

Water Supply Availability Committee/Drought Readiness Council Meeting – December 10, 2020

Phone Conference – Meeting Notes

Attendees

Ken Stahr – OWRD (Chair)	Henry Pai – NWRFC
Ryan Andrews – OWRD	Marc Stewart – USGS
Carrie Boudreau – USGS	Lee Go – FSA
Nick Yonker – ODF	Daniel Stoelb – OEM
Andy Bryant – NWS	Larry O’Neill – OCS
Aaron Borisenko – DEQ	Scott Oviatt – NRCS
Sonya McCormick – OEM	Roxy Nayar – DEQ
Erik Rau – OEM	Spencer Sawaske – ODFW
Danette Faucera – ODFW	Mary Karen Scullion – USACE
Jon Rocha - USBR	

Presentations – update on water supply conditions

Scott Oviatt

- Diamond Lake SNOTEL site significantly impacted due to burned trees increasing exposure to sunlight; data may be impacted
- SNOTEL SWE Interactive map replacing static maps
 - Presents as % median rather than % normal or average
 - SNOTEL precipitation will remain as % normal
- SNOTEL SWE is variable throughout the state
 - Malheur basin measuring highest at 139% of median, with several other basins measuring above the median SWE (Harney = 124%; John Day = 123%; Upper Deschutes-Crooked = 118%; Willamette = 106%)
 - Owyhee basin measuring lowest at 56% of median
- Site-specific SWE observations are highly variable statewide and along the Cascade Crest
 - Sites in central Oregon measuring above the median SWE
 - SW Oregon measuring well below median SWE
 - Variance between sites in close proximity could potentially be explained by the low amounts of snow typically measured at such sites
 - Sites with low snowpack typically show greater response to any snow contributions in terms of % median
- SNOTEL precipitation measuring below normal statewide
 - Umatilla-Walla Walla-Willow basin measuring highest at 99% of normal
 - Owyhee basin (54%) and Lake County-Goose Lake basin (55%) measuring lowest
 - All other basins measuring below 90% normal precipitation with trends decreasing moving southward
 - Site-specific observations show clear trend in decreasing precipitation moving southward
- Last 30-days precipitation deteriorating slightly since October

- NRCS currently developing datasets for new periods of record – expected to be updated by October 1, 2021

Andy Bryant

- WY 2021 precipitation measuring below normal for much of Oregon
 - With exception of small portions of central and NE Oregon, much of state measuring below 90% of normal precipitation
 - Some areas of southern OR measuring below 50% of normal precipitation
 - In terms of departure from average, western OR is experiencing significant deficits of anywhere from 4 to 12 inches on average
 - Trends are very similar for the past 30 days, although a portion of central OR received a surplus of precipitation compared to average
- November temperatures improved slightly from the well above average temperatures experienced in October throughout the state
 - Some areas of the coast experienced cooler than normal temperatures
 - Much of the state had temperatures near or just above normal for the month of November
- The US Drought Monitor showed improvements in coverage from D3 to D2 in eastern OR, however much of the state is classified in some form of drought conditions
- Ongoing La Nina conditions are driving predictions for the near-term and seasonal outlooks
 - Expect increased precipitation over next 10-14 days throughout much of the state
 - Precipitation and temperatures are showing increased probabilities of above normal conditions
 - Three-month outlooks (DEC-FEB) favor above normal precipitation for the northern half of the state, while projecting equal chances of above/below normal precipitation for the southern half
 - Temperatures are expected to be below normal for much of western OR, while equal chances of above/below normal temperatures are expected for much of the rest of the state
 - SE OR projected to experience above normal temperatures

Henry Pai

- Much of western OR experiencing deficits in WY 2021 runoff
 - Trend worsens from north to south
 - Eastern OR and Klamath basin faring similarly
- WY runoff predictions for % natural streamflow (accounting for human factors) projects near normal flows for much of the northern half of the state
 - SW OR projected to receive below normal streamflows
- Last half of November received lack of precipitation in Willamette @ Salem
 - SW OR conditions indicative of less precipitation and drier soils
 - Trends are similar in eastern OR where soil states are lacking progress

Marc Stewart

- Some gages being impacted by ice effects
- USGS re-evaluating NSIP sites to re-rate gages with new metrics/indicators
 - Each state to identify at least one gage per climate region/division

- Are there any OWRD gages that could potentially be used as drought indicators?

Ken Stahr

- Streamflows experiencing below normal conditions over past 7 days throughout the state
 - Sites measuring well below normal both east and west of Cascades
- Site-specific hydrographs show decreasing trends towards below normal conditions

Jon Rocha

- Reservoir conditions indicative of carryover from WY 2020
 - Owyhee (131%), Malheur (112%), Burnt (126%), and Umatilla (125%) systems all measuring above normal in terms of % full
 - Powder (24%), Deschutes (58%), Crooked (57%), and Rogue (11%) systems measuring well below normal in terms of % full
 - Rogue system has flatlined and projections are poor
 - Most reservoirs are well below required storage space for flood control
 - Tualatin (87%) also measuring below normal but to a lesser degree

Nick Yonker

- Fire season over – low fire danger

Discussion

- OEM working on system for tracking and displaying drought declarations
- Next meeting proposed for January 14th, 2021