NOAA's Colorado Basin River Forecast Center

An Overview of the CBRFC

2017 Stakeholder Open House



Overview

- Who we are
- Summary of operations
- Products and Services





Who Are We?



- Part of NOAA NWS, one of 13 RFCs nationwide
- An operational field office located in Salt Lake City, UT
- Highly collaborative, reliant on partners and data
 - All about decision-support!

Who We Are

- Work with a broad and diverse set of stakeholders
 - Weather Forecast Offices and Reclamation
 - Municipal and Agricultural Water Users
 - USGS, NRCS, and many other federal agencies
 - State agencies, Academics, NGOs, Tribes
- Receive data from many of these sources





Providing Decision Support



Stakeholder Needs Are Changing

- Where we were:
 - What is THE forecast?
 - How much water is there?
 - How much snow is there?
 - Will there be flooding?

- Where we are going:
 - What is the range of forecasts?
 - What is the likelihood of reaching this flow?
 - What if it's a dry/wet year?
 - What is the risk to filling my reservoir?
 - What is your uncertainty?



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Colorado Basin River Forecast Center SAN JUAN - BLUFF, NR - Hydrograph 8.0 5200 Current: 4.0 (09/30.12), Flood Stage: 23.00, Bankfull: 22.00 Created 09/30.19:04 G MT 7.4 4300 NOAA/CBRFC, 2016 6.8 3500 6.1 2800 5.5 2200 4.9 1600 4.3 1200 3.7 820 3.1 500 2.4 247 Past ① Future Outlook 1.8 o 09/21 09/23 09/25 09/27 10/01 10/03 10/05 10/07 10/09 10/11 09/29 month/day (MDT)

Observed — Forecast (09/30.14:00) — Outlook (increasing uncertainty) •• Historical Exceedance Probability (USGS): 90-75% 75-50% 50-25% 25-10%

Support flood warning efforts by weather forecast offices

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- Water Supply Forecast
 - Utilize an ensemble of future climate to generate possible streamflow futures
 - Dependent on precipitation information during the runoff season – we pay close attention to snowpack
 - Model soil moisture component is very important
- The more information we have the better!







Peak Flow Forecasts

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- Mean Daily Peak Flow
- Helpful for environmental resource managers
- Meet environmental targets



Coordination Efforts

- Stakeholder Open House (Like this one!)
 - Broad range of stakeholders
 - Introduce new products and services
 - Reinforce traditional products and services
 - Important for us to get feedback
- Frequent webinars
 - Water supply, peak flows
 - Custom Webinars for your group
 - WFO Coordination



Coordination Efforts

- Participation in stakeholder-run meetings and events
- Participation in multi-agency efforts
 - Landscape Conservation Cooperatives
 - Climate Science Centers
 - NOAA RISAs (like CLIMAS or WWA)
 - Others
- Direct contact by phone, e-mail, etc...



COLORADO BASIN RIVER FORECAST CENTER

NATIONAL WEATHER SERVICE / NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

HOME	RIVERS	SNOW	WATER SUPPLY	RESERVOIRS	WEATHER	CLIMATE	HELP	ABOUT	NEWS	SEARCH	
News	Most recent presentations of Water Supply Briefings can be found here: Read More										

Conditions Map

Help



How can we help?

- What sites, areas are important to you?
- Is there a site or area that you would like us to add?
- What are your major concerns and decisions? What kind of information can we provide to help with decision support?



How can you help?

- We always need data and can work with you to get us the information in a way that is convenient to you
 - If there's enough data, we can add points
 - Changes to operations
- What are your major decision points?
- Let us know how we can help!

