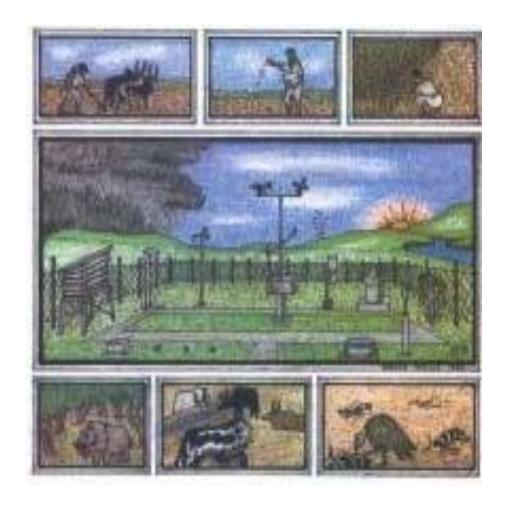
NATIONAL METEOROLOGICAL AGENCY AGROMETEOROLOGICAL BULLETIN

SEASONAL AGROMETEOROLOGICAL BULLETIN BEGA 2014/15 VOLUME 25 No. 3 DATE OF ISSUE: - FEBRUARY 2, 2015



P.O.BOX 1090, ADDIS ABABA, ETHIOPIA www.ethiomet.gov.et

Fax: 251-11-6625292, Tel. 251-11-6615779

FORE WARD

This Agro met Bulletin is prepared and disseminated by the National Meteorological Agency (NMA). 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.

Director General NMA P.O.Box 1090 Tel: 011661-57-79

Tel. 011001-37-79

FAX 00251-11-6625292

Addis Ababa

Web site: - http://www.ethiomet.gov.et

http://www.Ethiopia.ranet.net

በ*ጋ* 2014/15 አህፅሮት

በመደበኛ ሁኔታ የበጋ ወቅት ወሐያማና ደረቅ ሲሆን አልፎ አልፎ ያልተጠበቀ ዝናብ የሚታይበት ነው። ወቅቱ ከጥቅምት እስከ ጥር ያለውን ጊዜ ሲያጠቃልል የአገሪቱ ደቡብና ደቡብ ምሥራቅ ቆላማ ቦታዎች ወቅታዊ ዝናብ የሚያገኙበት ነው። በአብዛኛው መኸር አብቃይ በሆኑ አከባቢዎች የሰብል ስብሰባና ድህረ ሰብል ስብሰባ የሚካሄድበት ሲሆን በደቡብና በደቡብ ምሥራቅ የአርብቶ አደሩና ከፌል አረብቶ አደሩ አከባቢዎች ለግጦሽና ለመጠጥ ውሀ እንዲሁም ውሱን የሆነ እርሻ እንቅስቃሴ የሚካሄድበት ጊዜ ነው። በተጨማሪም በንዚሁ አከባቢዎች ለከብቶች ለግጦሽ ሳርና ለመጠጥ ውሃ የሚሆን ዝናብ የሚያገኙበትና ውሃን በተለያየ ዘዴ የሚያከማቹበት ወቅት ነው። የበጋ የአየር ወባይ ለበሽታና ለተባይ መከሰት ተስማሚ የሆኑ ሁኔታዎች ከተከሰቱ ለበሽታና ለተባይ መስፋሉት አመቺ ሁኔታን የሚፈጥር ነው። በበጋ ወቅት የሙቀት መጠን ከአዝርአት ጨናማ አድገት አኳያ ሊተኮርበት የሚገባ ጉዳይ ሲሆን በሰሜን ምስራቅ" በመካከለኛው በምስራቅ እና በደቡብ ከፍተኛ ቦታዎች ላይ የውርጭ መከሰት ሊኖር የሚችል ክስተት ነው።

