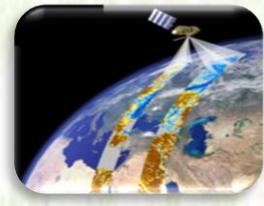


ETHIOPIAN METEOROLOGY INSTITUTION

Agrometeorological Bulletin

TEN DAY AGROMETEOROLOGICAL BULLETIN

11-20 JANUARY 2024 VOLUME: - 41 No. 02 DATE OF ISSUE: - January 23, 2024



Ethiopia Meteorology Institute P.O.BOX 1090, ADDIS ABABA, ETHIOPIA

Website: [http:// www.ethiomet.gov.et](http://www.ethiomet.gov.et) E-mail nmsa@ethionet.et Fax 251-1-517066, Tel. 251-1-512299

TABLE OF CONTENTS

FOREWARD	2
SUMMARY	3
1. WEATHER ASSESSMENT	4
1.1. Rainfall amount (11 – 20 January, 2024)	4
1.1. Rainfall Anomaly (11 – 20 January 2024).....	5
1.1. Moisture Condition (11 – 20 January, 2024)	6
2. AGROMETEOROLOGICAL CONDITIONS AND IMPACT ON AGRICULTURE.....	7
2.1. VEGETATION CONDITION AND IMPACT ON AGRICULTURE	7
2.2. EXPECTED WEATHER IMPACT ON AGRICULTURE DURING THE COMING THIRD DEKADE OF JANUARY 2024	8
3. DEFNITION OF TERMS.....	9

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 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
EMI
P.O. Box 1090
Tel: 011661-57-79
FAX 00251-11-6625292
E-mail nmsa@ethionet.et
Addis Ababa

SUMMARY

During the first dekad of January 2024, according to the agro meteorological analysis, during the dekad, the Bega season dry, sunny and windy weather condition prevailed across most part of the country. This condition had a positive impact for the Meher crop growing areas toward assisting the on-going post-harvest activities. On the other hand, parts of southern and south western parts of the country received light to heavy moisture. This situation in turn might favor toward satisfying the daily water need of perennial plants and the provision of pasture and drinking water. In addition, the received moisture over south-western parts it also positive toward fulfilling the daily water need of perennial plants as well as improving the soil moisture content and thus may favor the early time land preparation.

During the second dekad of January 2024, according to the agro meteorological analysis, the Bega season dry, sunny and windy weather condition prevailed across most part of the country. The situation had a positive impact for the Meher crop growing areas toward assisting the post-harvest activities. Light to heavy amount of moisture was observed over the southern and south-western parts of the country. Despite the fact that the received moisture could have positive contribution for growing crops, perennial plants and the availability of drinking water and pasture for pastoral an agro pastoral community. In addition, with improved cloud cover in the northern, central, north-eastern parts the condition could be favorable toward replenishing the soil moisture that in turn positive for early time land preparation for Belg season planting.

1. WEATHER ASSESSMENT

1.1. Rainfall amount (11 – 20 January, 2024)

During the first Dekad of December 2023, Pocket area of Mirab Guji experienced 50-100mm of rainfall. Some parts of Debub Omo, Gofa, Mirab Guji and Basket zone received 25-50mm of rainfall. Afar zon 2 and 4 central and eastern Tigray, south Gonder north wello and east GojamGurage, Yem, Mirab and Debub Omo, Basketo, Keffa, Bale, Borena and Guji including Sidama rgion exprinced 5-25mm of rainfall. The rest parts of the country experienced little or no rainfall.

