

Dekedal Hydro Meteorology



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 21-31 2025-month climate condition and its impacts over the river catchment across the country and highlights the February 1-10, 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.



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 10 day weather on each and every water basins and the associated climate risks observed during the day under review. In addition to the previous 10 day impact assessment, the bulletin also provided the expected climate condition for the coming ten day 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.

Hydro Meteorological Impact Assessment December 21-31, 2025

Weather conditions the past 3rd ten days in December have had a positive impact on the water sector, with most of the Omo Gibe, Rift Valley, Upper Wabi Shebele, Baro Akobo, and few Middle Abay basins experiencing moderate to high water flows; while the Middle and lower Rift Valley basins experienced very high surface water flows. This is due to the fact that the basins that received their second rainy season had better water flow, according to the hydro meteorological data analysed. On the other hand, the Afar Danakil, Tekeze, Aysha, Awash, and most of Abay basins were under dry conditions.



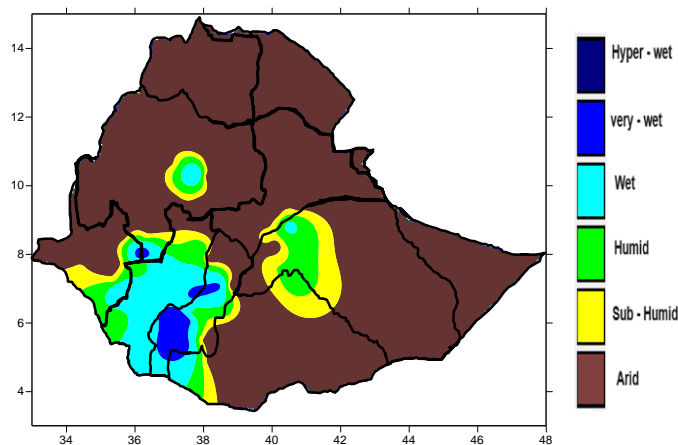


Figure 1 Dekedal Hydro Meteorological Assessments from December 1-31, 2025

1.2 Hydro Meteorological Impact Outlook for January 1 -10, 2026

The next 10 days of January most of the river basins will be dry weather condition. Such as Genale Dawa, Omo Gibe, Wabi Shebele, Tekeze, Afar Danakil, Aysha, Mereb gash and central Rift Valley. This situation will be reduce the flow of water body, it is recommended to proper water utilization and also keep water from unnecessary wastage and water pollution.

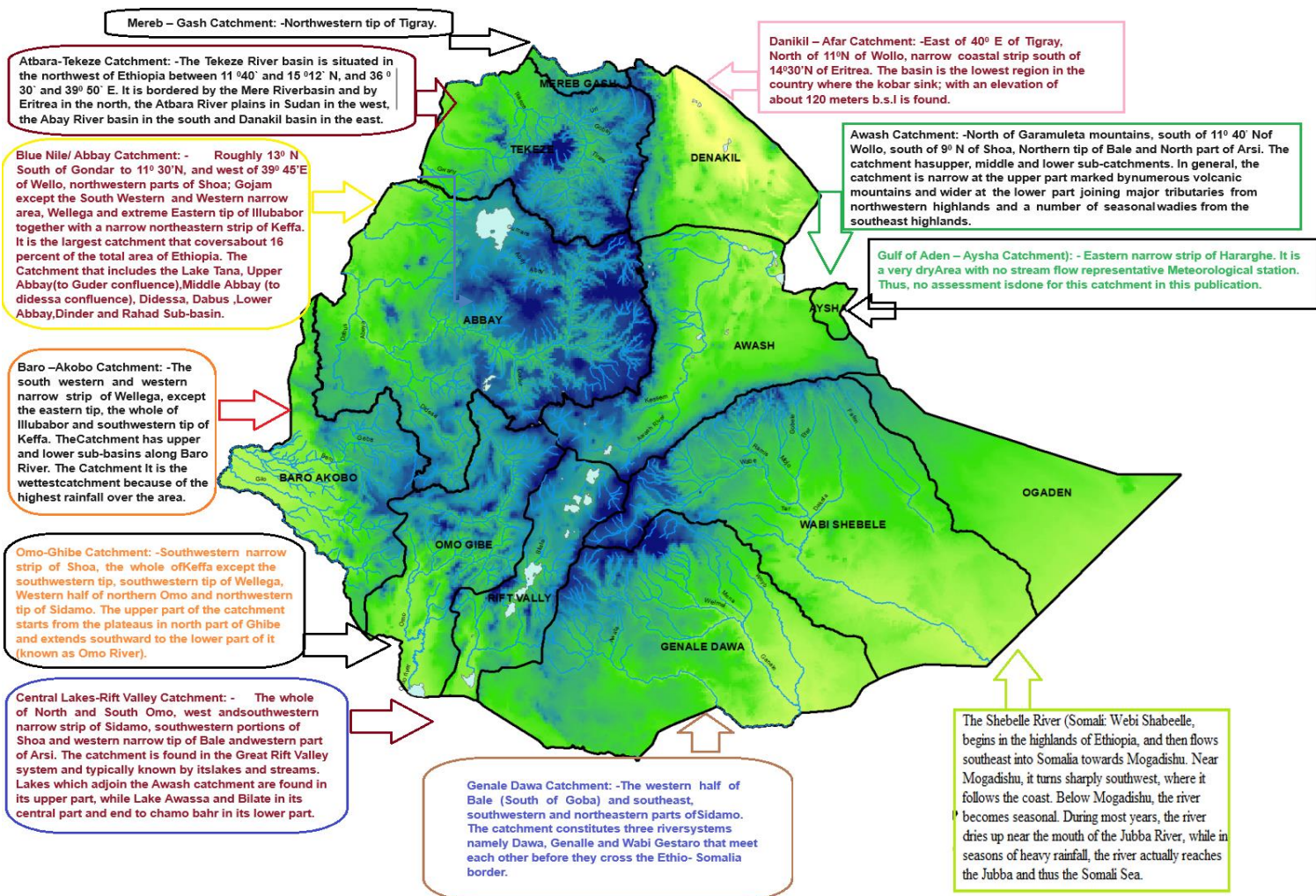
Therefore, it is highly advisable that a cautious approach to the utilization of water ought to be adopted by the affected communities.