እ.ኤ.አብኦክቶበር ወር 2014 በተግራይ፣ በአማራ፣ በቤንሻንጉል-ጉሙዝ፣ በ.ጋምቤላ፣ በደቡብ ብሔር ብሔረሰቦችና ህዝቦች ክልል፣ በኦሮሚያ፣ በአፋር፣ በድሬዳዋ፣ በሐረሪ ፣በደቡብ ምዕራብ የአገሪቱ አካባቢዎች እና በሶማሌ ከቀላል እስከ ከባድ መጠን ያለው ዝናብ የነበራቸው ሲሆን። ይህም ሁኔታ በተለያዩ የእድገት ደረጃ ላይ ለሚገኙ የመኸር ሰብሎች፣ ለቋሚ ተክሎች፣ በቅርቡ ተዘርተው በተለያየ የእድገት ደረጃ ላይ ለሚገኙ የጥራቱሬ ሰብሎች እንዲሁም ከላይ በተጠቀሱ አካባቢዎች ለሚኖሩ አርብቶ አደሮችና ክፌል አርብቶ አደሮች ለግጦሽ ሳርና ለመጠጥ ውሃ ፍላንት መሟላት አመቺ ሁኔታን የፌጠረ ነበር። በተጨማሪም ሁለተኛ የዝናብ ወቅታቸው ለሆኑት የደቡብ እና ደቡብ ምስራቅ የአገሪቱ አካባቢዎች ለሚኖሩ አርብቶ አደሮችና ክፌል አርብቶ አምርት መሻሻል አመቺ ሁኔታን የፌጠረ ነበር። ሆኖም ግን በአንዳንድ የሃገሪቱ አካባቢዎች ላይ የጣለው ከባድ ዝናብ በደረሱ ሰብሎች ስብሰባና ድህር ሰብል ስብሰባ ስራ ላይ አሉታዊ ተፅዕኖ ነበረው። በሌላ በኩል በወሩ የመጨረሻዎች ቀናት እየተጠናከረ ከመጣው የበጋ ወቅት የአየር ሁኔታ ጋር ተያይዞ የሌሊትና የማለዳው ቅዝቃዜ 5° ሴንቲግሬስ በታች ሆኖ ተስተውሷል። ይህም ሁኔታ ገና ፍሬ

በመሙሳትና ባልደረሱ ሰብሎች በጤናማ እድገታቸው ሳይ አሉታዊ ተፅዕኖ እንደነበረው ይገመታል።

በኖቬምበር 2014 ትግራይ፣ አብዛኛው አማራና ኦሮሚያ፣ ጋምቤላ፣ ቤኒሻንጉል-ጉሙዝ፣ የደ.ብ.ብ.ሕዝቦች ክልል፣ ድሬዳዋ፣ ሀረሪ ፣ ደቡብ አፋርና ሶማሲ ከቀላል እስከ ከባድ መጠን ያለው ዝናብ አግኝተዋል፡፡ ይኽም ሁኔታ በመኸር ሰብል ስብሰባና ድህረ ሰብል አሰባሰብ ሥራ ላይ አሉታዊ ተጽዕኖ የነበረው ቢሆንም በአርብቶ አደሩና ክፌል አርብቶ አደሩ አካባቢ ለውሃና የግጦሽ ግር አቅርቦትን በነ ነን ነበረው፡፡

እ.ኤ.አ በዲሴምበር ወር 2014 ምሥራቅ ትግራይና አማራ፣ ምዕራብና መካከለኛው ኦሮሚያ እና የደቡብ ብሔር ብሔረሰቦችና ህዝቦች ክልል በጥቅት ሥፍዎች ላይ አስተኛ ዝናብ ተመዝግቧል። በሌላበኩል በአንዳንድ ለውርቄ ተጋላቄ በሆኑ ደጋማ የሀገሪቱ ሥፍራዎች በወሩ ውስጥ የቀኑ ዝቅተኛ የአየር ሙቀት መጠን ከዜሮዲግሪ ሴልሽየስ በታች ተመዘገበባቸው ጣቢዎች መካከል ለመጥቀስ ያህል በደብረ ብርሀን -5.5፣ በሀሮማያ -0.5፣ በአዲግራት -2.0 እና በወገልጤና -2.8 በዲግሪ ሴልሽየስ ይጠቀሳሉ። ይህም ሁኔታ _በአዝርዕትም ሆነ በእርሰሳት ምርታማንትና ጤናማ እድገት ላይ አሉታዊ ተፅዕኖ እንደነበረው እሙን ነዉ።

