

Water Resources Monitoring and Outlook

Outline

- Case for the WRMO
- WRMO prototype demo
- Future enhancements to the WRMO
- Feedback

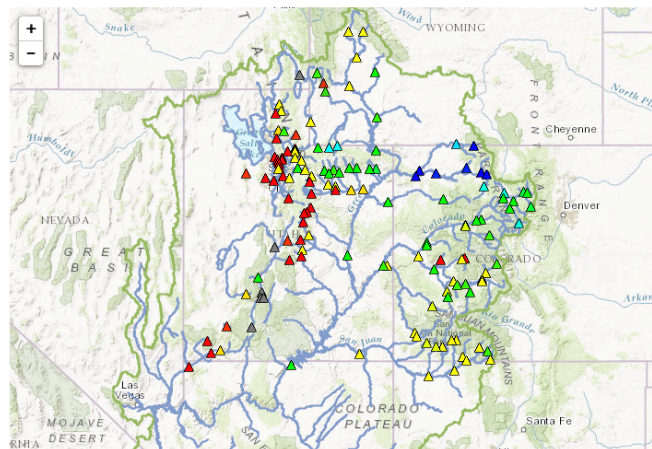
COLORADO BASIN RIVER FORECAST CENTER

NATIONAL WEATHER SERVICE / NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

HOME RIVERS SNOW WATER SUPPLY RESERVOIRS WEATHER CLIMATE HELP ABOUT NEWS

News Most recent presentations of Water Supply Briefings can be found here: [Read More...](#)

Conditions Map



River Conditions

Snow Conditions

Water Supply Forecasts

Official Forecast Date: 2016-6-1
ESP Model Run Date: 2016-07-31

☒ Show ☐ Hide Other Types

- ☒ Official Percent Average
- ☐ Official Percent Median
- ☐ ESP Model Percent Average
- ☐ ESP Model Percent Median

- ▲ < 70%
- ▲ 70-90%
- ▲ 90-110%
- ▲ 110-130%
- ▲ > 130%
- ▲ Regulated
- ▲ No Forecast

- ☒ CBRFC
- ☐ WGRFC
- ☐ ABRFC

CALIFORNIA NEVADA RIVER FORECAST CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

HOME HYDROLOGY WEATHER CLIMATE RESEARCH / OUTREACH LINKS SEARCH ABOUT US

Local forecast by "City, B" or ZIP Code

NOAA / NWS News and Local CNRFC Information
New "About CNRFC" Section Added - Learn more about the CNRFC and our various products on our new "About CNRFC" pages under the "About Us" menu above, or click the direct link [here](#).

October 2016 Datum Change - On Oct 3, 2016 the CA Department of Water Resources will change the reporting of river stage data collected on 5 locations in the lower Sacramento River area from the current datum (NGVD29) to the NAVD83 datum. This will affect critical stages at these locations. For more information on these changes, please check out [this webpage](#) hosted by CDEC (California Data Exchange Center).

NORMAL All River Guidance (Flood Forecast) Points Are Currently and Forecast to Remain Below Critical Stages **NORMAL**

Recently-Issued CNRFC Text Products: (ID) Date/Time Issued to Web

Home Page Version: Interactive Map | Legacy

Geographic ☒ CNRFC Boundary ☐ States ☐ Counties ☐ Lakes ☐ Rivers

Overlays ☐ Drainage Basins ☐ National Parks ☐ Burn Areas 2015 — 2014 — 2013 —

Point Data Filters Elevation Filter: -500 to 15000 ft

Download Plot

Map Search

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Northwest River Forecast Center

Water Supply Forecasts



River and Hydrology Water Supply Observations Weather Forecasts Climate NWRFC

Search Enter NWS ID:

Map Overlays ☒ NWRFC Boundary ☐ NWRFC Basins ☐ NWS HSAs ☐ Counties

ESP WS Volumes ☒ Status ☐ Percent of Normal ☐ Rank (ASC) ☐ Rank (DESC) ☐ Exceedance (%) ☐ Percentile (%) ☐ Runoff Status ☐ Runoff % of Normal

