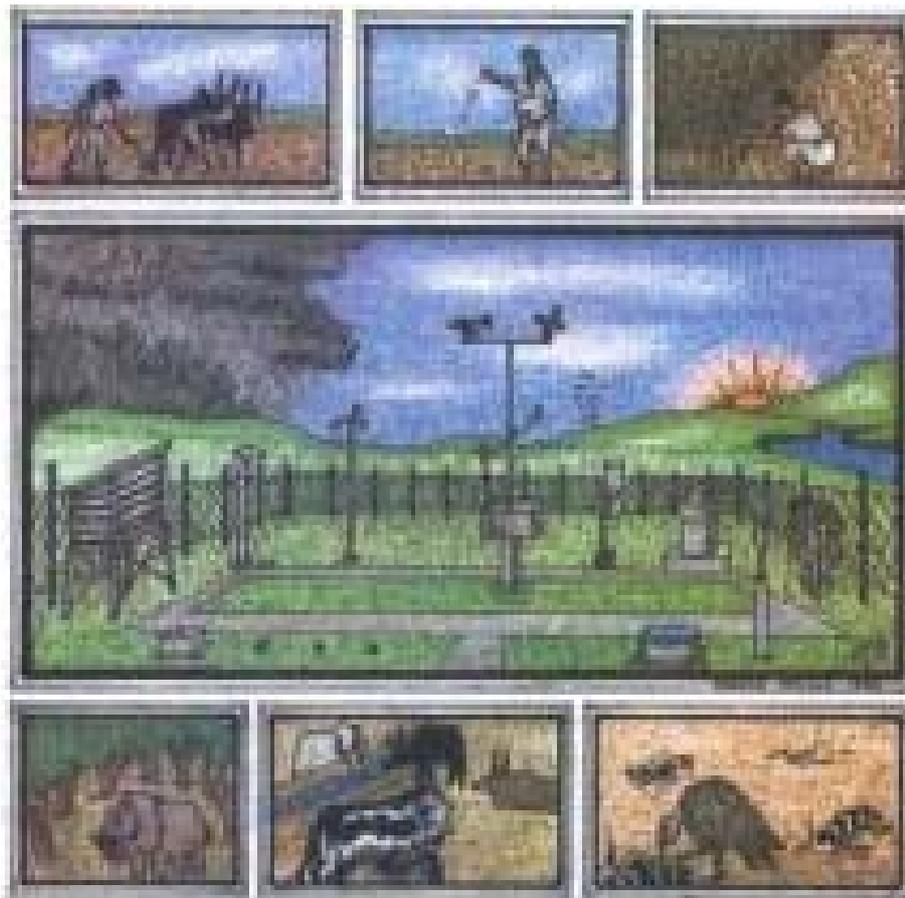


**NATIONAL METEOROLOGICAL SERVICES AGENCY AGROMETEOROLOGICAL
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FORE WARD

This Agro met Bulletin is prepared and disseminated by the National Meteorological Services Agency (NMSA). The aim is to provide those sectors of the community involved in Agriculture and related disciplines with the current weather situation in relation to known agricultural practices.

The information contained in the bulletin, if judiciously utilized, are believed to assist planners, decision makers and the farmers at large, through an appropriate media, in minimizing risks, increase efficiency, maximize yield. On the other hand, it is vital tool in monitoring crop/ weather conditions during the growing seasons, to be able to make more realistic assessment of the annual crop production before harvest.

The Agency disseminates ten daily, monthly and seasonal weather reports in which all the necessary current information's relevant to agriculture are compiled.

We are of the opinion that careful and continuous use of this bulletin can benefit to raise ones agro climate consciousness for improving agriculture-oriented practices. Meanwhile, your comments and constructive suggestions are highly appreciated to make the objective of this bulletin a success.

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አህጽሮት

እ.ኤ.አ ኤፕሪል 2006

እ.ኤ.አ በኤፕሪል 2006 በመጀመሪያው አስር ቀናት በአብዛኛው የበልግ ዝናብ ተጠቃሚ በሆኑት የአገሪቱ አካባቢዎች የነበረው የዝናብ መጠንና ሥርዓት በመካሄድ ላይ ላለው የግብርና እንቅስቃሴ አመቺ ሁኔታን እንደሚፈጥር ይታመናል። ነበር ይሁንና ከሰሜን በማይጨውና መቀሌ ከሰሜን ምሥራቅ በባቲ፣ ማጅቱና ሲሪንቃ፣ ከመካከለኛው በአርሲ ሮቤ፣ ቡኢ፣ ኩሉምሃና ዝዋይ ከደቡብ በአዋሳ፣ ደሎ መና፣ ሞያሌ፣ ሶዶና ባሌ ሮቤ እንዲሁም ከምሥራቅ በአለማያ፣ ሐረርና ሚኤሶ በአንድ ቀን ብቻ መጠኑ ከ30-75 ሚ.ሜትር የሚደርስ ከባድ ዝናብ ተመዝግቦባቸው ነበር። ከተጠቀሱት ስፍራዎች በባቲ ለሁለት ቀናት፣ በሐረር ለሦስት ቀናት፣ በሚኤሶ ለሦስት ቀናት፣ በሞያሌ በሦስት ቀናት ይው ከባድ ዝናብ ተመዝግቦ ነበር። ይህም ሁኔታ በተጠቀሱት አካባቢዎች በስርዓት ረገድ የነበረውን መዛባት የሚጠቁም ሲሆን፣ በአንዳንድ አካባቢዎችም እንደ ዝዋይና ጊኒር ባሉ ቦታዎች ጉዳት ማስከተሉ ከደረሰን ሪፖርት ማወቅ ተችሏል።

በሌላ በኩል በሶማሌ ደቡብና በደቡብ ምሥራቅ አካባቢዎች የታወቀ ከመበደኛ በታች የሆነ ዝናብ በአካባቢው የግጦሽ ሳርና ውሃ አቅርቦት ላይ አሉታዊ ተፅዕኖ እንደሚያሳድር እሙን ነው። በተጨማሪም በጋምቤላና ምዕራብ ኦሮሚያ ላይ የነበረው እጥረት ከአለፉት አሥር ቀናት ጋር በተያያዘ መልኩ ለአዝርዕትም ሆነ በአካባቢው በሚገኙ ዕዕዋት ላይ አሉታዊ ጎን አንደሚኖረው እሙን ነው። የአዝርዕት መረጃን በተመለከተ በደቡብ ደጋማ ስፍራዎች እንደ ክብረመንግሥት ጣቢያ ባሉት አካባቢዎች ስንዴ በመዘራት ላይ ነው። የአየር ሙቀትን በተመለከተ አሳይታ፣ ዱብቲ፣ ማንኩሽ፣ መተማ፣ ፓዊ፣ እና ሰመራ (ከ35.5-40.5°C) የሚደርስ ከፍተኛ ሙቀት ተመዝግቦባቸዋል።