እ.ኤ.አ በጄንዋሪ 2008 በአጠቃሳይ ከወሩ አጋማሽ ጀምሮ የዘነበው ዝናብ በሀገሪቱ ሽምዋ ሸለቆና አጎራባች ደጋማ ስፍራዎች ላይ የተስፋፋ ገፅታ ነበረው። ይህም ሁኔታ ለመጪው በልግ የማሳ ዝግጅት እንዲሁም ለአርብቶ አደሩና ለክፌል አርብቶ አደሩ ለግጣሽ ሳር እና ለመጠዋ ውሃ አቅርቦት አዎንታዊ ገፅታ እንደነበረው ይታመናል። በአንፃሩ ደግሞ የነበረው ዝናብ በአክቶበርና በኖቬምበር ወር 2008 በተገኘው እርዋበት ተዘርተው ለነበሩት አንደ ሽምብራ" ዓያ" አብሽ ወዘተ እና ዘግይተው ተዘርተው ለነበሩት ሰብሎች ስብሰባ እንቅስቃሴ ላይ መጠነኛ አሉታዊ ተፅእኖ እንደነበረው ይታመናል። በሌላ በኩል አብዛኛውን ትግራይ ምእራባዊ አጋማሽ" የምስራቅ አማራ" የቤንሻንጉል ጉሙዝና የደቡብ ምስራቅ ቆላማ አካባቢዎች አልፎ እልፎ ከነበራቸው የደመና ሽፋን በስተቀር በወሩ ውስዋ በበጋው ደረቅ አየር ተፅእኖ ስር ቆይተዋል። ይህም ሁኔታ ለመኸር ሰብሎች ስብሰባና ድህረ ሰብል ስብሰባ እንቅስቃሴ አመቺ ሁኔታ የነበረው ሲሆን ለአርብቶ አደሩና ክፌል አርብቶ አደሩ ለግጣሽ ሳር እና ለመጠዋ ውሃ ልቅርቦት አሉታዊ ተፅእኖ ነበረው።

ጠቅለል ባለ መልኩ ሲታይ ከላይ ከተጠቀሰው የግብርና ሚቲዎሮሎጂ ትንተና ለመረዳት እንደተቻለው በአጠቃላይ የAዝርእቱ ሁኔታ በአብዛኛው መኸር አብቃይ በሆኑ አከባቢዎች በዋሩ ሁኔታ ላይ ሲሆን የሚገኘውም ምርት የተሻለ ዋሩ እንደሚሆን መረጃዎች ይጠቁማሉ። እንዲሁም (Leap) software በመጠቀም (WRSI) የእፅዋት የውሀ ፍላንት በ100ኛ ሲሰላ እንዲሁም (water deficit) የእፅዋት የውሀ እዋረት በስንዴ በማሽላ ጤፍእንዲሁም በበቆሎ መኸር ሰብሎች በተሰራው ትንተና (analysis) ካላይ የተጠቀሱትን ሰብሎች አብቃይ ለሆኑ አካባቢዎች ያለፈው የመኸር ወቅት ዋሩ የእርዋበት ሁኔታ እንደነበር ይጠቁማል። በሌላ በኩል ደግሞ ወቅቱን ያልጠበቁ ዝናብ በኖቬምበር ወር የተከሰተ ቢሆንም የበጋው ወቅት ደረቁና ፀሐያማ የአየር ሁኔታ ለሰብል ስብሰባውና ድህረ ሰብል ስብሰበባው ዋሩ ጎን ነበረው። ካለፈው ዓመት ጋር ሲነፃፀር የሰብል ብክንት እንደሌለ ያሳያል። በዋቁሉ የበጋው ወቅት ለመኸር አብቃይ አካባቢዎች ዋሩ ምርት ለማምረት አመቺ ሁኔታን ፌዋሮ ነበር።

BEGA 2008/9

SUMMARY

Normally Bega is the season characterized by cold, sunny and dry weather condition with sometimes, unseasonal rainfall for northern half of the country, and extends from October to January. On the other hand, it is a second rainy season for southern and southeastern lowlands of the country. This dry and sunny condition favors harvest and post harvest activities in the areas where major agricultural activities are practiced during Meher season. It is also a cropping time for southern and southeastern lowlands of agro pastoral areas. Besides it is time to perform water-harvesting activities for pastoral and agro pastoral areas of southern and southeastern and eastern lowlands of the country. This weather situation could favor the outbreak of pest and disease of crops if there are favorable conditions, susceptible host and the pest itself. The dry and windy Bega weather condition is also favorable for the occurrence and spread of wild fire. There is also a possibility for frost hazard, mainly over northeastern, central, eastern and southern highlands of the country during the season.

