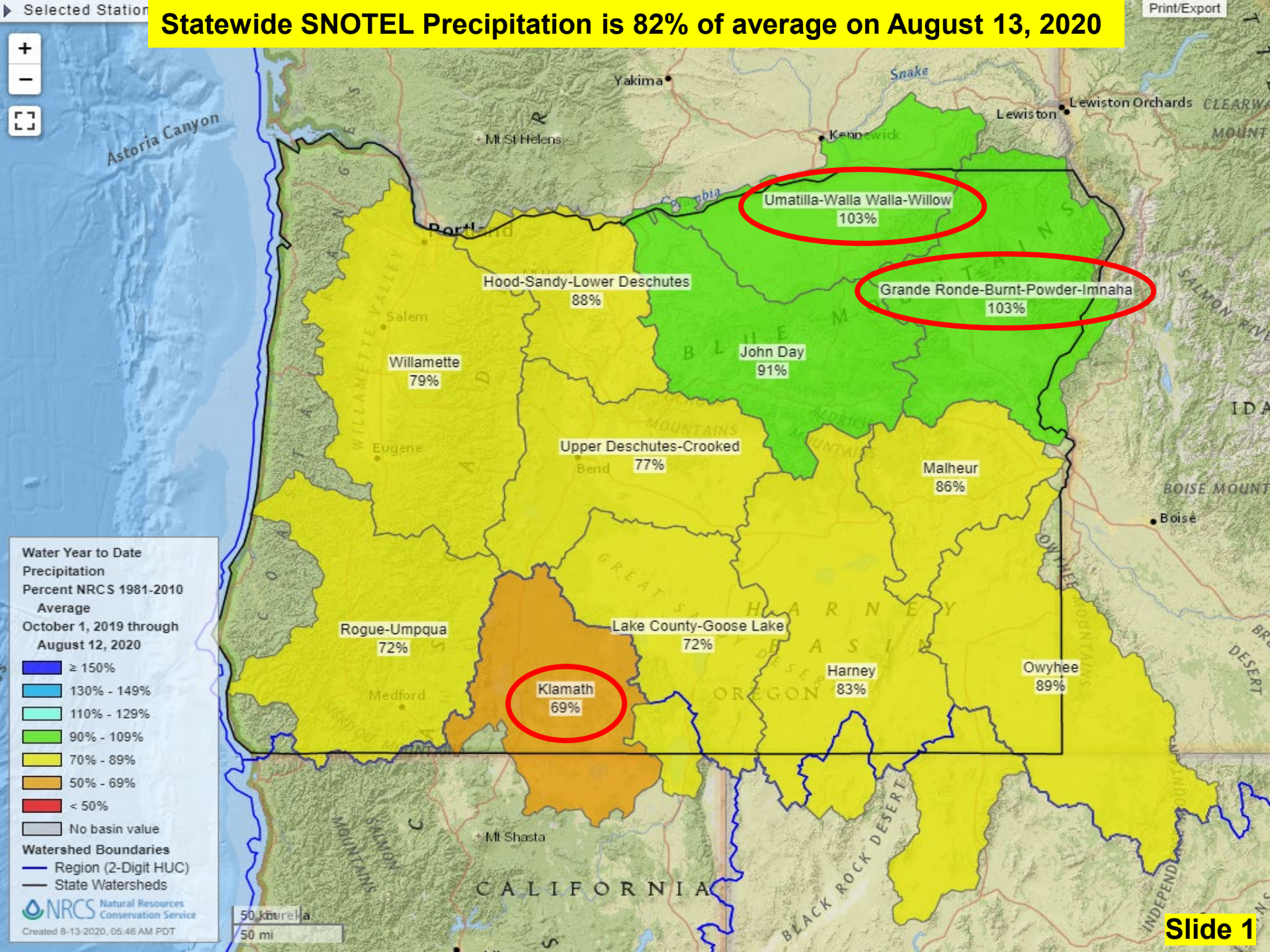
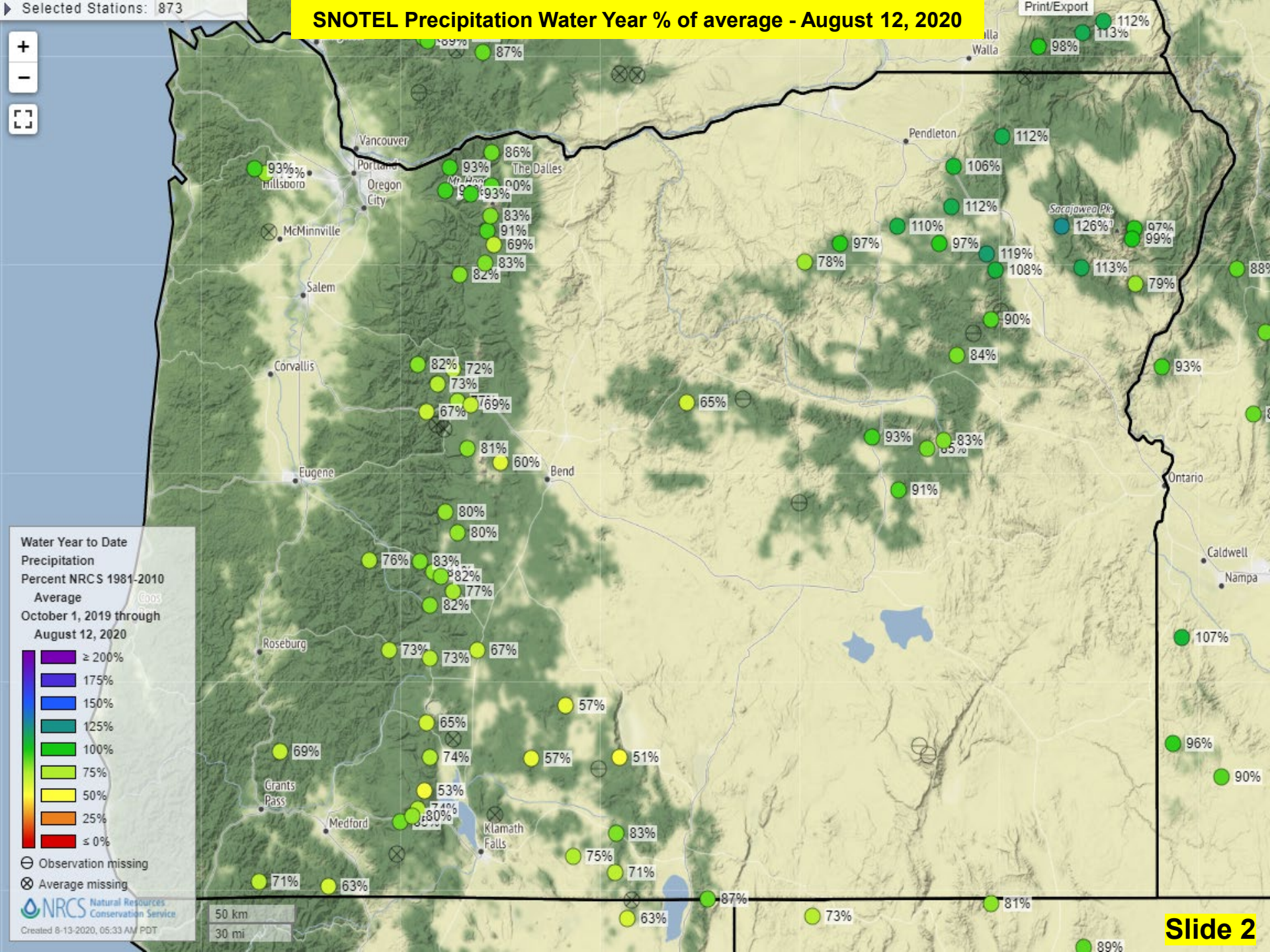
# Oregon Water Supply Availability Committee – August 13, 2020

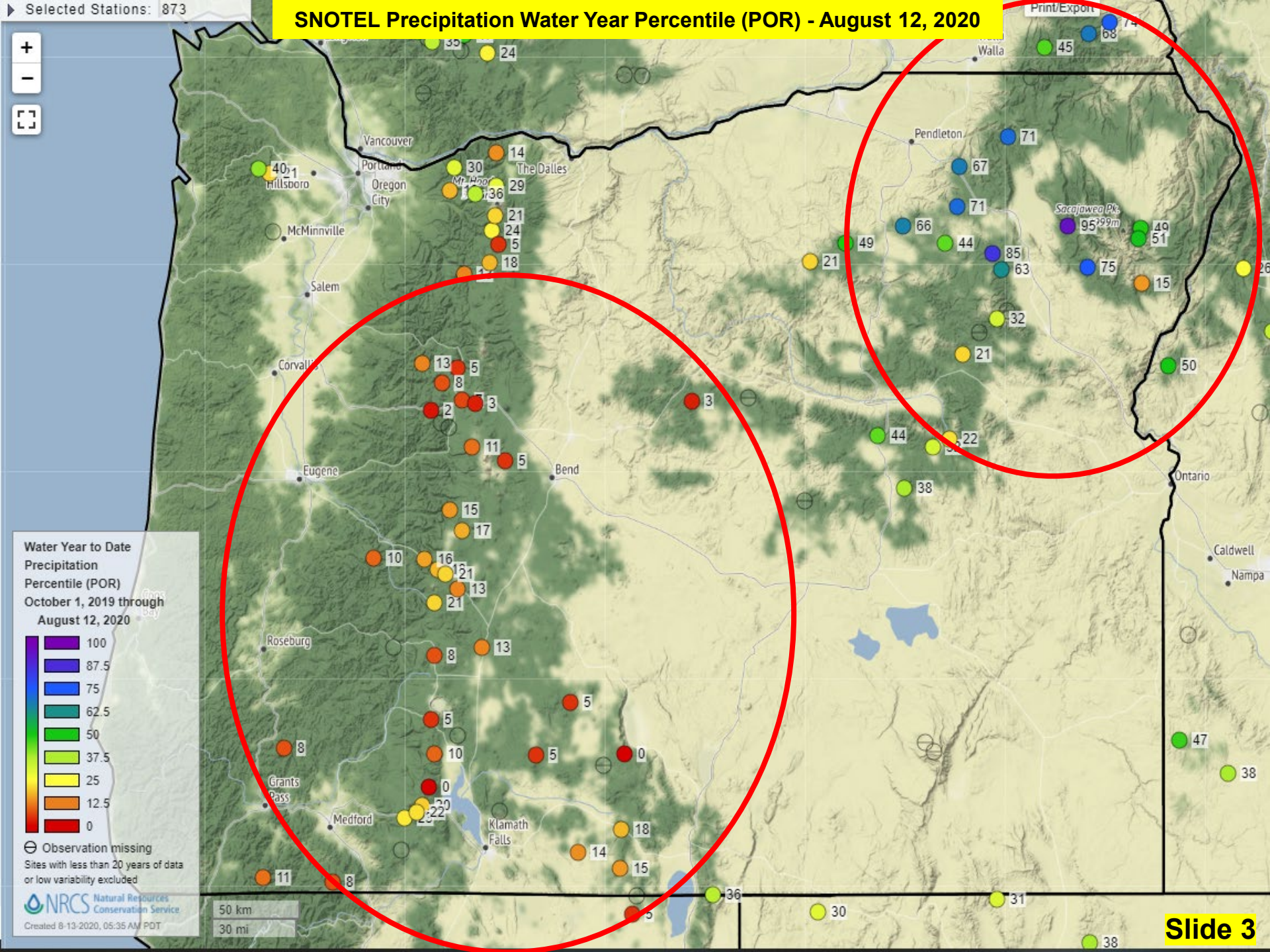
H. Scott Oviatt
USDA – Natural Resources Conservation Service
scott.oviatt@usda.gov
503-414-3271

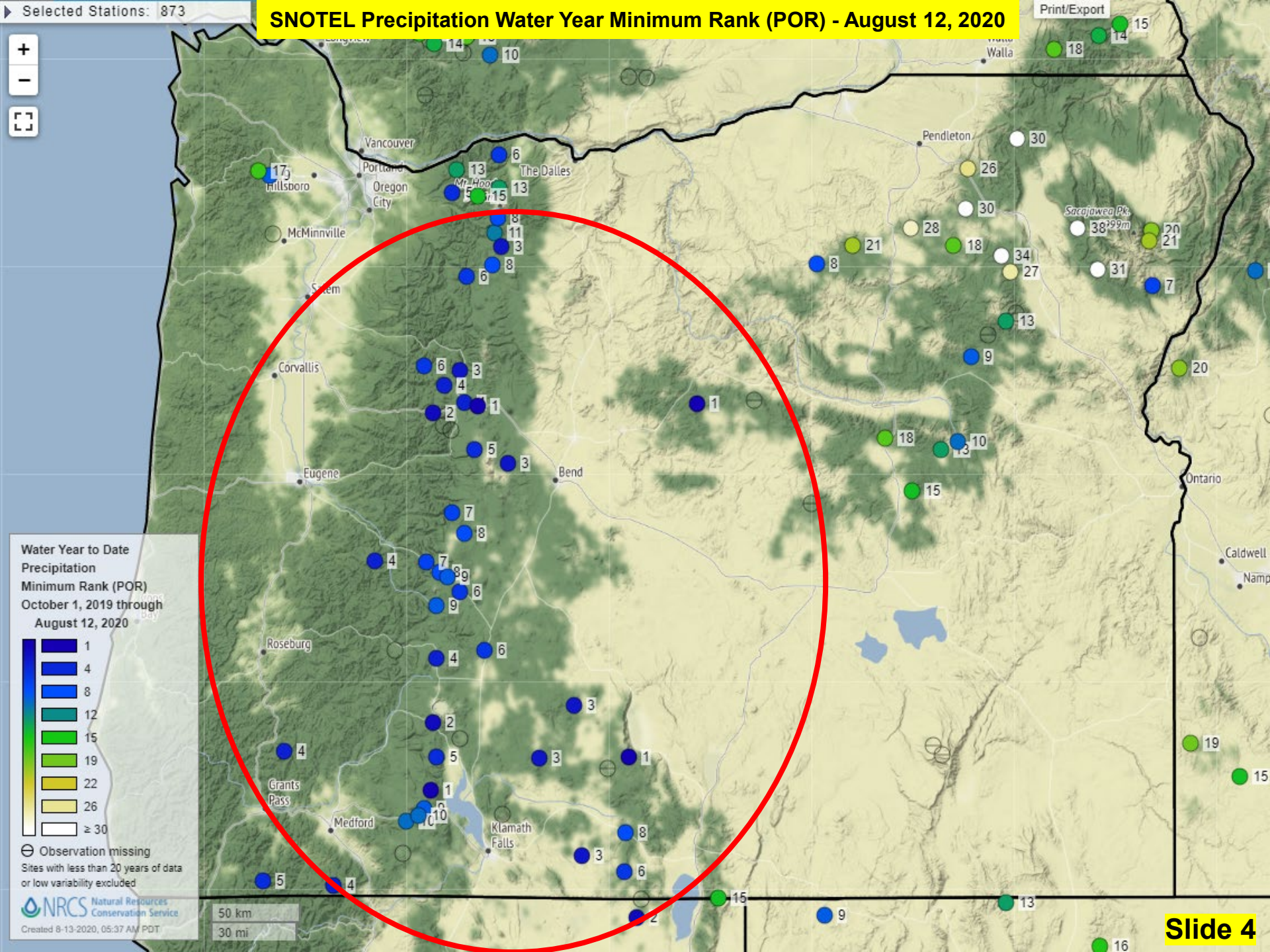
# Statewide SNOTEL Precipitation is 82% of average on August 13, 2020

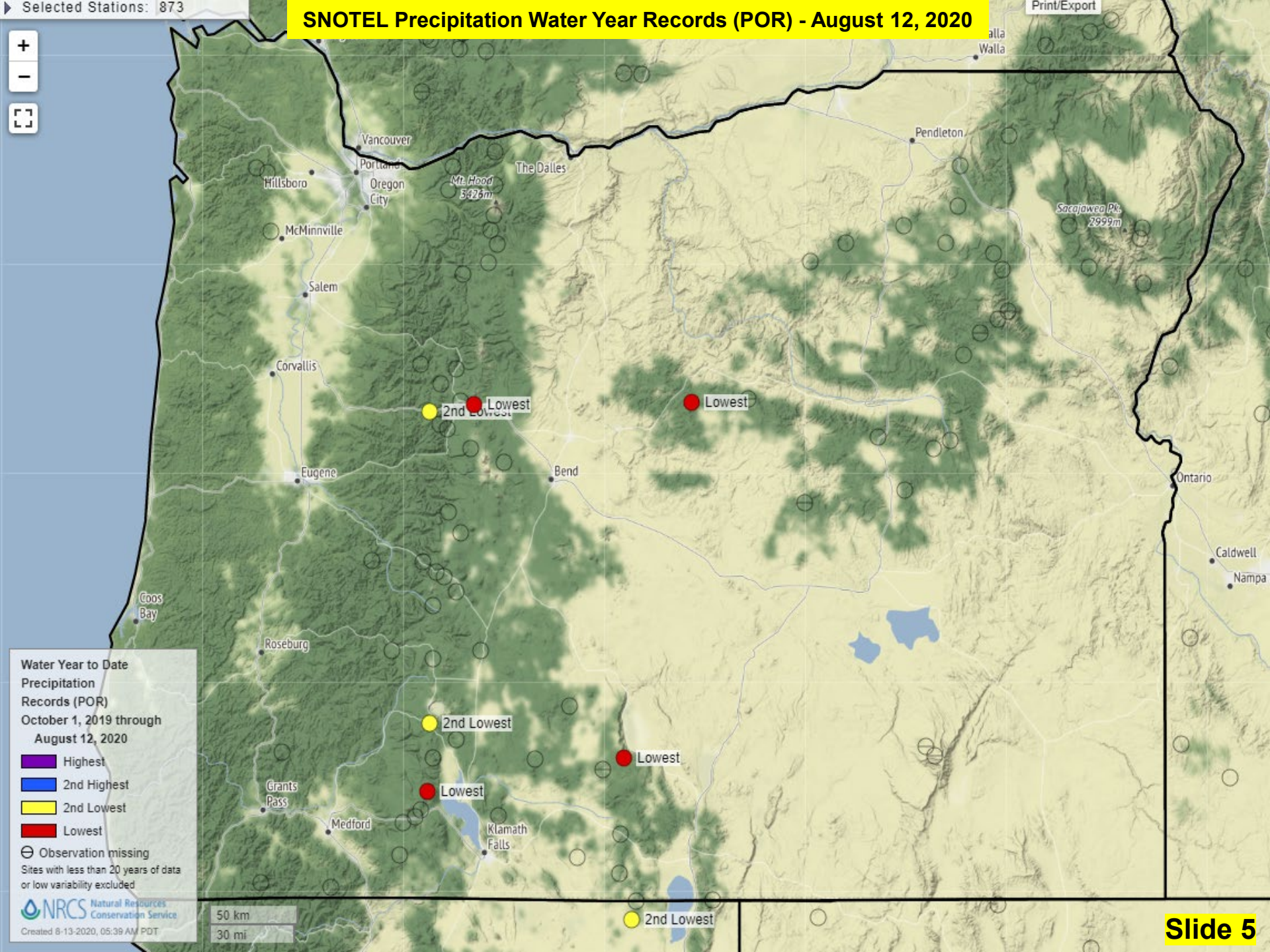


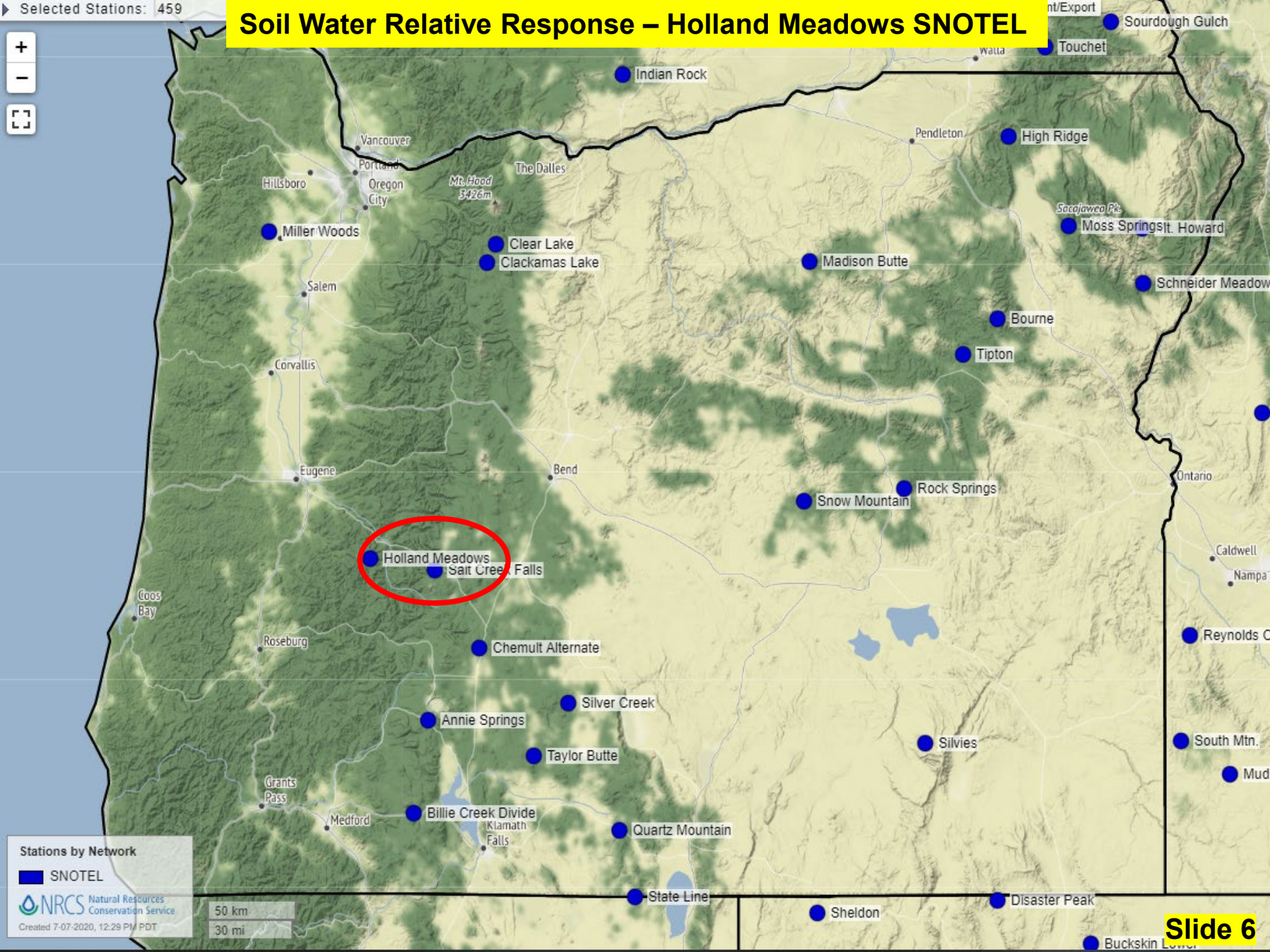

Slide 1


Selected Stations: 873
SNOTEL Precipitation Water Year % of average - August 12, 2020
Print/Export
Water Year to Date
Precipitation
Percent NRCS 1981-2010
Average
October 1, 2019 through
August 12, 2020
≥ 200%
175%
150%
125%
100%
75%
50%
25%
≤ 0%
Observation missing
Average missing
NRCS Natural Resources Conservation Service
Created 8-13-2020, 05:33 AM PDT
50 km
30 mi
Slide 2

