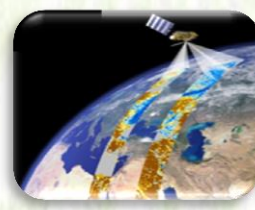


ETHIOPIAN METEOROLOGICAL INSTITUTION

Agrometeorological Bulletin

TEN DAY AGROMETEOROLOGICAL BULLETIN

01-10 FEBRUARY 2025 VOLUME: - 42 No. 04 DATE OF ISSUE: - FEBRUARY 12, 2025



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FOREWARD

This Agro met Bulletin is prepared and disseminated by the Ethiopia Meteorology Institute (EMI). 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 Ethiopia Meteorology Institute disseminates Ten day, 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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SUMMARY

During the third dekad of January 2025, as of the collected and analysed agro meteorological information, during the beginning of the dekad, dry moisture condition was prevailing over most parts of the country. This condition could favour to complete the on-going post-harvest activities. On the other hand, at the end of the dekad over south-western and few places of southern parts of the country was experienced slight moisture condition. This situation could be taken as crucial toward the enhancement of soil moisture and creating conductive condition for land preparation of Belg crops, the water need of perennial plants and the regeneration of pasture and the availability of drinking water for the pastoral and agro pastoral community.

During the first dekad of February 2025, According to the Agro-meteorology information collected from different part of the country dry weather condition has observed across many parts. This situation might favour areas where post-harvest agricultural activities are not fully completed. However, after the first half of the dekad the moisture condition was experienced over some areas of southern, central and western parts of the country experiencing better moisture. This condition could be taken as crucial toward the enhancement of soil moisture and creating conductive condition for land preparation of Belg crops.

WEATHER ASSESSMENT

1.1. Rainfall amount (1 – 10 February, 2025)

During the first dekad of January, 2025, most parts of the country were dominantly dry or less than 5 mm of rainfall conditions except few parts of south, central and south-west received 5-25mm of rainfall.

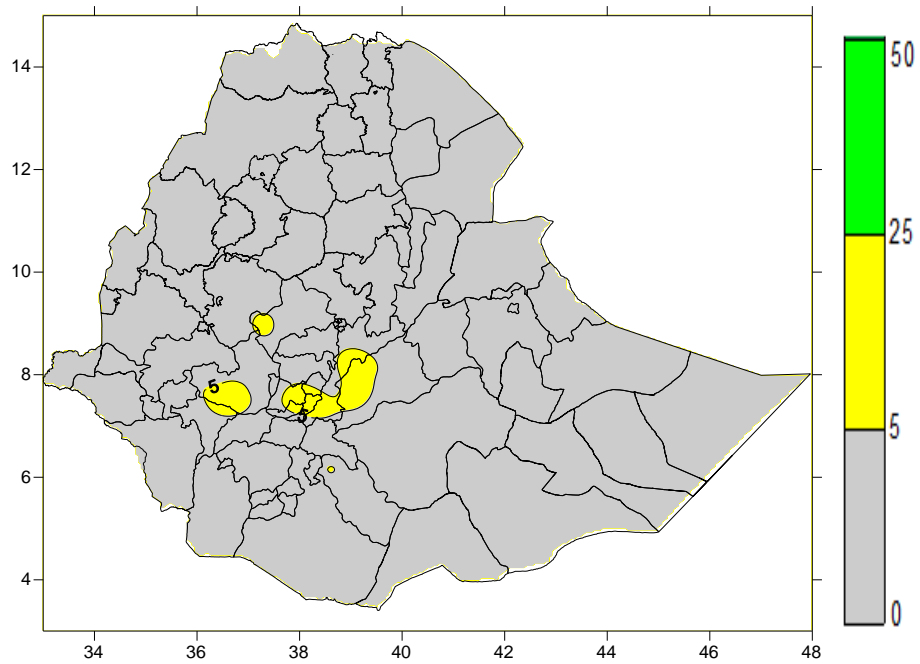


Figure 1. Rainfall distribution in mm (1- 10, February, 2025)

1.2. Rainfall Anomaly (1 – 10 February, 2025)

During the first dekad of January, 2025, all over the country were experienced below Normal too Much below Normal rainfall except few parts of south, central and south-west experienced normal to above normal rainfall.

