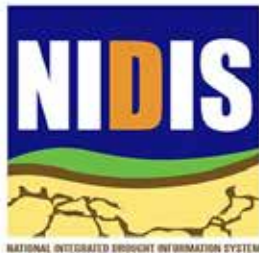


ACF RIVER BASIN DROUGHT & WATER DASHBOARD

Overview for ACF Waters Conference

April 28, 2022



Our Team



Steve Ansari



Kelsey Satalino



Rocky Bilotta



Meredith Muth



Mark Masters



Kristin Rowles



Rachel McGuire



Chris Manganiello



Working together to share a common resource.



This new resource will help the public, decision makers, researchers and the media get answers to many questions:

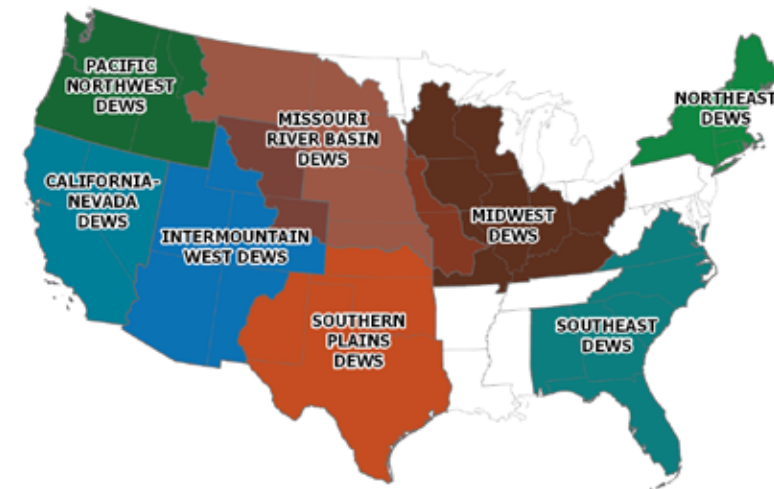
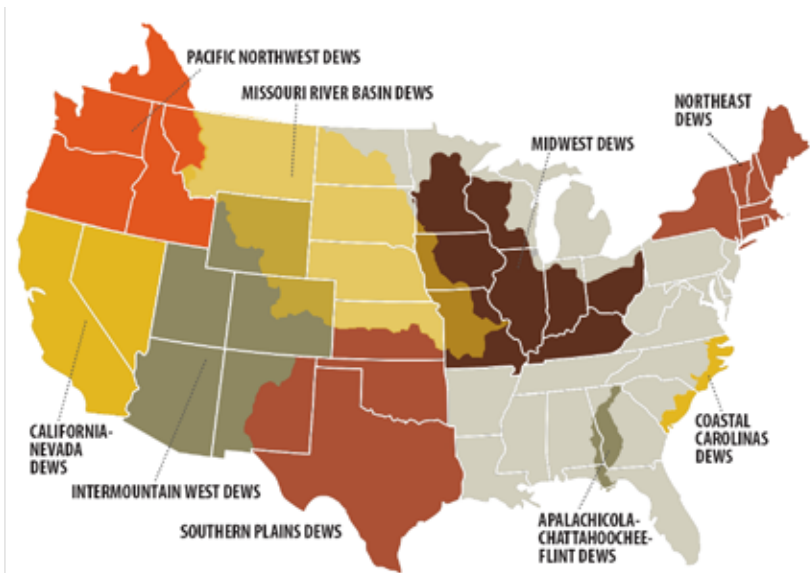
- Why does drought matter to the ACF River Basin?
- What are the current drought and water conditions across the basin, but also in my county?
- What should we expect over the next 3 months?
- How does this drought compare to previous droughts in the basin?
- Where can I get additional information?



What is the National Integrated Drought Information System (NIDIS)?


- First authorized by Congress in 2006, and reauthorized in 2014 and 2018
- Enable the Nation to move from a **reactive to a more proactive approach to managing drought risks and impacts**
- Authorizes NIDIS to engage in **partnerships** with federal, tribal, state, and local partners, as well as the private sector, academic institutions, and citizen scientists
- Interagency mandate to develop and provide a national **drought early warning information system**

Where did the concept of an ACF-focused Dashboard come from?