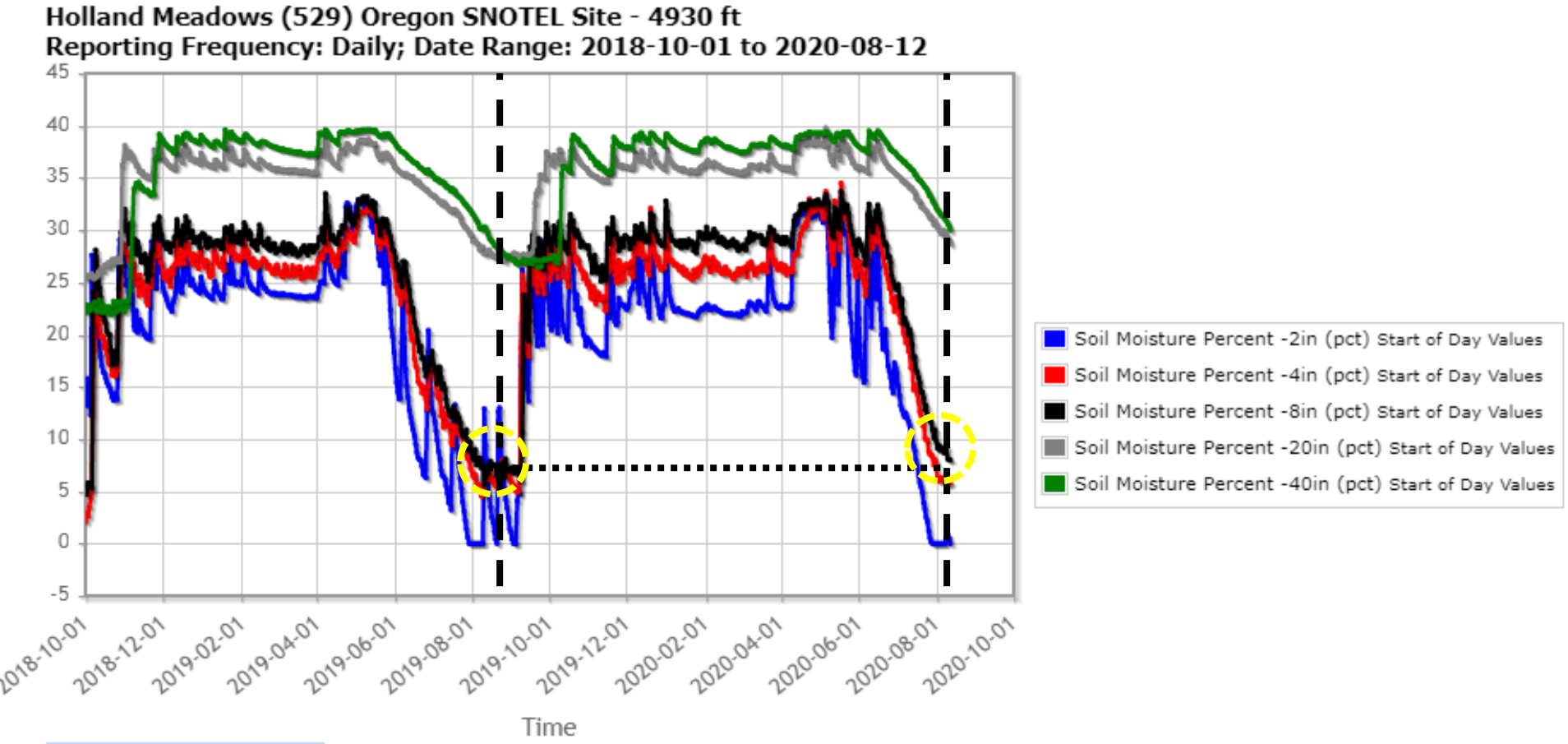

Selected Stations: 873
SNOTEL Precipitation Water Year Percentile (POR) - August 12, 2020
Water Year to Date Precipitation Percentile (POR)
October 1, 2019 through August 12, 2020
100
87.5
75
62.5
50
37.5
25
12.5
0
Observation missing
Sites with less than 20 years of data or low variability excluded
NRCS Natural Resources Conservation Service
Created 8-13-2020, 05:35 AM PDT
50 km
30 mi
Vancouver
Portland
Hillsboro
Oregon City
McMinnville
Salem
Corvallis
Eugene
The Dalles
Pendleton
Walla Walla
Bend
Roseburg
Grants Pass
Medford
Klamath Falls
Ontario
Caldwell
Nampa
Sacajawea Pk
Slide 3

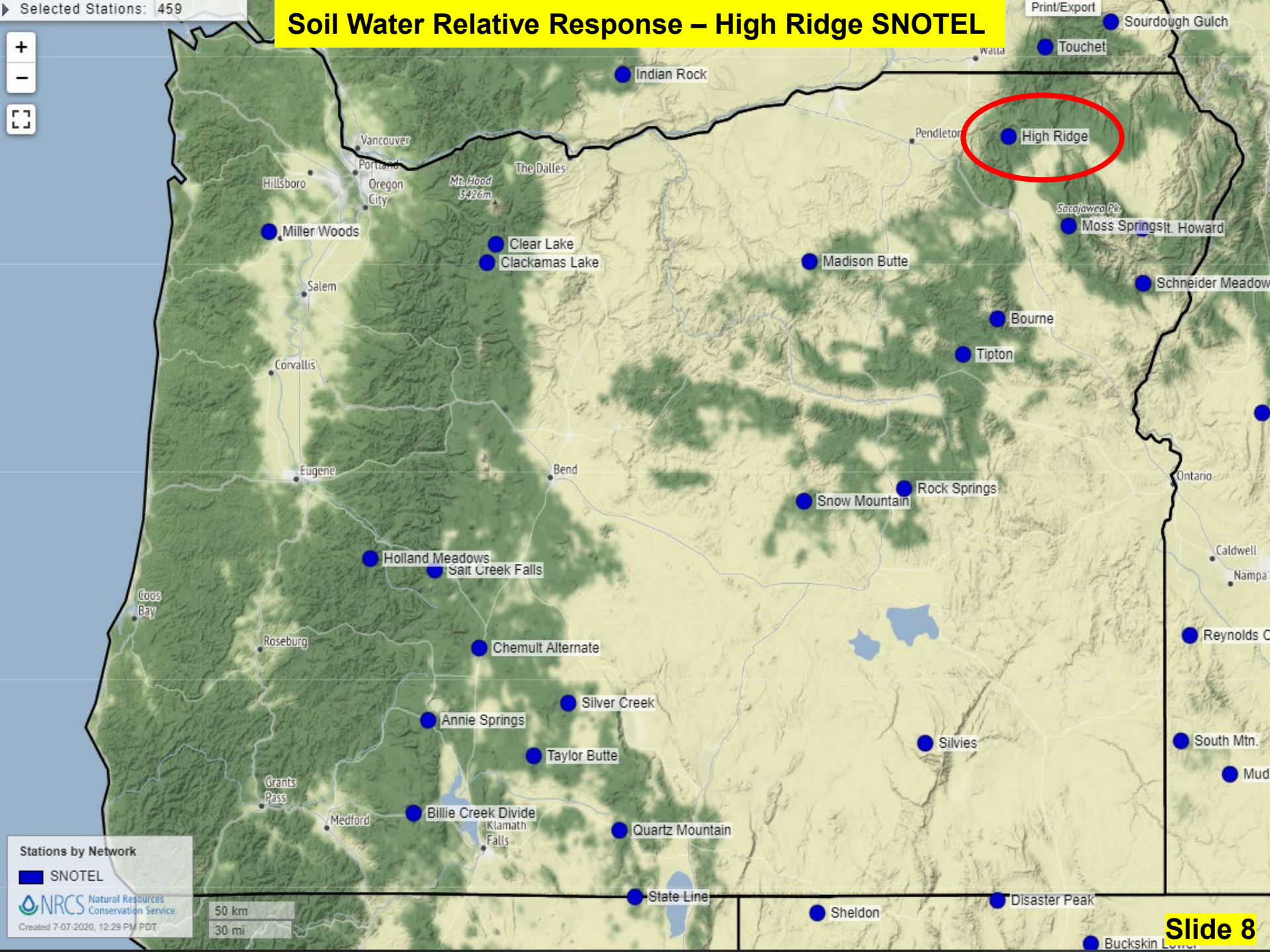

Selected Stations: 873
SNOTEL Precipitation Water Year Minimum Rank (POR) - August 12, 2020
Print/Export
Water Year to Date
Precipitation
Minimum Rank (POR)
October 1, 2019 through
August 12, 2020
1
4
8
12
15
19
22
26
≥ 30
Observation missing
Sites with less than 20 years of data
or low variability excluded
NRCS Natural Resources Conservation Service
Created 8-13-2020, 05:37 AM PDT
50 km
30 mi
Vancouver
Portland
Hillsboro
Oregon City
The Dalles
McMinnville
Salem
Corvallis
Eugene
Bend
Roseburg
Grants Pass
Medford
Klamath Falls
Pendleton
Walla Walla
Sacajawea Pk.
Ontario
Caldwell
Slide 4


Selected Stations: 873
SNOTEL Precipitation Water Year Records (POR) - August 12, 2020
Print/Export
Vancouver
Portland
Hillsboro
Oregon City
Mt. Hood 5426m
The Dalles
Pendleton
Sacajawea Pk. 2999m
McMinnville
Salem
Corvallis
Lowest
2nd Lowest
Lowest
Eugene
Bend
Ontario
Caldwell
Nampa
Coos Bay
Roseburg
2nd Lowest
Lowest
Grants Pass
Lowest
Medford
Klamath Falls
2nd Lowest
Water Year to Date Precipitation Records (POR)
October 1, 2019 through August 12, 2020
Highest
2nd Highest
2nd Lowest
Lowest
Observation missing
Sites with less than 20 years of data or low variability excluded
NRCS Natural Resources Conservation Service
Created 8-13-2020, 05:39 AM PDT
50 km
30 mi
Slide 5

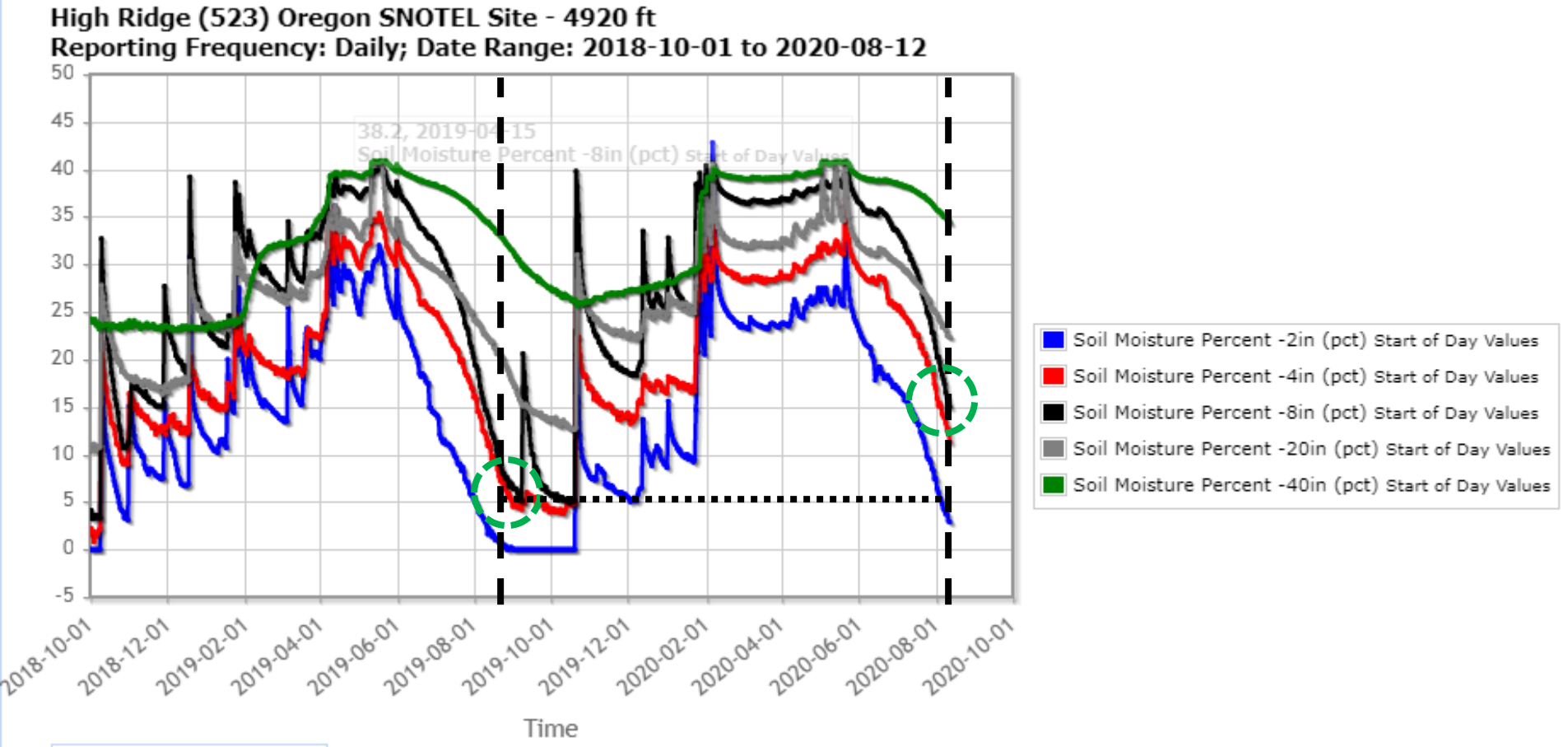

Selected Stations: 459
Soil Water Relative Response – Holland Meadows SNOTEL
Sourdough Gulch
Touchet
Indian Rock
Pendleton
High Ridge
Vancouver
Portland
Hillsboro
Oregon City
The Dalles
Mt. Hood 5426m
Miller Woods
Clear Lake
Clackamas Lake
Madison Butte
Moss Springs
Mt. Howard
Schneider Meadow
Salem
Bourne
Tipton
Corvallis
Eugene
Bend
Rock Springs
Snow Mountain
Ontario
Holland Meadows
Salt Creek Falls
Caldwell
Nampa
Coos Bay
Roseburg
Chemult Alternate
Reynolds C
Silver Creek
Annie Springs
Silvies
South Mtn.
Taylor Butte
Grants Pass
Medford
Billie Creek Divide
Klamath Falls
Quartz Mountain
Stations by Network
SNOTEL
NRCS Natural Resources Conservation Service
Created 7-07-2020, 12:29 PM PDT
50 km
30 mi
State Line
Sheldon
Disaster Peak
Slide 6

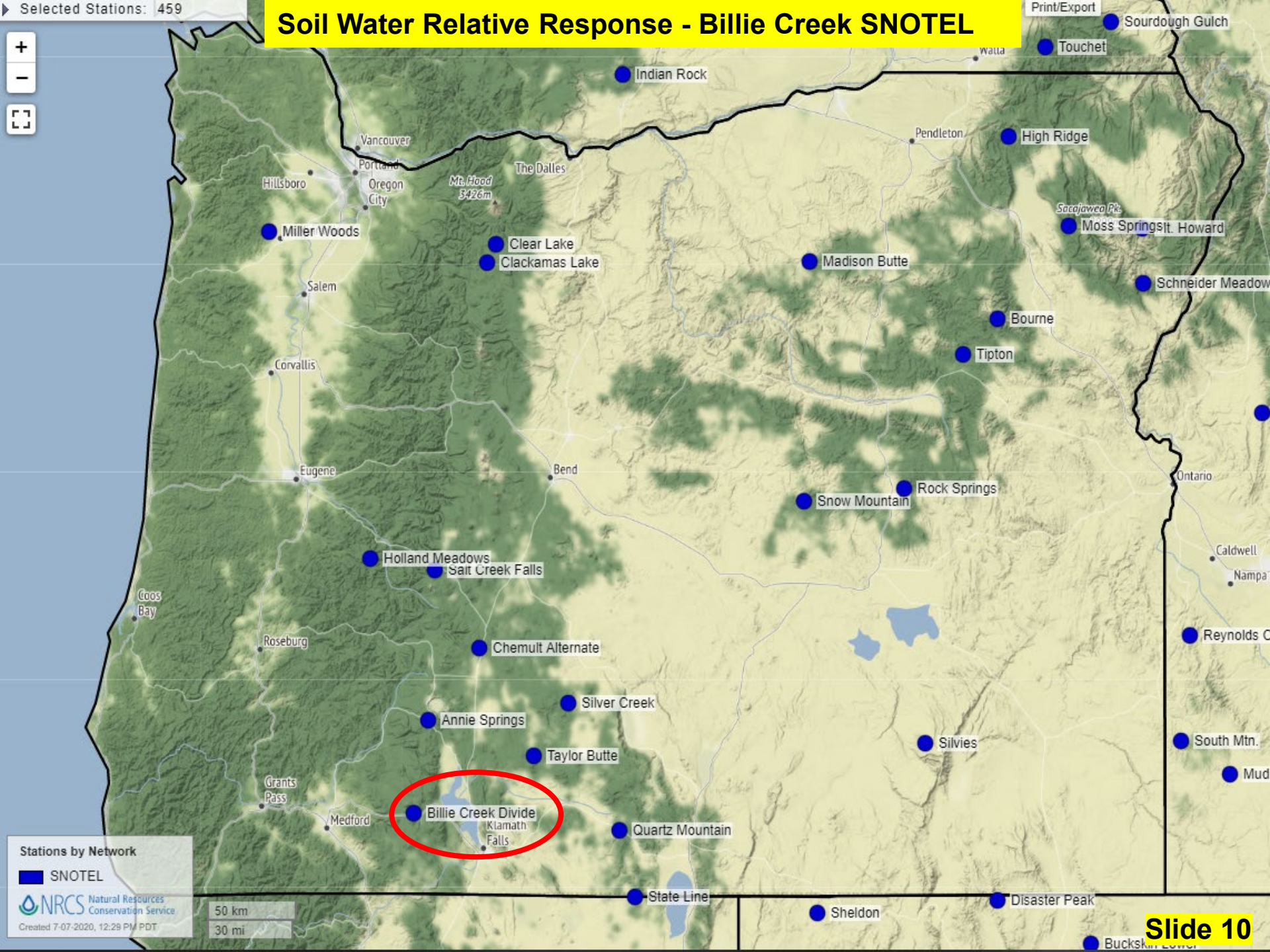
# Soil Water Relative Response – Holland Meadows SNOTEL



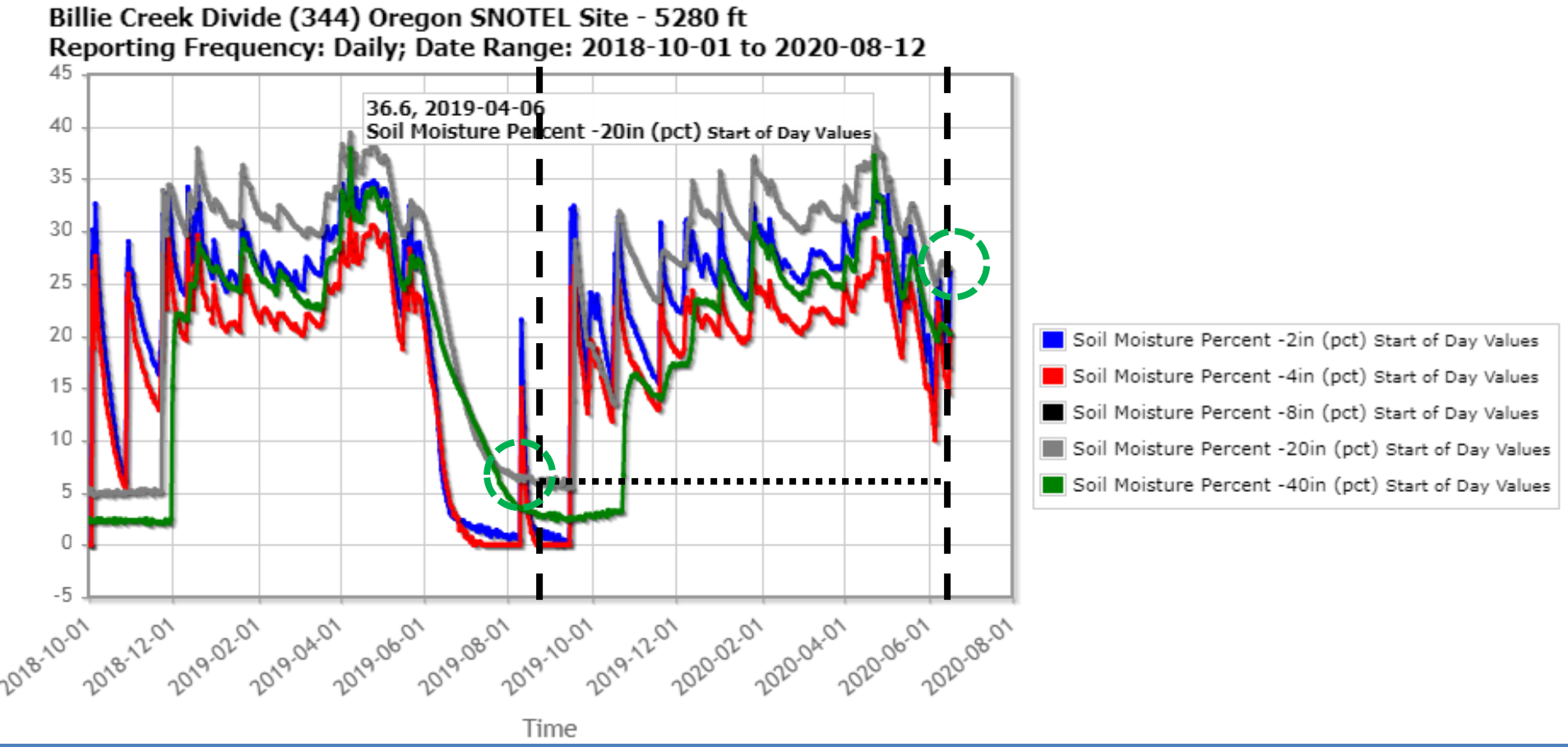

Selected Stations: 459
Soil Water Relative Response – High Ridge SNOTEL
Print/Export
Sourdough Gulch
Touchet
Indian Rock
High Ridge
Pendleton
Vancouver
Portland
Hillsboro
Oregon City
The Dalles
Mt. Hood 5426m
Miller Woods
Clear Lake
Clackamas Lake
Madison Butte
Moss Springs
Mt. Howard
Schneider Meadow
Salem
Bourne
Tipton
Corvallis
Eugene
Bend
Rock Springs
Snow Mountain
Ontario
Holland Meadows
Salt Creek Falls
Caldwell
Nampa
Coos Bay
Roseburg
Chemult Alternate
Reynolds C
Silver Creek
Annie Springs
Silvies
South Mtn.
Taylor Butte
Mud
Grants Pass
Medford
Billie Creek Divide
Klamath Falls
Quartz Mountain
State Line
Sheldon
Disaster Peak
Buckskin
Stations by Network
SNOTEL
NRCS Natural Resources Conservation Service
Created 7-07-2020, 12:29 PM PDT
50 km
30 mi
Slide 8

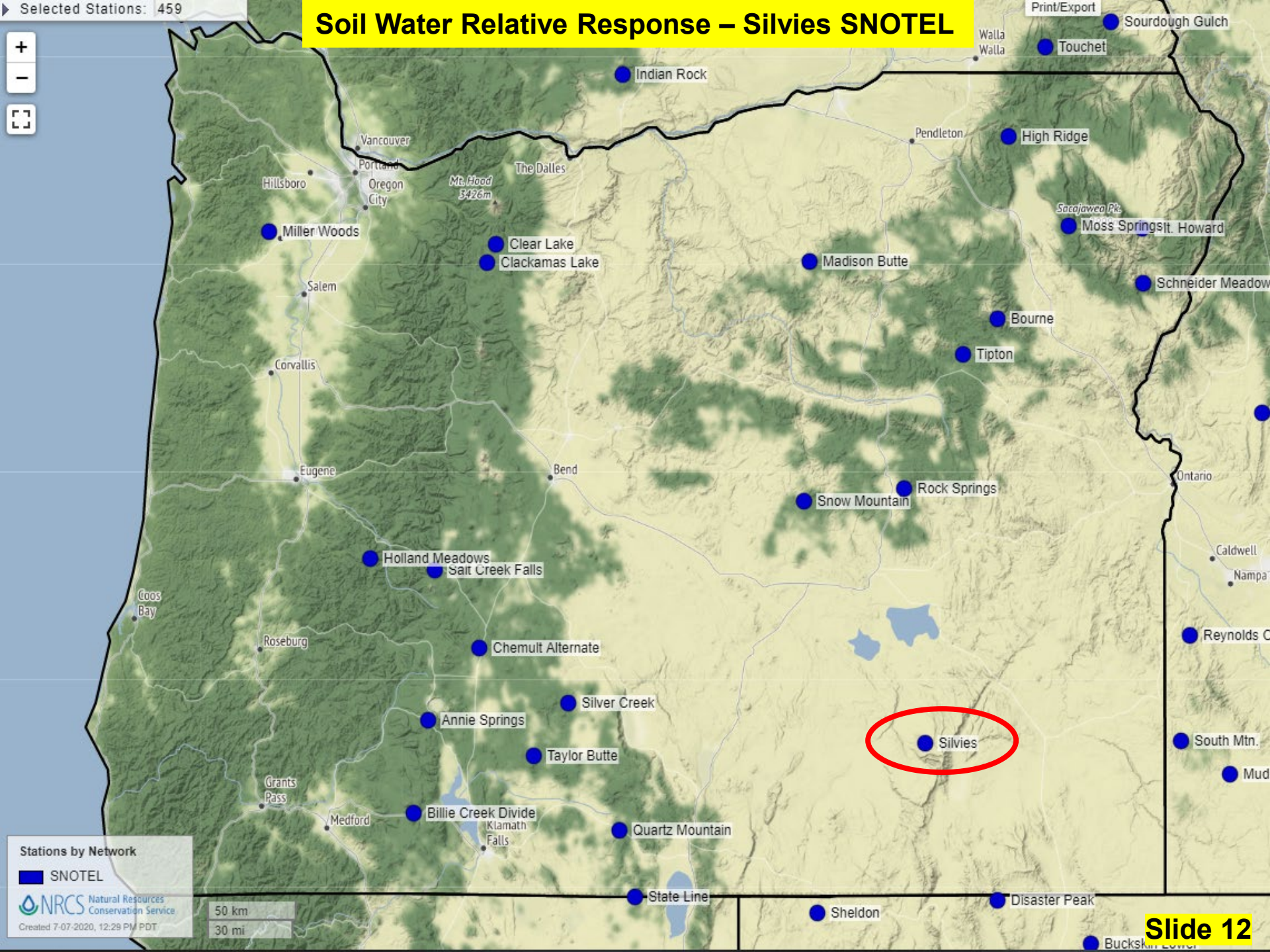
# Soil Water Relative Response – High Ridge SNOTEL