እ.ኤ.አ በኤፕሪል 2006 ሁለተኛ አስር ቀናት በአብዛኛው ትግራይ፣ አማራ፣ ጥቂት የምዕራብ የመካከለኛውና የደቡብ ኦሮሚያ እንዲሁም የደቡብ ብሄር ብሄረሰቦችና ሕዝቦች በከፊል የታየው መደበኛና ከመደበኛ በላይ የሆነ ዝናብ ለወቅቱ የእርሻ እንቅስቃሴ አመቺ ሁኔታን እንደሚፈጥር ይታመናል። ሆኖም በአብዛኛው የአገሪቱ ክፍል ከመደበኛው በታች የዝናብ ሁኔታ የታየ ሲሆን ዝናብ ያገኙትም አካባቢዎች በአብዛኛው በአሥሩ ቀን ባሉት የመጨረሻ ሁለትና ሦስት ቀናት ነበር። በአንዳንድ አካባቢዎችም እንደ ሶዶ፣ መቀሌ፣ ጂንካ፣ ኮንሶ፣ እነዋሪ፣ ነገሌ፣ ነቀምቴ፣ ሆሃዕና፣ ጊንርና ሲሪንቃ ባሉት አካባቢዎች ከ30-83.4 ሚ.ሜትር ከባድ ዝናብ በአንድ ቀን ብቻ ተመዝግቦ ነበር። ይሁንና በሰብልም ሆነ በእንሰሳት ላይ የደረሰ የጉዳት ሪፖርት አልነበረም። ከዘጋቢ ጣቢያዎቻችን መካከል ድሬደዋ፣ መተሃራ፣ ጎዴ፣ ፓዊ፣ ማንኩሽ፣ አሳይታ፣ ዱብቲ፣ መተማና ሰመራ ከ35.5-40.8°C የሚደርስ ከፍተኛ የሙቀት መጠን ተመዝግቦባቸዋል።

እ.ኤ.አ በኤፕሪል ወር 2006 በሶስተኛው አስርተ ቀናት አብዛኛው የአገሪቱን ክፍል ያዳረሰ የዝናብ ስርዓት የታየ ሲሆን በአብዛኛው ከ3-7 በሆነ የዝናብ ቀናት የተገኘ ሲሆን በደቡብ ደጋማና የወይና ደጋማ ሥፍራዎች ከአሥሩ ቀን በዘጠኙ ቀናት በተከታታይ ዝናብ ያገኙ ሥፍራዎች ነበሩ። ይህም ሁኔታ የአገዳ የብርዕና የጥራጥሬ አዝርዕት የዘር ጊዜያቸው ለሆነው ከመካከለኛው እንደ መራሮ፣ ወሊሶ፣ ዝዋይ፣ ካቺሴና ናዝሬት ከደቡብ እንደ ያቤሎ፣ ነገሌ፣ ሞያሌና አዋሳ ከምዕራብ እንደ በደሌ፣

አልጌና ሊሙ ገነት ከምሥራቅ እንደ ጂጂጋና ዓለማዊ ከሰሜን ምሥራቅ እንደ ማጅቱ፣ ዓለም ከተማና ባቲ ላሉት አካባቢዎች አመቺ ሁኔታን እንደሚፈጥር እሙን ነው በተጨማሪም ቀደም ብለው ተዘርተው በማደግ ላይ ላሉ አዝርዕት የውሃ ፍላጎት ምቹ ሁኔታን ፈጥሮላቸው ነበር። ከዘጋቢ ጣቢያዎቻችን መካከል ያቤሎ፣ በደሌ፣ ሴኮሮ፣ ኮንሶ፣ ሳውላ፣ ጊንር፣ ሶዶ፣ ደምቢዶሎ፣ ገለምሶ፣ ብላቴ እና ሞያሌ 31.2፣ 32.0፣ 33.4፣ 33.7፣ 36.1፣ 38.3፣ 39.1፣ 41.5፣ 43.6 ፣48.0 እና 93.4 ሚ ሜ ከባድ ዝናብ በአንድ የዝናብ ቀን ብቻ እንደየቅደም ተከተላቸው መዝግበው ነበር። የአዝርዕትን እድገት በተመለከተ በአንዳንድ የምሥራቅ አማራ እንደ ማጅቱ ባሉ አካባቢዎች ጤፍ በማደግ ላይ የነበረ ሲሆን በደሎመና በአንዳንድ አካባቢዎች ሦስተኛ ቅጠል በማውጣት ላይ ነበር። ገብስ በምሥራቅ አማራ ማለትም እንደ ወገል ጤፍ እና ሲሪንቃ ባሉት አካባቢዎች ሦስተኛ ቅጠል በማውጣት ላይ ነበር። በቆሎ በደቡብ ኦሮሚያ አንዳንድ አካባቢዎች ማለትም በክብረመንግሥት በመብቀል ላይ ሲሆን በደሎመና ፍሬ በማውጣት ላይ ነበር። ሱፍ በመካከለኛው ኦሮሚያ እንደ አርሲ ሮቤ ባሉ አካባቢዎች እንቡጥ በማውጣት ደረጃ ላይ ነበር። የአየር ሙቀትን በተመለከተ መተማ፣ ማንኩሽ፣ ሰመራ፣ አሳይታ፣ መተሐራ፣ ጎዴ፣ ቻግኒ እና ድሬደዋ 42.5፣ 41.0፣ 40.5፣ 40.2፣ 39.3፣ 36.5፣ 35.0፣ እና 35.0 °C ከፍተኛ የአየር ሙቀት እንደየቅደም ተከተላቸው መዝግበው ነበር።

