

Climate Prediction Center's Central Asia Hazards Outlook For USAID / FEWS-NET 15 December, 2022 – 21 December, 2022

Temperature:

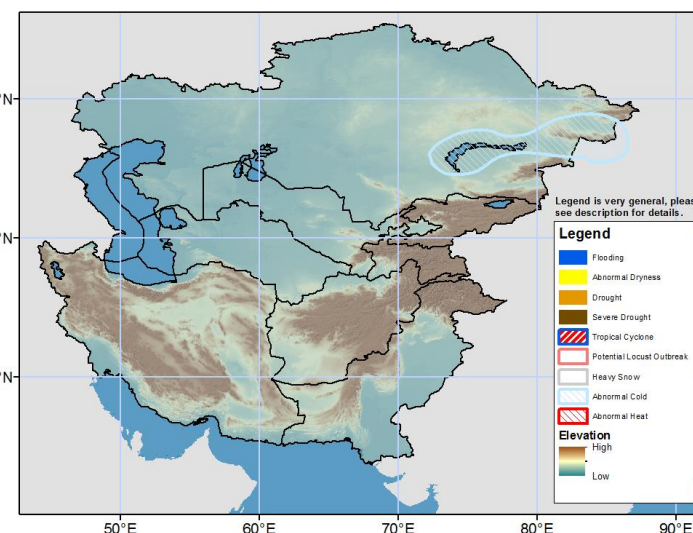
Weekly average minimum temperatures were below normal across most of Kazakhstan from 06 December – 12 December 2022, including 12 to more than 15 °C below normal from eastern Kyzylorda to western Abai. Such temperature anomalies were also found in central portions of the Aktoke region in Kazakhstan, western Uzbekistan, and northern Turkmenistan. Minimum temperature anomalies between 2 to 12 °C below normal also extended throughout the rest of Kazakhstan, most of Uzbekistan and Turkmenistan, northern and central Kyrgyzstan, northwestern Tajikistan, and western Afghanistan. Slightly above normal minimum temperatures were observed across southern Kyrgyzstan, southern Tajikistan, and northeastern Afghanistan (not exceeding 2-4 °C above normal). Weekly average minimum temperatures were observed around -25 to -35 °C across central and northeastern Kazakhstan, while minimum temperatures were observed around -25 to 0 °C across Kyrgyzstan, northwest, central, and eastern Tajikistan, southern and western Kazakhstan, most of Turkmenistan and Uzbekistan, and central and northeast Afghanistan.

The GEFS model forecasts below normal mean temperatures (2-10 °C below normal) across central and eastern Kazakhstan from 15 December – 21 December 2022. The largest anomalies could extend from the vicinity of Lake Balkhash to the region of East Kazakhstan. Above normal temperatures are expected (2-6 °C above normal) in western Kyrgyzstan, western and eastern Tajikistan, central and eastern Afghanistan, western Kazakhstan, eastern and western Uzbekistan, and western Turkmenistan, with the largest anomalies (4-6 °C above normal) in Kazakhstan's region of West Kazakhstan. Weekly average minimum temperatures are forecast around -25 to -15 °C across northeastern Kazakhstan, eastern and central Tajikistan, eastern Kyrgyzstan, and northeastern Afghanistan. A small portion of eastern Tajikistan could observe minimum temperatures between -30 to -25 °C. Minimum temperatures are forecast around -15 to 0 °C across central and western Kyrgyzstan, northwestern, central, and southern Kazakhstan, western and central Uzbekistan, northern Turkmenistan, and central and northeastern Afghanistan. An abnormal cold hazard is posted across eastern Kazakhstan from the vicinity of Lake Balkhash to the region of East Kazakhstan.

Precipitation:

Moderate precipitation (10 to 25 mm) was observed across northeastern Kazakhstan, western Kyrgyzstan, central Tajikistan, northeastern Uzbekistan, and northern and western Afghanistan. Light precipitation was observed across eastern and southern Kazakhstan, western Tajikistan, eastern Uzbekistan, central Afghanistan, and western and northern Kyrgyzstan from 06 December – 12 December 2022. Based on USGS analysis, positive snow depth and SWE anomalies currently exist across eastern and central Kazakhstan, central Tajikistan, western Kyrgyzstan, and in northern Afghanistan.

The GEFS weekly ensemble mean forecasts light to moderate precipitation across the northern tier of Kazakhstan, northeastern Afghanistan, and western Iran from 15 December – 21 December 2022.



Note: The Hazards outlook map is based on current weather/climate information, short and medium range weather forecasts (up to 1 week), sub-seasonal forecasts up to 4 weeks, and assesses the potential impact of extreme events on crop and pasture conditions. Shaded polygons are added in areas where anomalous conditions have been observed and predicted to continue during the outlook period. The boundaries of these polygons are only approximate at the spatial scale of the map. This product takes into account long range seasonal climate forecasts but does not reflect current or projected food security conditions. FEWS NET is a USAID-funded activity whose purpose is to provide objective information about food security conditions. Its views are not necessarily reflective of those of USAID or the U.S. Government. The FEWS NET weather hazards outlook process and products include participation by FEWS NET field and home offices, NOAA-CPC, USGS, USDA, NASA, and a number of other national and regional organizations in the countries concerned. Questions or comments about this product may be directed to Dr. Wassila Thiaw, Head, International Desks/NOAA, wassila.thiaw@noaa.gov. Questions about the USAID FEWS NET activity may be directed to Dr. James Verdin, Program Manager, FEWS NET/USAID, jverd@usaid.gov.