U.S. Climate Resilience Toolkit

WATER RESOURCES DASHBOARD

All U.S. regions and sectors depend on reliable water supplies to support the health, safety, and welfare of people and businesses.

To help the nation develop resilient water resources, NOAA and partners developed the Water Resources Dashboard: a one-stop website for data and information on drought, flooding, precipitation, climate, and other water-related risks and opportunities. The Dashboard is accessible through the U.S. Climate Resilience Toolkit, which is an interagency initiative operating under the auspices of the U.S. Global Change Research Program. The Toolkit is managed by NOAA's Climate Program Office.

With the Dashboard, water resource managers and urban planners can easily access maps and data to help them monitor the potential for extreme precipitation and drought in their regions.

The Dashboard provides climate forecasts, outlooks, and projections; current and historical observations; and map layers. The site includes a thumbnail description of the data source, a direct link, and in many cases a video demo and a case study of how the data source was used in local decision making.

The Water Resources Dashboard is the result of years of collaboration.

NOAA has been partnering with the U.S. Global Change Research Program (USGCRP) and reaching out to water sector stakeholders since the early 2000s to improve the federal government's capacity to provide climate and weather information services. NOAA offices active in this effort include the Climate Program Office's Climate and Societal Interactions Division and the National Centers for Environmental Information.

In response to stakeholder requests at forums and workshops, NOAA and USGCRP built the Water Resources Dashboard and released it in 2016.

American Water Works Association, Association of Metropolitan Water Agencies, Water Environment Research Foundation, Water Research Foundation, and the American Planning Association all offered input on what should be the Dashboard's components.

VISIT: toolkit.climate.gov/water/water-resources-dashboard | CONTACT: noaa.toolkit@noaa.gov

The Dashboard is the result of workshops convened by NOAA, NASA, EPA and other partners in 2010 and again in 2020.

More than 80 water utilities and water managers attended the 2010 forum, provided input, and discussed coastal adaptation, extreme events, and the energy-water nexus. More workshops followed. They examined water and wastewater utility practitioners' planning and response to extreme events. The partnership published a 2014 report on the findings.

WATER RESOURCES DASHBOARD:

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Years of collaboration resulted in the Water Resources Dashboard

>1000
Water utilities, water managers, and communities provided direct input toward its development

>50
Critical water-related weather and climate resources on the Dashboard categorized by weather, water, and climate

>20
Informational webinars, numerous demonstration case studies, and a guided web app for new users

An evolving one-stop platform of NOAA's weather, water & climate data, information & resources

The 2020 workshops focused on how to improve the Dashboard to meet needs of water managers in small- to medium-sized communities.

The workshops revealed that these managers need more local data including soil moisture and snowpack monitoring, changes in precipitation and cloudbursts, and standards for integrating changes in weather and precipitation into hydrological models and tools. NOAA compiled these recommendations in a report, and began revisions to the Dashboard. NOAA will continue to collaborate with federal agencies and water sector professionals to ensure the Dashboard is relevant, accessible, and accurate.