During the month of October 2014, Tigray, Amhara, Benshangul-Gumuz, Gambela, SNNPR, Oromia, Afar, Dire Dawa, Harria, southwester portion of the country and Somalia received little to heavy rains. This situation was conducive for the availability of water for Meher crops that were not yet fully matured, perennial plants, late sown pulses and availability of pasture and drinking water over pastoral and agro-postural areas. Heavy rainfall over some aforementioned areas might have caused a negative impact on Meher harvest activities.

Moreover, dry, sunny and windy Bega weather condition prevailed over Meher growing areas of the country might favored harvest activities. On the other hand, Bega's dry weather condition might cause early morning and night cooling over highlands of the country, which might have caused the occurrence of frost that might have affected the normal growth of Meher crops that are not yet fully matured, perennial plants and animals.

During the month of Nov 2014, Amhara, Tigray, Benishangul- gumuze, Gambella, SNNPR, Oromia, Dire Dawa, Harari, Somali and western parts of the country received light to heavy rainfall. The situation might have caused shattering of seed of ripe crops, harvest and post harvest activities and damage crops at different phases of growth particularly in areas where heavy falls experienced. Contrary to this, the moisture obtained might have been fulfilled water requirement of crops not yet physiologically matured, perennial plants, pasture and drinking water availability in pastoral and agro pastoral areas. On the other hand dry, sunny and windy Bega weather condition associated with night and early morning cooling effect caused minimum temperature fallen below 5 °C which might have negative impact on normal growth of crops not fully attend maturity as well as physiological activities animal and their products

During the month of December, 2014. the month under review of Dec, 2014, due to entrance of strong cool air from northern hemisphere crossing Arab lands into the country result in more strengthen of cooling effect particularly over the high lands of the country at the beginning of the month. Contrary to this, during the second and third dekade of the month, Even though, Bega weather condition was dominated over most parts of the country, due to increase of moist air entrance and cloudy condition over, western and central Oromia, western SNNPR Gambella, central Amhara and eastern Tigray experienced little rainfall over few places. The situation favored harvest and post harvest agricultural activities while, little rainfall received over few places was might have useful perennial plants and pasture and drinking water availability over pastoral and agro pastoral areas. On the other hand, the minimum temperature fallen below 5 °C for consecutive days might have negative impact on normal growth of perennial plants and physiological activities and products of livestock.

During the month of January 2015 the moisture condition shows Moist over southwestern, central & eastern parts of the country this condition was conducive for Belg rain benefiting areas for land preparation and availability of pasture and drinking water. However, the situation might have slight negative impact on harvest and post-harvest activities. With regard to extreme maximum temperature some stations such as Gambela, Humera, Metema. Mankush, Gode, Pawe, Sirbu Abaya and Sheraro reported maximum temperature of 39.5, 39.0, 38.5, 38.4, 38.0,

37.0, 36.9 and 36.7 °C respectively. On the other hand, some areas of central, eastern, northeastern and northern highlands recorded extreme minimum temperature below 5 °C for more than 5 consecutive days, some stations like Alemaya, Debre Brhan, Cheffa, Adele. Jijiga, Jimma, Debre Zite reported minimum temperature as low as-1.5, 0.5, 1.4, 2.1, 2.5 and 2.5 °C respectively. This situation might have a negative impact for normal growth and development of plants

In general during Bega 2014, the seasonal strong wind and frost situation during the month of December has not imposed significant negative impact on crops because of their full maturity, though affecting negatively some late sown highland crops (Field Report) Pests and diseases also did not deviate from normal condition in many areas. Thus taking into account the minimal impact of untimely rain on harvest and post harvest activities exhibited during this Bega season, it is expected that the weather condition during the Bega season was very favorable for harvest and post harvest activities with much less value of post harvest losses as compared with the previous year. Thus the Bega season was as a whole favorable for very good crop production over Meher growing areas. Computation of WRSI and Moisture deficit for Maize, Wheat, Sorghum and Teff over Meher growing areas clearly indicate that moisture availability was very good for the Season's crop production.