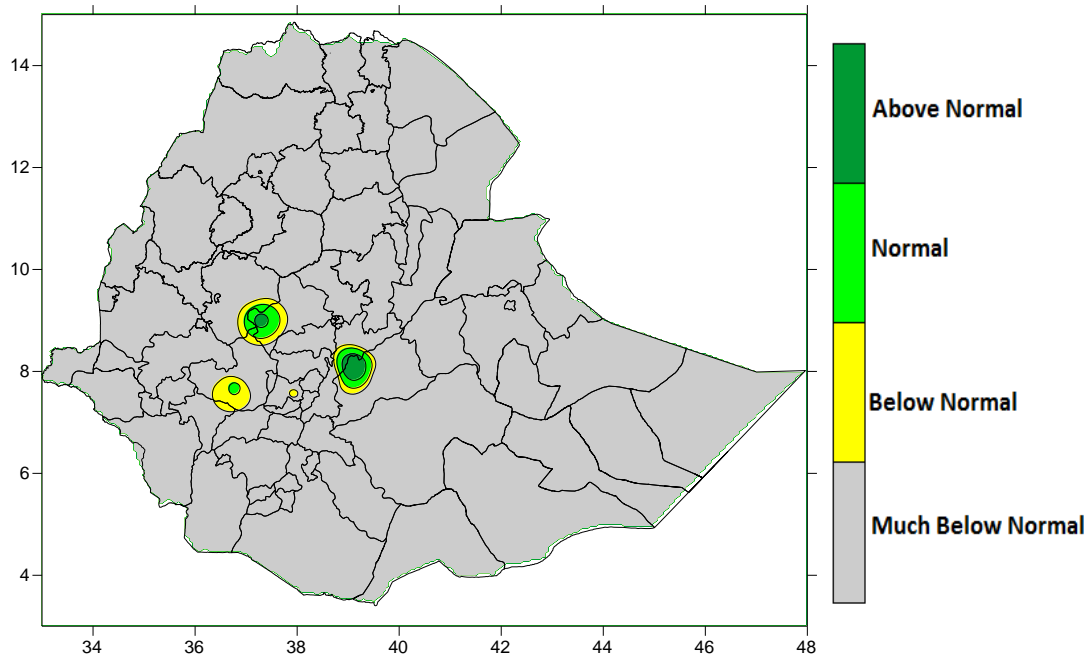


Figure 2: Percent of normal rainfall distribution (1 – 10 February, 2025)

Explanatory notes for the Legend

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

1.3. Moisture Condition (1 – 10 February, 2025)

During the first dekad of January, 2025, the dry moisture conditions were dominated most parts of the country except few parts of south, central and south-west parts exhibited moderately dry to Moist condition.

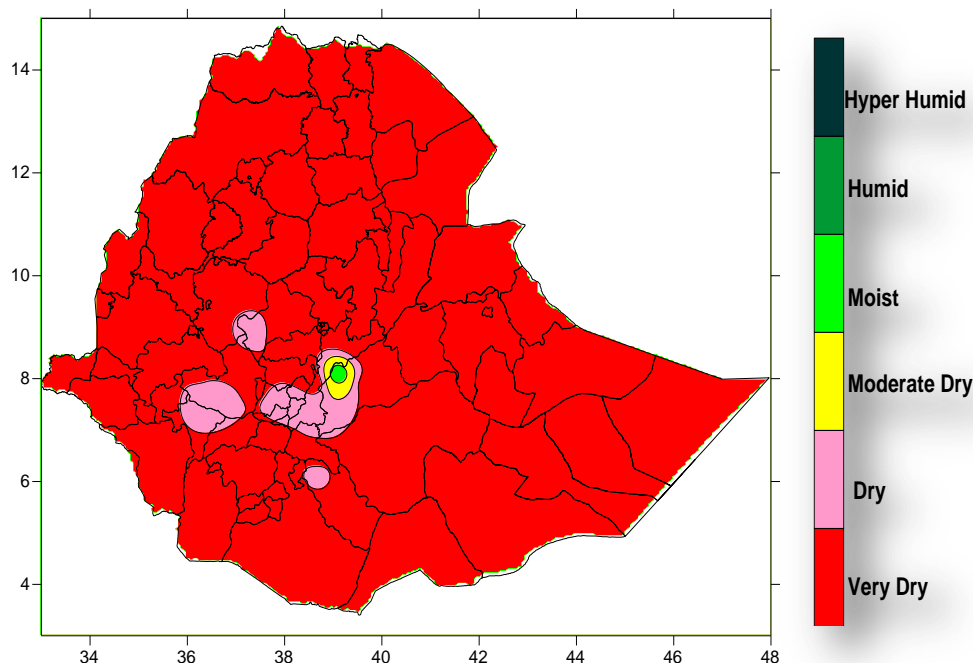


Figure.3. Moisture Status (1 – 10 February, 2025)

2. AGROMETEOROLOGICAL CONDITIONS AND IMPACT ON AGRICULTURE

2.1. VEGETATION CONDITION AND IMPACT ON AGRICULTURE

During the first dekad of January 2025, the moisture condition was decreased all over the country particularly Bega rain benefiting areas except some areas of south-western and southern parts of the country. Due to this the NDVI Fig.4 (the green plant coverage) and RLWRSI totally decreased over Bega rainfall benefiting areas from dekad to dekad. The decreased in the green plant coverage and Rangeland indicated over Bega rain benefiting pastoral and agro pastoral community that might impacts the availability of pasture and drinking water.

