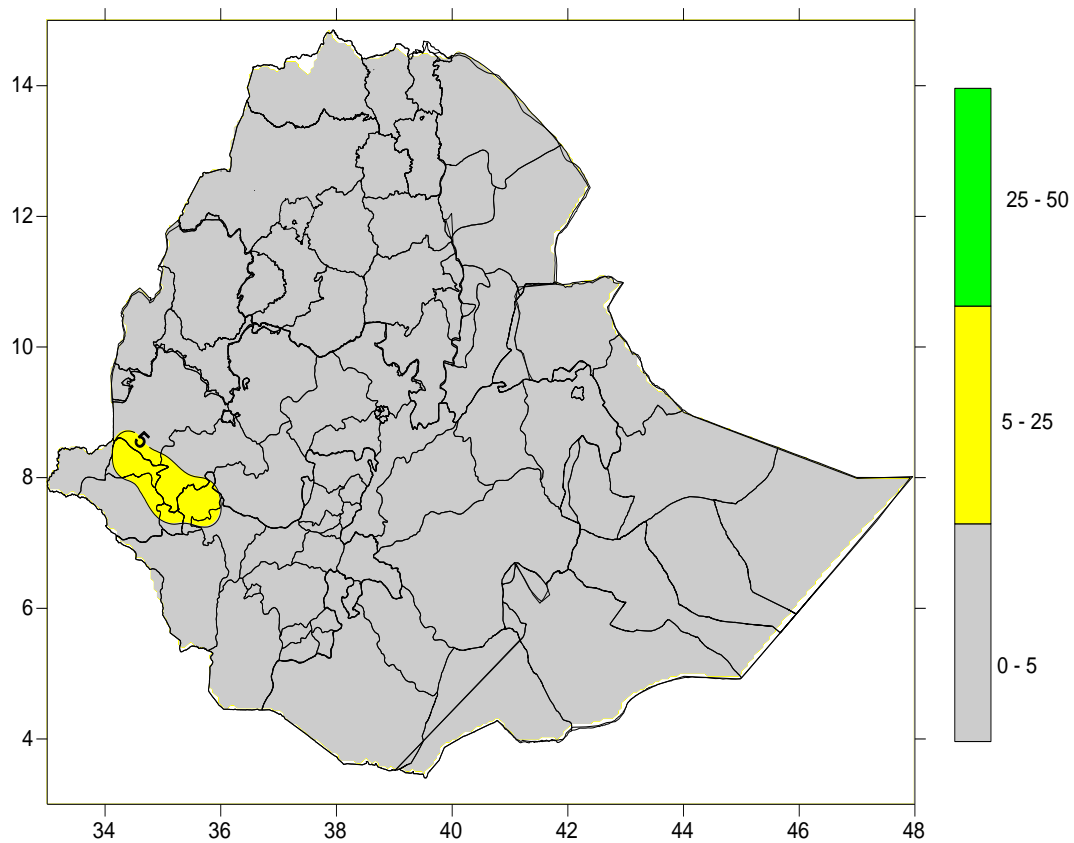


## SUMMARY

During 3<sup>rd</sup> dekad of October rainfall indicators over Western Tigray and Amhara, Benishangul Gumuz, Gambela, SNNPR, Western and Southern Oromia and South eastern Ethiopia of the country was dominated wet spell condition and other parts of the country like Eastern Tigray, Eastern Amhara, Afar, Northern Oromia and Northern Somalia was dominated dry, sunny and windy weather condition. Due to this condition moisture status over western parts of Tigray, western parts of Amhara, Benishangul Gumuz, Gambela, western and southern parts of Oromia, almost all parts of SNNPR, HARARGE and southern and eastern parts of Somalia was good moisture condition. This moisture condition over north and north western parts of the country was negative impact for some meher cropping places harvesting and post harvesting activities. But over north and north eastern parts of the country was good situation for harvesting and post harvesting activities that is dry spell. Beside this for the above moist areas some positive impact for short cycle plants or re-planted lately and now found at different growing stages.

On the other hand; south and south east ward advancement of the wet weather system might be positive impact particularly for second rain benefiting areas for overall bega season agricultural activities; like for planting crops, seedling, growing crops, collecting and storing water purpose was good moisture condition. And to received normal and above normal amount of moisture in the pastoral and agro pastoral areas might play significant role in improving pasture and drinking water.