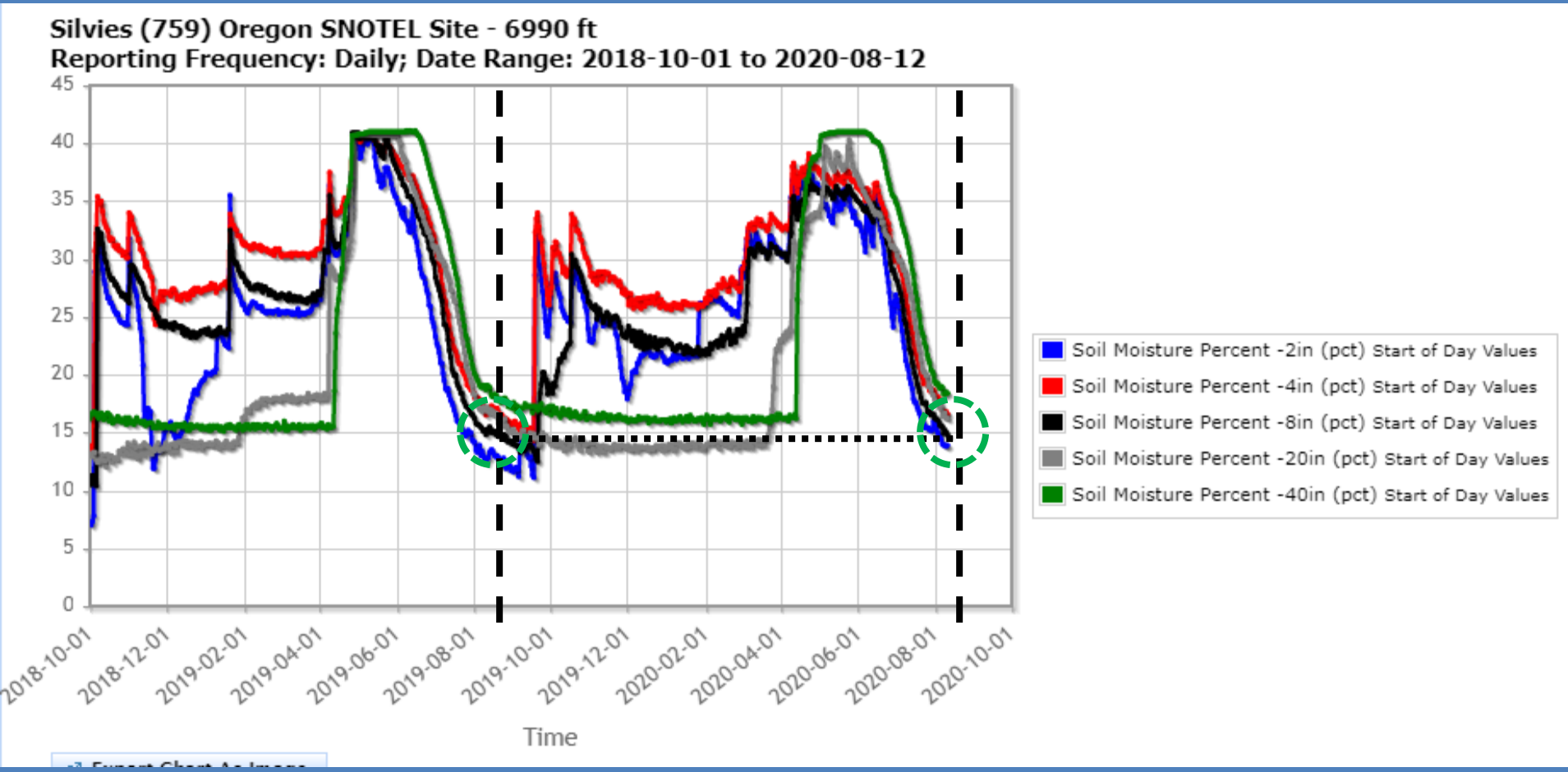

Selected Stations: 459
Soil Water Relative Response - Billie Creek SNOTEL
Print/Export
Sourdough Gulch
Touchet
Indian Rock
Pendleton
High Ridge
Vancouver
Portland
Hillsboro
Oregon City
The Dalles
Mt. Hood 5426m
Sacajawea Pk
Moss Springs
Mt. Howard
Miller Woods
Clear Lake
Clackamas Lake
Madison Butte
Schneider Meadow
Salem
Bourne
Tipton
Corvallis
Eugene
Bend
Ontario
Rock Springs
Snow Mountain
Holland Meadows
Salt Creek Falls
Caldwell
Nampa
Coos Bay
Roseburg
Chemult Alternate
Reynolds C
Silver Creek
Annie Springs
Silvies
South Mtn.
Taylor Butte
Mud
Grants Pass
Billie Creek Divide
Klamath Falls
Medford
Quartz Mountain
Stations by Network
SNOTEL
NRCS Natural Resources Conservation Service
Created 7-07-2020, 12:29 PM PDT
50 km
30 mi
State Line
Sheldon
Disaster Peak
Slide 10

# Soil Water Relative Response - Billie Creek SNOTEL




Selected Stations: 459
Soil Water Relative Response – Silvies SNOTEL
Print/Export
Sourdough Gulch
Touchet
Walla Walla
Indian Rock
Pendleton
High Ridge
Vancouver
Portland
Hillsboro
Oregon City
The Dalles
Mt. Hood 5426m
Sacajawea Pk
Moss Springs
Mt. Howard
Miller Woods
Clear Lake
Clackamas Lake
Madison Butte
Schneider Meadow
Salem
Bourne
Tipton
Corvallis
Eugene
Bend
Ontario
Rock Springs
Snow Mountain
Holland Meadows
Salt Creek Falls
Caldwell
Nampa
Coos Bay
Roseburg
Chemult Alternate
Reynolds C
Silver Creek
Annie Springs
Silvies
South Mtn.
Taylor Butte
Mud
Grants Pass
Medford
Billie Creek Divide
Klamath Falls
Quartz Mountain
State Line
Sheldon
Disaster Peak
Stations by Network
SNOTEL
NRCS Natural Resources Conservation Service
Created 7-07-2020, 12:29 PM PDT
50 km
30 mi
Slide 12

# Soil Water Relative Response – Silvies SNOTEL



# Oregon Water Supply Availability Committee – August 13, 2020

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**H. Scott Oviatt**
**USDA – Natural Resources Conservation Service**
**scott.oviatt@usda.gov**
**503-414-3271**