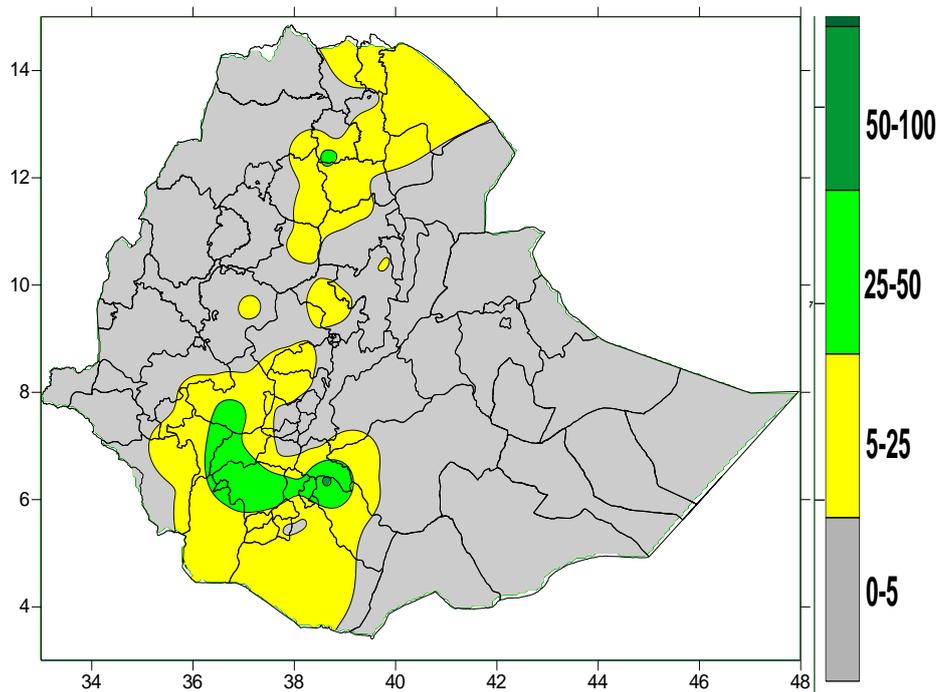


Figure 1. Rainfall distribution in mm (11- 20, January, 2024)

1.1. Rainfall Anomaly (11 – 20 January 2024)

During the month of January 2024, Afar zon 2 and 4 southern, central and eastern Tigray, south Gonder, south and north wello, eastern Amhara and Gojam, Gurage, Yem, Mirab and Debub Omo, Basketo, Keffa, Bale, Borena and Guji, Dara and Dollo zone of Somali including Sidama region of the country exhibited normal to above normal rainfall. The rest parts of the country exhibited below normal to much below normal rain fall condition.

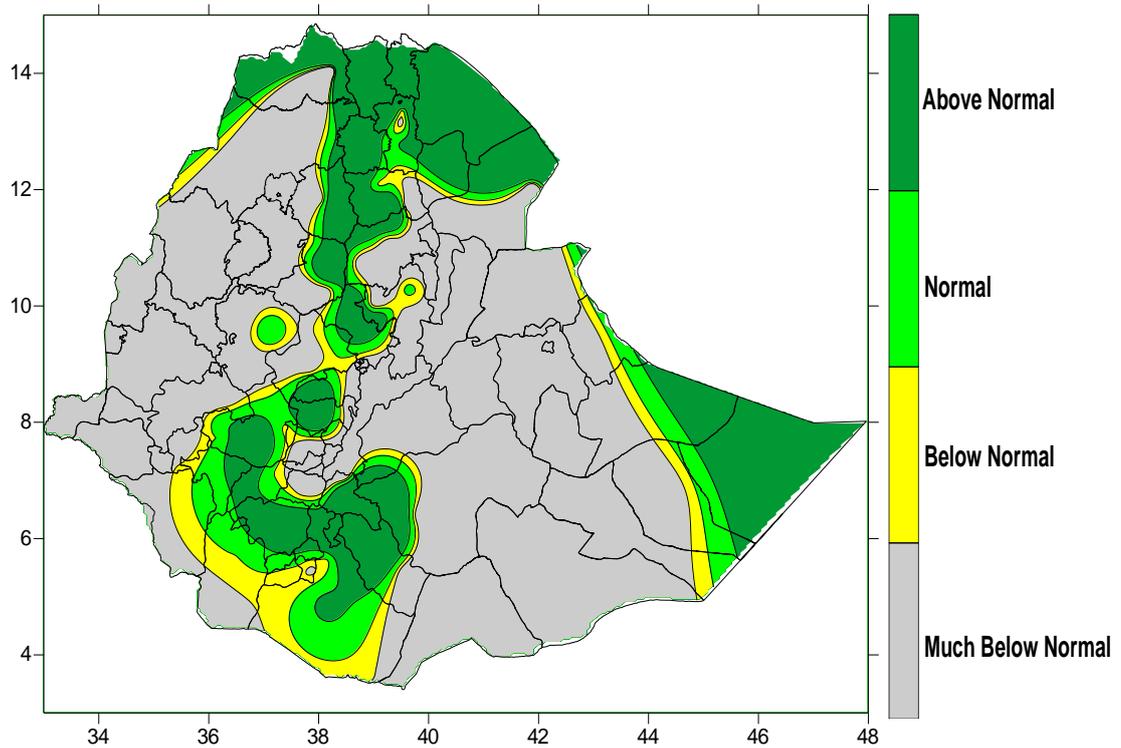


Figure 2: Percent of normal rainfall distribution (11 – 20 January, 2024)