ጠቅለል ባለ መልኩ እ.ኤ.አ በኤፕሪል 2006 በአብዛኛዎቹ በልግ አብቃይ በሆኑት የአገሪቱ ክፍሎች የታየው መደበኛና ከመደበኛ በላይ የሆነ ዝናብ ቀደም ብለው በተዘሩትም ሆነ በውሩ በብቃድ ላይ ለነበሩት አዝርዕት የውሃ ፍላጎት አመቺ ሁኔታን እንደሚፈጥር ይታመናል። በተለይ በአብዛኛው የደቡብ ብሄር ብሄርሰቦችና ሕዝቦች በመካከለኛውና ደቡብ ኦሮሚያ አንዳንድ የምሥራቅ ኦሮሚያ ኪስ ቦታዎችን ጨምሮ የተገኘው ዝናብ ከ15-22 የዝናብ ቀናት በመሆኑ የነበረው ሥርጭት ለአዝርዕት እድገት አመቺ ሁኔታ ሊፈጥር እንደሚችል አመላካች ነው። በተጨማሪም በተለይ በደቡብ ምዕራብ ኦሮሚያ የነበረው ጥሩ የዝናብ ሥርጭትና መጠን በአርብቶ አደሩና ከፊል አርብቶ አደሩ አካባቢ ለግጦሽ ሣርና የውሃ አቅርቦት አመቺ ሁኔታን እንደሚፈጥር ይታመናል። በአንፃሩ ምንም እንኳን በአፋር የአርብቶ አደሩ አካባቢ በመጀመሪያው አሥር ቀናት ከ 2-3 የዝናብ ቀናት በጣለው ዝናብ ሳቢያ በውሩ አጠቃላይ የዝናብ ሁኔታ ከመደበኛውጋ ተነፃፅሮ በመቶኛ ሲሰላ ከመደበኛ በላይ እንደሆነ የሚጠቁም ቢሆንም (Figure 4) በሥርጭት እረገድ በሁለቱ ተከታታይ አሥር ቀናት እጥረት ታይቶበት ነበር። ይህም ሁኔታ በግጦሽ ሣርና ውሃ አቅርቦት ጫና ከማሳደሩም ባሻገር በአካባቢው ላሉ እፅዋት ልምላሚ ላይ አሉታዊ ተፅዕኖ ያሳድራል።

ከባድ ዝናብን በተመለከተ በብዙ ሥፍራዎች ላይ ከ30 ሚ.ሜትር በላይ ከባድ ዝናብ የተመዘገበ ሲሆን በቡኢ፣ በዝዋይ፣ በባቲ፣ በመቀሌ፣ በባቢሌ፣ በሲሪንቃ፣ በጉርሱምና በጊኒር ከ67-116 ሚ.ሜትር ከባድ ዝናብ በአንድ የዝናብ ቀን ብቻ ተመዝግቦባቸው ነበር። ይህም ሁኔታ ከፅዋት የውሃ ፍላጎት አንፃር ሲታይ የነበረውን ያልተስተካከለ የዝናብ ሥርጭት ይጠቁማል።

SUMMARY

APRIL 2006

During the first dekad of April 2006, the observed rainfall amount and distribution over most parts of Belg benefiting areas of the country could have significant positive contribution for the ongoing agricultural activities. Nevertheless in some areas like northern (Mekele, Michew), northeastern (Bati, Majete, Sirinka), central (Arsi Robe, Bui, kulumsa, Ziway), southern (Awassa, DoloMena, Moyale, Sodo, Bale Robe) and eastern (Alemya, Harar, Meiso) parts of the country exhibited heavy rainfall ranging from 30 – 75 mm in one rainy day. From the aforementioned areas, Bati, Harari, Meiso, and Moyale recorded heavy fall for 2- 3 days in the ten days period. This condition indicates the erratic nature of rainfall distribution observed in some areas. Besides, some areas like Ziway, and Ginir reported some damages due to heavy fall. On the other hand, the observed below normal rainfall over south and southeastern Somali could have a negative impact for the availability of pasture and drinking water in the areas. Moreover, the deficient moisture condition over Gambella, and western Oromia could exacerbate the moisture stress condition which persisted during the preceding dekads, thereby negatively affecting the water requirement of the existing crops and other vegetation like perennial plants, grasses and bushes. Pursuant to the crop phenological report, sowing of wheat was underway in some areas of southern midlands of Oromia like KibreMengist. With regard to air temperature, Assayta, Dubti, Mankush, Metema, Pawe and Semera experienced extreme maximum temperature ranging from 35.0 – 40.5⁰ C during the dekad under review.

During the second dekad of April the observed normal to above normal rainfall over most parts of Tigray, Amhara, few areas of western, central, and southern Oromia and SNNPR would have a conducive condition for Belg season agricultural activities. Although many parts of the country experienced below normal rainfall, some areas observed near normal rainfall at the end of the dekad for 2-3 days. Among the reporting stations, some areas like Sodo, Mekele, Jinka, Konso, Enewari, Negelle, Nekemte, Hosanna, Ginir and Sirinka recorded heavy rainfall ranging from 30 – 83.4 mm in one rainy day. We did not receive crop damage due to heavy fall. Regarding extreme maximum temperature, DireDawa, Methara, Gode Pawe, Mankush, Assayta, Dubti, Metema and Semera recorded extreme maximum temperature ranging from 35.5 – 40.8⁰ C.

During the third dekad of April 2006 the observed rainfall over most parts of Belg growing areas was in a good shape in terms of amount and distribution (observed in 3-7 rainy days in most areas). Besides, some midland and highlands of southern Ethiopia have exhibited falls in nine rainy days. Thus this condition could favor sowing activities of cereals and pulses in areas where sowing activity is under question like central (Meraro, Woliso, Ziway, Kachise and Adama), southern (Yabelo, Negele, Moyale and Awassa), western (Bedelle, Algea and Limu Genet), northeastern (Majete, Alem Ketema and Bati) and eastern highlands (Jijiga and Alemaya). Besides, the observed good rainfall amount and distribution favored crops, which were at different phenological stages. Among the reporting station Yabello, Bedelle, Sekoru, Konso, Sawela, Ginner, Sodo, Dembi Dolo, Gelemso, Belate, and Moyale received heavy rainfall 31.2, 32.0, 33.4, 33.7, 36.1, 38.3, 39.1, 41.5, 43.6, 48.0 and 93.4 mm in one rainy day, respectively.

Pursuant to crop phenological report, Teff was at shooting stage in some areas of eastern Amhara (Majete) and at third leaf stage in some areas of southern Oromiya (Dolo Mena); barely was at third leaf stage in some areas of eastern Amhara (Wegel Tena and Sirinka); maize was at emergence and wax ripeness stages in some areas of southern Oromia like Kibre Mengist and Dolo Mena, respectively; sunflower was at budding stage in some areas of central Oromia (Arsi Robe). With regard to air temperature, Metema, Mankush, Semera, Assayta, Metehara, Gode, Chagni and Dire Dawa recorded extreme maximum temperature as high as 42.5,41.0, 40.5,40.2, 39.3, 36.5, 35.0 and 35.0⁰C respectively.

