tef <sup>Z</sup> |
| Golo Oda           | No data | 15.0               | 15.0                 | -                  | -                     | -                |
| Bedeno             | No data | 20.0               | -                    | -                  | -                     | 9.9              |
| Grawa              | No data | 15.0               | 15.0                 | 36.9               | -                     | -                |
| Kurfachele         | No data | 15.0               | 7.5                  | 25.8               | 13.5                  | -                |
| Alemaya            | No data | 7.0                | 8.5                  | -                  | 11.3                  | -                |
| Gorogutu           | No data | 15.0               | 10.0                 | 24.0               | 16.0                  | -                |
| Deder              | No data | 25.0               | -                    | 34.8               | -                     | -                |
| Melka Belo         | No data | 10.0               | 10.0                 | 6.6                | -                     | 5.1              |
| Fedis              | No data | 40.0               | 25.0                 | -                  | -                     | -                |
| Babile             | No data | 15.0               | 10.0                 | -                  | 16.0                  | -                |
| Gursum             | No data | 20.0               | 15.0                 | -                  | 23.0                  | 6.9              |
| Jarso              | No data | 10.0               | 7.5                  | 15.6               | 11.5                  | -                |
| Kombolcha          | No data | 6.2                | 7.5                  | 9.9                | 10.0                  | -                |
| Kersa              | No data | 10.0               | 10.0                 | 19.5               | 14.0                  | -                |
| Meta               | No data | 12.5               | 7.5                  | 14.5               | 12.5                  | -                |
| Meyu               | No data | 20.0               | 10.0                 | -                  | -                     | -                |
| <b>Total</b>       |         | <b>255.7</b>       | <b>158.5</b>         | <b>187.6</b>       | <b>127.8</b>          | <b>21.9</b>      |
| <b>Grand total</b> |         | <b>751.5</b>       |                      |                    |                       |                  |

<sup>V</sup> Awassa-511 (maize varieties that is suitable for mid altitude rain short areas) and Katumani (variety suitable for mid and low altitude drought prone areas and several unidentified local cultivars)

<sup>W</sup> Varieties suitable for mid altitude rain short areas because of early maturity (Gambella-1107) and striga tolerant varieties (Gubye and Abshir) and several other local varieties were distributed

<sup>X</sup> The variety HAR-1685 (Kubsa) was the only MC whereas the other cultivars were local cultivars

<sup>Y</sup> The only dry bean MC distributed was Mexican-142 whereas the rest was constituted by the largely grown local cultivar Red Wolayita

<sup>Z</sup> What was distributed to farmers was all local cultivars collected from local traders and farmers

**Source:** EHZ DPPC



**Table 11.** Seed donated by different donors to the different woredas of West Hararghe Zone in 2002-03

| Woreda             | Donor | Maize <sup>V</sup> | Quantity (MT)        |             | Wheat <sup>X</sup> | Dry bean <sup>Y</sup> | Chickpea   | Barley    | Tef |
|--------------------|-------|--------------------|----------------------|-------------|--------------------|-----------------------|------------|-----------|-----|
|                    |       |                    | Sorghum <sup>W</sup> |             |                    |                       |            |           |     |
| Boke               | ICRC  | 88.1               | 138.3                | -           | -                  | 63.5                  | 180.1      | -         | -   |
|                    | ERCS  | 155                | -                    | -           | -                  | -                     | -          | -         | -   |
| Mesela             | Govt  | 13.4               | 1.7                  | -           | -                  | -                     | -          | -         | -   |
| Tulo               | Govt  | 2.3                | 4.6                  | -           | -                  | -                     | -          | -         | -   |
| Dobba              | Govt  | 5.8                | 4.6                  | -           | -                  | -                     | -          | -         | -   |
|                    | ERCS  | 43.5               | 10                   | 38.5        | -                  | -                     | -          | -         | -   |
|                    | CARE  | 9.7                | 0.6                  | -           | 1.3                | -                     | -          | -         | -   |
|                    | ESHA  | -                  | -                    | -           | 24.9               | -                     | -          | -         | -   |
| Anchar             | Govt  | 5                  | 5                    | -           | -                  | -                     | -          | -         | -   |
|                    | CARE  | 50                 | -                    | -           | -                  | -                     | -          | -         | -   |
|                    | HCS   | 4.9                | -                    | -           | -                  | -                     | -          | -         | -   |
| Goba Koricha       | FAO   | 7.4                | 23.7                 | 25          | 29.8               | -                     | 5.2        | -         | -   |
|                    | CARE  | 50                 | -                    | -           | -                  | -                     | -          | -         | -   |
|                    | HCS   | 10                 | 4.2                  | -           | 15.2               | -                     | -          | -         | -   |
| Mieso              | ICRC  | 2.62               | 1.31                 | -           | -                  | 10                    | -          | -         | 10  |
|                    | CARE  | 50                 | -                    | -           | -                  | -                     | -          | -         | -   |
|                    | FAO   | 11.5               | 90.1                 | -           | 20                 | -                     | -          | -         | -   |
|                    | HCS   | 20                 | 31.9                 | -           | 30                 | -                     | -          | -         | -   |
| Kuni               | Govt  | 30                 | 6.7                  | -           | -                  | -                     | -          | -         | -   |
|                    | CARE  | 50                 | -                    | -           | -                  | -                     | -          | -         | -   |
| Chiro              | Govt  | 60.4               | 24.6                 | -           | -                  | -                     | -          | -         | -   |
|                    | CARE  | 50                 | -                    | -           | -                  | -                     | -          | -         | -   |
| Habro              | Govt  | 14                 | 10                   | -           | -                  | -                     | -          | -         | -   |
|                    | MFM   | -                  | 102                  | -           | -                  | -                     | -          | -         | -   |
| Daro Lebu          | ICRC  | 169.3              | 180.3                | -           | 169.3              | -                     | -          | -         | -   |
| <b>Total</b>       | -     | <b>902.9</b>       | <b>639.6</b>         | <b>63.5</b> | <b>354.0</b>       | <b>190.1</b>          | <b>5.2</b> | <b>10</b> |     |
| <b>Grand total</b> |       | <b>2165.3</b>      |                      |             |                    |                       |            |           |     |

### LOCAL MARKET PRICES OF SEED

Data for Meta, Chiro and Dire Dawa is given in an attached Excel file (**File name:** LocalMarketSeedPrice). The prices are collected four times a month by the woreda BoA market price monitoring team. Prices given for each month are average of the four weekly prices. The price given refers to the direct selling price of farmers and, therefore, largely represents price received by petty grain traders (see Mulatu, 2003 for description).

**References**

Mulatu, E. 2003. Approaches to strengthen seed supply and marketing outlets at the local level in East Hararghe Zone. Unpublished consultancy report for the project 'Strengthening Seed Supply Systems at the Local Level' Project GCP/ETH/062/NOR, FAO Country Representative, Addis Ababa, Ethiopia