Water Supply Forecast

Period: APR-SEP (% Normal)

COLUMBIA - JOHN DAY DAM (JDAO3) Forecasts for Water Year 2016

Official Forecast

10 days QPF: Ensemble: 2016-09-15 Issued: 2016-09-15

Forecasts Are in KAF

30 Year Average (1981-2010)

Forecast Period 90 % 50 % Average 10 %

APR-SEP 81740 81811 90 81954 90714

APR-JUL 72179 72179 92 72179 78433

JAN-SEP 104591 104591 95 105173 110866

JAN-JUL 95398 95398 97 95398 95896

OCT-SEP 119431 119431 95 119717 126095

5 days QPF: Ensemble: 2016-09-15 Issued: 2016-09-15

Forecasts Are in KAF

30 Year Average (1981-2010)

Forecast Period 90 % 50 % Average 10 %

APR-SEP 81572 81780 90 82046 90714

APR-JUL 72179 72179 92 72179 78433

JAN-SEP 104591 104591 95 105339 110866

JAN-JUL 95398 95398 97 95398 95896

OCT-SEP 119343 119451 95 119717 126095

0 days QPF: Ensemble: 2016-09-15 Issued: 2016-09-15

Forecasts Are in KAF

30 Year Average (1981-2010)

Forecast Period 90 % 50 % Average 10 %

APR-SEP 81545 81732 90 82121 90714

APR-JUL 72179 72179 92 72179 78433

JAN-SEP 104764 104951 95 105339 110866

JAN-JUL 95398 95398 97 95398 95896

OCT-SEP 119343 119451 95 119717 126095

Stations Displays

Water Supply

Forecast Listing

Forecast Report

Forecast Report CS

Forecast Report CS

Forecast Report CS

Forecast Report CS

Forecast Report CS

Forecast Report CS

Forecast Report CS

Forecast Report CS

Forecast Report CS

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Water Resources Monitor



Water Year: 2016



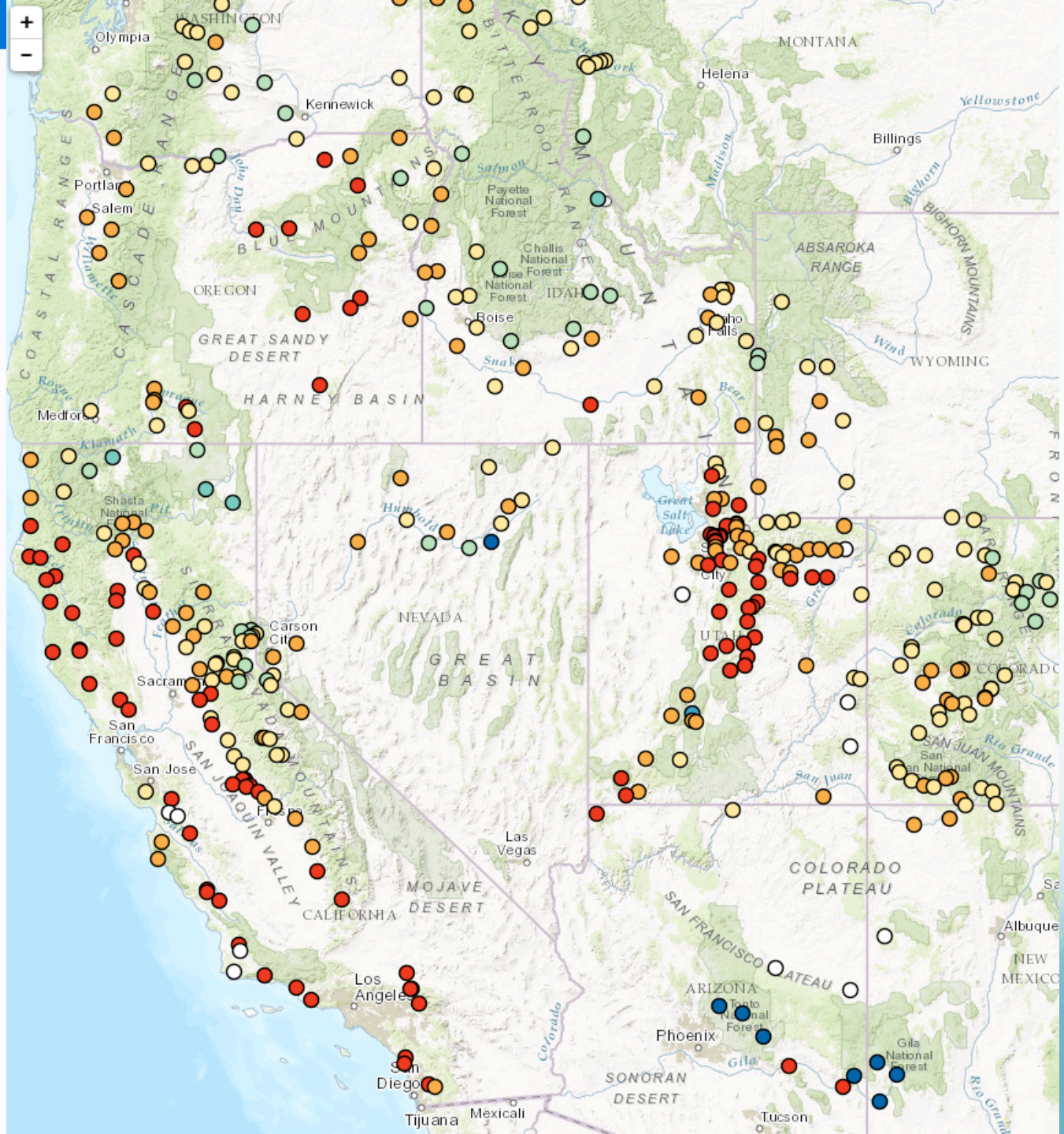
Period: April July



Forecast Date: 2016-04-21

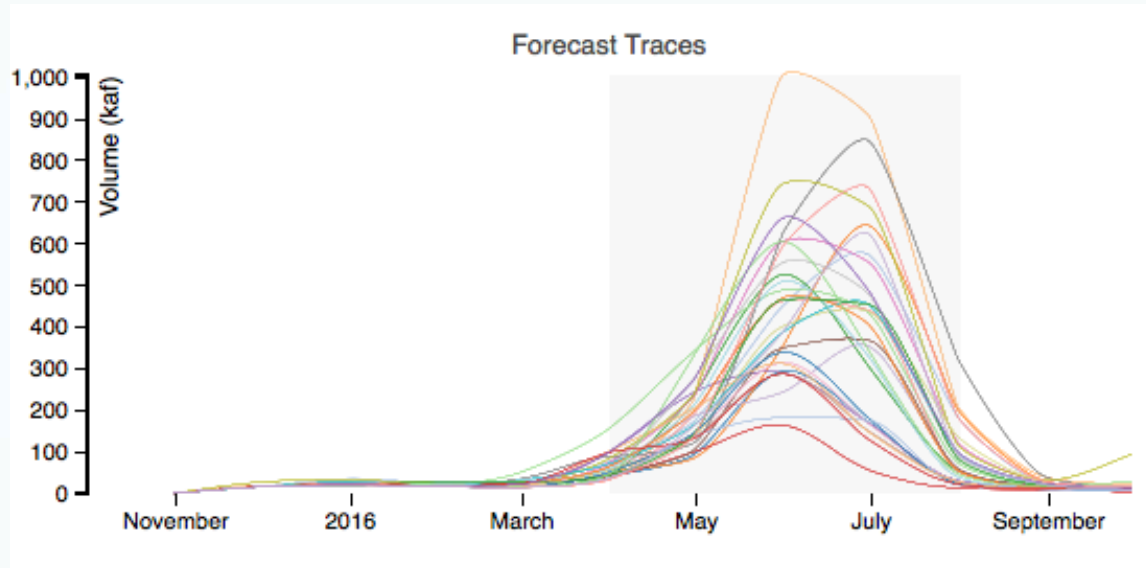
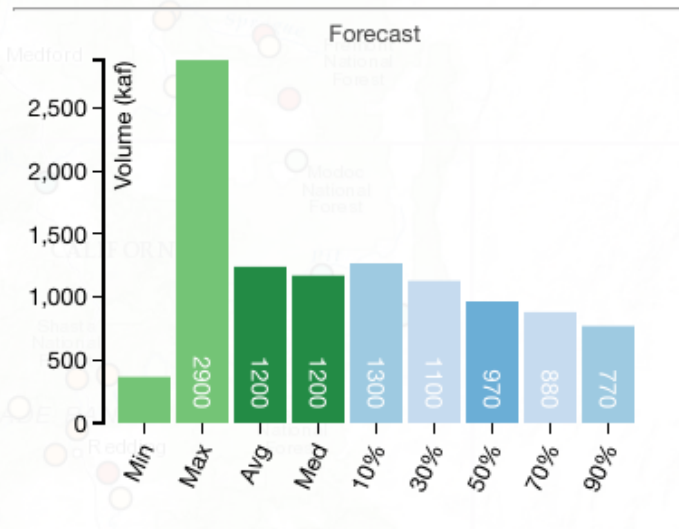
Data Type: Percent Average