During December 1st dekad 2017, it was observed that the Bega season dry, sunny and windy conditions have prevailed in most part of the country. This condition might have a positive impact for harvest and post harvest activities in Meher growing areas, where crops were fully matured. While in some high land areas of the countries the minimum temperature was observed in night and midnight time. This situation might have a negative impact on animals, perennial plants. However in moderately dry to humid moisture condition was observed over some areas of Gambela and Masha. This situation has a good condition for perennial plants, pastoral and agro pastoral areas might improve pasture.

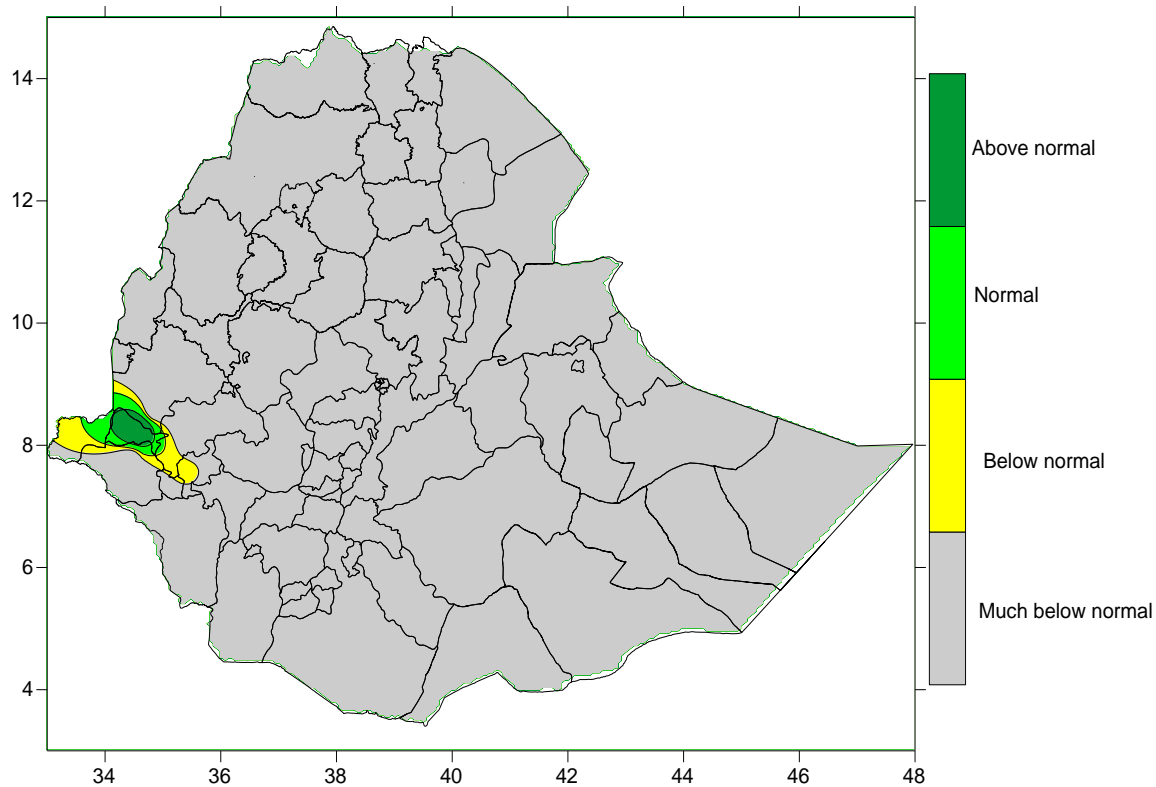


**Fig 1. Rainfall distribution in mm (1 – 10 December 2017)**

**1. WEATHER ASSESSMENT**

**1.1. Rainfall amount (Fig.1)**

Some part of Gambela region of zone 1 south western part of Illubabur zone of Oromia and Sheka zone of SNNPR received 5 – 25 mm of rainfall. The rest parts of the country experienced little or no rainfall.



**Fig. 2 Percent of normal rainfall distribution (1 – 10 December 2017)**

**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)**

Some part of Gambela region of zone 1 and western tip of Illubabur zone of Oromia exhibited normal to above normal rainfall. The rest parts of the country experienced much below normal to below normal rainfall.