Explanatory notes for the Legend

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

1.1. Moisture Condition (11 – 20 January, 2024)

During the first dekad of December 2023, Debub Omo, Mirab Omo and Gofa and Most parts of Sheka, Bench, Maji and Borena7 of the country exhibited moist to humid moisture conditions. The rest parts of the country experienced moderately dry to very dry moisture condition.

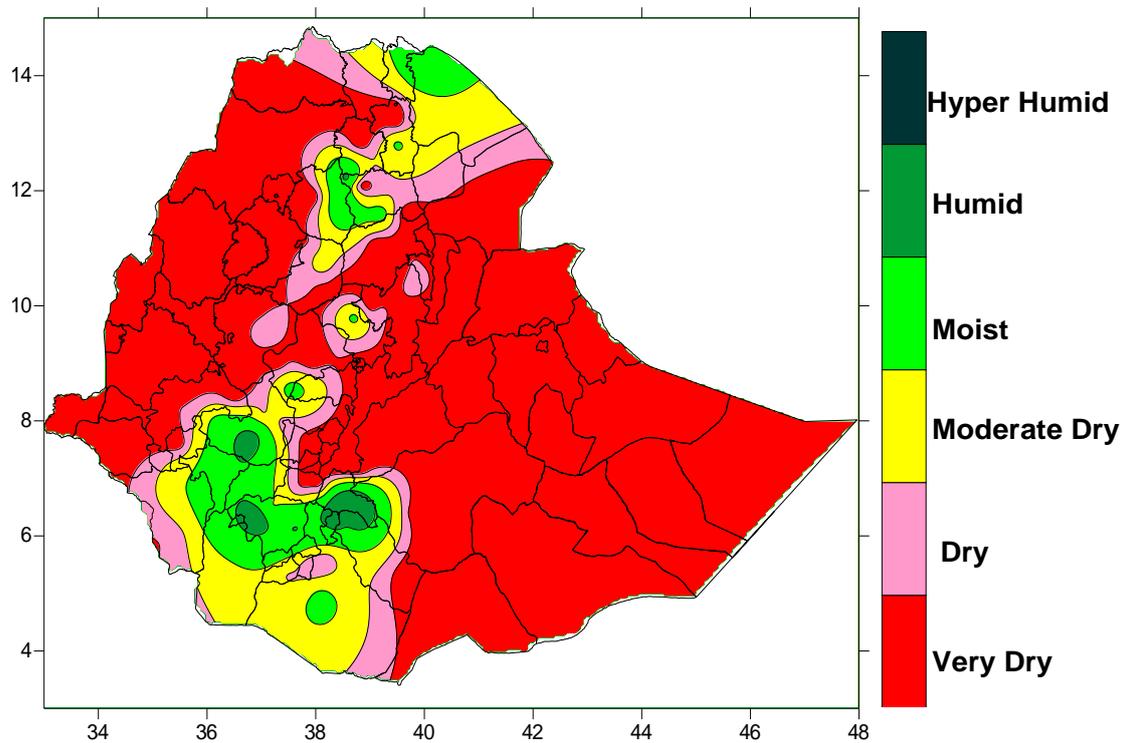


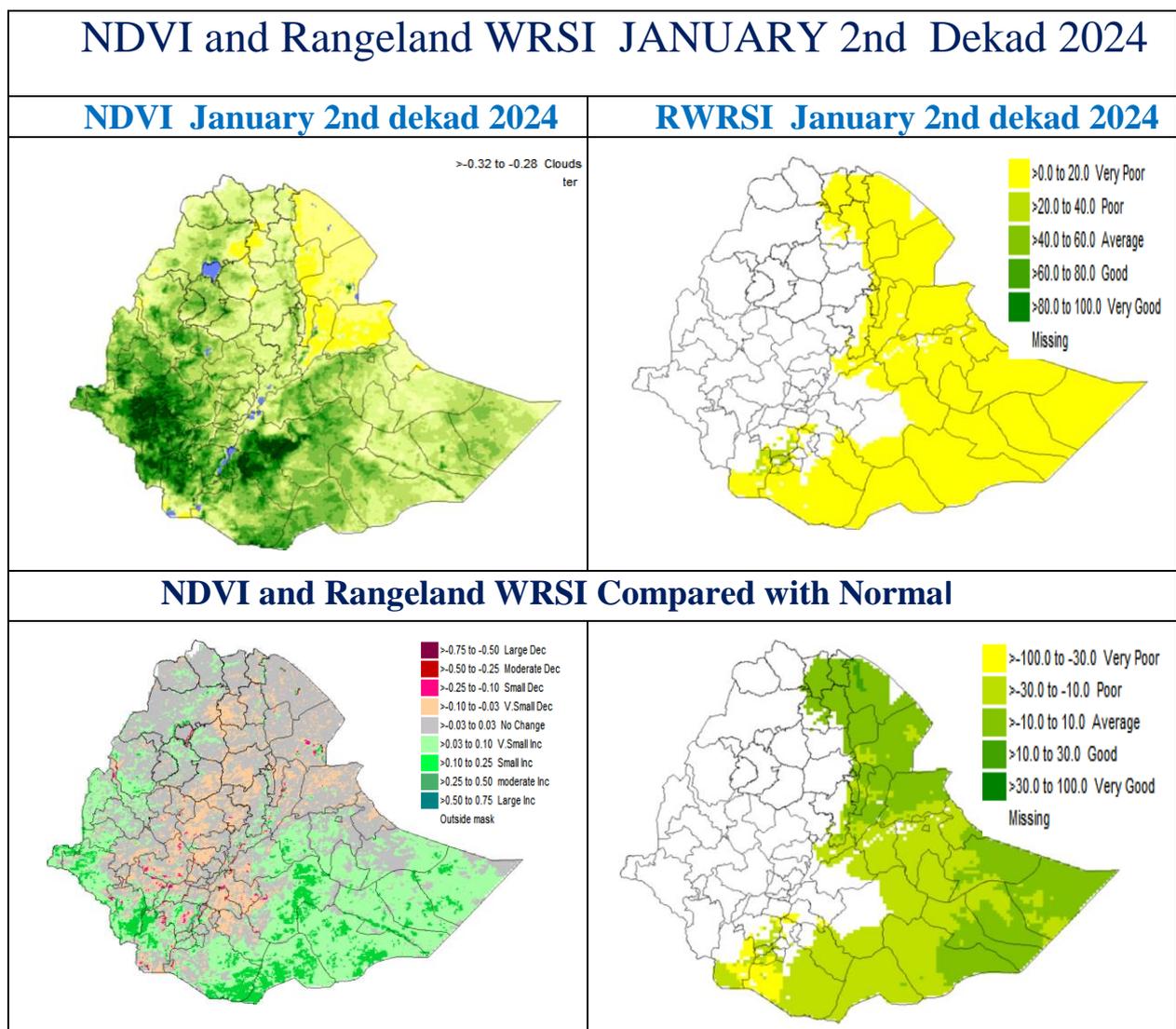
Figure.3. Moisture Status (11 – 20 January, 2024)

2. AGROMETEOROLOGICAL CONDITIONS AND IMPACT ON AGRICULTURE

2.1. VEGETATION CONDITION AND IMPACT ON AGRICULTURE

During first dekad of January, 2024, the moisture condition was enhanced over the southern and south-eastern Bega rain benefiting areas including south-western, central, eastern and western parts of the country.. Due to this the NDVI Fig.4 (the green plant coverage) and RLWRSI increased dekad to dekad in most of Bega rainfall benefiting areas. The situation might play crucial role toward improving the availability of pasture and drinking water and to regenerate natural and artificial ponds.