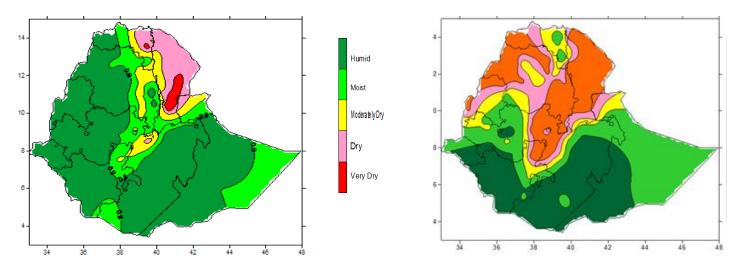


Figure 1. Moisture status for the month of October 2014

Figure 2. Moisture status for the month of November 2014

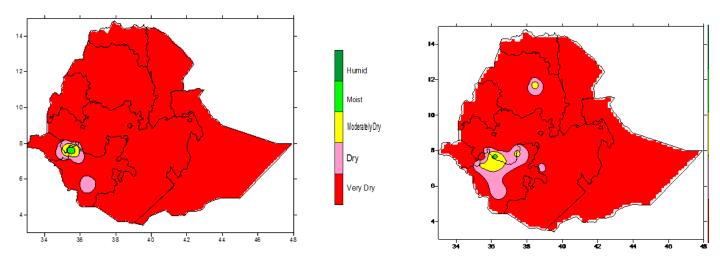


Figure 4. Moisture status for the month of January 2014

Figure 3. Moisture status for the month of December 2014

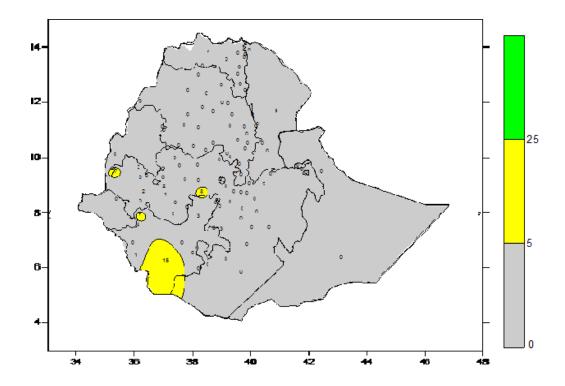


Fig. 6. Rainfall distribution in mm (21-31 January 2014)

1. WEATHER ASSESSMENT

1.1 21-31 January 2014

1.1.1 Rainfall Amount (Fig 6)

Western parts of SNNPR, pocket areas of western Oromia received 5-25 mm of rain fall. The rest parts of the country experienced little or no rainfall.

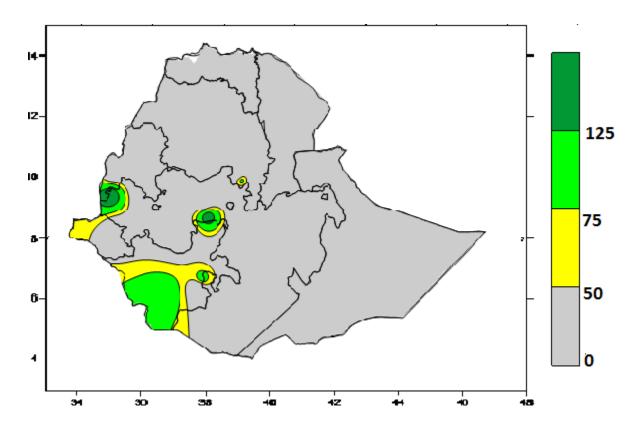


Fig. 7 Percent of normal (21-31 January 2014)

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 7)

Western parts of SNNPR and western Oromia experienced normal to above normal rainfall. The rest parts of the country exhibited below to much normal rainfall.