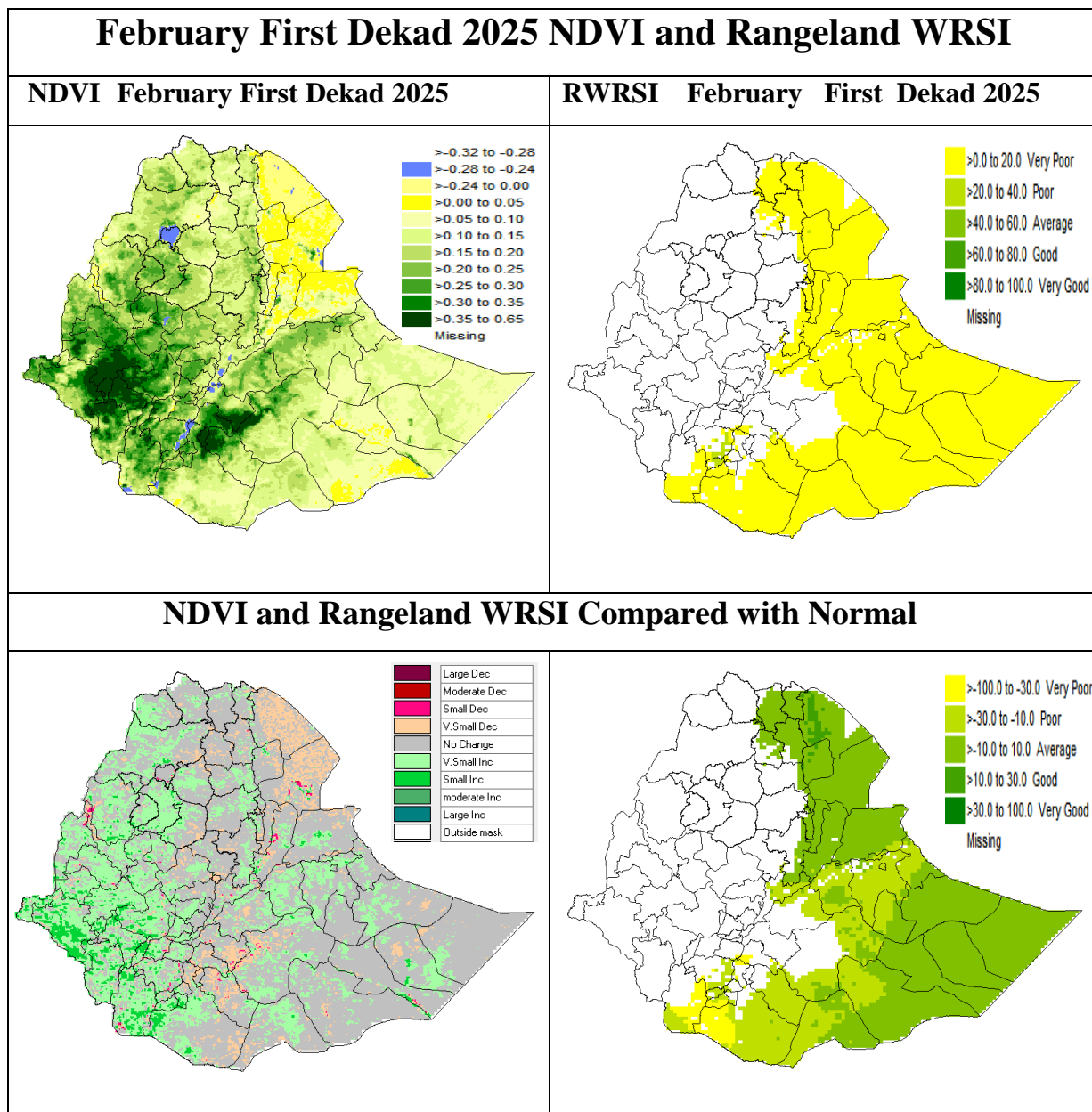


Fig.4. NDVI and Rangeland WRSI (%) and Compared to Normal 1 – 10 February, 2025

2.2. EXPECTED WEATHER IMPACT ON AGRICULTURE DURING THE COMING SECOND DEKADE OF FEBRUARY 2025

In normal condition, after the second half of February most part of Belg growing areas starts to receive the seasonal rainfall and in relation to this most farmers are involved in land preparation and sowing of Belg season growing crops.

According to the weather forecast for the upcoming February 11-20, 2024 dry, sunny and windy weather condition expected over most parts of the country. The probable dry weather condition will likely to favours for completing the on-going post-harvest activities and enable farmers to clear crop fields for the next season agricultural practices. However, due to the approach of certain rain bearing Belg season weather systems relative improvement of cloud coverage over Belg growing and benefiting areas expected slight to moderate moisture. The situation will favourable for the improvement of soil moisture hence for land preparation and planting of the upcoming Belg crops. In addition, it was also positive for the regeneration of pasture and the availability of drinking water for the pastoral and agro pastoral community and the water need of perennial plants.

3. 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 south eastern 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 north-eastern 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: - Inter-tropical 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 south-eastern lowlands of the country.

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