# Oregon WSAC

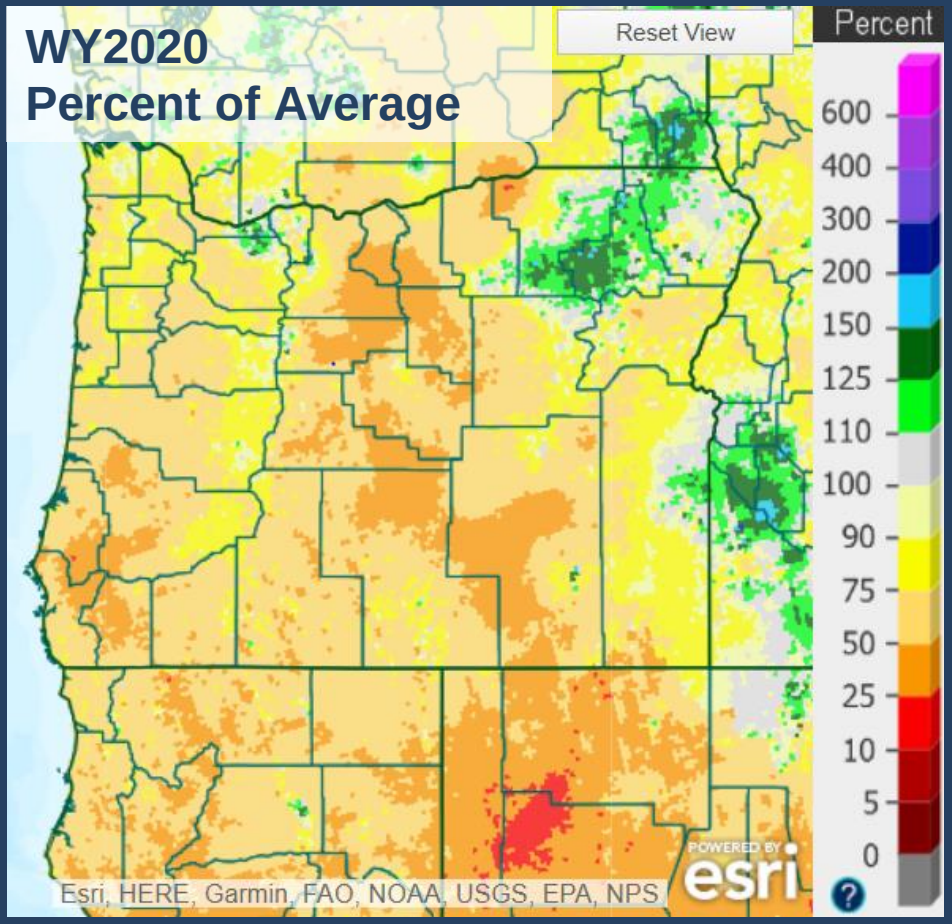
## National Weather Service

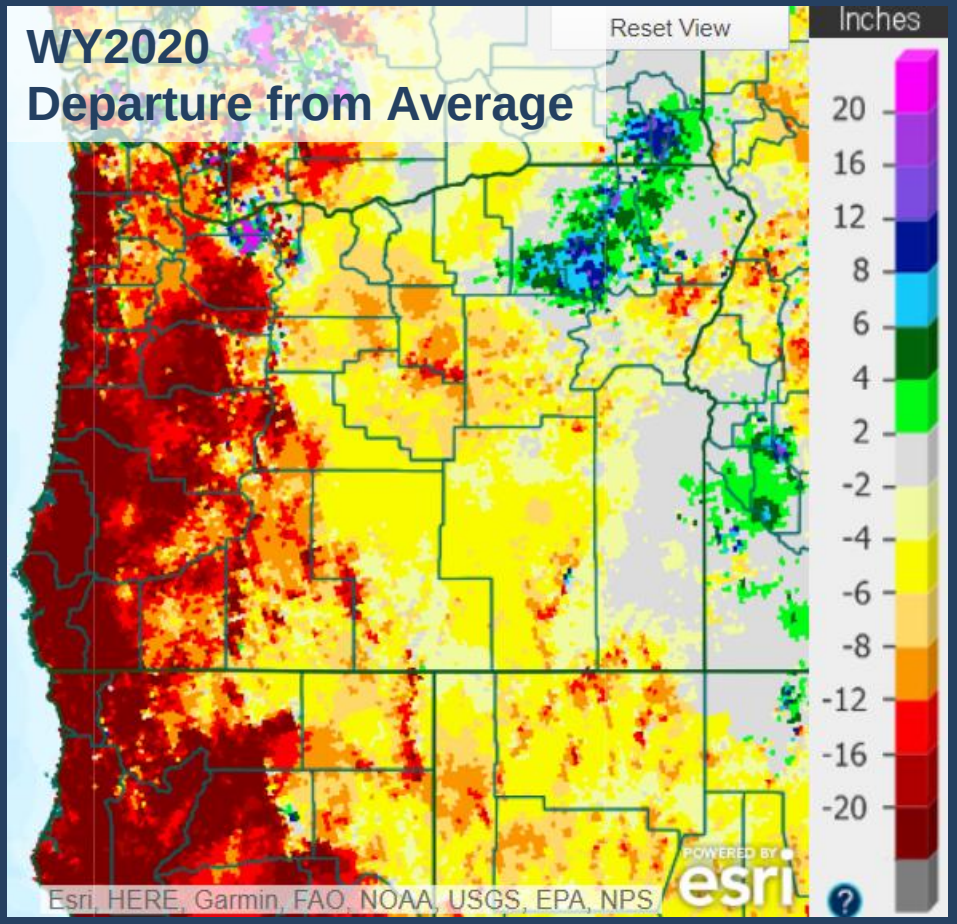
## Precipitation & Temperatures Update

August 13, 2020

Andy Bryant
NOAA/NWS Portland
Weather Forecast Office

# Water Year Precipitation

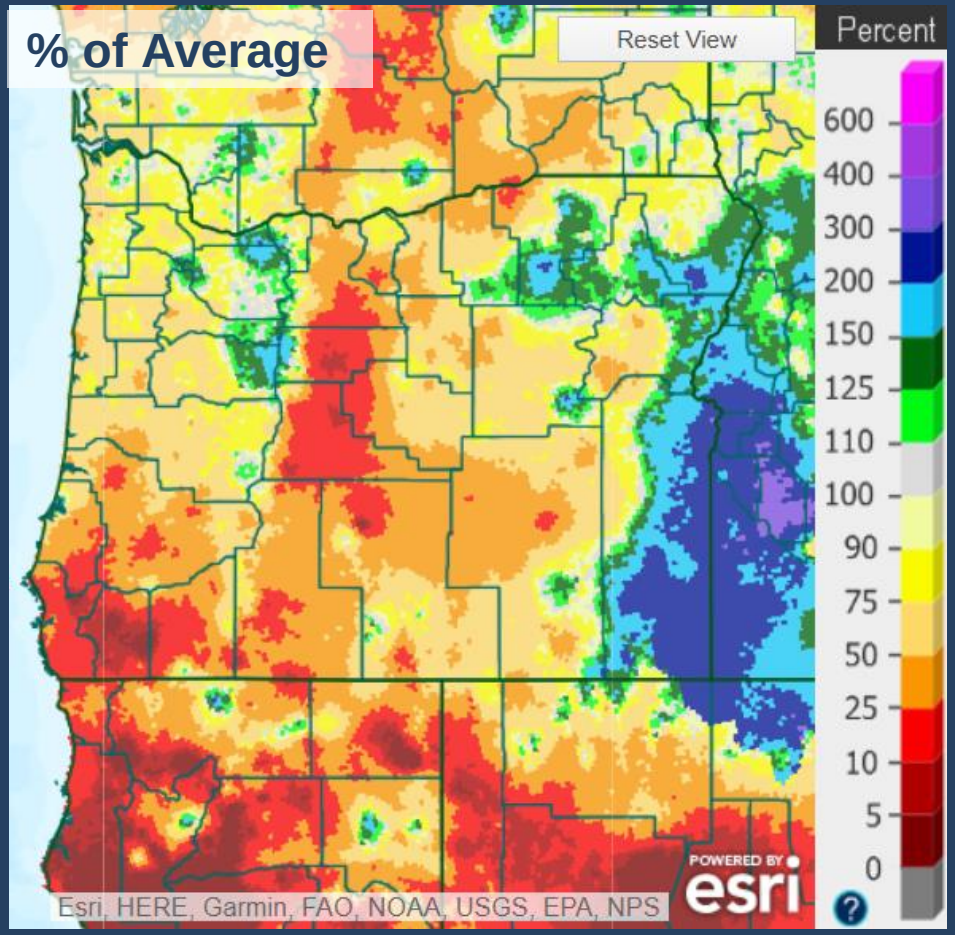


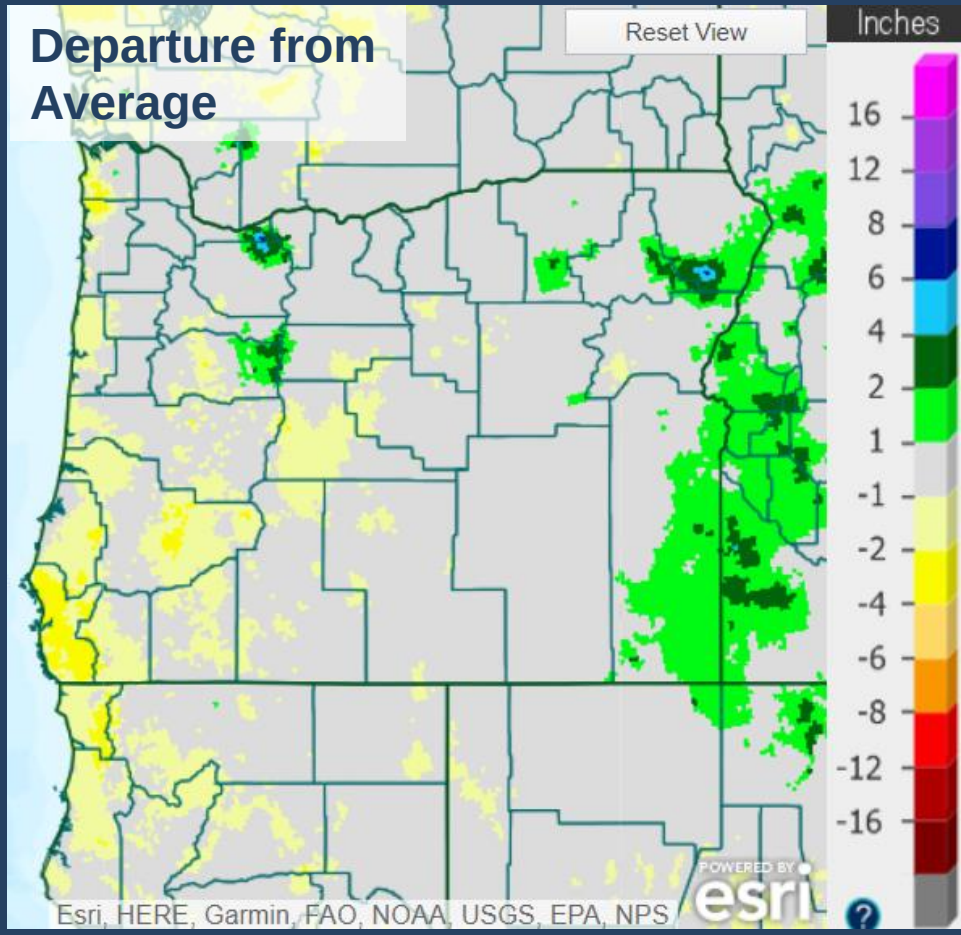




Precipitation Data as of August 12, 2020

Source: water.weather.gov/precip/index.php?location_type=wfo&location_name=pqr

# Precipitation – Past 60 Days



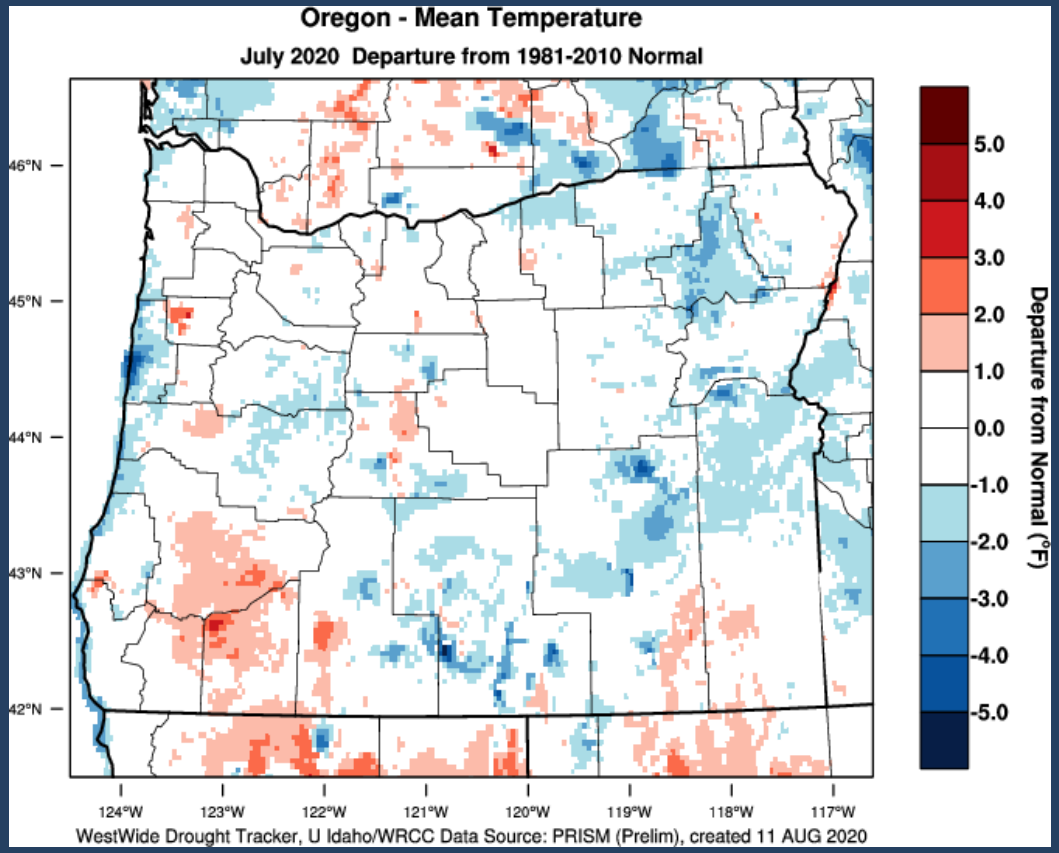

Precipitation Data as of August 12, 2020

Source: water.weather.gov/precip/index.php?location_type=wfo&location_name=pqr

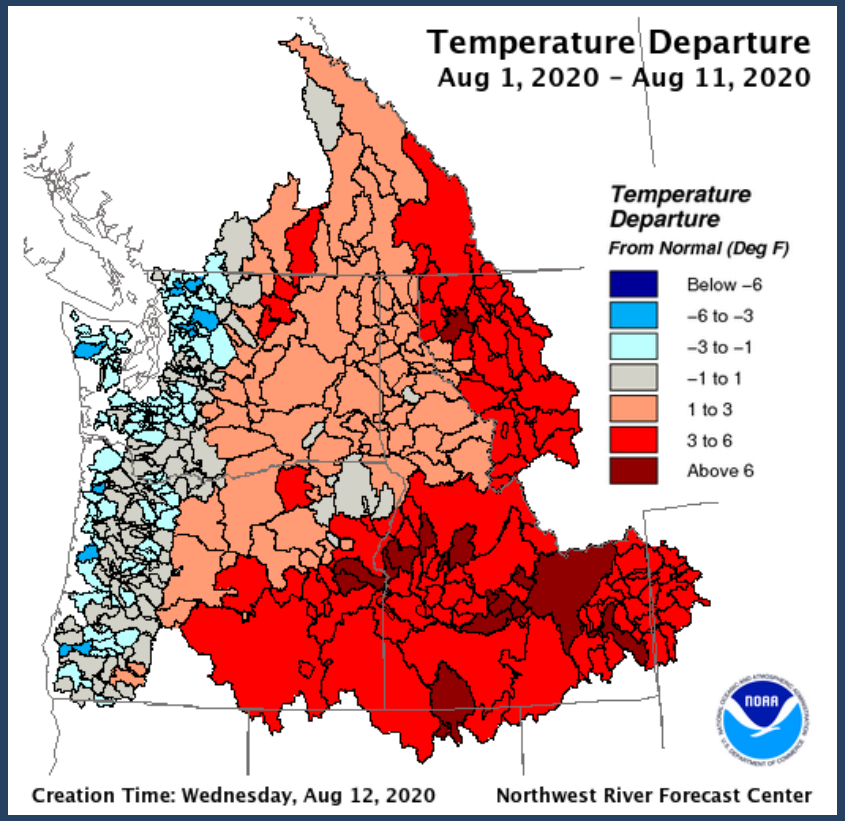
# Recent Temperatures



July 2020




August 1 - 11, 2020

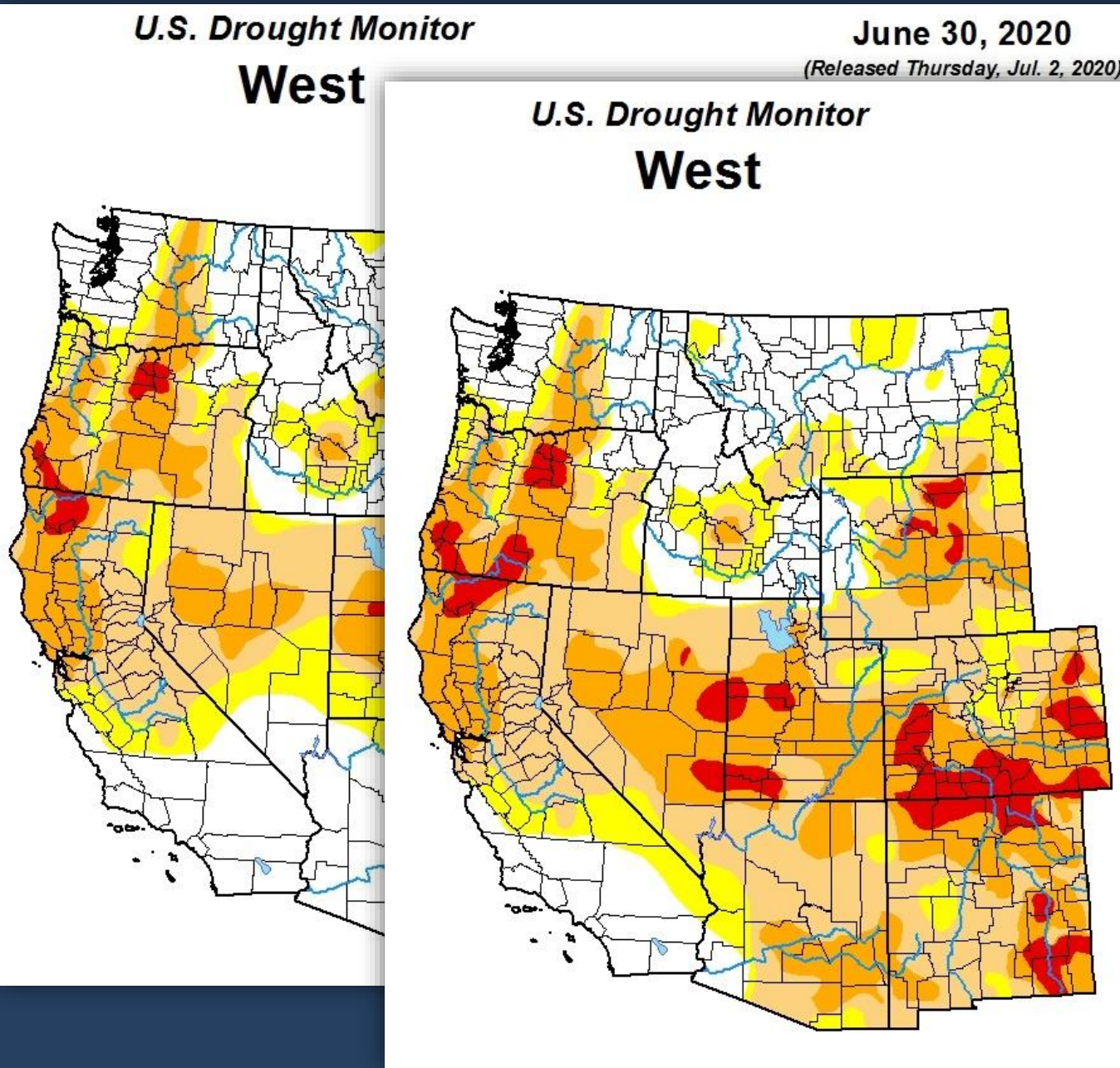



wrcc.dri.edu/wwdt/current.php?folder=mdn1

www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=2

# Drought Monitor

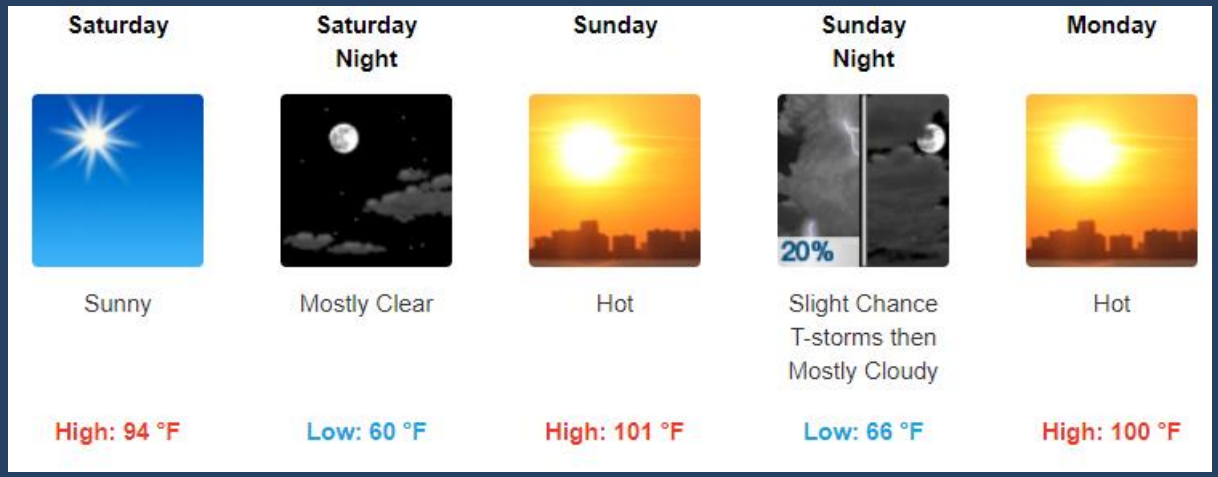




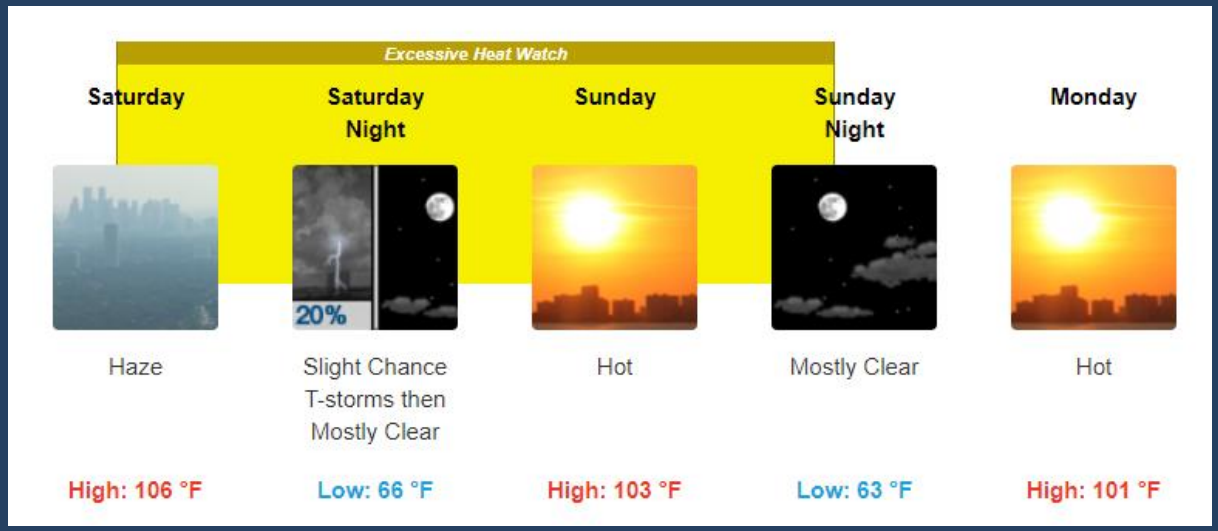
# Upcoming Weather

## HOT STATEWIDE THIS WEEKEND & EARLY NEXT WEEK

Pendleton



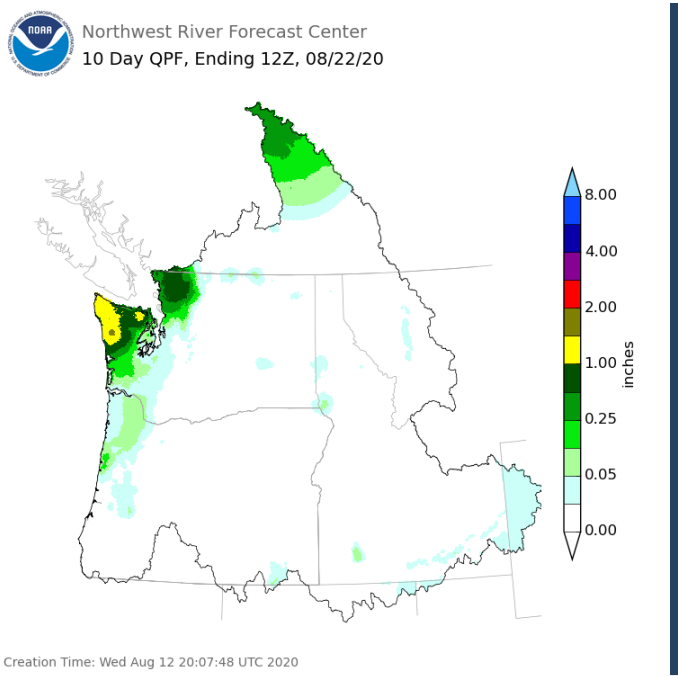

Medford

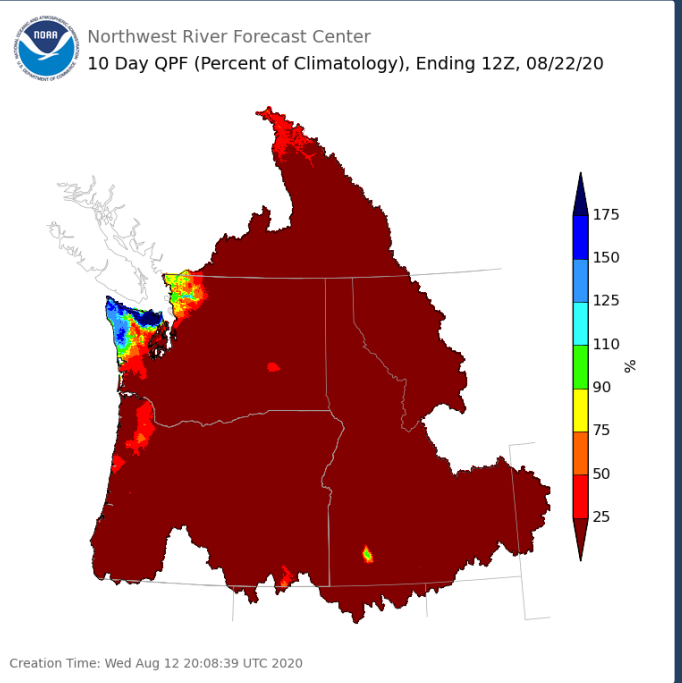


# Mid/Late August Outlook

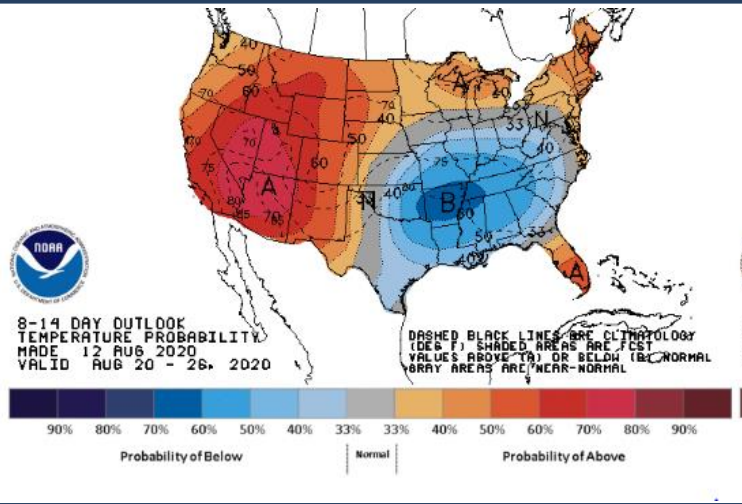


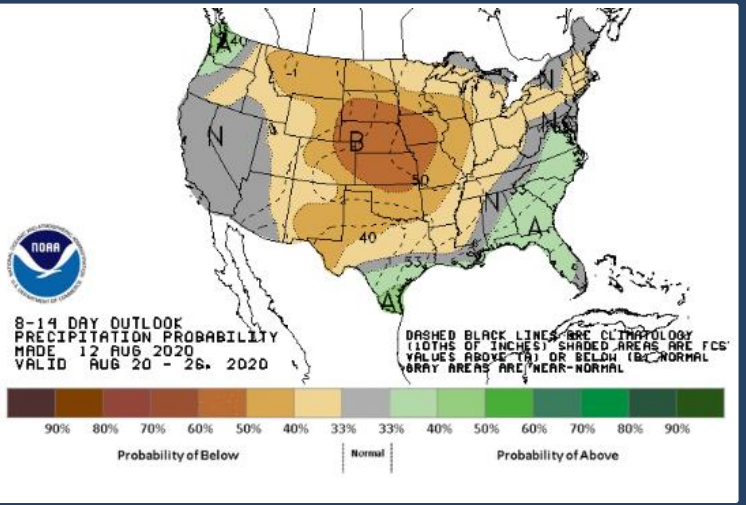
NWRFC
10-DAY
PRECIPITATION




CPC
8 – 14 DAY
OUTLOOK



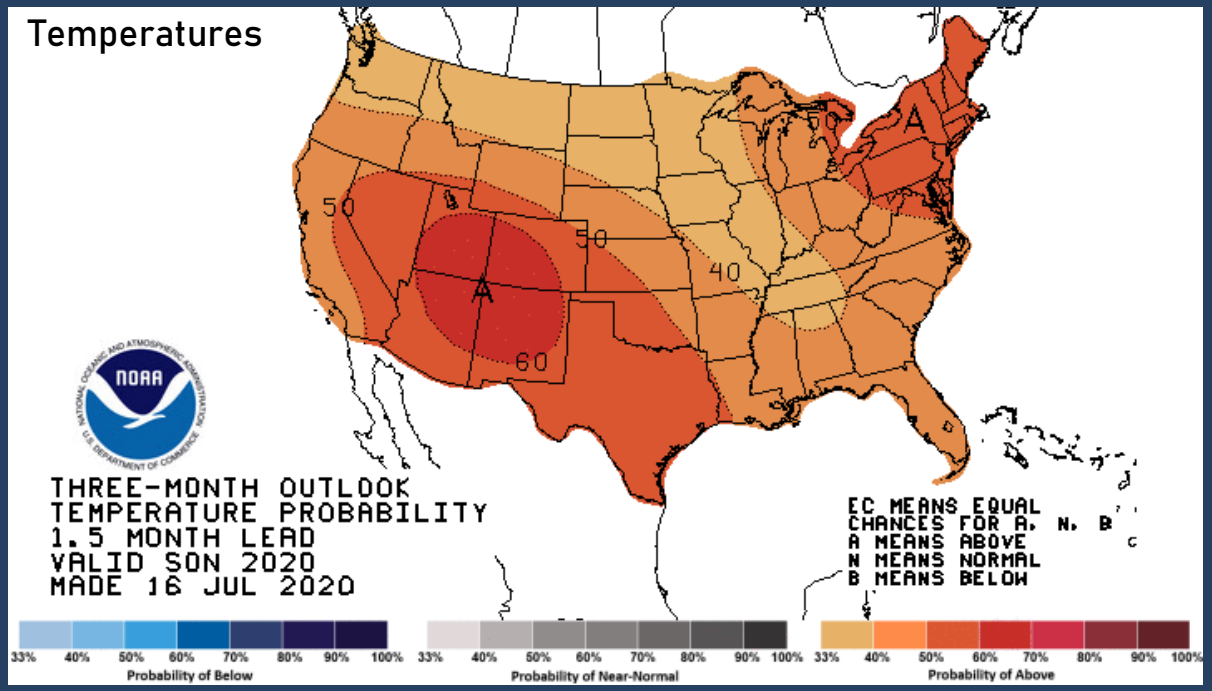

https://www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?t

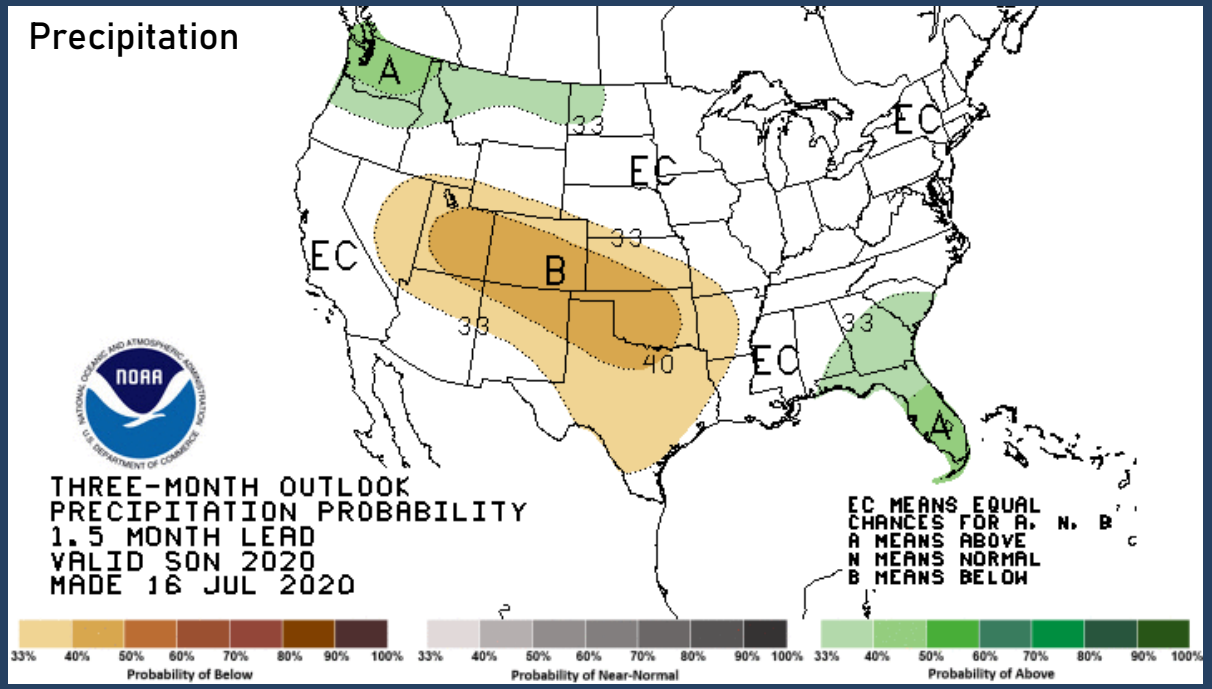
https://www.cpc.ncep.noaa.gov/products/predictions/814day/

# Climate Prediction Center Outlook

Sep – Oct – Nov 2020

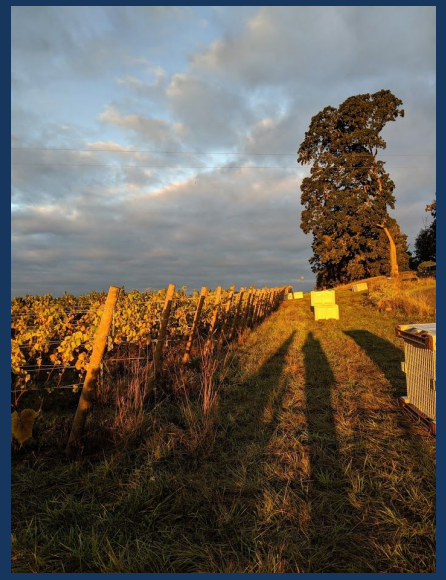
La Niña Watch in effect for this fall and winter

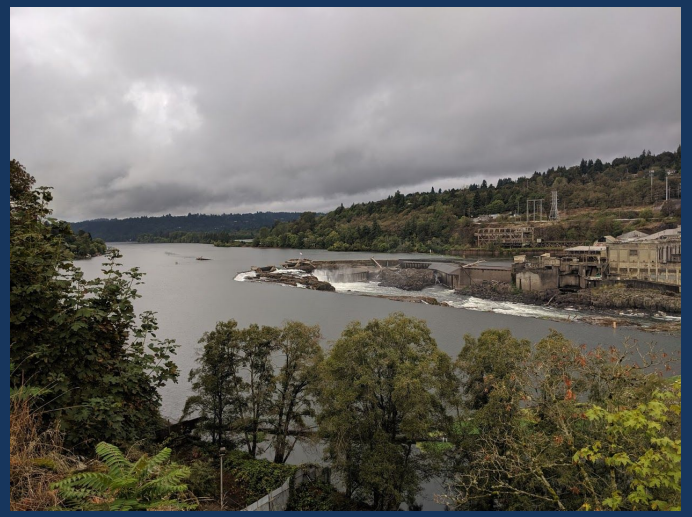



https://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=2

# Northwest River Forecast Center

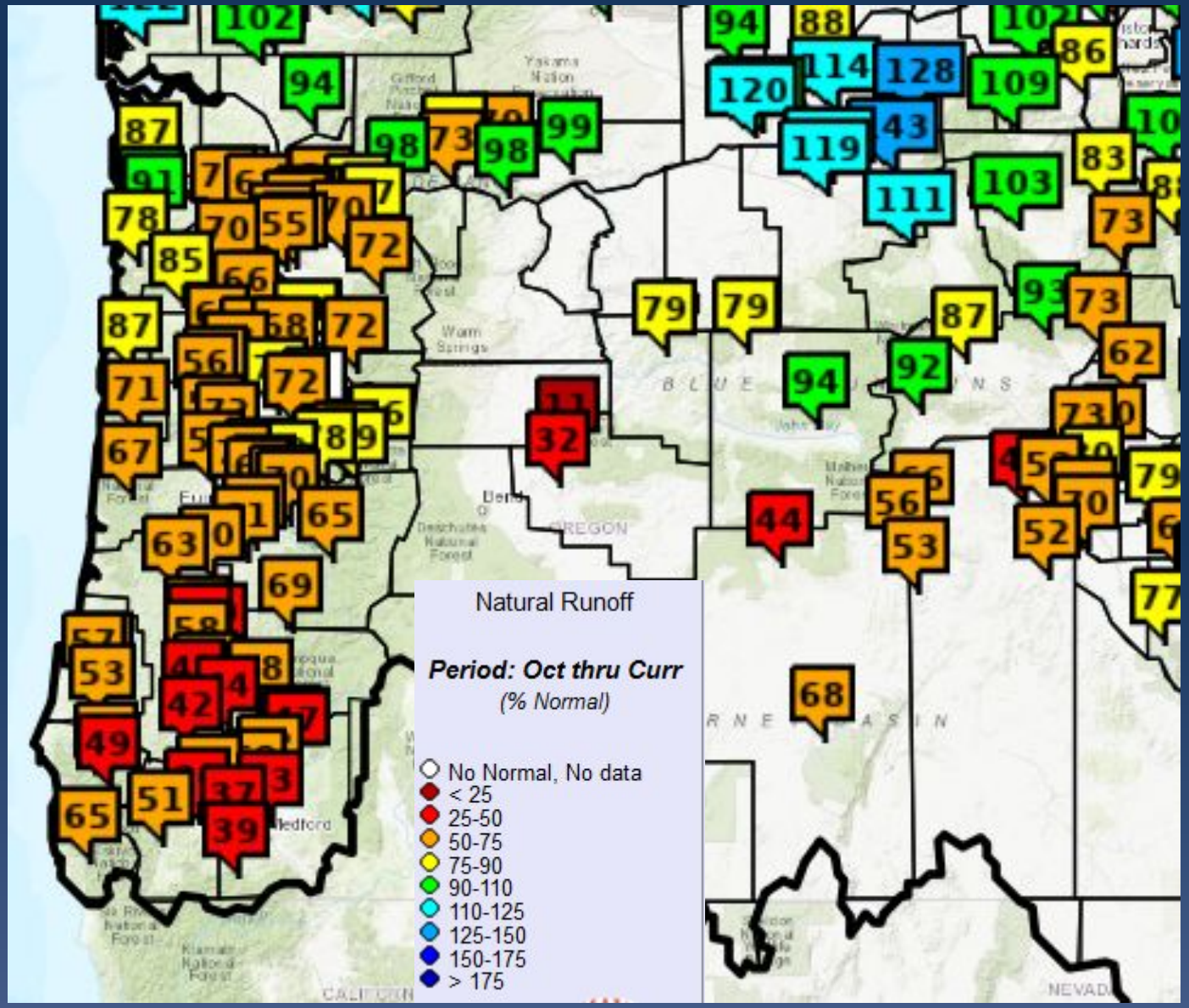




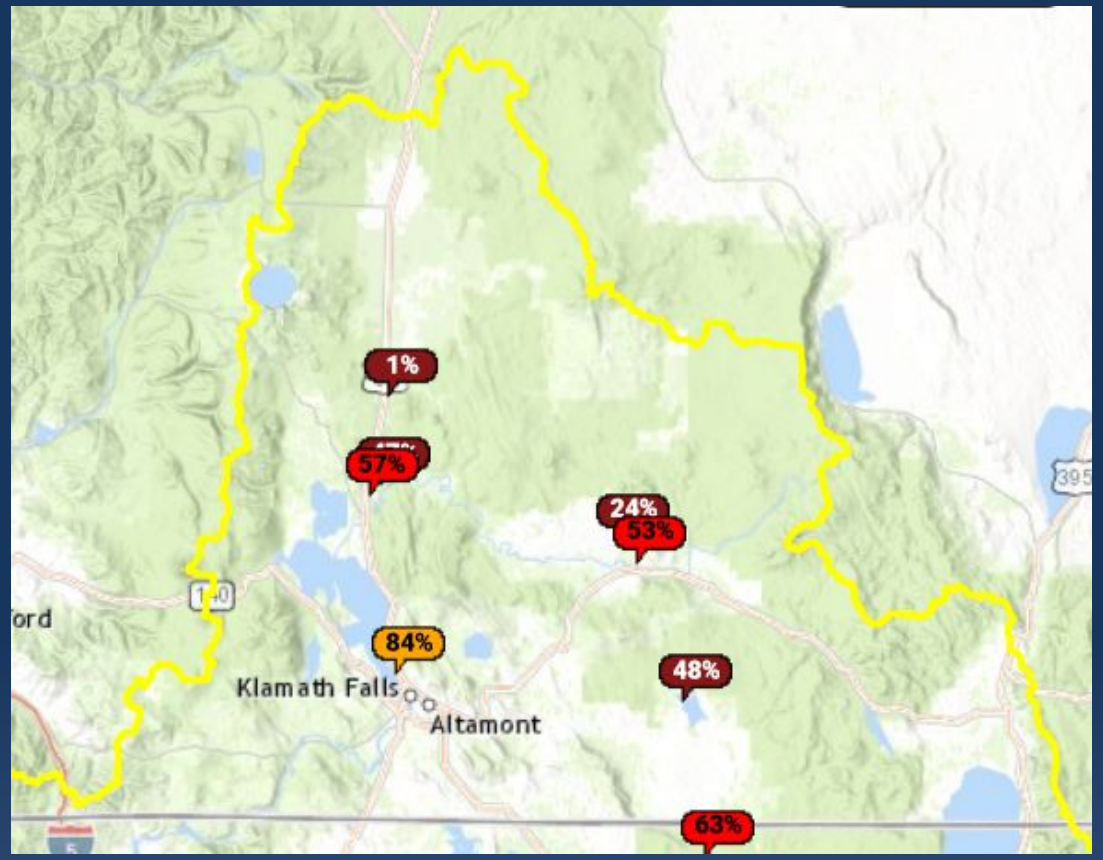
# Oregon WSAC August 2020

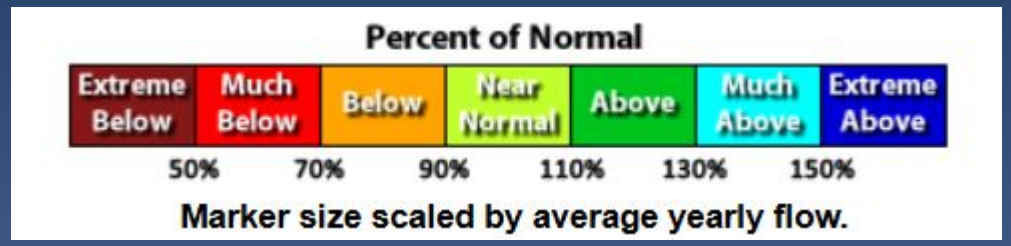
Ryan Lucas
ryan.lucas@noaa.gov
(503) 326-7291