Generally, the observed normal to above normal rainfall over most parts of Belg growing areas could favor the existing crops in the field which are at different phenological stages. Particularly the well distributed rainfall amount i.e. falls in 15 – 22 days during the month over most parts of SNNPR and pocket areas of eastern Oromia could support the normal growth and development of crops, which are found in the field. Moreover good rainfall amount and distribution observed during the month over pastoral and agro pastoral areas of southwestern Oromiya could favor the availability of pasture and drinking water. On the contrary even though the monthly cumulative percent of normal rainfall analysis (Figure 4) shows above normal rainfall distribution over most parts of Afar region due to the abundant rainfall in 2-3 rainy days in the first dekad of April 2006, there were areas that experienced deficient rainfall situation during the two consecutive dekads. This deficient condition could negatively affect the availability of pasture and drinking water in the areas. With regard to the conditions of heavy falls, heavy fall greater than 30 mm has been observed in one rainy day over most places. Among the reporting station Bui, Ziway, Bati, Mekele, Babile, Sirinka, Gursum and Ginir recorded 67 – 116 mm of heavy fall in a rainy day. This condition indicates that the erratic nature of rainfall distribution in the areas in terms of the crop water requirements.

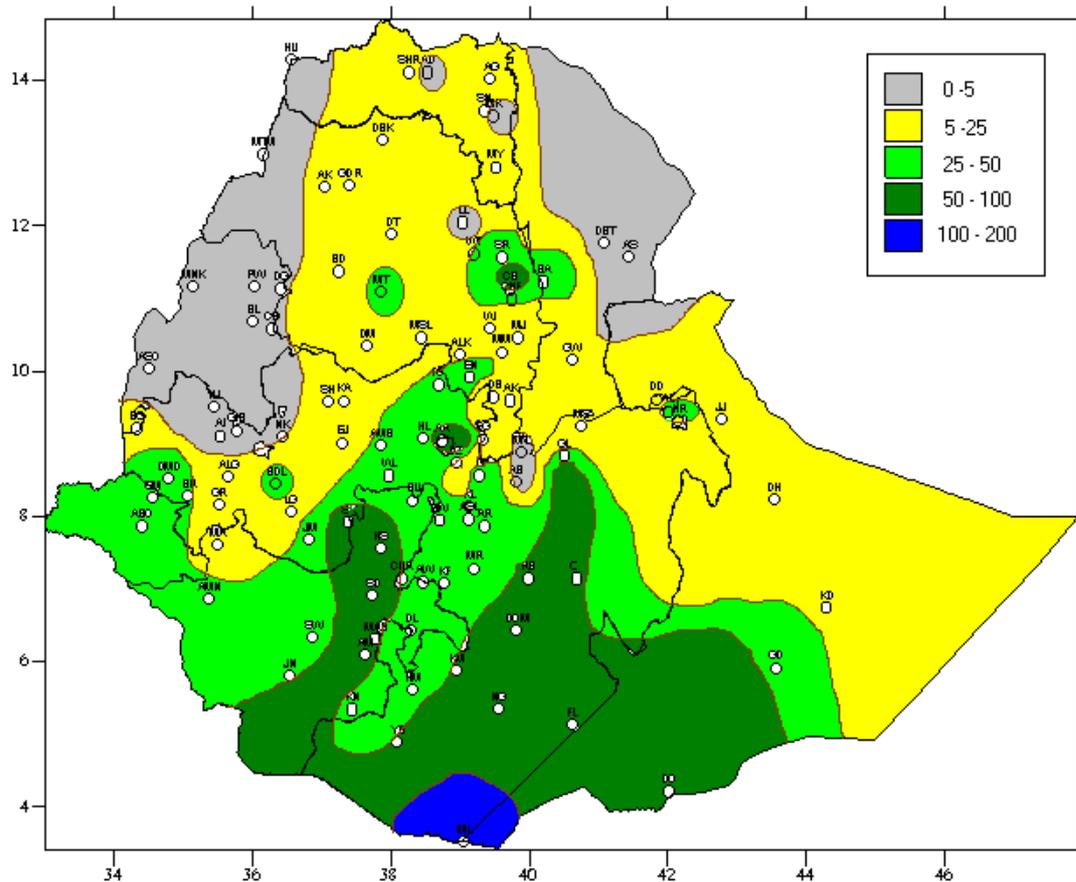


Fig 1. Rainfall distribution in mm (21 - 30 April, 2006)

1. WEATHER ASSESSMENT

1.1 (21- 30 April, 2006)

1.1.1 Rainfall amount (Fig.1)

Pocket areas of southern Oromia, received 100 – 200 mm of rainfall. Pocket areas of eastern Amhara, most parts of southern Oromia eastern and south eastern SNNPR and some areas of south western Somali experienced 50- 100 mm of rainfall. Pocket areas of central and eastern Amahra, and northern Somali, Gambela, most parts of western SNNPR ,central and southern Oromia, some areas of south western Somali received 25-50mm of rainfall. Much of Amhara, Tigray, western Oromia, pocket areas of western Afar, and much of eastern and southeastern Somali exhibited 5-25mm of rainfall amount while there was little or no rainfall for the rest parts of the country.