These should include:

- Reducing unnecessary water wastage at home, agricultural, and industrial levels
- Preserving water sources from contamination and pollution
- Monitoring water levels in reservoirs, rivers, or irrigated agriculture

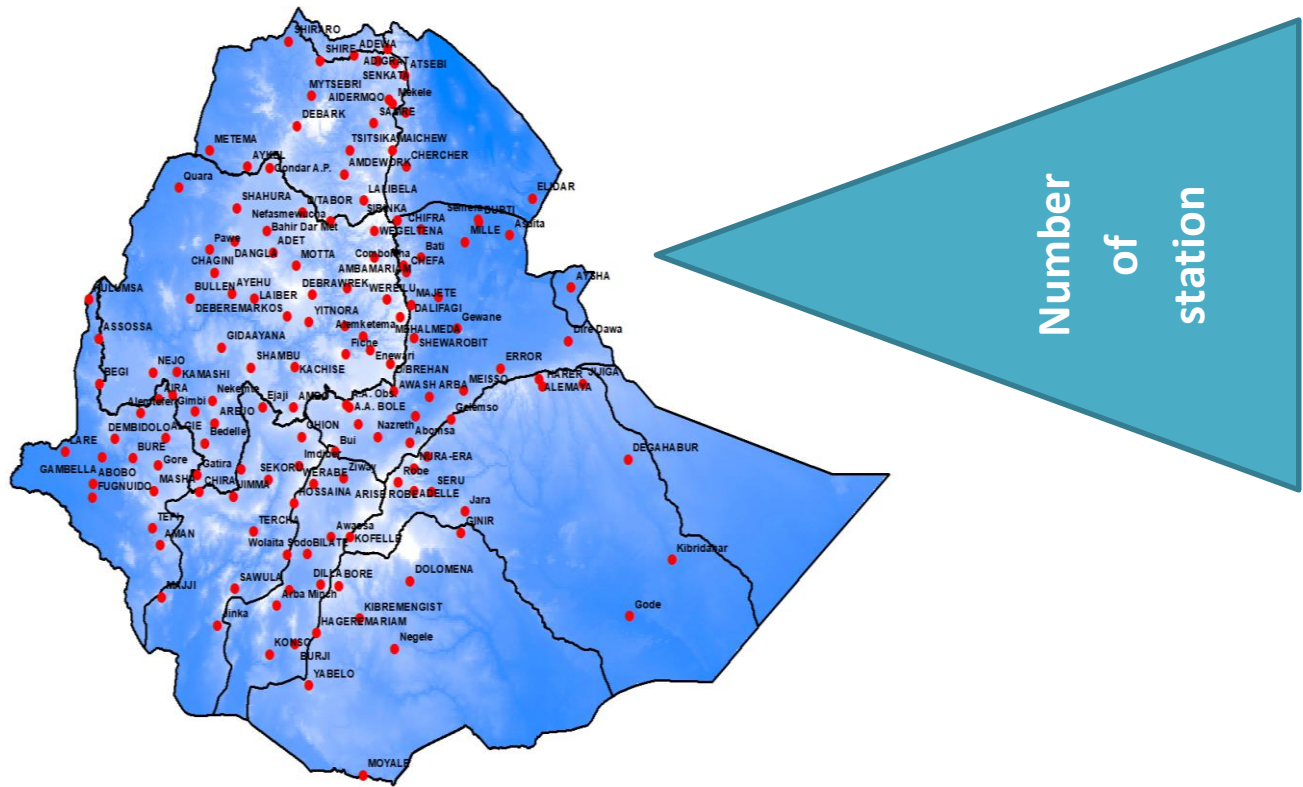
Active water management during the current drought period will ensure the sustainability of the availability of water, as well as the continued supply of clean water for use.





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