

Hydro meteorological and Flood Monitoring Bulletin: Feb 2ndst Assessment & Feb 3rd Dekade Impact Outlook, 2026



[EMI]

☐☐☐+251115538394☐☐☐ 0115517066 ☐☐☐☐☐emi@ethiomet.gov.et ☐☐ ☐☐☐ www.ethiomet.gov.et



Forward

*This Dekedal Hydro Meteorological Bulletin is prepared and disseminated by the Ethiopia Meteorological institute (EMI). The ultimate objective of producing and disseminating this bulletin is to inform all level decision makers with the updated and relevant hydro meteorological information. This Dekedal Bulletin reviews the **February 11-20, 2026** climate condition and its impacts over the river catchment across the country and highlights the **February 21-28, 2026** climate outlook along with the likely impact over the water dams and the rivers basins.*

The information contained in this bulletin is believed to assist the water professionals for planning the capacity expansion of reservoirs, water supply, ecosystem restoration as well as rehabilitation of existing systems including dams, irrigation, canals, pumps, wetlands and the likes. In addition to the aforementioned benefit the bulletin also reveals the aridity levels of each basin, extremes heavy rainfall events and areas where significant amount of moistures loss through evapotranspiration. In the impact outlook section of the bulletin it provides the likelihood of the climate in the coming month and its potential impact over various aspect of the river basins including the hydraulic structures such as culverts, bridges, reservoir spillways, road embankments and dikes. It also indicates the measures need to be taken as the early actions so as to reduce the possible negative impact of the upcoming month climate condition. Meanwhile, your comments and constructive suggestions are highly appreciated to make the objectives of this bulletin a success.



[EMI]

☐☐☐+251115538394☐☐☐ 0115517066 ☐☐☐☐☐emi@ethiomet.gov.et ☐☐ ☐☐☐ www.ethiomet.gov.et

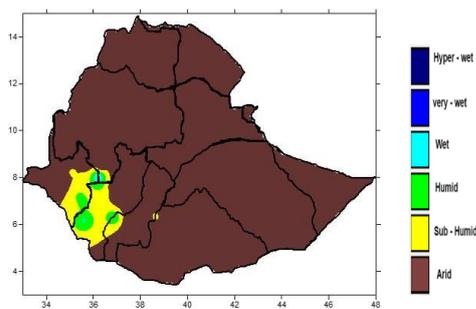


1. Introduction

The provision of hydro meteorological services can contribute a significant role toward water resource management and socio-economic development. Both surface water and groundwater management are essentially linked to climate variability. Therefore, the provided climate information and knowledge in this monthly hydro meteorological bulletin have a critical importance for efficient, equitable and sustainable development and management of the national water resources and for coping with any climate related risks. The information illustrates the impact of previous month climate on each and every water basins and the associated climate risks observed during the month under review. In addition to the previous month impact assessment, the bulletin also provided the expected climate condition for the coming months and its impact on the water resource. The design of water-use and flood-control facilities, mainly dams and reservoirs, is frequently based on these analyses. Estimating the likelihood of precipitation, the distribution of precipitation and the rate of evaporation in location and time, the heavy rainfall and the subsequent runoff, extreme temperature and wind are among issues that hydro meteorologists are concerned with.

1.1 Hydro-Meteorological Impact Assessment (February 11-20, 2026)

During the second eight days of February, most of the country's river basins were under arid conditions. However, a few basins experienced moderate surface water flow. While few basins these were mainly observed few areas of Middle and lower Omo-Gibe, upper Baro-Akobo, limited lower divide place Omo Gibe of Rift Valley basins had sub humid to humid Amount that indicates Hydro meteorological analyses , this situation made a moderate contribution to local water resource availability in those areas. On the other hand, the majority of the remaining basins particularly Abay, Wabi Shebelle, Tekeze, Awash, Rift Valley, Aysha, Ogaden and Mereb Gash, remained under arid conditions throughout the period. This condition had a negative impact on surface water availability across these basins.



[EMI]

☐☐☐+251115538394☐☐☐ 0115517066 ☐☐☐☐☐emi@ethiomet.gov.et ☐☐ ☐☐☐ www.ethiomet.gov.et



Figure 1 Dekad Hydro-Meteorological Assessments from February 01-10, 2026

1.2 Hydro-Meteorological Impact Outlook (February 21-28, 2026)

Next eight day most of our country’s watersheds are expected to remain under dry conditions in line with, in most of our country’s watersheds, the rate of evaporation is expected to increase due to the expected high daytime temperatures, and the water content of both natural and manmade water reservoirs is expected to decrease. Therefore, it is recommended that the relevant parties take precautionary measures to utilize the available water resources in a waste free and pollution-free manner.

River Basins	Moisture	Positive Impacts	Negative Impacts	Recommendations
Upper Awash; Upper and Middle Baro-Akobo; Omo-Gibe; Rift Valley; parts of Upper Genale-Dawa	Moderate to Near Normal	<ul style="list-style-type: none"> • Reduced flood risk • Moderate water availability for irrigation, hydropower generation, and drinking water supply 	<ul style="list-style-type: none"> • Relatively increased evaporation • Pressure on available water resources 	<ul style="list-style-type: none"> • Proper water harvesting and storage • Protect available moderate rainfall from wastage and contamination
Most parts of Tekeze; Wabi Shebelle; Awash; Genale-Dawa; Afar-Danakil; Mereb-Gash; Ogaden and Aysha	Dry Condition	<ul style="list-style-type: none"> • Reduced flood and sedimentation risk • Reduced pollution from runoff into rivers and other water bodies 	<ul style="list-style-type: none"> • Impacts on drinking water and other water services • Reduced river flow and declining water levels in other water bodies 	<ul style="list-style-type: none"> • Use water efficiently • Implement water conservation techniques