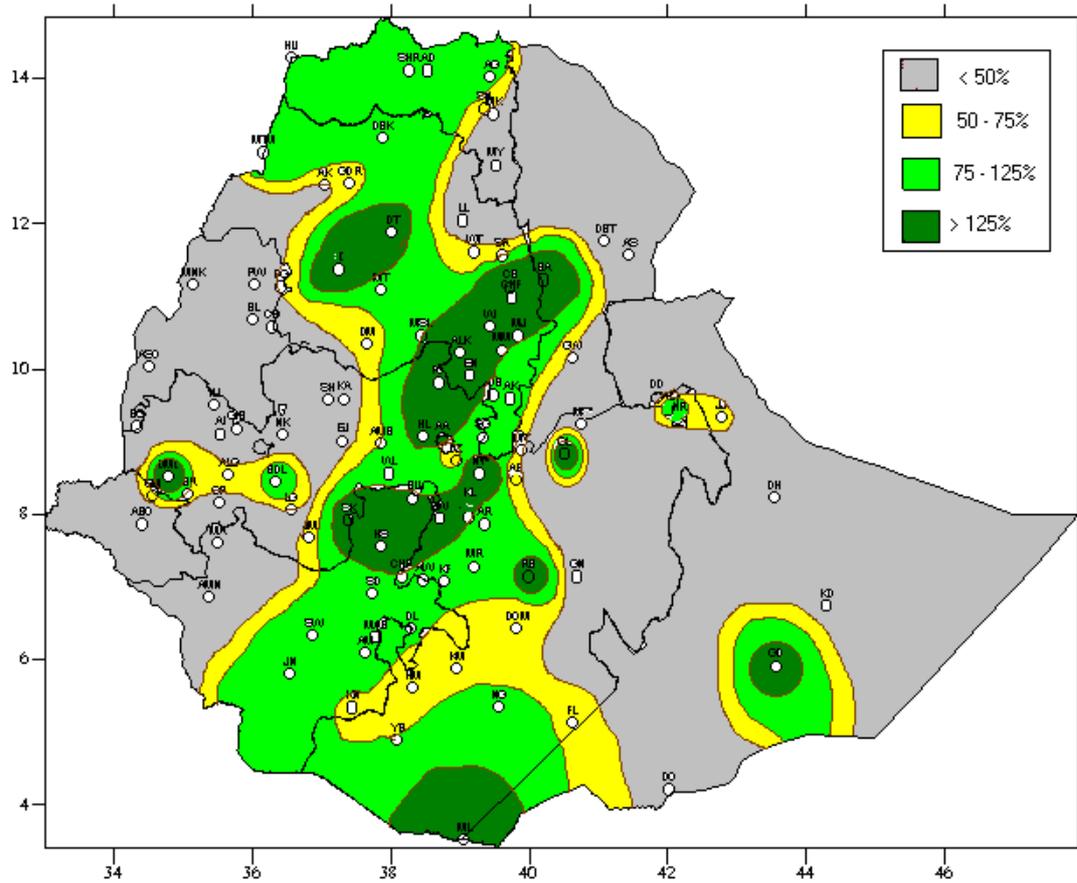


Fig. 2 Percent of normal rainfall distribution (21-30 April, 2006)

Explanatory notes for the Legend
 < 50- Much below normal
 50-75%- Below normal
 75-125%- Normal
 > 125% - Above normal

1.1.2 Rainfall Anomaly (Fig. 2)

Most parts of western Tigray, western and south eastern Amhara most parts of central and southern Oromia eastern SNNPR pocket areas of western Afar, Oromia ,northern and southern Somali exhibited normal to above normal rainfall while the rest parts of the country experienced below to much below normal rainfall.

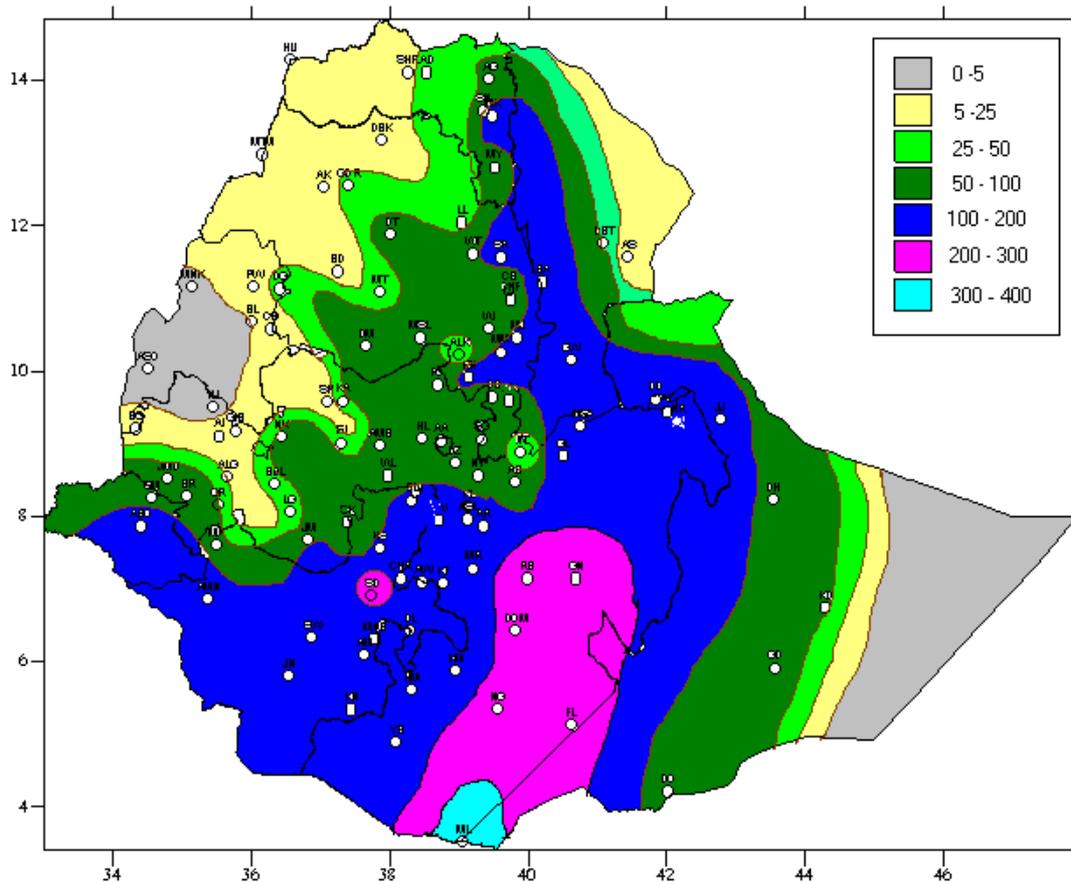


Fig. 3 Rainfall distribution in mm for the month of April 2006

1.2 April 2006

1.2.1 Rainfall distribution (Fig.3)

Pocket areas of southern Oromia received 300-400mm of rainfall. Southern Oromia and few areas of south western Somali and pocket areas of northern SNNPR exhibited 200-300mm of rainfall. Most parts of SNNPR, southern and eastern Oromia, some areas of eastern Amhara, western Afar, Gamblla and western and north western Somali experienced 100-200 mm of rainfall. Most parts of eastern Amhara, central Oromia, some areas of eastern Tigray, Gambella, western and northwestern Somali and Afar received 50-100mm of rainfall. Some areas of western Tigray, Amhara, Oromia and eastern Benshangul-Gumua, Afar and Somali experienced 5-25mm of rainfall amount. There was little or no rainfall for the rest parts of the country.