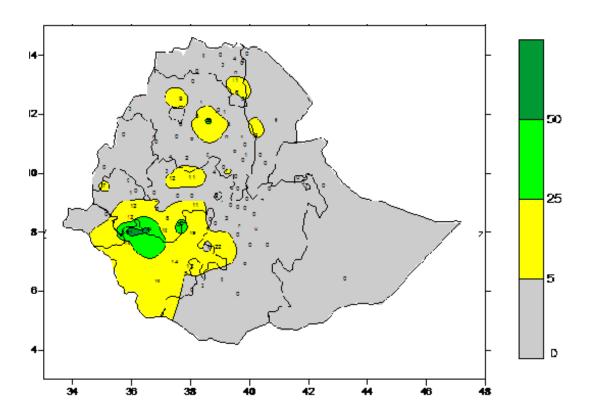


Fig. 8 Rainfall Distribution in mm for the month of January 2014

1.2 January 2014

1.2.1 Rainfall Amount (Fig. 8)

Western tip of SNNPR received 50-100 mm of rainfall. Pocket area of western Oromia and western SNNPR received 25-50 mm of rainfall. Most parts of SNNPR, parts of SNNPR, pocket areas of central Amhara southern Tigray western Afar received 5-25 mm of rainfall. The rest parts of the country experienced little or no rainfall.

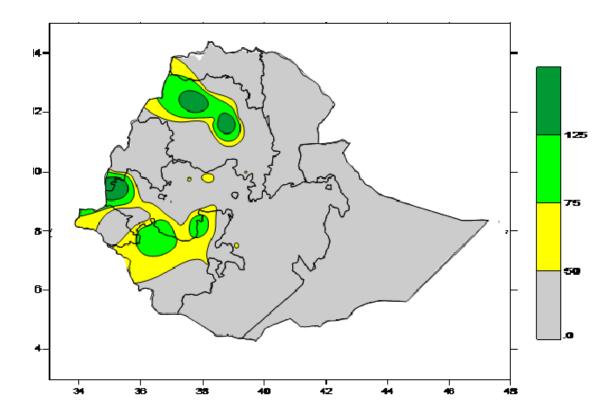


Fig. 9 Percent of Normal Rainfall for the month of January 2015

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. 9)

Parts of western Amhara, western Oromia and western SNNPR exhibited normal to above normal rainfall. The rest parts of the country experienced below to much below normal rainfal

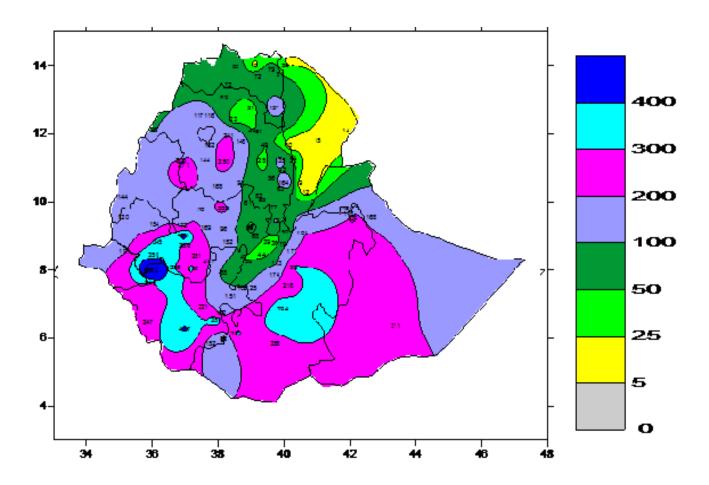


Fig. 10 Rainfall Distribution in mm for BEGA 2014/15

1.3 BEGA 2014/15

1.3.1 Rainfall Amount (Fig. 10)

Western part of SNNPR received 400-500 mm of rainfall. Western and southern Oromia and central and western parts of SNNPR received 300-400 mm of rainfall. Parts of eastern, western and southern tip of Amhara, most of southern and western Oromia, western half of Somali, most parts of SNNPR received 200-300 mm of rainfall. Eastern half of Somaliparts of eastern western and southern Oromia, western half of Gambela, Benshangul-Gumuze, most parts of western Amhara and pocket area of southern Tigray and western Amhara received 100-200 mm of rainfall. Most parts of Tigray and eastern half and northern parts of Amhara and central parts of the country received 50-100 mm of rainfall. Pocket areas eastern Amhara, north western Afar and central parts of the country received 25-50 mm of rainfall. Most parts of received 5-25 mm of rainfall.