- No Data
- < 50%
- 50 - 70%
- 70 - 90%
- 90 - 110%
- 110 - 130%
- 130 - 150%
- > 130%



Forecast Point Details

Yampa - Deerlodge Park



Yampa - Deerlodge Park (YDLC2)

Water Year
2016

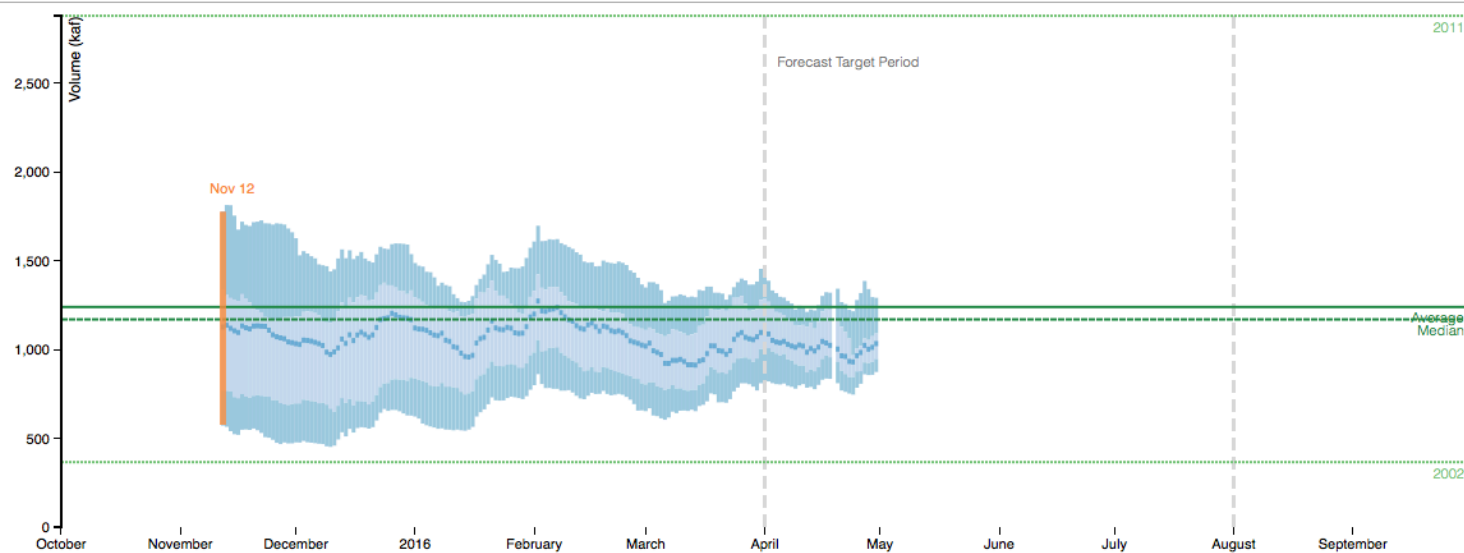
Forecast Period
Apr - Jul

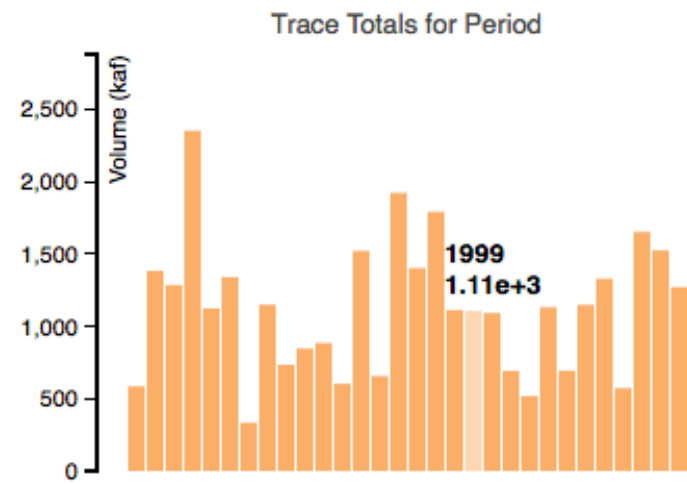
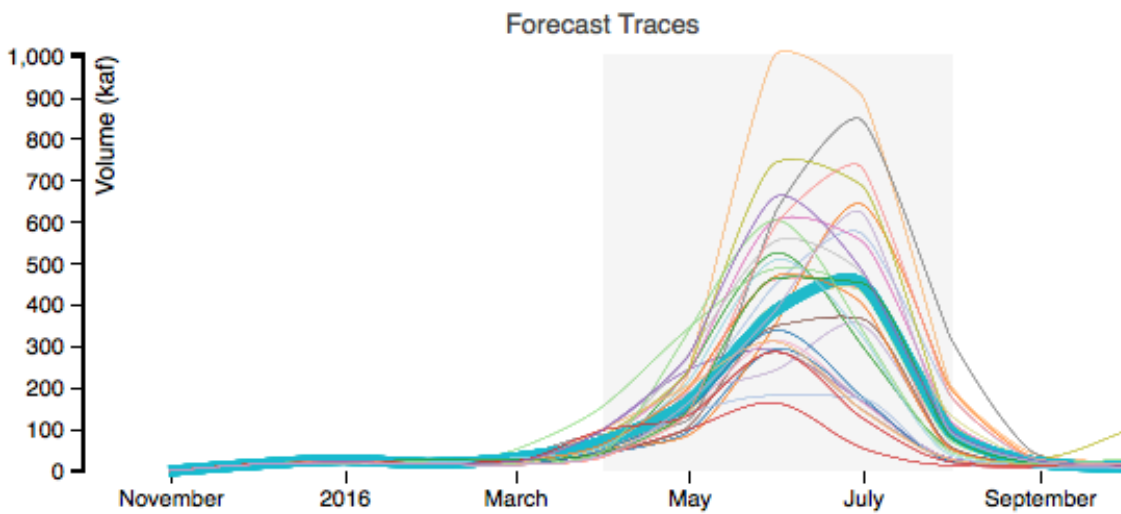
Selected Forecast
Nov 12

Most Probable
1128 kaf

Average
1240 kaf

Percent Average
91%





Benefits of WRM0

- One location for all forecasts
- More flexibility
- User defined periods
- Updated daily
- Stakeholder driven

Future features

- Supporting data:
 - Snow information (observed)
 - Soil moisture information
 - Temperature and precipitation
 - Reservoir conditions
- Documentation
- Climate outlook information
- Verification information

Feedback

The background of the slide features a series of overlapping, wavy lines in shades of light blue and pale green. These lines create a sense of depth and movement, resembling a stylized landscape or a digital wave pattern. The colors are soft and pastel, contributing to a clean and modern aesthetic.