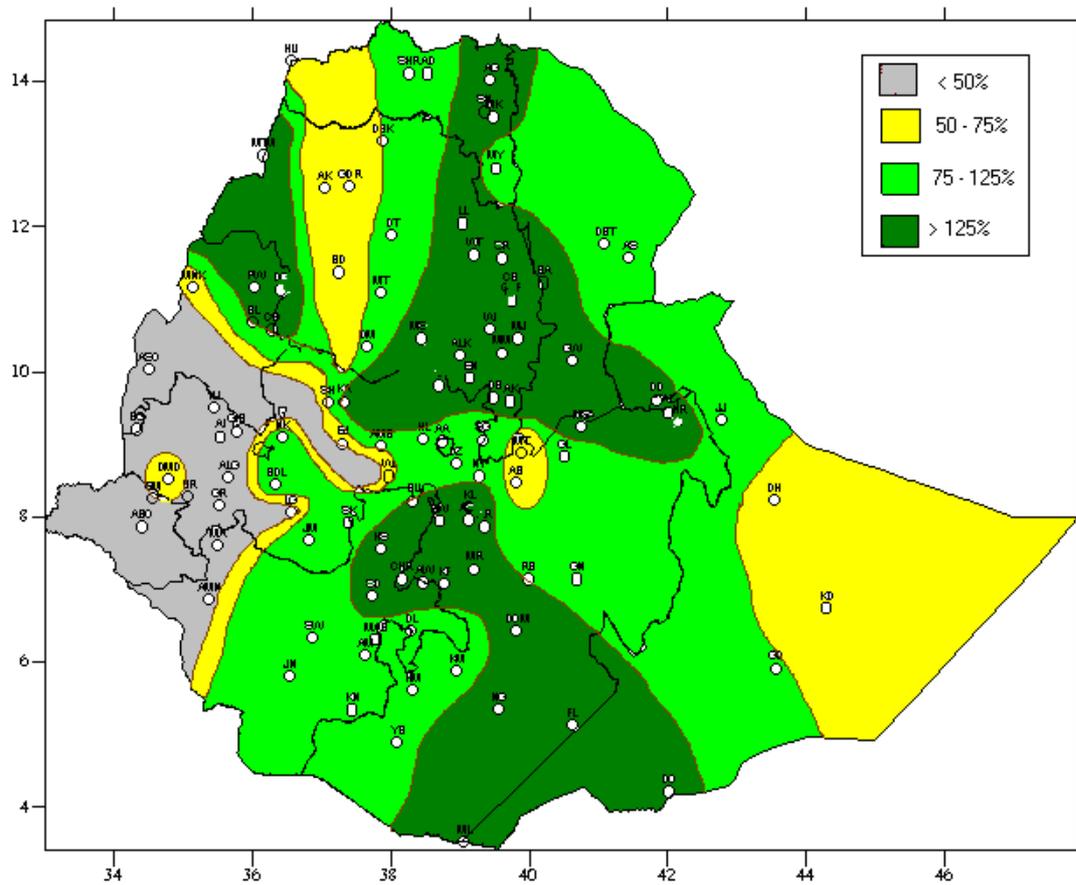


Fig. 4 Percent of Normal Rainfall distribution for the month of April 2006

Explanatory notes for the Legend:

- < 50 -Much below normal
- 50-75%- Below normal
- 75-125%- Normal
- > 125% - Above normal

1.2.2 Rainfall Anomaly (Fig. 4)

Most parts of Tigray, SNNPR, eastern half and parts of western Amhara, central, eastern and southern Oromia, most parts of Somali and Afar exhibited normal to above normal rainfall. The rest parts of the country received below to much below normal rainfall.

1.3 TEMPERATURE ANOMALY

DireDawa, Gode, Methera, Assayta, Chagni, Dubti, Elidar, Mankush, Mirab Abaya, Metema, and Pawe exhibited extreme maximum temperature ranging from 35.0 – 42.0 °C.

2. WEATHER OUTLOOK

2.1 For the first dekad of May 2006

For the coming tens day's the rain producing system are expected to have a better strength over the western half of the country. Hence, the rainfall activity will be concentrated mainly over southwestern, western and central Ethiopia. In the contrary, in association with tropical system which is formed over the northern Indian Ocean and moving towards west, the rainfall activity that is expected over the Belg growing areas of the country is highly likely to be less. Hence, despite less rainfall distribution over most parts of Somali, the rainfall activity is expected to be close to normal. More over, eastern portion of Tigray and Amhara, central Oromia as well as northern Somali will have below normal rainfall whereas much of Oromia, western parts of Tigray and Amhara, Benshangul-Gumuz, SNNPR, and Gambella will have close to normal rainfall. Occasional heavy rain is expected over some places of central, southern and southwestern Ethiopia.

2.1 For the month of May 2006

During the coming May, under normal circumstances, the rain producing systems are expected to be weakening gradually from the Belg-growing areas whereas strengthening across western half and southern parts of the country. Hence, the rainfall activities both in distribution and amount would be better over western, southern and southwestern Ethiopia. Therefore, it will be increased gradually over the above mentioned portions of the country. The current prevailing rain-producing systems over most parts of the country more or less are expected to continue both in distribution and amount. Hence SNNPR, Gambella. Western and southern Oromia, including central Ethiopia as well as Benshangul-Gumuz and western portion of Tigray and Amhara will get close to normal rainfall where as the occurrence of above normal rain is high likely over some places. Moreover, eastern portion of Tigray, Amhara and Oromia, Hrari, DireDawa and Somali will have occasional rains and its amount is mostly expected to be below normal. However, a chance of near normal rainfall is highly likely over some places of the aforementioned areas. Dry and Sunny weather condition will dominate Afar region

3. AGROMETEOROLOGICAL CONDITIONS AND IMPACT ON AGRICULTURE

3.1 VEGETATION CONDITION AND IMPACT ON AGRICULTURE

Generally, the observed normal to above normal rainfall over most parts of Belg growing areas could favor the existing crops in the field which are at different phenological stages. Particularly the well distributed rainfall amount i.e. falls in 15 – 22 days during the month over most parts of SNNPR and pocket areas of eastern Oromia could support the normal growth and development of crops, which are found in the field. Moreover good rainfall amount and distribution observed during the month over pastoral and agro pastoral areas of southwestern Oromia could favor the availability of pasture and drinking water. On the contrary even though the monthly cumulative percent of normal rainfall analysis (Figure 4) shows above normal rainfall distribution over most parts of Afar region due to the abundant rainfall in 2-3 rainy days in the first dekad of April 2006, there were areas that experienced deficient rainfall situation during the two consecutive dekads. This deficient condition could negatively affect the availability of pasture and drinking water in the areas. With regard to the conditions of heavy falls, heavy fall greater than 30 mm has been observed in one rainy day over most places. Among the reporting station Bui, Ziway, Bati, Mekele, Babile, Sirinka, Gursum and Ginir recorded 67 – 116 mm of heavy fall in a rainy day. This condition indicates that the erratic nature of rainfall distribution in the areas in terms of the crop water requirements.