# Current Adjusted Runoff Conditions



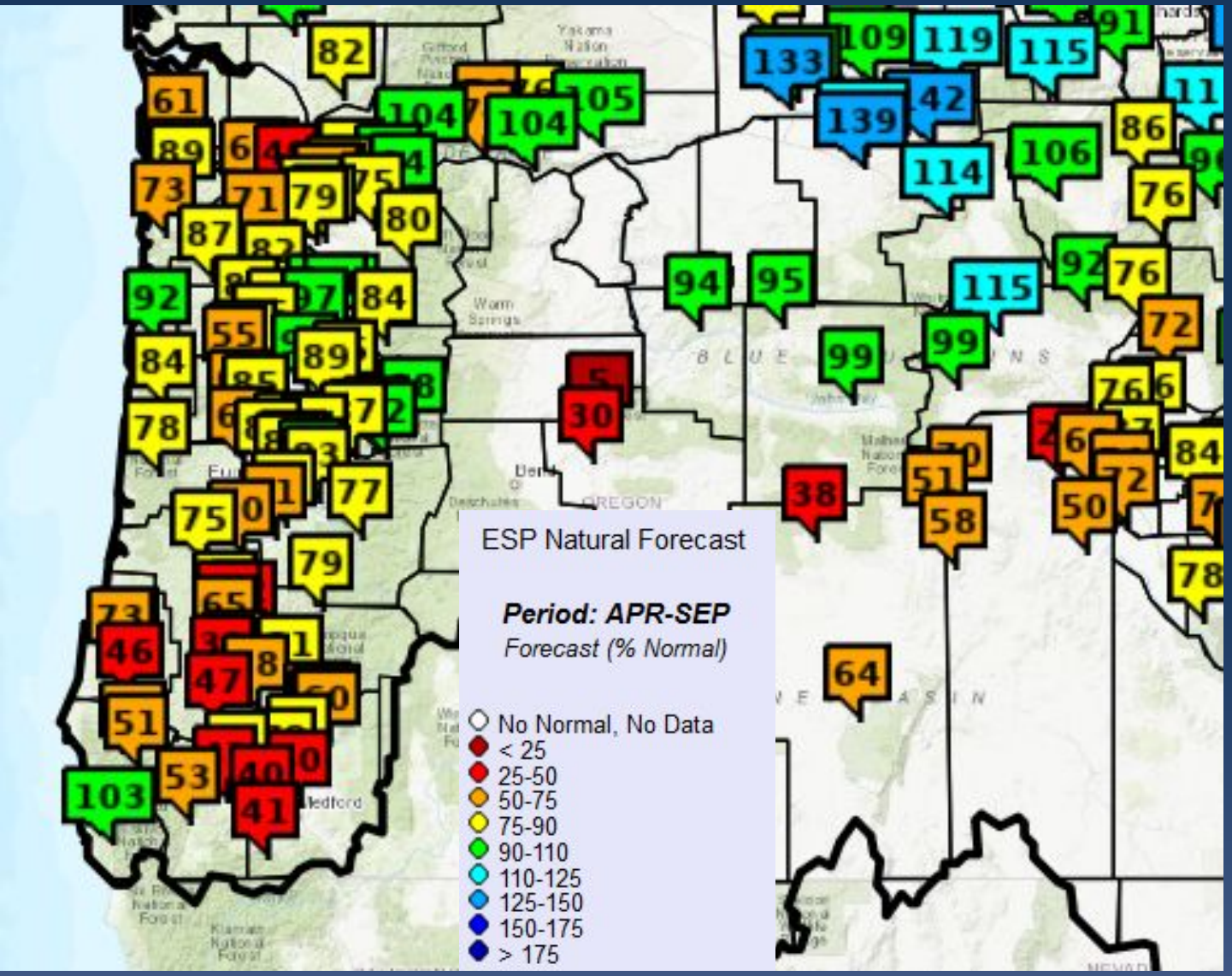

https://www.nwrfc.noaa.gov/natural



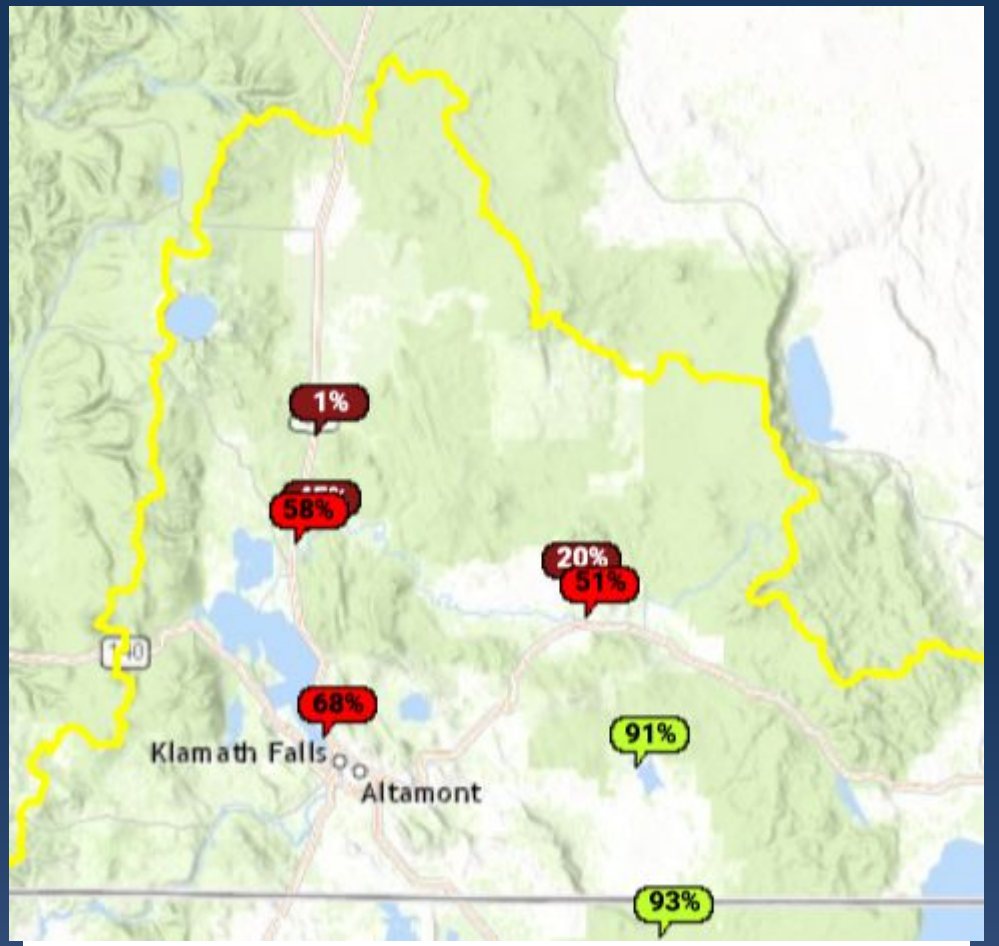



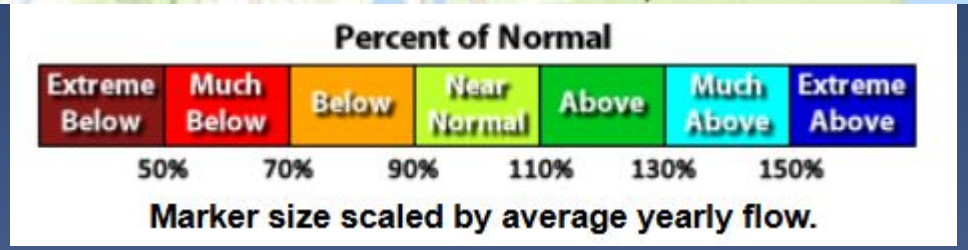

https://www.cnrfc.noaa.gov/water_resources_update.php

# Apr-Sep Volume Forecasts




https://www.nwrfc.noaa.gov/natural




https://www.cnrfc.noaa.gov/water_resources_update.php

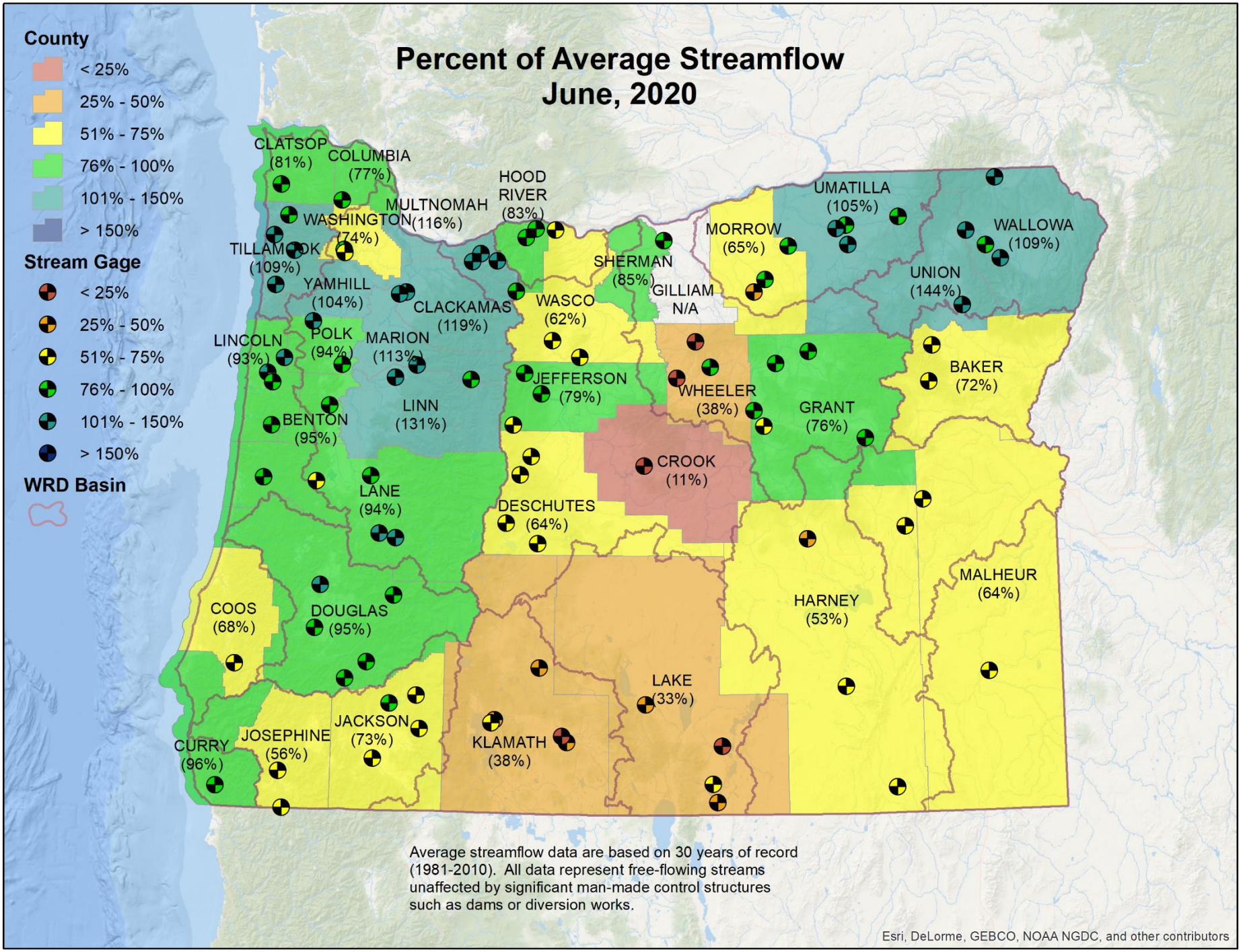
# Water Supply Conditions Report

# Water Supply Availability Committee

OREGON
WATER RESOURCES DEPARTMENT

**Ken Stahr**
**Oregon Water Resources Department**
**August 13, 2020**

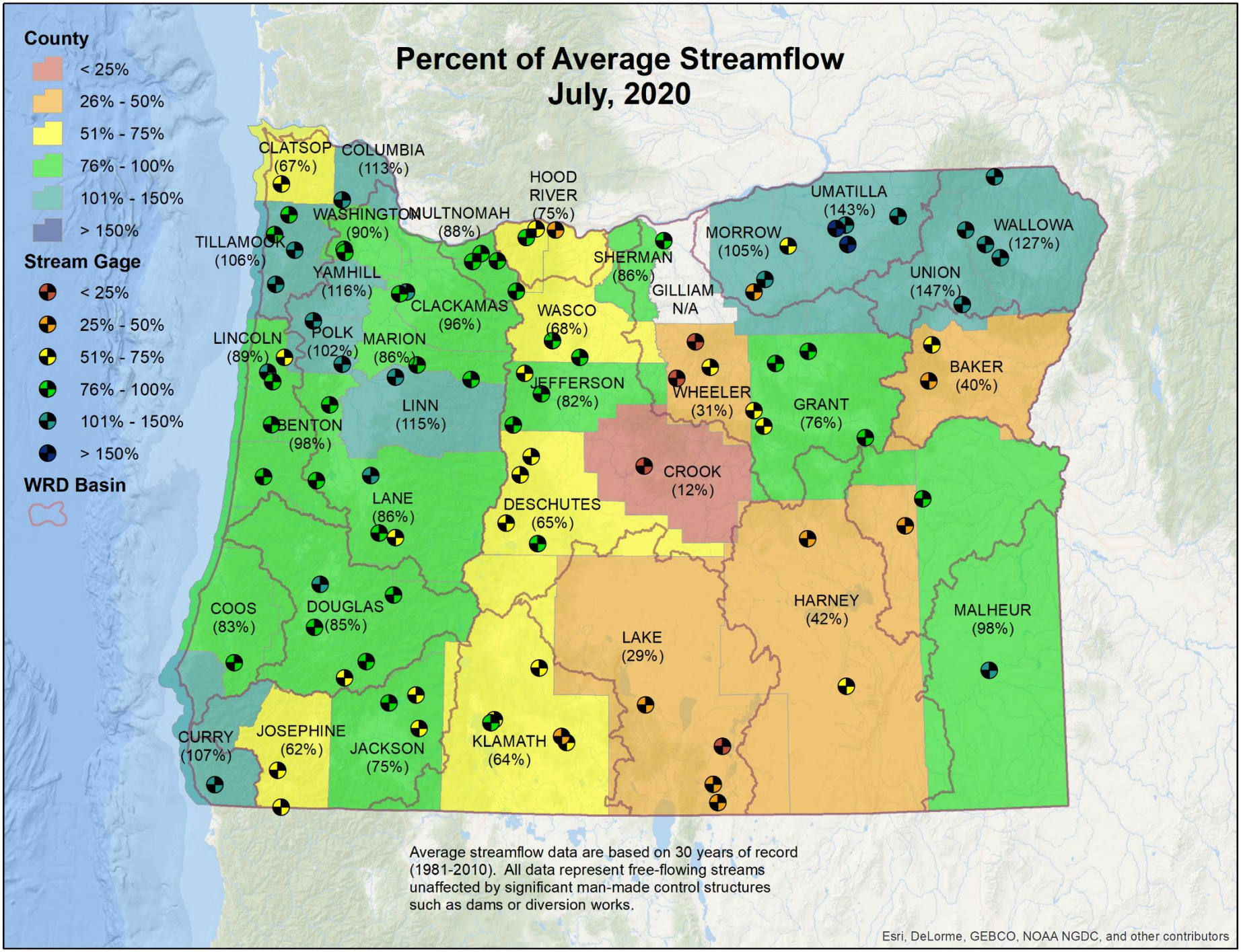
# Percent of Average Streamflow
# June, 2020

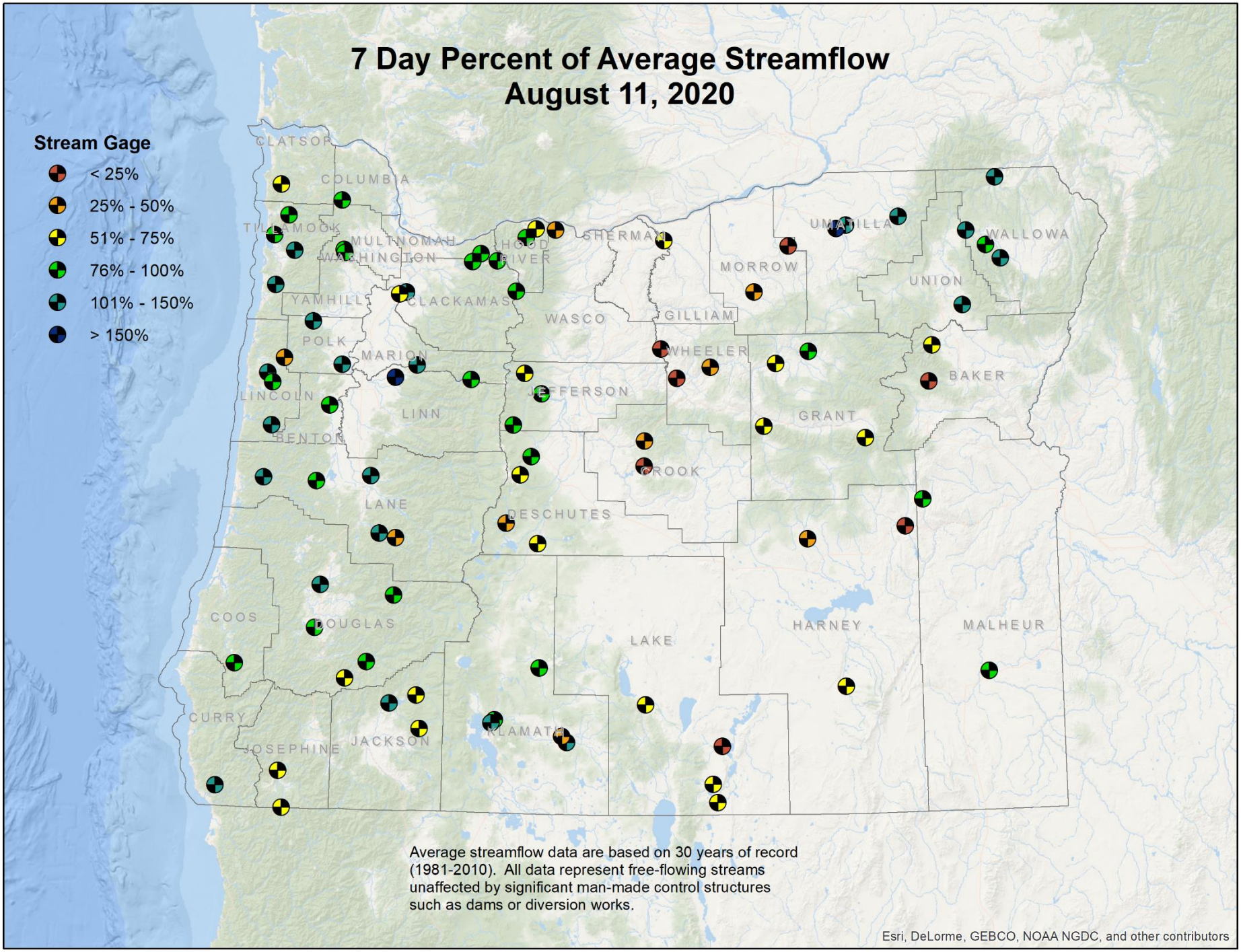


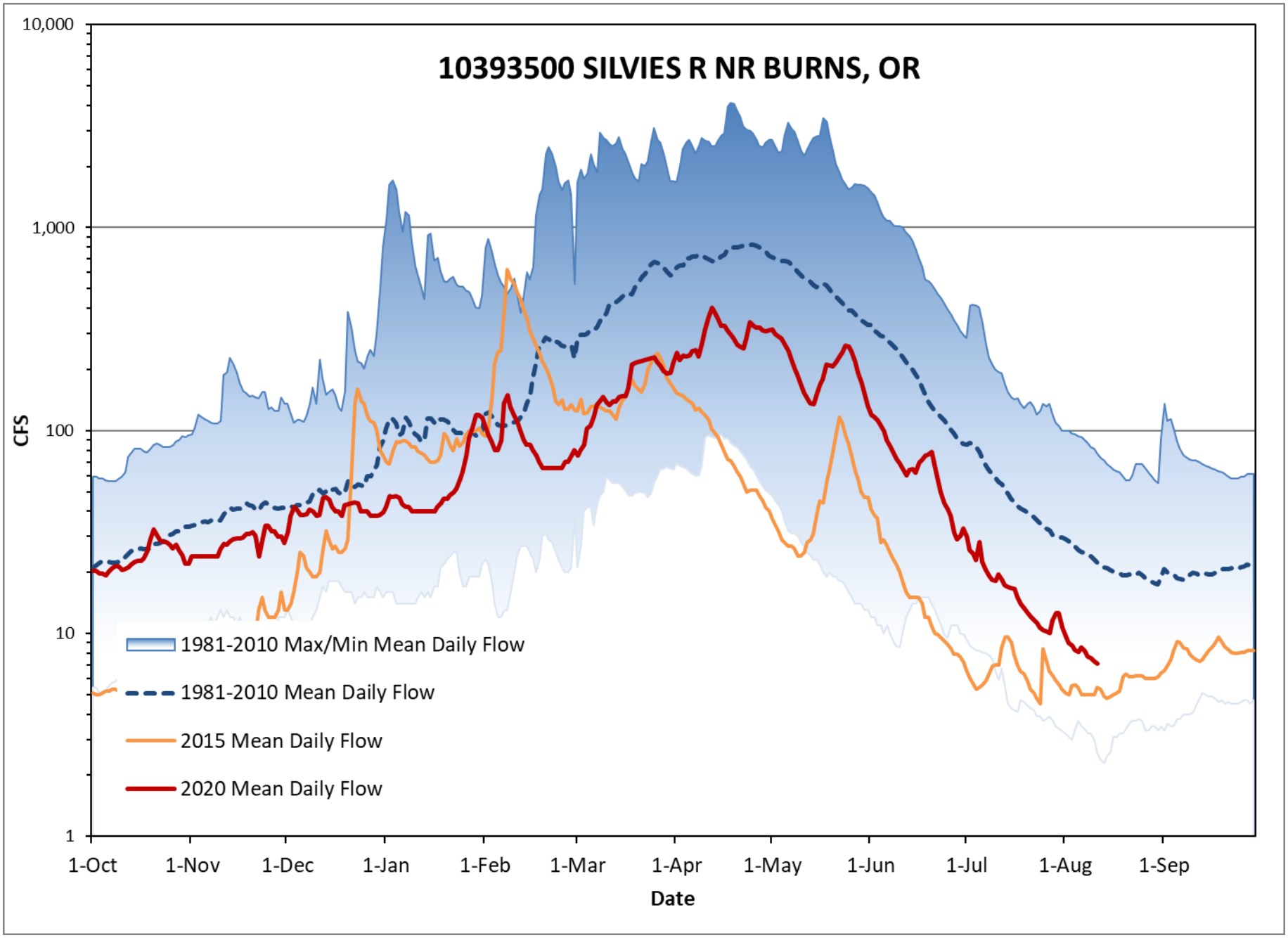

Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

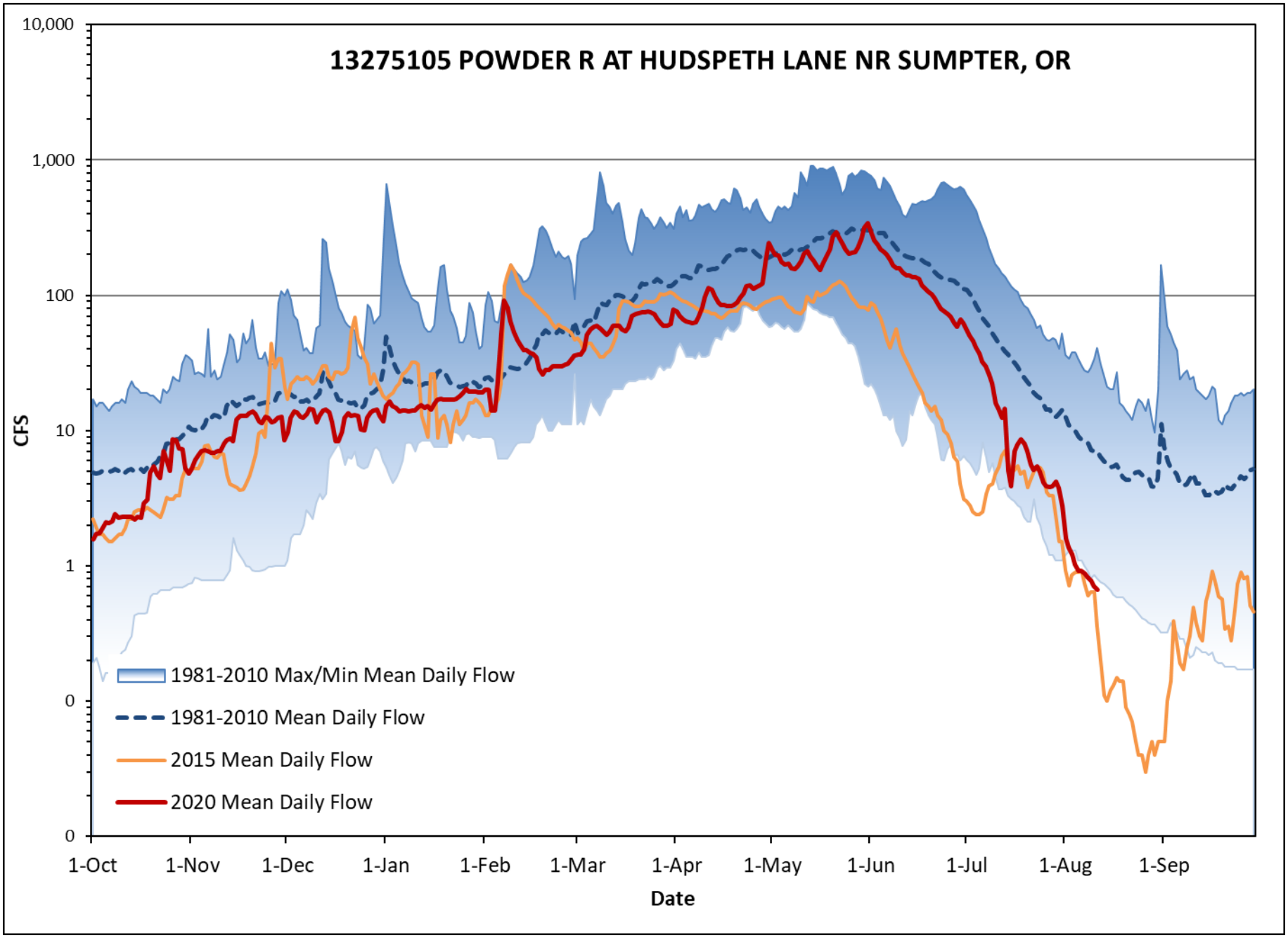
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