Fig.4. NDVI and Rangeland WRSI in % and Compared to Normal 10 – 20 January, 2024



2.2. EXPECTED WEATHER IMPACT ON AGRICULTURE DURING THE COMING THIRD DEKADE OF JANUARY 2024

According to the weather forecast, in the coming third dekad of January 2023, during the beginning days of the dekad Bega season dry moisture condition is expected to prevail across the Meher season producing parts of the country. The dry and sunny condition should be taken as good opportunity to perform post-harvest activities over the place where Meher season crops are fully matured. On the other hand, after the second half of the season slight to heavy moisture is expected over southern and western parts of the country this may be favourable for Bega season crops and perennial plants as well as to ensure the availability of pasture and drinking water for the pastoral and agro pastoral community. Moreover relative moisture improvement is anticipated over central, northeastern, and southwestern parts of the country and that will enhance the soil moisture and can play a positive role for Belg season land preparation which is expected to start in the head of the dekad.

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.

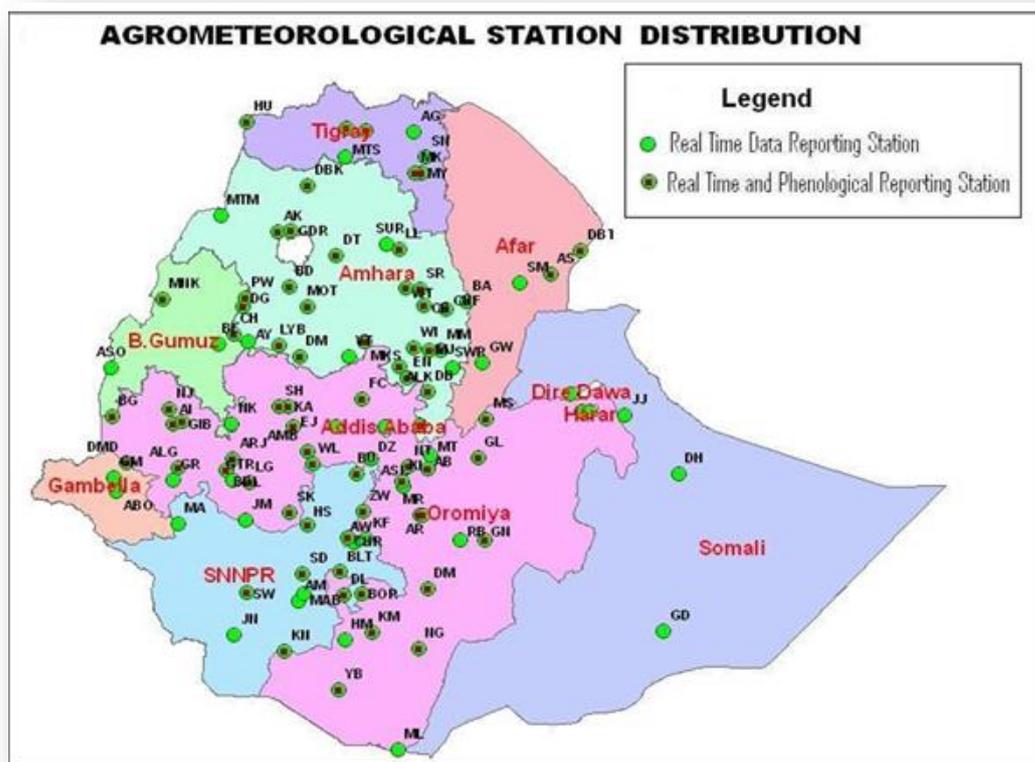
DEKAD: - First or second ten days or the remaining days of a month.

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



Station	Code	Station	Code	Station	Code	Station	Code
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
AlemKetema	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	SG
Assosa	ASO	Filtu	FL	M/Abaya	MAB	Gebeya	SR
Awassa	AW	Gambela	GM	Maichew	MY	Sirinka	SR
Aykel	AK	Gelemso	GL	Majete	MJ	Sodo	SD
B. Dar	BD	Ginir	GN	Masha	MA	WegelTena	WT
Bati	BA	Gode	GD	Masha	MA	Woliso	WL
Bedelle	BDL	Gonder	GDR	Mekele	MK	Woreilu	WI
BUI	BU	Gore	GR	Merraro	MR	Yabello	YB
Combolcha	CB	H/Mariam	HM	Metehara	MT	Ziway	ZW
D. Berehan	DB	H/Mariam	HM	Metema	MTM		
D. Habour	DH	Harer	HR	Mieso	MS		
D. Markos	DM	Holleta	HL	Moyale	ML		
		Hossaina	HS	M/Selam	MSL		