3.2 EXPECTED WEATHER IMPACT ON AGRICULTURE DURING THE COMING DEKAD

The anticipated better rainfall distribution towards the western half of the country would favor sowing activities of cereal crops like maize and sorghum and land preparation for the coming Meher season as well. The expected near normal rainfall over SNNPR and Gambela including western Oromia would ease the deficient condition which persisted during the month of April 2006. Moreover it would favor the growth and development of annual and perennial crops growing in the areas. The anticipated near normal rainfall over central Ethiopia, Benishangul-Gumuz, western Amhara and Tigray would favor sowing activities of cereals and early pre Meher season's agricultural activities. Thus farmers are advised to prepare themselves to exploit the expected good opportunity. Nevertheless, heavy fall is expected in some isolated areas of central, south and southwestern parts of the country. Thus, attention should be given on crops field found in low-lying areas and near riverbanks. On the other hand below normal rainfall is expected over eastern Tigray, eastern Amhara, Harari, Dire Dawa and Somali. Therefore, this condition would exacerbate the deficient condition particularly over some areas in south and southeastern Somali thereby resulting poor performance of pasture and scarcity of drinking water. Thus, these areas need attention in terms of mitigating measures. Besides to minimize the adverse effect of deficient falls over eastern Tigray, eastern Amhara and eastern Oromia including Harare and Dire Dawa appropriate water harvesting techniques should be designed according to the objective realities of the areas. In addition to this attention should be given in the selection and using of drought resistance and short season variety of crops in order to minimize the risk. In areas where the deficient and erratic rainfall is anticipated there would be a possibility of pest outbreak since the expected weather condition is favorable for the event. Thus, attention should be given for sensitive areas ahead of time to control the possible risk below economic threshold level.

Table 1. Climatic and Agro-Climatic elements of different stations for the month of April 2006

	Stations	Region	A/ rainfall	Normal	%of Normal	Eto mm/day	Monthly Eto	Moisture status
1	Adigrat	TIGRAI	82.7	37.5	220.5	4.1	123	M
2	Adwa		24.7	29.6	83.4	NA	NA	NA
3	Mekele		114	34.5	330.4	5.86	175.8	M
4	Michew		79.4	72.5	109.5	3.9	117	M
5	Senkata		30.6	94.6	32.3	NA	NA	NA
6	Shire		23	26.5	86.8	NA	NA	NA
1	Assayta	AFAR	17.6	21.8	80.7	NA	NA	NA
2	Semera		20.5	NA	NA	NA	NA	NA
1	A. Ketema	AMHARA	NA	NA	NA	4.51	135.3	VD
2	Bahirdar		7	24	29.2	5.48	164.4	VD
3	Bati		185.1	77.2	239.8	4.19	125.7	H
4	Bullen		5.3	NA	NA	4.97	149.1	VD
5	Combolcha		86.3	94.9	90.9	4.06	121.8	M
6	Chefa		73.5	71.2	103.2	4.67	140.1	M
7	D.Birhan		56.1	NA	NA	3.8	114	MD
8	D.Markos		67.4	68.1	99.0	4.39	131.7	M
9	D.Tabor		53.2	43.2	123.1	NA	NA	NA
10	Dangla		47.9	26.5	180.8	4.63	138.9	MD
11	Enwary		105.8	23.5	450.2	4.54	136.2	M
12	Gonder		28.8	39.8	72.4	5.32	159.6	D
13	M.Meda		28.3	50.8	55.7	3.68	110.4	MD
14	Majete		147.3	89.4	164.8	4.24	127.2	H
15	Metema		18.6	8.2	226.8	NA	NA	NA
16	Motta		74.4	NA	NA	NA	NA	NA
17	S. Gebeya		56.6	62.3	90.9	3.73	111.9	M
18	Sirinka		244.2	110.8	220.4	NA	NA	NA
19	Wegeltena		85.3	58.4	146.1	3.9	117	M
20	Wereilu		58.1	NA	NA	4.23	126.9	MD
1	Arjo	OROMIYA	54.2	NA	NA	NA	NA	NA
2	Arsi Robe		160.4	158.6	101.1	NA	NA	NA
3	Abomsa		49.8	91.8	54.2	3.83	114.9	MD
4	Aira		14.1	29.8	47.3	NA	NA	NA
5	Alemaya		187.4	93.5	200.4	4.05	121.5	H
6	Alge		32.4	77.9	41.6	NA	NA	NA
7	Bedelle		75.3	89.6	84.0	NA	NA	NA
8	Begi		22	76.5	28.8	NA	NA	NA
9	Bui		161.8	NA	NA	NA	NA	NA
10	Chira		97.6	154	63.4	NA	NA	NA
11	D.Dollo		71.6	96.2	74.4	4.25	127.5	M
12	D.Mena		262.2	170.4	153.9	4.35	130.5	H
13	D.Zeit		57.5	57.7	99.7	4.62	138.6	MD
14	Ejaji		31.2	75.1	41.5	4.48	134.4	D
15	Fitche		72.9	57.9	125.9	3.92	117.6	M
16	Gelemso		154.8	155.8	99.4	4.04	121.2	H
17	Gimbi		10	64.8	15.4	NA	NA	NA
18	Ginir		211.9	NA	NA	NA	NA	NA
19	Gore		12.3	127	9.7	4.24	127.2	VD
20	H. Mariam		150.7	191.4	78.7	NA	NA	NA

21	Jimma		110.4	138.9	79.5	3.59	107.7	H
22	K.Mengist		152.3	219.4	69.4	3.67	110.1	H
23	Kachise		69.9	52.7	132.6	4.33	129.9	M
24	Kulumsa		131.4	30.4	432.2	3.82	114.6	H
25	Lumugenet		47.6	132.7	35.9	NA	NA	NA
26	Meisso		168.2	85.4	197.0	4.69	140.7	H
27	Metehara		32.9	46.8	70.3	5.54	166.2	D
28	Moyale		316.5	158	200.3	3.8	114	H
29	Nazreth		84.7	55.7	152.1	NA	NA	NA
30	Neghele		294.5	194.8	151.2	4.23	126.9	H
31	Nedjo		1.7	56.4	3.0	4.27	128.1	VD
32	Nekemte		71.3	85.4	83.5	3.97	119.1	M
33	Robe(Bale)		200.8	129.3	155.3	3.8	114	H
34	Sekoru		81.5	97.8	83.3	3.79	113.7	M
35	Shambu		21.1	90.5	23.3	4.23	126.9	D
36	Yabello		124.1	148.1	83.8	3.86	115.8	H
37	Ziway		197.5	70.4	280.5	4.76	142.8	H
1	Jijiga	SOMALI	103	107	96.3	NA	NA	NA
2	Gode		54.5	73.8	73.8	6.01	180.3	MD
1	A.Minch	SNNPR	124.1	146.9	84.5	4.07	122.1	H
2	Awassa		137.7	103.6	132.9	NA	NA	NA
3	Billate		124.2	NA	NA	NA	NA	NA
4	Hosaina		176.7	147.2	120.0	3.56	106.8	H
5	Jinka		188.8	171	110.4	3.34	100.2	H
6	Konso		162	173.7	93.3	4.02	120.6	H
7	M.Abay		86.3	88.9	97.1	4.54	136.2	M
8	Sodo		225.6	168.2	134.1	NA	NA	NA
1	Assosa	B/GUMUZ	0	60	0.0	6.27	188.1	VD
2	Chagni		14.3	NA	NA	5.33	159.9	VD
1	A.A.Obs.	A.A	78.9	93.2	84.7	3.48	104.4	M
2	A.A. Bole		95.4	88	108.4	4.58	137.4	M
1	Diredawa	D.D	145.4	102.8	141.4	NA	NA	NA
1	Harar	Harai	174.7	136.8	127.7	3.67	110.1	H

Legend

VD	Very Dry	< 0.1
D	Dry	0.1 - 0.25
MD	Moderatly Dry	0.25 - 0.5
M	Moist	0.5 - 1
H	Humid	>1

Explanatory Note

ETo Reference Evapotranspiration(mm)

DEFINITION OF TERMS

ABOVE NORMAL RAINFALL: - Rainfall in excess of 125% of the long term mean

BELOW NORMAL RAINFALL: - Rainfall below 75 % of the long term mean.