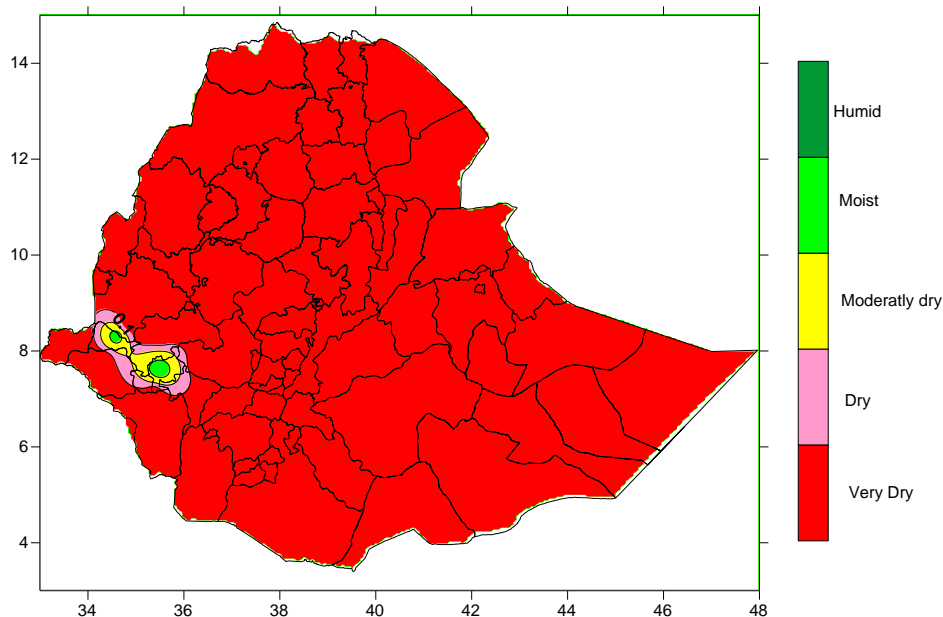
**1.3. TEMPERATURE ANOMALY**

Some stations recorded extreme minimum temperature less than 5 °C. Among reporting stations: Debrezeit 0.8, Robe 1.5, Addis Ababa 2.5, Adele 2.5, Adigrat 1.0, Alemaya -0.6, Ambamariyam 3.0, Atsebi 4.0, Bati 1.5, Bore 3.5, Dbreberhan -0.6, Kofelle 4.0, Maichew 4.0, Mehalmeda -1.5, Sholagebeya 2.7 and Wegeltena 2.5 recorded. The situation might have caused a negative impact on the normal growth and development of plants and water and pasture for livestock.

## 2. AGROMETEOROLOGICAL CONDITIONS AND IMPACT ON AGRICULTURE

### 2.1. VEGETATION CONDITION AND IMPACT ON AGRICULTURE

During December 1st dekad 2017, it was observed that the Bega season dry, sunny and windy conditions have prevailed in most part of the country. This condition might have a positive impact for harvest and post harvest activities in Meher growing areas, where crops were fully matured. While in some high land areas of the countries the minimum temperature was observed in night and midnight time. This situation might have a negative impact on animals, perennial plants. However in moderately dry to humid moisture condition was observed over some areas of Gambela and Masha. This situation has a good condition for perennial plants, pastoral and agro pastoral areas might improve pasture.



**Fig.3 Moisture Status for (1-10 December, 2017)**

As moisture status map above during the first dekad of December 2017 indicated that (see Fig 3). Except Gambela region of zone 1 and western tip of Illubabur zone of Oromia all part of the country received Very dry moisture condition. This condition favors the harvesting agricultural activities. But a negative impact on pasture and drinking water availability in postural and agro pastoral areas of the country as well.

## **EXPECTED WEATHER IMPACT ON AGRICULTURE DURING THE COMING DECKED**

Based on the given ten day weather forecast, in the coming second dekad of Dec 2017, the Bega season dry, sunny and windy weather condition is expected to be prevailed in most part of the country. Such a condition is believed to be positive for harvest and post harvest activities particularly for areas where crops are fully matured. Thus, farmers are advised to utilize this opportunity to harvest fully matured crops. In relation to the expected dry condition, some high land areas of the country likely to experience night and morning time increased cold weather condition and expect frost. Such a situation may affect the rate of perennial plants. Therefore, farmers and concerned stakeholders are advised to take cultural or innovative measures to maintain and ensure the plants environment to be continued in warm state.