Request from regional partners under the previous ACF Drought Early Warning System (DEWS) for NIDIS to assist in bringing together multiple sources of drought and water information in one place, to improve access and usability

User-Driven Development Process Utilized



User Listening Sessions

Prototype Development

Key Partner Review and Prototype Refinement

User Review Sessions and Usability Testing

Finalize and Launch

Spring 2020

2020-2021

Summer 2021

Fall 2021

Jan 2022

2020 Listening Session Participation

Federal Agencies

USGS
USEPA
US Army Corps of Engineers
NOAA
National Park Service
USDA
CDC

Nongovernmental Organizations

Chattahoochee Riverkeeper
ACF Stakeholders
Alabama Rural Water
Apalachicola Riverkeeper
American Rivers
Georgia Lakes Association
Georgia Conservancy
Georgia Farm Bureau
Southern Environmental Law Center
Alabama Rivers Alliance
Florida Riparian County Stakeholder Coalition
The Nature Conservancy
Lake Lanier Association

State Agencies

Georgia Environmental Protection Division
Georgia Dept of Natural Resources
Georgia Forestry Commission
Florida Dept of Environmental Protection
Alabama Dept of Economic and Community Affairs
Alabama Soil & Water Conservation Committee
Geological Survey of Alabama
Alabama Office of the State Climatologist
Florida Climate Center
Florida Fish and Wildlife Conservation Commission
Florida Dept of Agriculture and Consumer Services

Universities/Research Institutions

University of Alabama Huntsville
Jones Center at Ichauway
Auburn University
Alabama Cooperative Extension
University of Georgia
Florida State University
National Drought Mitigation Center

Local/Regional Agencies

City of Griffin (GA)
Cobb County (GA)
Sumter County (GA)
Atlanta Regional Commission
Suwannee River Water Management District
Cobb County-Marietta Water Authority (GA)
City of West Point (GA)
City of Gainesville (GA)
Gwinnett County (GA)
Columbus Water Works (GA)

Companies

Southern Company
Hazen and Sawyer
Jacobs
L2G Environmental
AECOM
Rhumblin Consultants PLLC
Oglethorpe Power Corp
Carolinas Integrated Sciences and Assessments
Trutta Environmental Solutions
Arcadis
Georgia Power
Wilcom Group
Global Energy & Water Consulting, LLC
Farmland Reserve, Inc.

103 Participants

How Do You Use Drought Information

- Situational awareness
- Answer specific questions
- Make decisions about restoration projects
- Inform prescribed burn decisions
- Closure decisions for shellfish beds
- Recreation decisions (e.g., boating, beaches)
- Hydropower management
- Reservoir management
- Construction project decisions
- Planting decisions (farmers & gardeners)
- Water supply operations guidance
- Environmental monitoring implementation decisions
- Fishing tournament planning
- Communicate with media
- Educate students
- Public education

