



RESOURCES AND REFERENCES FROM THE OR-WA WATER YEAR 2020 RECAP & 2021 OUTLOOK MEETING

This document is made up of two sections. The first contains links to several resources discussed at the OR-WA Water Year 2020 Recap & 2021 Outlook Meeting. The second section includes links to the laws, executive orders, and pending legislation referenced by USDA Chief Meteorologist Mark Brusberg in the meeting's opening remarks.

RESOURCES

WATER WAYS | http://cses.washington.edu/picea/mauger/2018_04_SC2_Culverts/pub/waterways/

This online culvert-design tool allows engineers, managers, regulators, and other interested parties to explore the impacts of climate change on culverts and fish passage. For guidance on how to interpret results and information on the development of the tool, please see the project [report](#).

THE CLIMATE TOOLBOX | <https://climatetoolbox.org/>

The Climate Toolbox contains current and future climate and hydrology data, as well as information on agriculture and wildfire. The Climate Toolbox allows users to download data or view summary visualizations on maps, graphs, and dashboards. The site also links to a [workbook series](#) that provides guidance on how to develop a local climate vulnerability and risk assessment, and how to use the Climate Toolbox to tell a climate data story.

NORTHWEST RIVER FORECAST CENTER (NWRFC) | <https://www.nwrfc.noaa.gov/rfc/>

NWRFC's online tool provides basic and extended hydrologic forecast information for water resources management in WA, OR, ID, and parts of MT, CA, NV, UT, and Canada. NWRFC recently updated burn scar boundaries, its [trend tool](#) for precipitation and temperature forecasts, access to [water supply tool](#) water year plots, and water supply [webinar dates](#).

USDA'S NATIONAL AGRICULTURAL STATISTICS SERVICE (NASS) | <https://www.nass.usda.gov/>

On this site, USDA publishes most of the national, state, and county-level agricultural data it collects through its Annual Survey Program and quinquennial Census of Agriculture. NASS contains information on crops and plants; demographics; prices and economics; environmental topics; livestock and animals; and research, science, and technology.

FUELCAST | <https://www.fuelcast.net/>

Fuelcast provides projections of expected fuel and forage conditions based on daily weather data and weekly remote sensing data. Weekly forecasting, detailed and customized reporting, and API + GEE Assets are all available. This [recording](#) of the October 2020 Pacific Northwest DEWS Drought & Climate Outlook Webinar includes an overview of how to use and apply Fuelcast.

CROWN OF THE CONTINENT DROUGHT DASHBOARD | <https://drought.climate.umt.edu/>

Also known as the Upper Missouri River Basin Drought Indicators Dashboard, this site contains percentiles, anomalies, and trends for precipitation, temperature, soil moisture, vegetation, and other drought metrics. All datasets are calculated daily and can be aggregated by county and watershed. The site also provides access to MT Mesonet and SNOTEL data.

REFERENCES FOR OPENING REMARKS

LAWS REFERENCED

The Weather Research and Forecasting Innovation Act of 2017

Public Law 115-23

<https://www.congress.gov/115/plaws/publ25/PLAW-115publ25.pdf>

Weather and Climate Information in Agriculture

15 U.S. Code § 8521

[https://uscode.house.gov/view.xhtml?req=\(title:15%20section:8521%20edition:prelim\)%20OR%20\(granuleid:USC-prelim-title15-section8521\)&f=treesort&edition=prelim&num=0&jumpTo=true](https://uscode.house.gov/view.xhtml?req=(title:15%20section:8521%20edition:prelim)%20OR%20(granuleid:USC-prelim-title15-section8521)&f=treesort&edition=prelim&num=0&jumpTo=true)

The Agricultural Improvement Act of 2018

Public Law 115-334

<https://www.congress.gov/115/plaws/publ334/PLAW-115publ334.pdf>

Improvements to the United States Drought Monitor

7 U.S. Code § 5856

[https://uscode.house.gov/view.xhtml?req=\(title:7%20section:5856%20edition:prelim\)%20OR%20\(granuleid:USC-prelim-title7-section5856\)&f=treesort&edition=prelim&num=0&jumpTo=true](https://uscode.house.gov/view.xhtml?req=(title:7%20section:5856%20edition:prelim)%20OR%20(granuleid:USC-prelim-title7-section5856)&f=treesort&edition=prelim&num=0&jumpTo=true)

Supplemental Agricultural Disaster Assistance

7 U.S. Code § 9081

[https://uscode.house.gov/view.xhtml?req=\(title:7%20section:9081%20edition:prelim\)%20OR%20\(granuleid:USC-prelim-title7-section9081\)&f=treesort&num=0&edition=prelim](https://uscode.house.gov/view.xhtml?req=(title:7%20section:9081%20edition:prelim)%20OR%20(granuleid:USC-prelim-title7-section9081)&f=treesort&num=0&edition=prelim)

Agricultural and Food Policy Research Centers

7 U.S. Code § 3155

[https://uscode.house.gov/view.xhtml?req=\(title:7%20section:3155%20edition:prelim\)%20OR%20\(granuleid:USC-prelim-title7-section3155\)&f=treesort&edition=prelim&num=0&jumpTo=true](https://uscode.house.gov/view.xhtml?req=(title:7%20section:3155%20edition:prelim)%20OR%20(granuleid:USC-prelim-title7-section3155)&f=treesort&edition=prelim&num=0&jumpTo=true)

Crowdsourcing and Citizen Science Act

15 U.S. Code § 3724

<https://uscode.house.gov/view.xhtml?req=granuleid:USC-prelim-title15-section3724&num=0&edition=prelim>

The National Integrated Drought Information System Reauthorization Act of 2018

Public Law 115-423

<https://www.congress.gov/115/plaws/publ423/PLAW-115publ423.pdf>

Improvements to the Cooperative Observer Program of the National Weather Service

15 U.S. Code § 8550

[https://uscode.house.gov/view.xhtml?req=\(title:15%20section:8550%20edition:prelim\)%20OR%20\(granuleid:USC-prelim-title15-section8550\)&f=treesort&edition=prelim&num=0&jumpTo=true](https://uscode.house.gov/view.xhtml?req=(title:15%20section:8550%20edition:prelim)%20OR%20(granuleid:USC-prelim-title15-section8550)&f=treesort&edition=prelim&num=0&jumpTo=true)

EXECUTIVE ORDERS REFERENCED

Building National Capabilities for Long-Term Drought Resilience (Creation of the National Drought Resilience Partnership)

<https://obamawhitehouse.archives.gov/the-press-office/2016/03/21/presidential-memorandum-building-national-capabilities-long-term-drought>

Executive Order on Modernizing America’s Water Resource Management and Water Infrastructure (Creation of the Water Subcabinet)

<https://www.whitehouse.gov/presidential-actions/executive-order-modernizing-americas-water-resource-management-water-infrastructure/>

PENDING LEGISLATION REFERENCED

Missouri River Basin Drought and Snowpack Monitoring Act

S. 4444 (Introduced 08/05/2020)

<https://www.congress.gov/bill/116th-congress/senate-bill/4444>

FLOODS Act

S. 4462 (Introduced 08/06/2020)

<https://www.congress.gov/bill/116th-congress/senate-bill/4462>