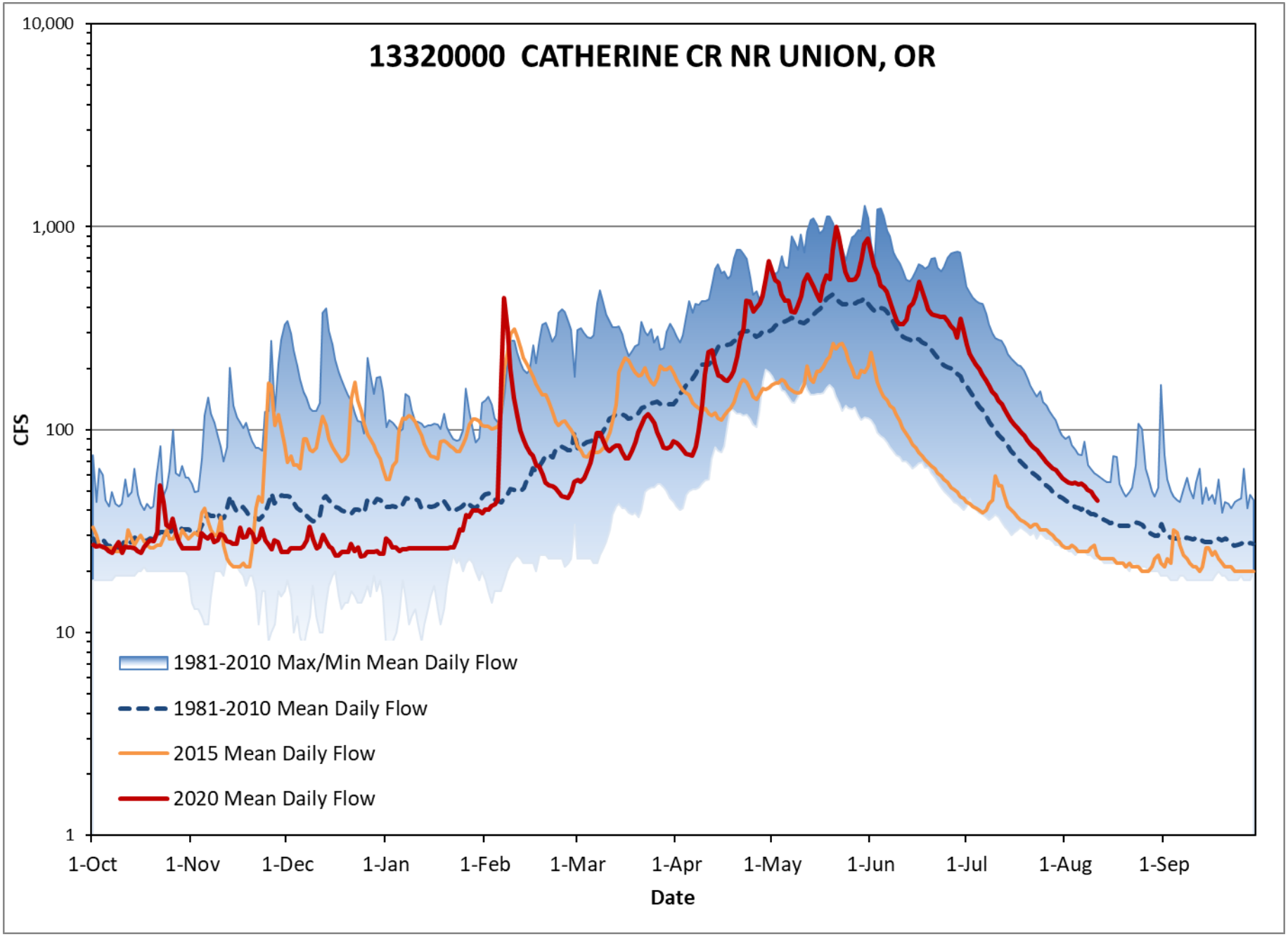
# Percent of Average Streamflow
## July, 2020

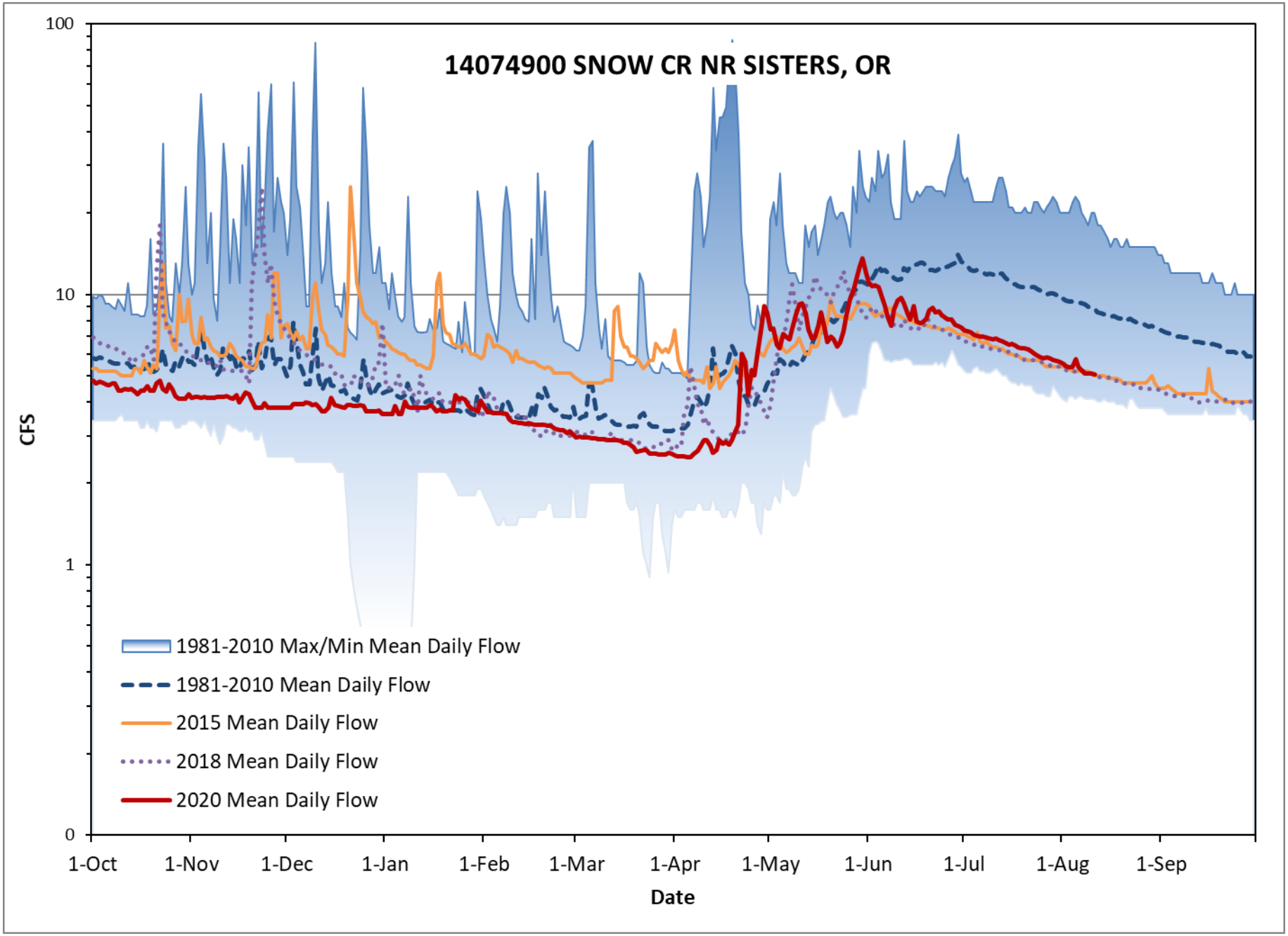


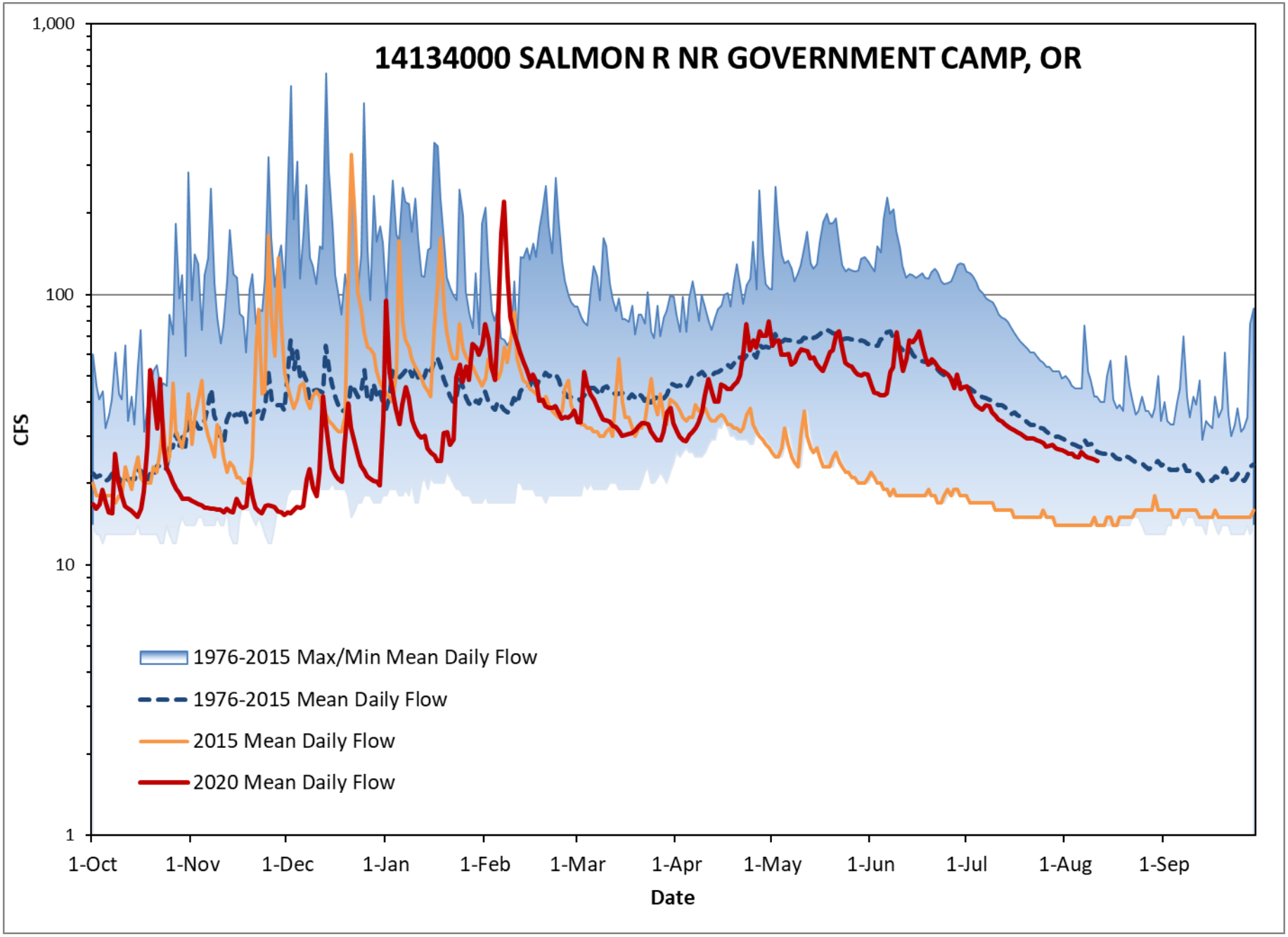

7 Day Percent of Average Streamflow
August 11, 2020
Stream Gage
< 25%
25% - 50%
51% - 75%
76% - 100%
101% - 150%
> 150%
CLATSOP
COLUMBIA
TILLAMOOK
MULTNOMAH
WASHINGTON
HOOD RIVER
SHERMAN
UMATILLA
WALLOWA
MORROW
UNION
YAMHILL
CLACKAMAS
WASCO
GILLIAM
POLK
MARION
WHEELER
BAKER
LINCOLN
JEFFERSON
LINN
GRANT
BENTON
CROOK
LANE
DESCHUTES
COOS
DOUGLAS
LAKE
HARNEY
MALHEUR
CURRY
JOSEPHINE
JACKSON
KLAMATH
Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

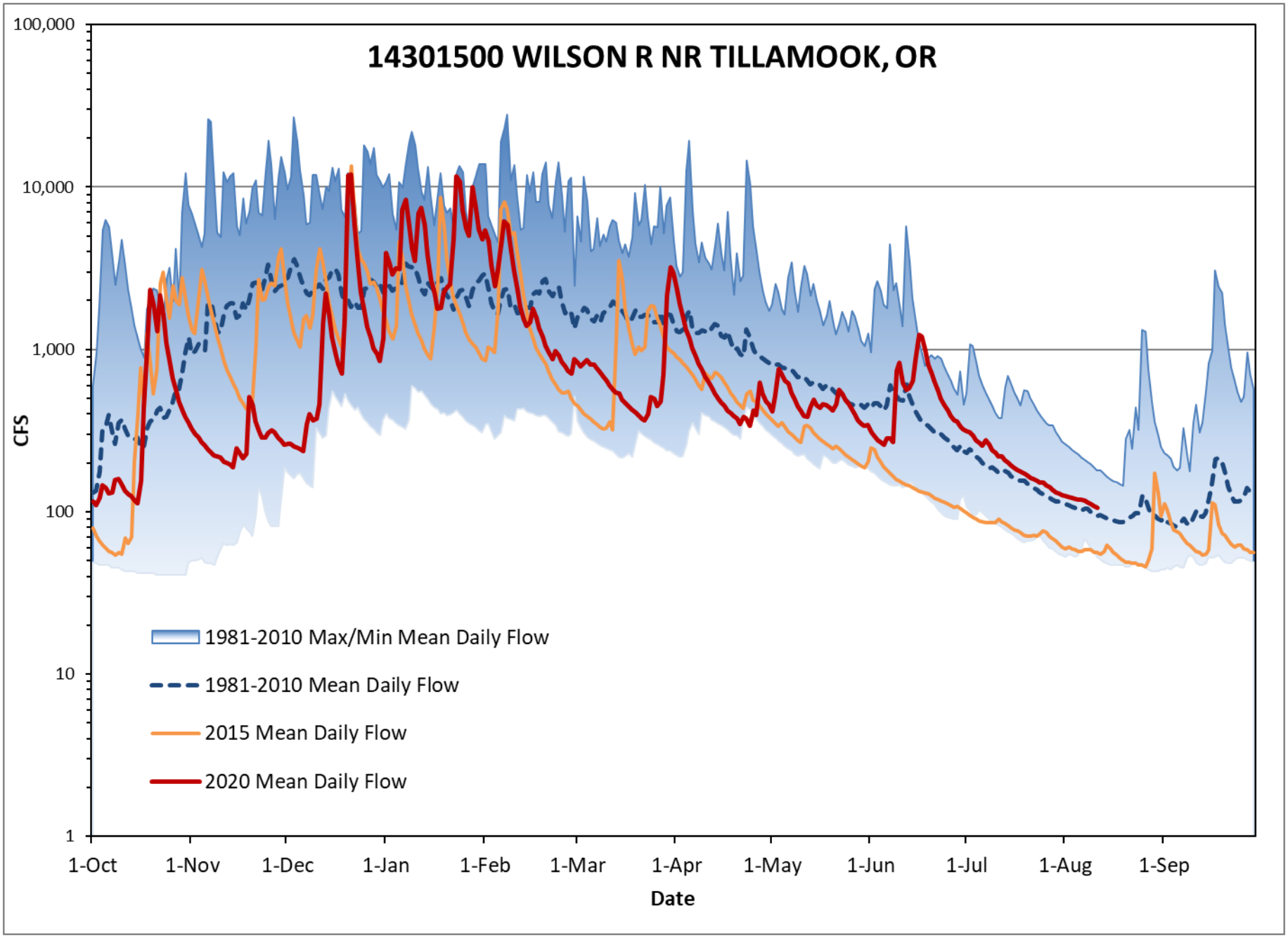

10393500 SILVIES R NR BURNS, OR
10,000
1,000
100
10
1
CFS
1981-2010 Max/Min Mean Daily Flow
1981-2010 Mean Daily Flow
2015 Mean Daily Flow
2020 Mean Daily Flow
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
Date


13275105 POWDER R AT HUDSPETH LANE NR SUMPTER, OR
10,000
1,000
100
10
1
0
0
CFS
1981-2010 Max/Min Mean Daily Flow
1981-2010 Mean Daily Flow
2015 Mean Daily Flow
2020 Mean Daily Flow
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
Date


13320000 CATHERINE CR NR UNION, OR
10,000
1,000
100
10
1
CFS
1981-2010 Max/Min Mean Daily Flow
1981-2010 Mean Daily Flow
2015 Mean Daily Flow
2020 Mean Daily Flow
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
Date

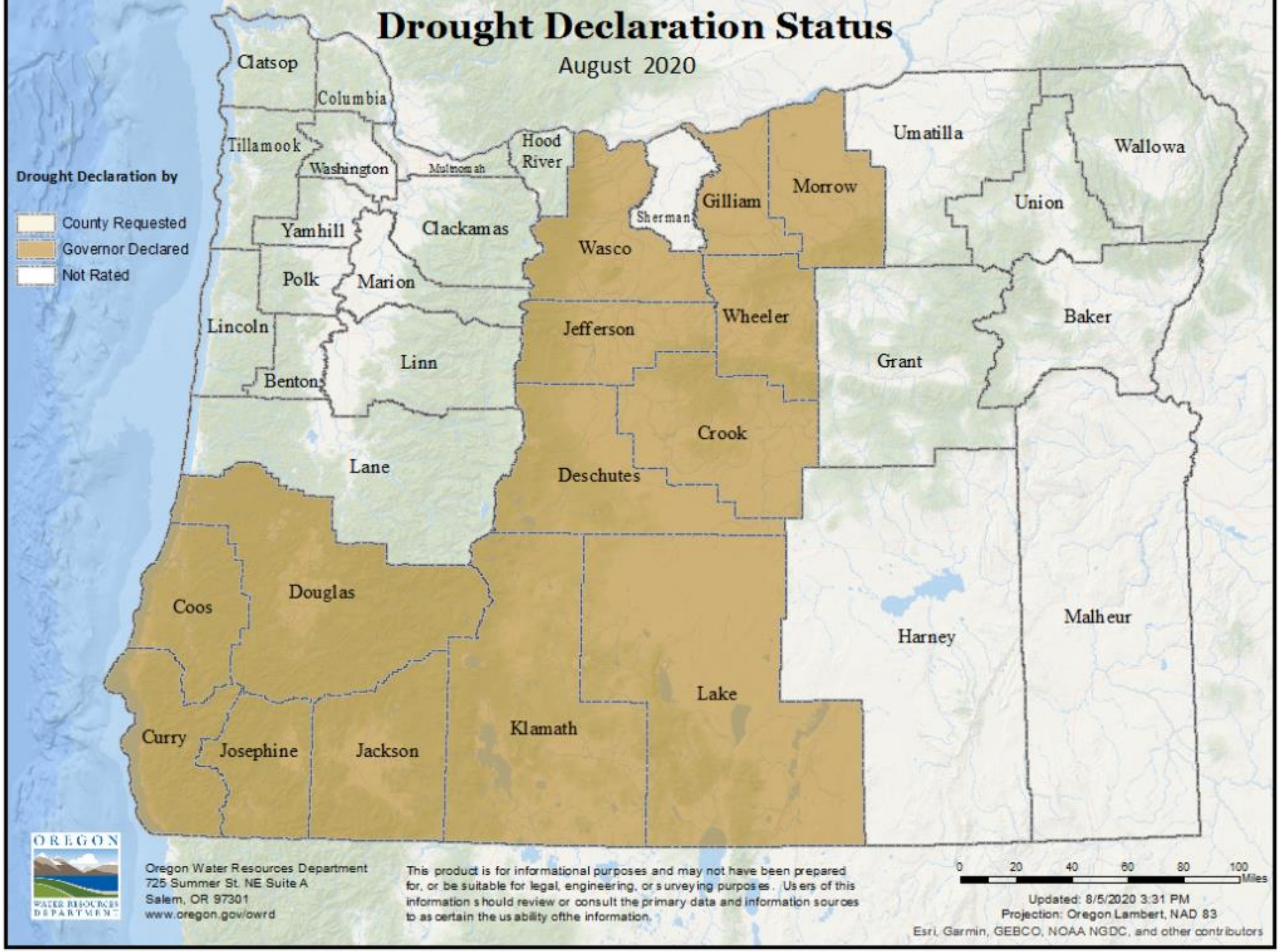

14074900 SNOW CR NR SISTERS, OR
100
10
1
0
CFS
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
Date
1981-2010 Max/Min Mean Daily Flow
1981-2010 Mean Daily Flow
2015 Mean Daily Flow
2018 Mean Daily Flow
2020 Mean Daily Flow


14134000 SALMON R NR GOVERNMENT CAMP, OR
1,000
100
10
1
CFS
1976-2015 Max/Min Mean Daily Flow
1976-2015 Mean Daily Flow
2015 Mean Daily Flow
2020 Mean Daily Flow
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
Date


14301500 WILSON R NR TILLAMOOK, OR
100,000
10,000
1,000
100
10
1
CFS
1981-2010 Max/Min Mean Daily Flow
1981-2010 Mean Daily Flow
2015 Mean Daily Flow
2020 Mean Daily Flow
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
Date

# Drought Declaration Status

August 2020




Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
www.oregon.gov/owrd

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Updated: 8/5/2020 3:31 PM
Projection: Oregon Lambert, NAD 83
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors


# Thank you

# Oregon Water Supply Availability Meeting

## August 2020

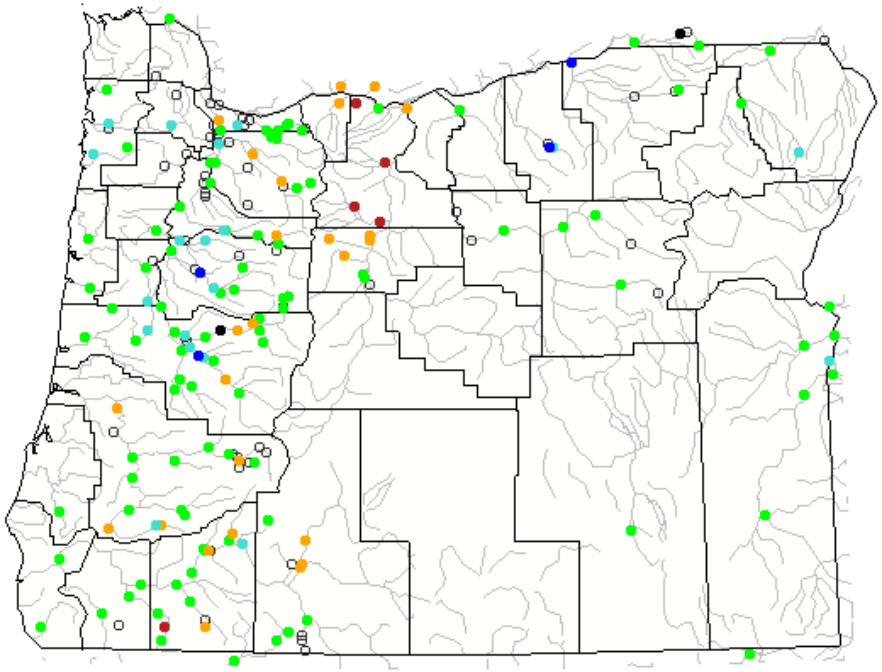
U.S. Department of the Interior
U.S. Geological Survey

USGS Update on Surface Water Conditions
Carrie Boudreau & Marc Stewart
Oregon Water Science Center
Photo: above USGS gage 14083780

# Monthly Average Streamflow

## (as compared to Historical Record)

July 2020



USGS

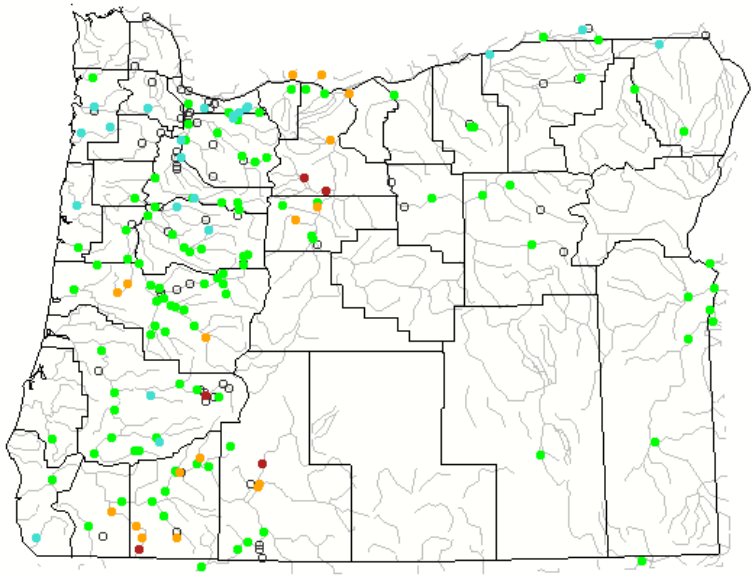
Search USGS streamgage

Choose a data retrieval option and select a location on the map

○ List of all stations ◉ Single station ○ Nearest stations ○ Peak flow

| Explanation - Percentile classes | | | | | | | |
|---|---|---|---|---|---|---|---|
| ● | ● | ● | ● | ● | ● | ● | ○ |
| Low | <10 Much below normal | 10-24 Below normal | 25-75 Normal | 76-90 Above normal | >90 Much above normal | High | Not-ranked |

June 2020

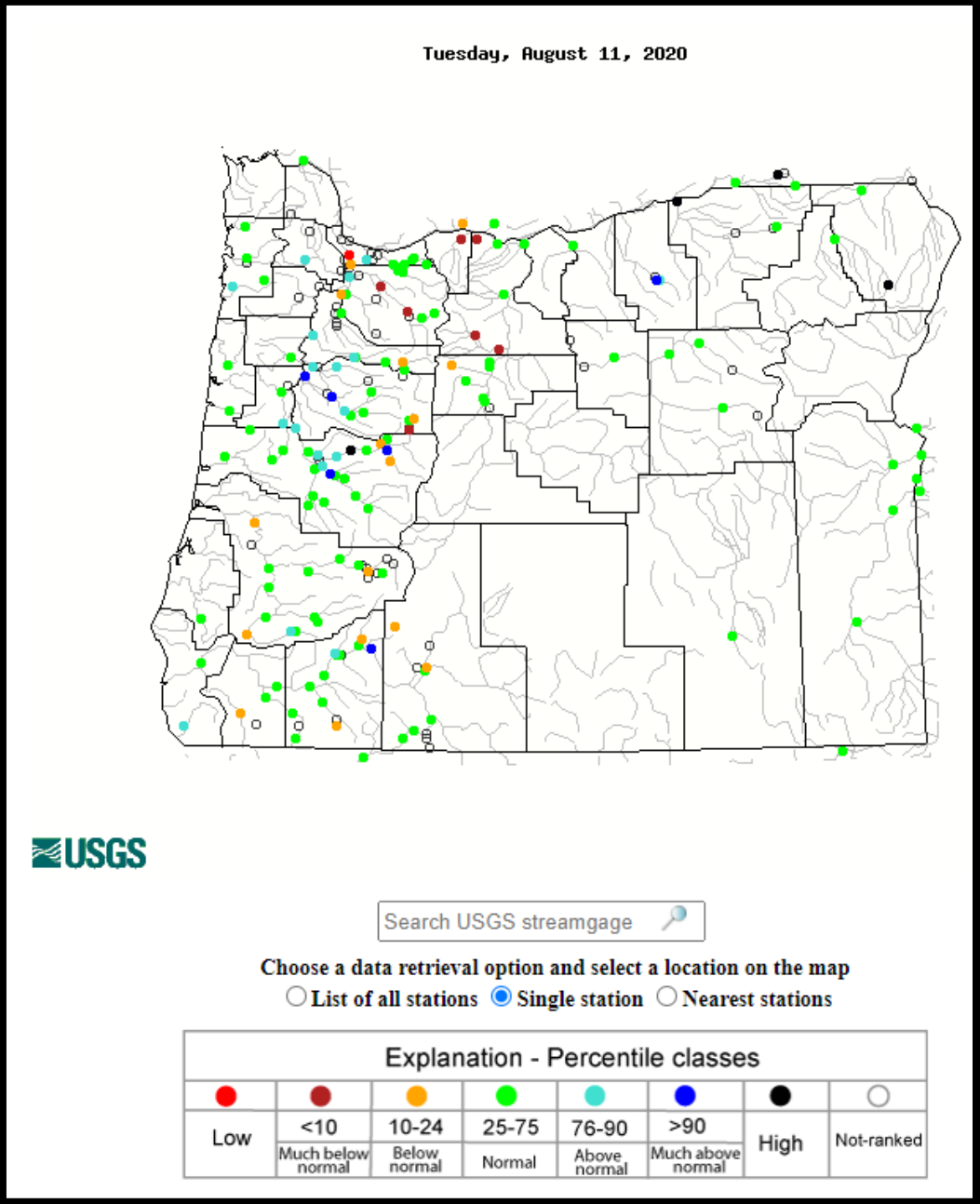


USGS

USGS

# 7-day Average Streamflow

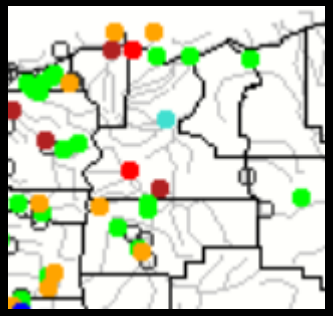
## (as compared to Historical Record)