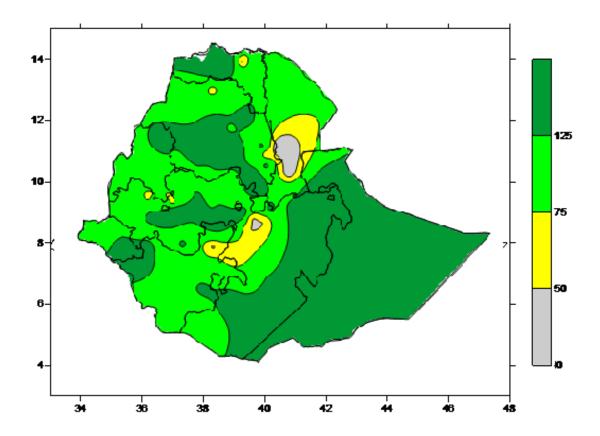


Fig. 11 Percent of Normal Rainfall for Bega 2014/15

Explanatory notes for the Legend:

< 50 -Much below normal

50-75%-Below normal

75-125% - Normal

> 125% - Above normal

1.3.2 Rainfall Anomaly (Fig. 11)

Most parts of the country except some parts of central and southern Afar experienced normal to above normal rainfall.

1.4 TEMPERATURE ANOMALY

With regard to air temperature, many station exhibited extreme minimum temperature below 5 °C during the season. To mention some station, which reported below 0 °C were Jimma, Koffele, Wegel Tena, Mehal Meda, Alemya and Debre Brhan Exhibited extreme minimum temperature below 0 °C and lowering up to -1.4, -1.5, -1.8, -1.9, -2.0, and -6.6 °C respectively during the season.

2. AGROMETEOROLOGICAL CONDTIONS AND IMPACT ON AGRICULTURE

2.1 VEGETATION CONDITION AND IMPACT ON AGRICULTURE DURIN BEGA 2014/15

The performance of moisture during the season particularly in the month of October and November was favorable for Meher crops that are not yet fully matured. In addition the extended unseasonal rainfall in October and November also benefited lately planted crop, the performance of perennial, annual crops as well as improved the pasture and water situation significantly. However, it induced negative impact on matured and unharvested fields.

A better in vegetation cover and Rangeland index based on WRSI observed during the month of October and November on the lowlands of south and southeastern parts of the country result in positive impact for the availability of pasture and drinking water.

Dry and sunny Bega season prevailed after November will have a positive impact for Meher harvest and post harvest activities. Besides, the observed extreme minimum temperature of cool nights and early mornings as low as 5°C (repeatedly) lowering up to −5.0 over frost prone areas of High lands might have been frost risk on Meher crops that were not yet fully matured.

Generally with the exception of weather related adversities such as heavy falls, hailstorm, flooding, frost and crop past as well as the observed unseasoned rainfall situation over some areas. The overall situation was favorable for season's agricultural activities.

2.2 EXPECTED WEATHER IMPACTS ON AGRICULTURE DURING THE COMING BELG SEASON

Normally central parts of northern high lands, eastern highlands, part of central, south western and southern Ethiopia are known as Belg growing areas. The contribution of Belg rainfall is ranging from 5-30% over the north, north eastern and eastern highlands where as 30-60% over south and south western parts of the country from annual total crop production of the areas.

The analyzed moisture status of all selected analogue years expected to Moderate to good moisture over most of Belg growing areas particularly in the southern portion over SNNPR the

expected good moisture has paramount importance in the areas where their Belg production contribution ranges from 40-70 % from annual production.