NORMAL RAINFALL: - Rainfall amount between 75 % and 125 % of the long term mean.

BEGA: - It is characterized with sunny and dry weather situation with occasional falls. It extends from October to January. On the other hand, it is a small rainy season for the southern and southeastern lowlands under normal condition. During the season, morning and night times are colder and daytime is warmer.

BELG: - Small Rainy season that extends from February to May and covers southern, central, eastern and northeastern parts of the country.

CROP WATER REQUIREMENTS: - The amount of water needed to meet the water loss through evapotranspiration of a disease free crop, growing under non-restricting soil conditions including soil water and fertility.

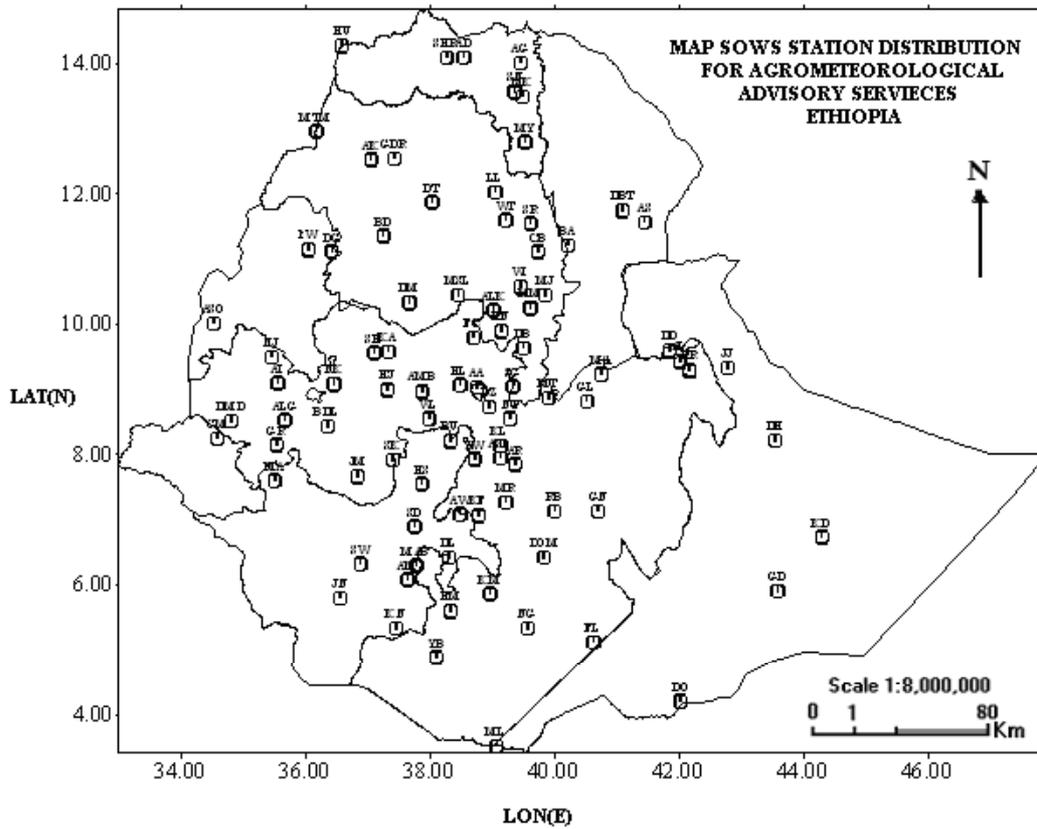
DEKAD: - First or second ten days or the remaining days of a month.

EXTREME TEMPERATURE: - The highest or the lowest temperature among the recorded maximum or minimum temperatures respectively.

ITCZ: - Intertropical convergence zone (narrow zone where trade winds of the two hemispheres meet).

KIREMT: - Main rainy season that extends from June to September for most parts of the country with the exception of the southeastern lowlands of the country.

RAINY DAY: - A day with 1 or more mm of rainfall amount.



Station	CODE						
		D. Markos	DM	Hossaina	HS	M/Selam	MSL
A. Robe	AR	D. Zeit	DZ	Humera	HU	Nazereth	NT
A.A. Bole	AA	D/Dawa	DD	Jijiga	JJ	Nedjo	NJ
Adigrat	AG	D/Mena	DOM	Jimma	JM	Negelle	NG
Adwa	AD	D/Odo	DO	Jinka	JN	Nekemte	NK
Aira	AI	D/Tabor	DT	K.Dehar	KD	Pawe	PW
Alemaya	AL	Dangla	DG	K/Mingist	KM	Robe	RB
Alem Ketema	ALK	Dilla	DL	Kachise	KA	Sawla	SW
Alge	ALG	Dm.Dolo	DMD	Koffele	KF	Sekoru	SK
Ambo	AMB	Dubti	DBT	Konso	KN	Senkata	SN
Arba Minch	AM	Ejaji	EJ	Kulumsa	KL	Shambu	SH
Asaita	AS	Enwary	EN	Lalibela	LL	Shire	SHR
Asela	ASL	Fiche	FC	M.Meda	MM	Shola Gebeya	SG
Assosa	ASO	Filtu	FL	M/Abaya	MAB	Sirinka	SR
Awassa	AW	Gambela	GM	Maichew	MY	Sodo	SD
Aykel	AK	Gelemso	GL	Majete	MJ	Wegel Tena	WT
B. Dar	BD	Ginir	GN	Masha	MA	Woliso	WL
Bati	BA	Gode	GD	Mekele	MK	Woreilu	WI
Bedelle	BDL	Gonder	GDR	Merraro	MR	Yabello	YB
BUI	BU	Gore	GR	Metehara	MT	Ziway	ZW
Combolcha	CB	H/Mariam	HM	Metema	MTM		
D. Berehan	DB	Harer	HR	Mieso	MS		
D. Habour	DH	Holleta	HL	Moyale	ML		