

Hydro-meteorological and Flood Monitoring

Bulletin: January 1st Assessment & 2nd Dekad Impact Outlook, 2025



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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 January 01-10, 2026-month climate condition and its impacts over the river catchment across the country and highlights the January 11-20, 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.



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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 (January 01-10, 2026)

During the first ten days of January 2026, most parts of the Mereb-Gash, Abay, Tekeze, Rift Valley, Ogaden, Wabi-Shebelle, Afar-Danakil, and Aysha catchments were under arid conditions. However, the Upper Baro-Akobo and the Middle Omo-Gibe catchments experienced relatively better surface water flow conditions. As a result, the prevailing arid weather conditions within the catchments led to a reduction in surface water flows, a day-to-day decrease in water levels in various water reservoirs, and negative impacts on ecological systems.

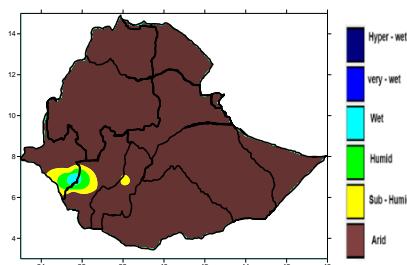


Figure 1 Dekad Hydro-Meteorological Assessments from January 01-10, 2026



1.2 Hydro-Meteorological Impact Outlook (January 11-20, 2026)

During the upcoming first dekad of January the prevailing weather conditions are expected to remain predominantly arid across most river basins, which may have notable impacts on the water sector. In line with this, moderate surface moisture flow conditions are anticipated in the Upper Baro-Akobo, parts of the Middle Omo-Gibe, and the Rift Valley, where there is no significant risk of flooding or sediment hazards and where moderate water availability for irrigation, hydropower generation, and domestic use is expected; however, increased evapotranspiration and declining surface water levels may lead to localized shortages of safe drinking water, particularly in lowland areas. In contrast, much of the Abay, Awash, Wabi-Shebelle, Upper Genale-Dawa, Afar-Danakil, Tekeze, Mereb-Gash, Ogaden, and Aysha basins are expected to experience conditions ranging from moderately arid to arid, with no flood or sediment risk but with declining river flows and reduced water availability, potentially affecting drinking water supplies and other water-related services. Accordingly, it is essential that relevant sectoral institutions implement the recommended hydro-meteorological advisories, protect available water resources from pollution and wastage, promote water conservation practices such as rainwater harvesting, and ensure the efficient and sustainable use of water resources to minimize adverse impacts.