Total crops water requirement in both analog year 1997 & 2002 said to be Poor for northeastern, parts of central & eastern and southern Oromia. Moderate to very good WRSI condition is confined over southern and some parts of eastern Oromia, Bale & Arsi zones of Belg growing areas of the country.

The expected Near normal onset and cessation is anticipated over the Belg rain benefiting regions of the country which is conducive for Belg agricultural activities starting earlier, availability of pastor & water over pastoral and agro pastoral areas.

Northeast, Rift Valley, East, parts of Central, south and southeast expected to prevail Near normal with odds of above normal. the condition will conducive for Belg agricultural activities, Sowing of cereals like maize, sorghum and others including pulses is the major activities over most parts of the above mentioned areas, it will favour availability of pasture and drinking water.

Near normal to below normal rainfall is expected over Western region. which would have negatively affected planting of long cycle crops in the month of April to May.

The expected owing to the intra-seasonal variability, prolonged dry spells across Belg growing areas, including drought prone regions may influence the season. Thus, farmers need to utilize rain water harvesting, moisture conservation and planting of suitable crops needing less water requirements.

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 cover s 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.

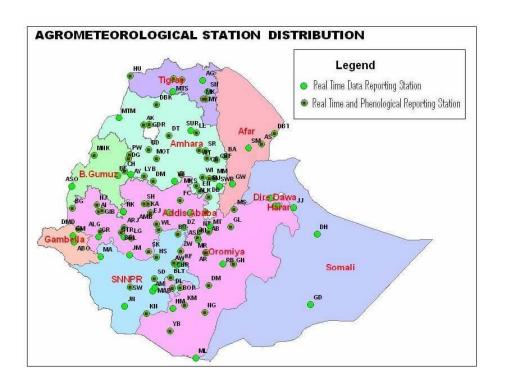
DEKAD: - First or second ten days or the remaining days of a month.

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	Combolcha	СВ	Gonder	GDR	Metema	MTM
A. Robe	AR	Chagni	CH	Gore	GR	Mieso	MS
A.A. Bole	AA	Cheffa	CHF	H/Mariam	HM	Moyale	ML
Abomsa	AB	Chira	CHR	Harar	HR	Motta	MT
Abobo	ABO	D.Berehan	DB	Holleta	HL	M/Selam	MSL
Adigrat	AG	D.Habour	DH	Hossaina	HS	Nazereth	NT
Adwa	AD	D.Markos	DM	Humera	HU	Nedjo	NJ
Aira	ΑI	D.Zeit	DZ	Jijiga	JJ	Negelle	NG
Alemaya Alem	AL	Debark	DBK	Jimma	JM	Nekemte	NK
Ketema	ALK	D/Dawa	DD	Jinka	JN	Pawe	PW
Alge	ALG	D/Mena	DOM	K.Dehar	KD	Robe	RB
Ambo	AMB	D/Odo	DO	K/Mingist	KM	Sawla	SW
Aman	AMN	D/Tabor	DT	Kachise	KA	Sekoru	SK
Ankober	AK	Dangla	DG	Koffele	KF	Senkata	SN
Arbaminch	AM	Dilla	DL	Konso	KN	Shambu	SH
Asaita	AS	Dm.Dolo	DMD	Kulumsa	KL	Shire Shola	SHR
Asela	ASL	Dubti	DBT	Lalibela	LL	Gebeya	SG
Assosa	ASO	Ejaji	EJ	Limugent	LG	Sirinka	SR
Awassa	AW	Enwary	EN	M.Meda	MM	Sodo	SD
Aykel	AK	Fiche	FC	M/Abaya	MAB	Wegel Tena	WT

B. Dar	BD	Filtu	FL	Maichew	MY	Woliso		WL
Bati	BA	Gambela	GM	Majete	MJ	Woreilu	J	WI
Bedelle	BDL	Gelemso	GL	Masha	MA	Yabello)	YΒ
Begi	BG	Gewane	GW	Mankush	MNK	Ziway		ZW
BUI	BU Ginir			GN	Mekele		MK	
Bullen	BL	Gimbi		GIB	Me	erraro	MR	
Bure	BR	Gode		GD	Me	etehara	MT	