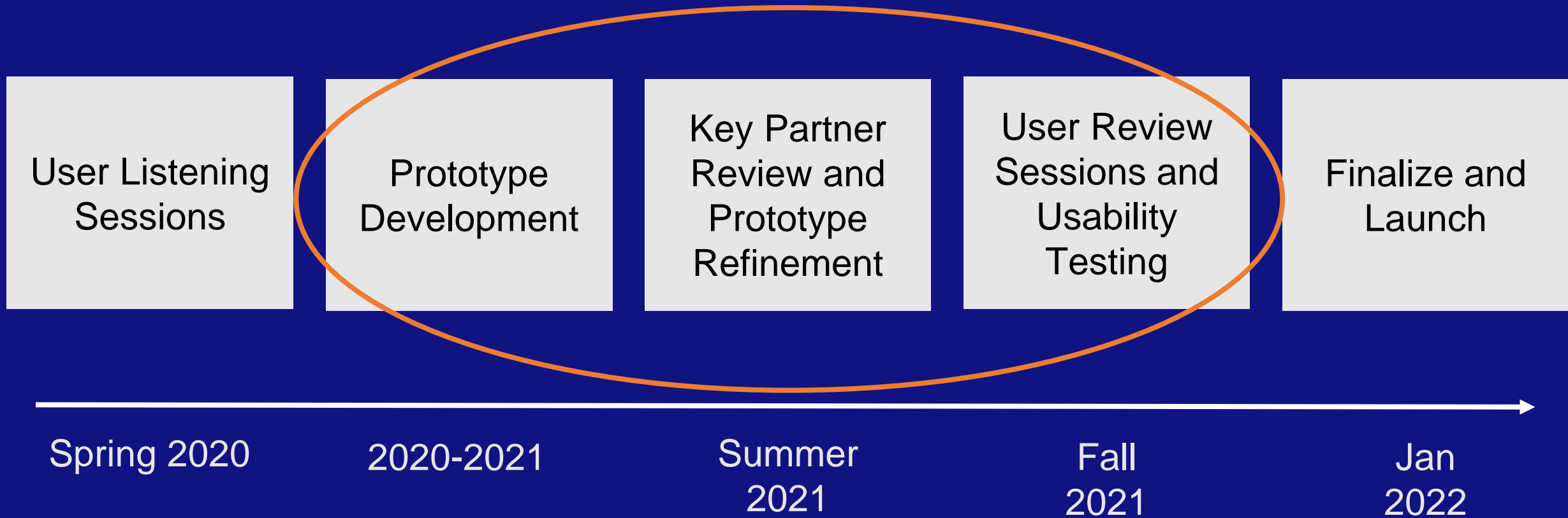
What People Are Looking For

- Real time or up-to-date data
 - Supports comparisons
 - Expertise
 - Regionally or locally specific
 - Understandable
 - Quick visualizations
 - Access to primary data
 - Detailed data available but not overwhelming
 - Comprehensive
 - Easily accessible
 - New drought prediction tools
 - Early drought warning
 - No advertisements
 - Email newsletter available
 - Archived information that supports comparison to past conditions
 - Context for interpretation*
-

Looked at Examples of Existing Web-based 'Dashboards'

- Great Basin Weather and Climate Dashboard
- Sea-Level Rise View and Climate Engine (NOAA)
- University of Montana Drought Indicators Dashboard
- Alaska Drought Operations Dashboard
- Johns Hopkins University COVID-19 Dashboard
- Texas Story Map (NOAA)
- New Drought.gov website

User-Driven Development Process Utilized



* Future evaluation and updating as needed; will 'relaunch' when drought returns

What We Heard in the Prototype Review

- Positive reactions: especially ACF focus, one-stop shop, Story Map, historical data
- How people will use it
- How to improve graphics
- Reactions to possible additions
 - Streamflow forecasts
 - Groundwater information
 - Reservoir data
- Suggested modifications (e.g., precipitation data; state/regional drought status)
- Like having
 - Fire and drought index information
 - Lawn and garden index
 - Real-time data
 - Precipitation forecasts
 - Historical drought data
 - Story map
 - Agricultural information
 - Downloadability of graphics
 - ACF boundaries on maps
- Navigation/browser issues

Let's explore the new ACF Drought and Water Dashboard

ACF DROUGHT & WATER DASHBOARD

Apalachicola-Chattahoochee-Flint (ACF) River Basin Drought & Water Dashboard

Explore timely and reliable information on past, present, and future drought conditions to increase drought early warning capacity and support decision making across the ACF Basin.

[ACF Dashboard Home](#)

[ACF Maps & Data](#)

[Story Map](#)

[Additional Resources](#)

<https://www.drought.gov/watersheds/acf-dashboard>

ACF River Basin Drought & Water DASHBOARD

Questions? Suggestions?
Meredith.f.muth@noaa.gov

Request for our ACF community:

- Familiarize yourself with Dashboard
- Let us know what you think
- Help us spread the word!
- Will 're-launch' when drought returns