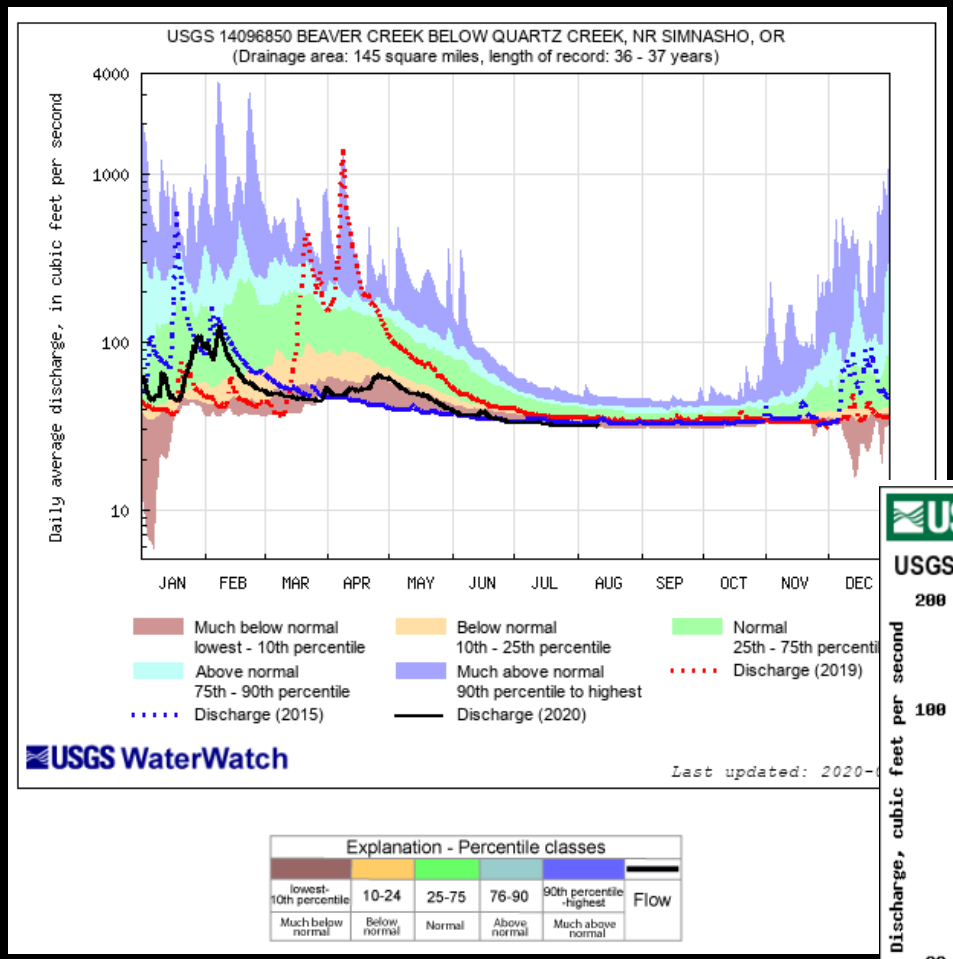


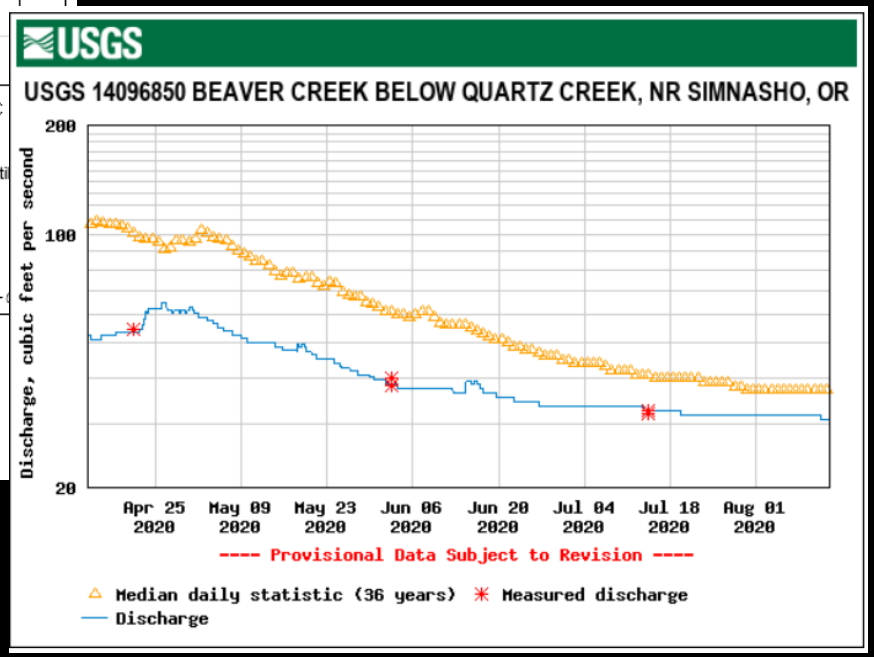

USGS

# Wasco County

14096850 Beaver Cr blw
Quartz Cr, nr Shimnasho, OR



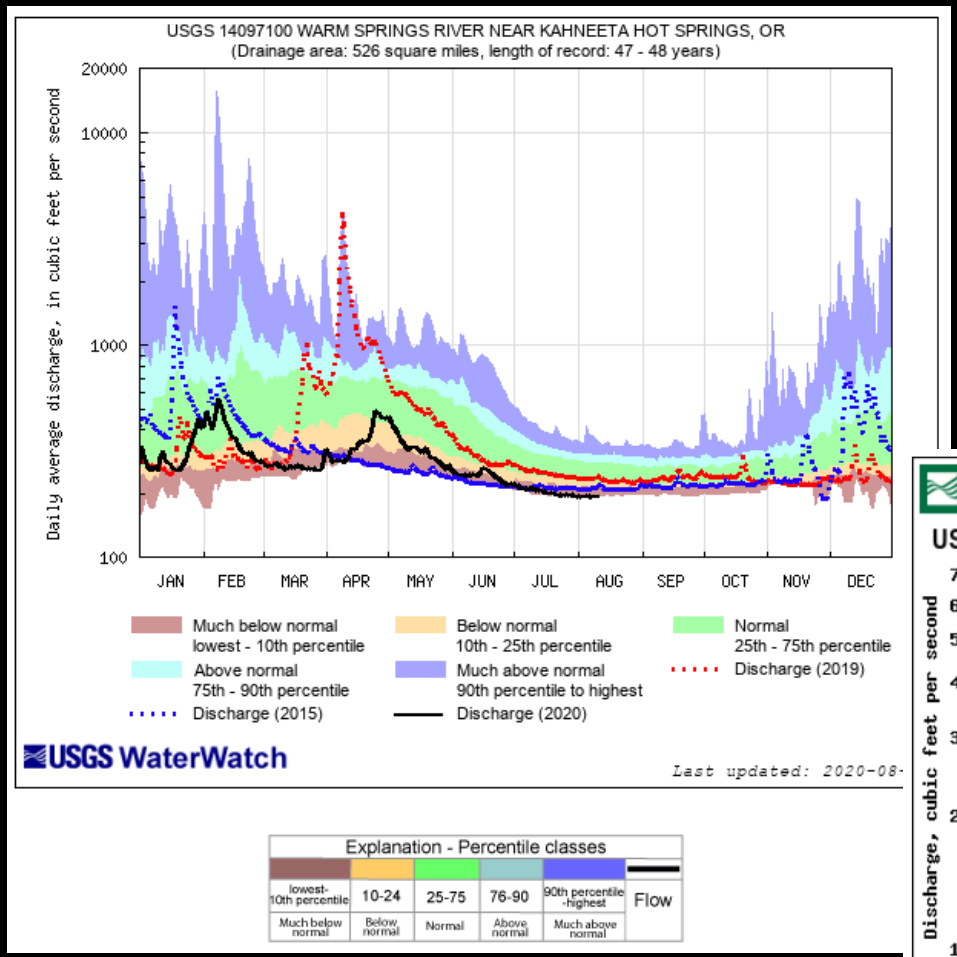



USGS

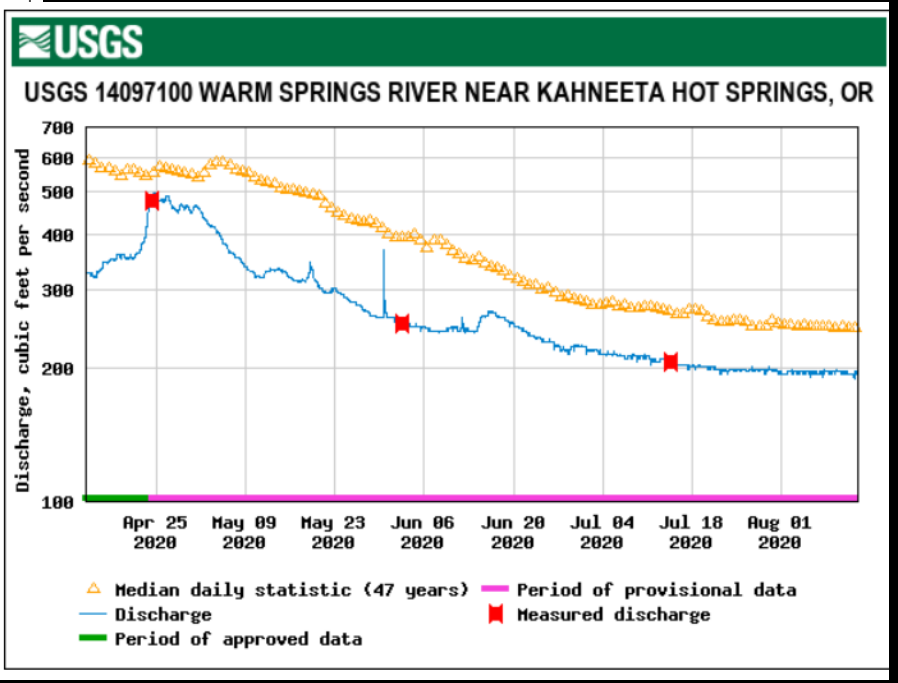
# Wasco County

14097100 Warm Springs R nr
Kahneeta Hot Springs, OR



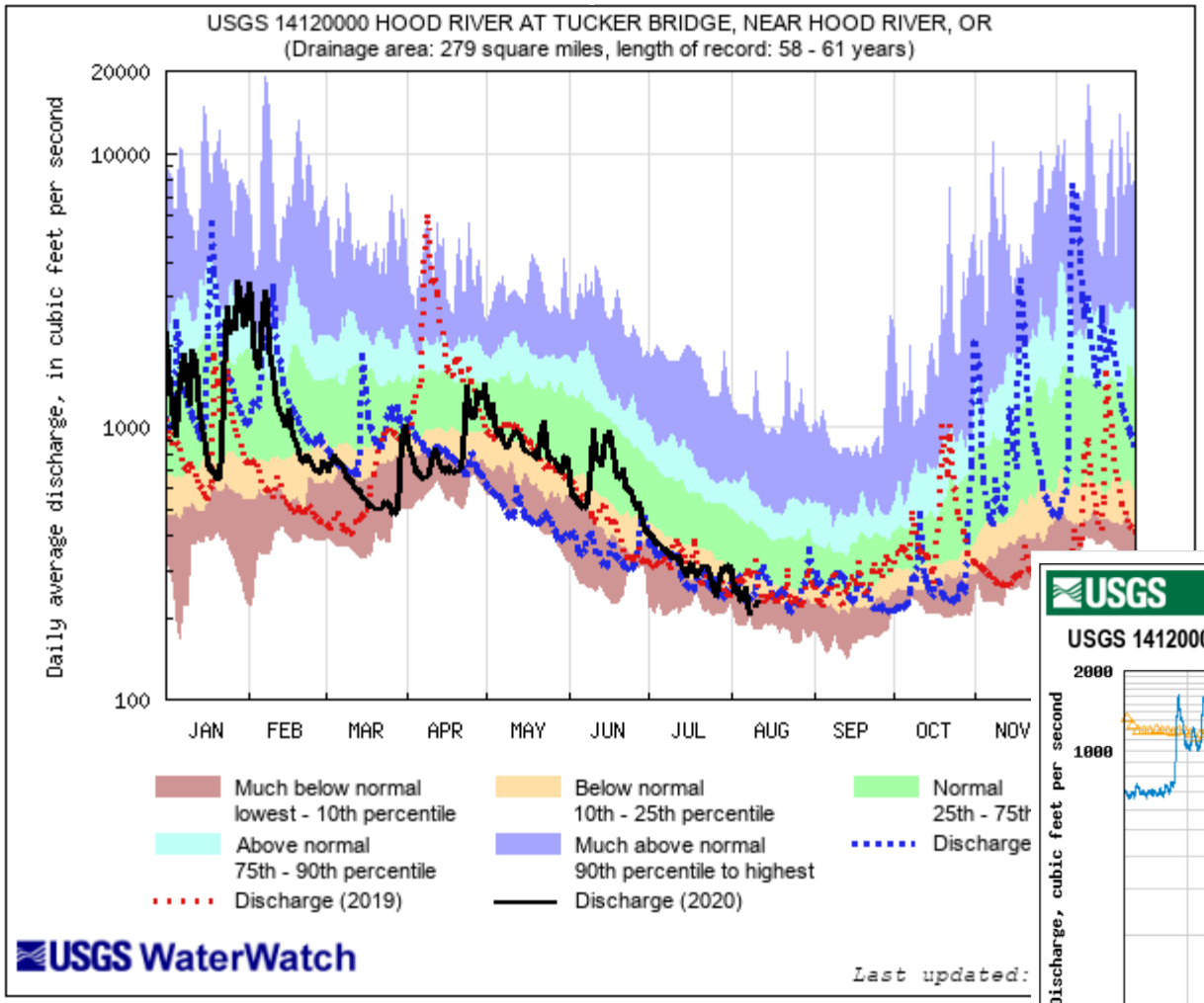


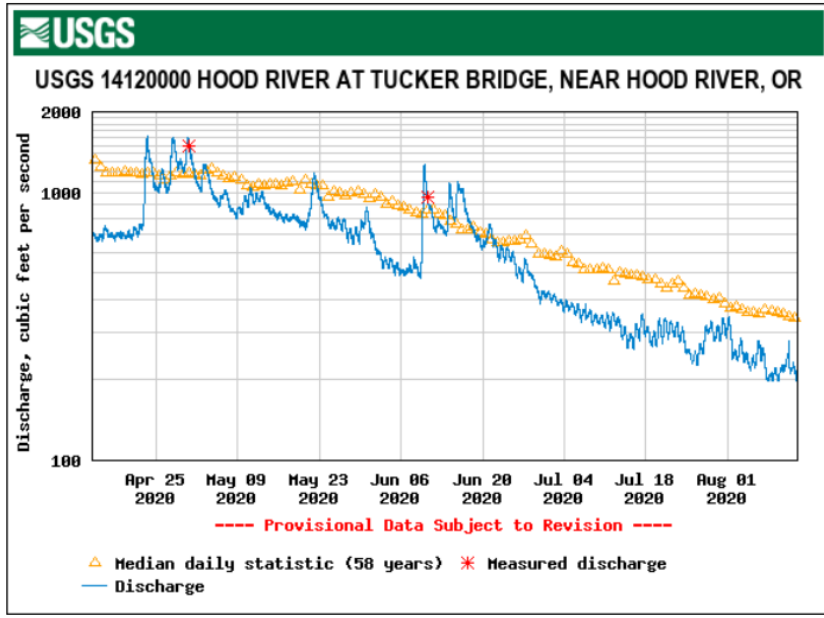





USGS

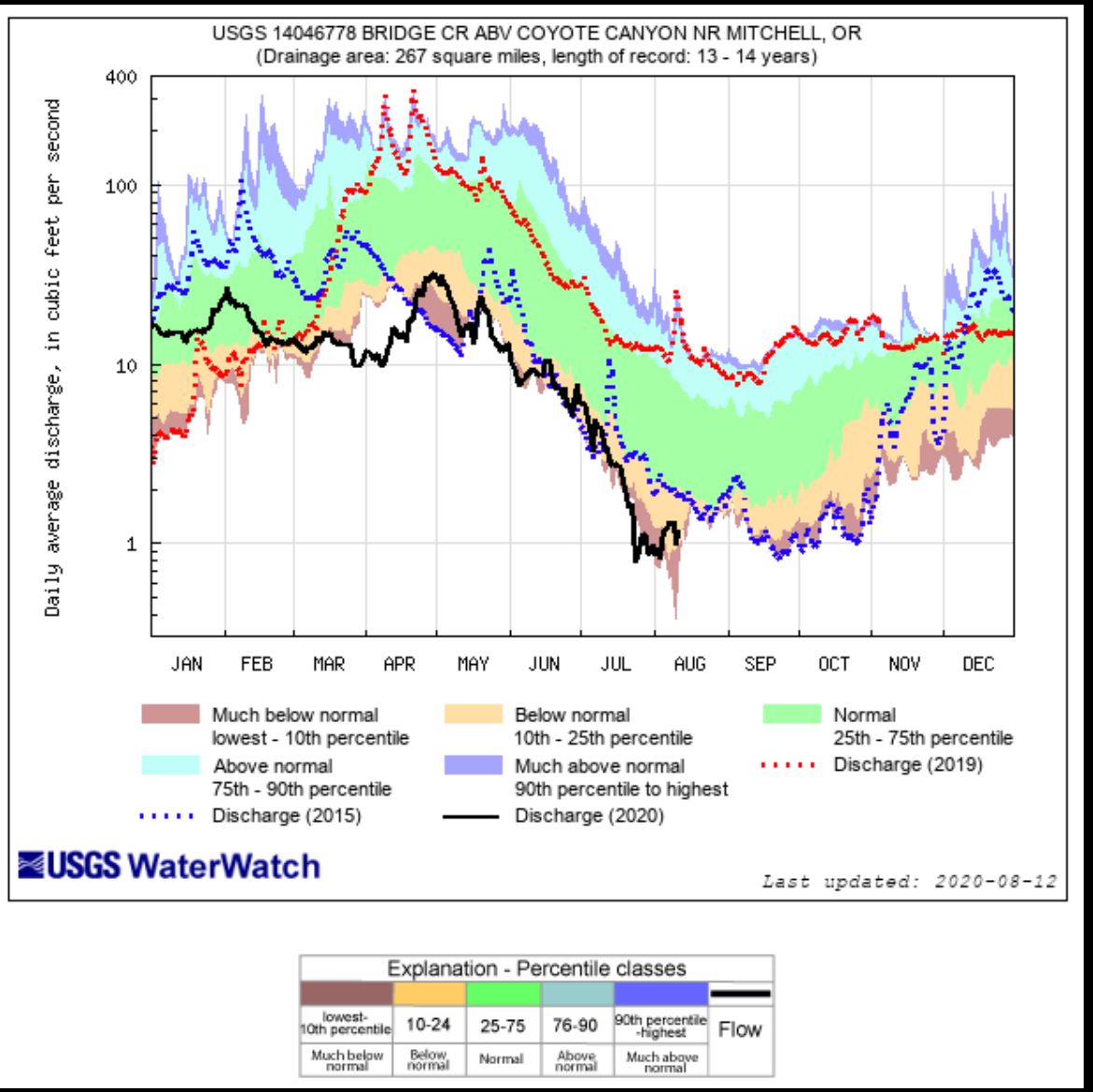
# Hood River Tucker Bridge, 14120000



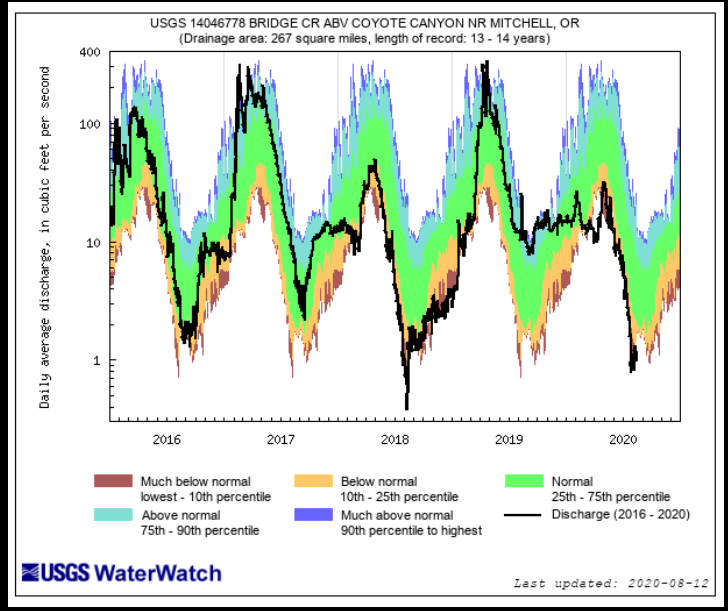

USGS

# 14046778 Bridge Cr abv Coyote Canyon



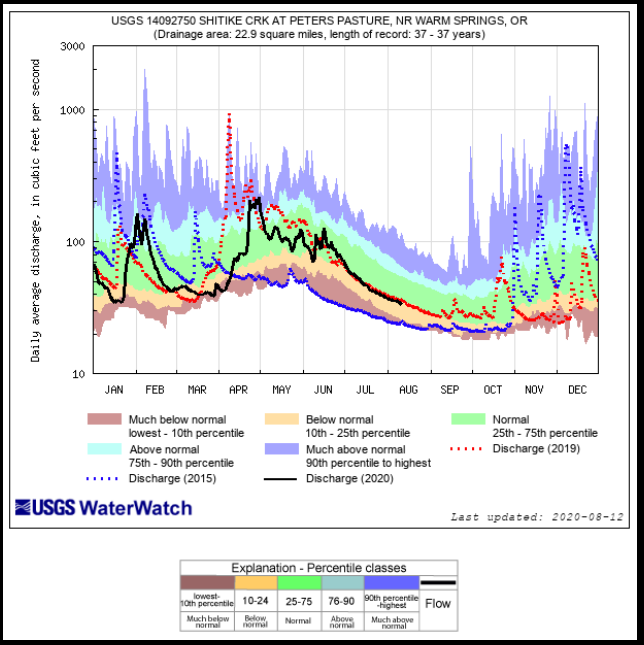

| Explanation - Percentile classes | | | | | |
|---|---|---|---|---|---|
| lowest-10th percentile | 10-24 | 25-75 | 76-90 | 90th percentile -highest | Flow |
| Much below normal | Below normal | Normal | Above normal | Much above normal | |

Wheeler Co., near Jefferson Co.

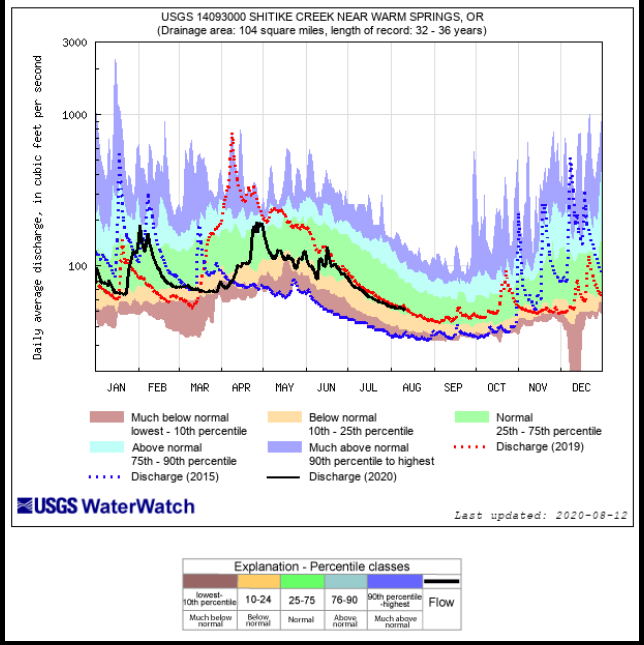



USGS

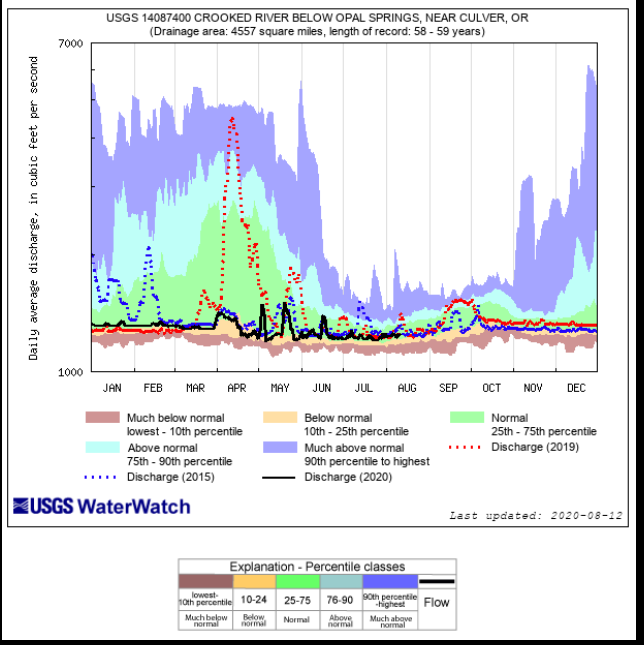
# Jefferson County



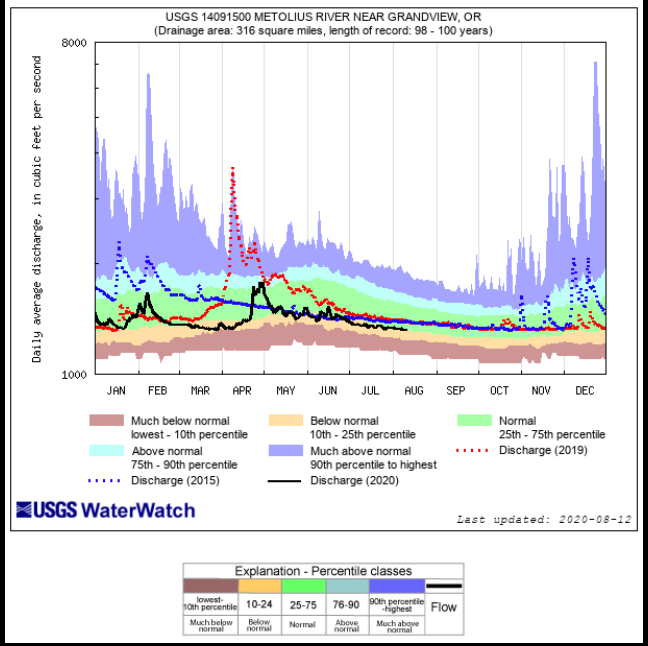

(top left)
14092750 Shitike Cr at Peters Pasture, nr Warm Springs, OR




(top right)
14093000 Shitike Cr, nr Warm Springs, OR

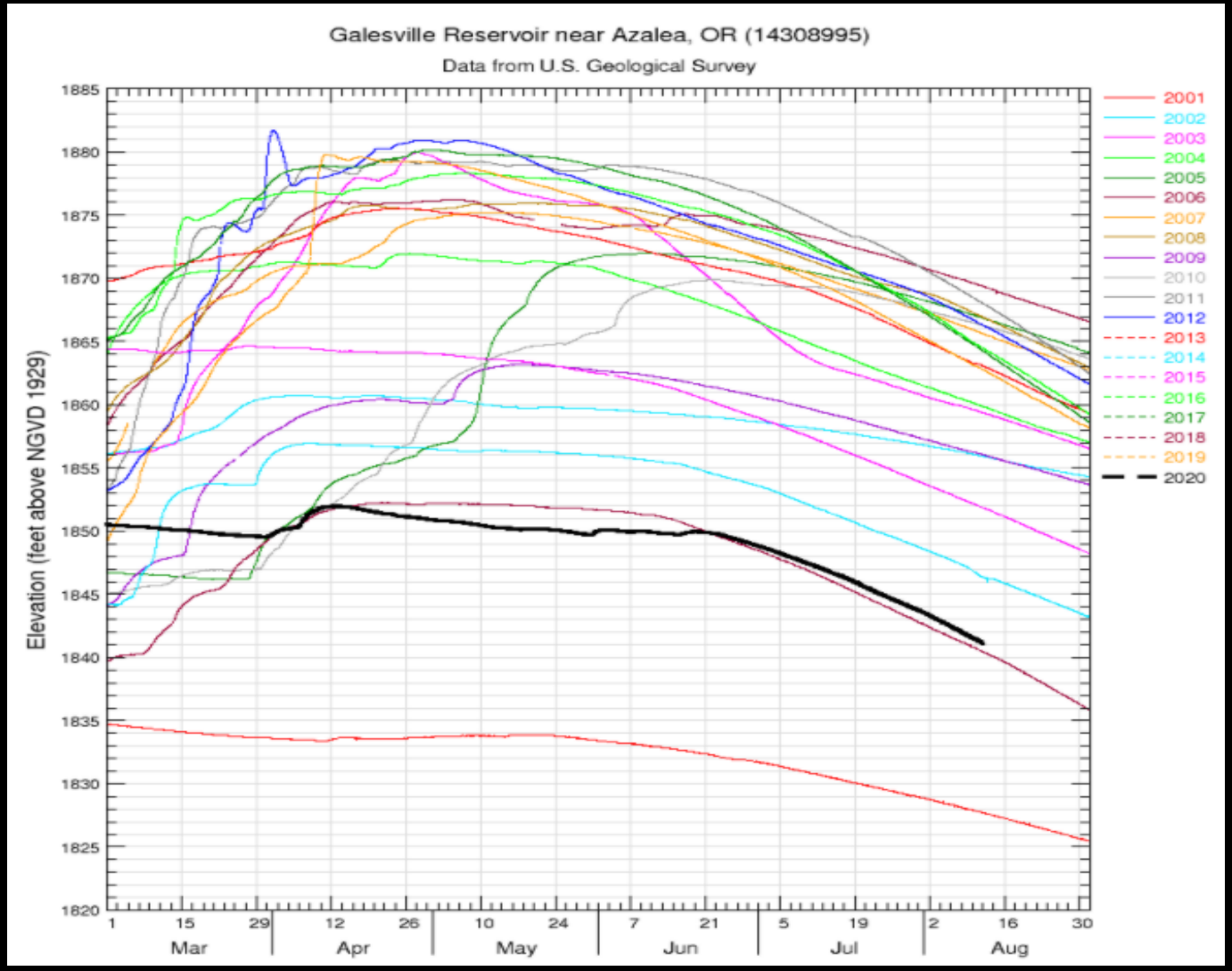



(bottom left)
14087400 Crooked R blw Opal Springs, nr Culver, OR



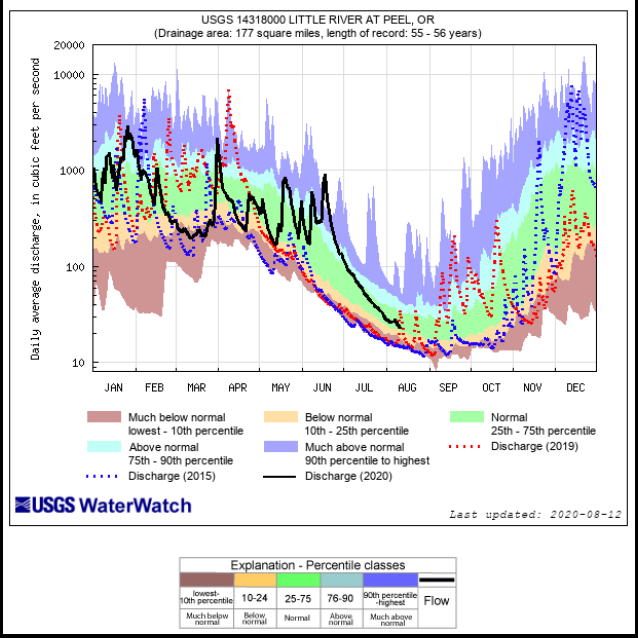

(bottom right)
14091500 Metolious R, nr Grandview, OR

# 14308995
# Galesville Reservoir

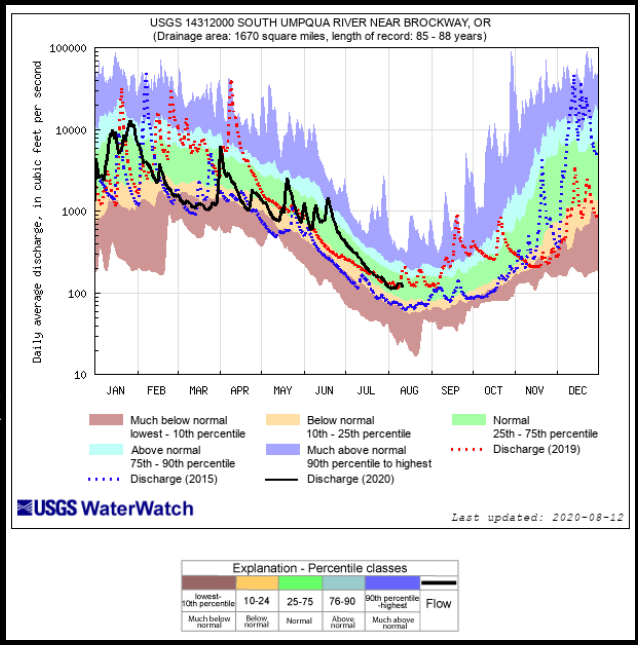



USGS

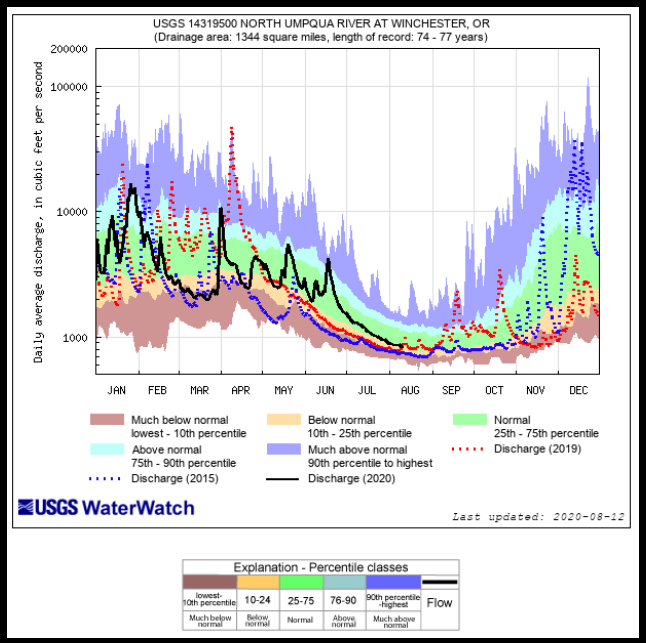
# Douglas County



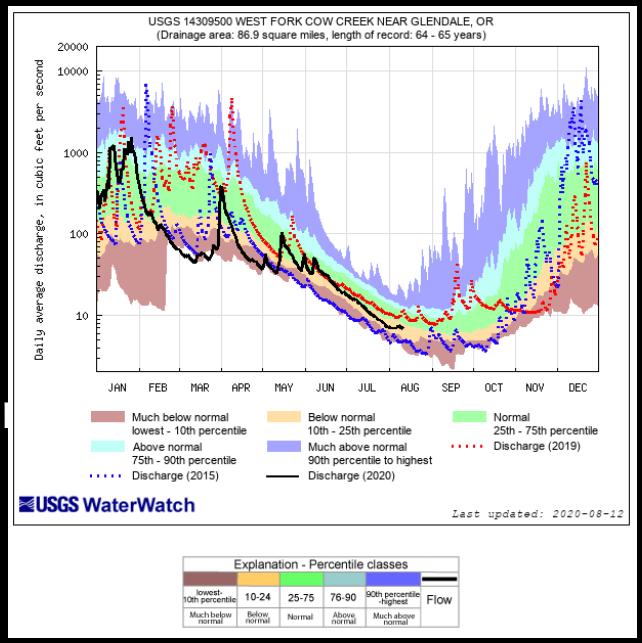

(top left)
14318000 Little R at Peel, OR




(top right)
14312000 South Umpqua R nr Brockway, OR

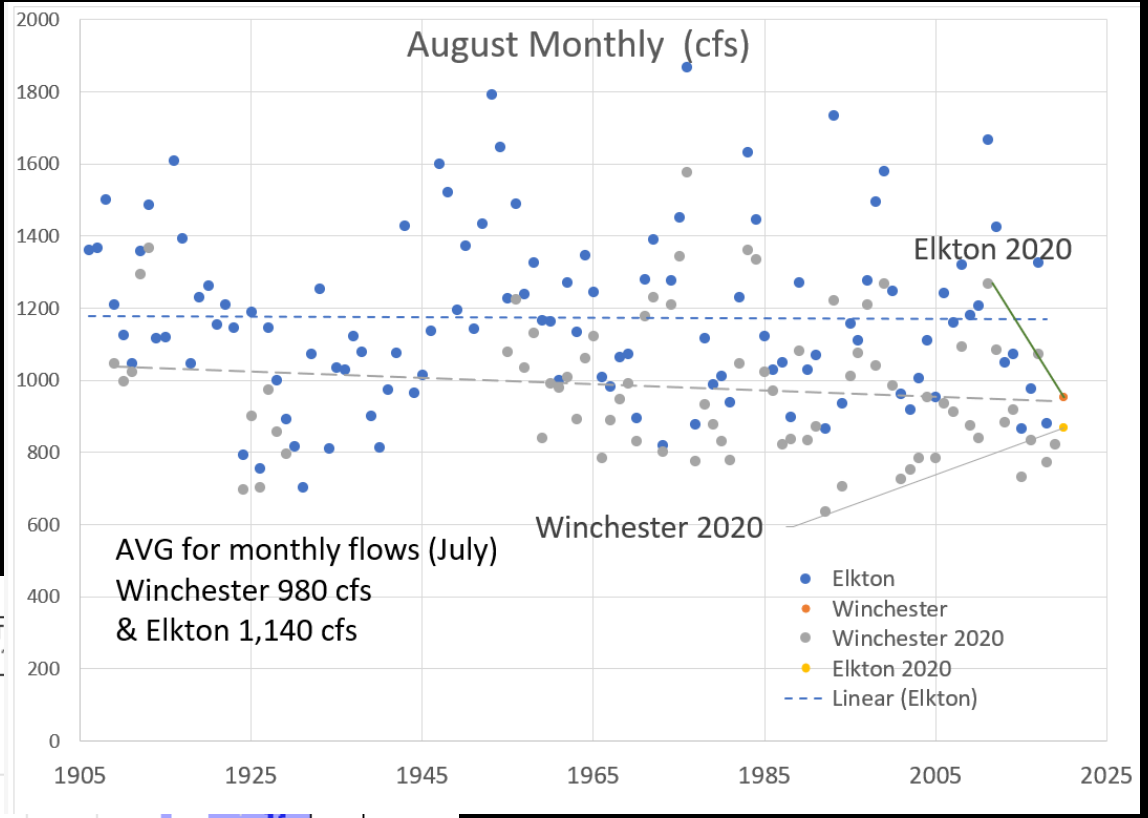


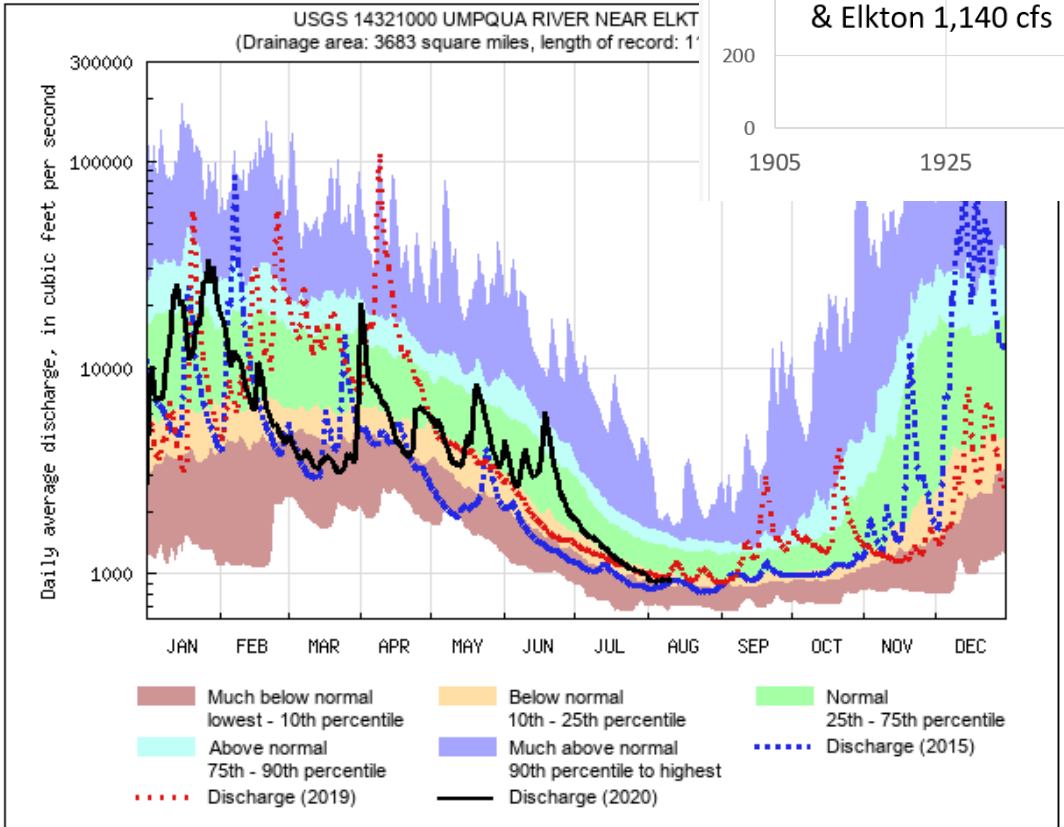

(bottom left)
14319500 North Umpqua R at Winchester, OR



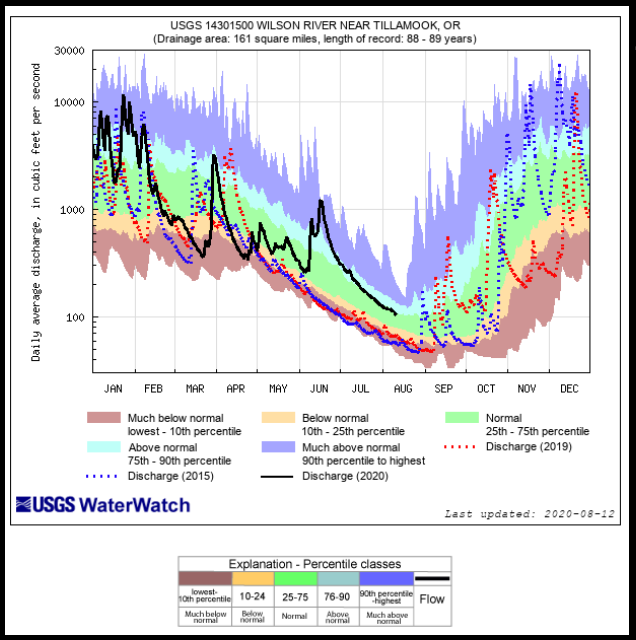

(bottom right)
14309500 West Fork Cow C nr Glendale, OR

# Elkton

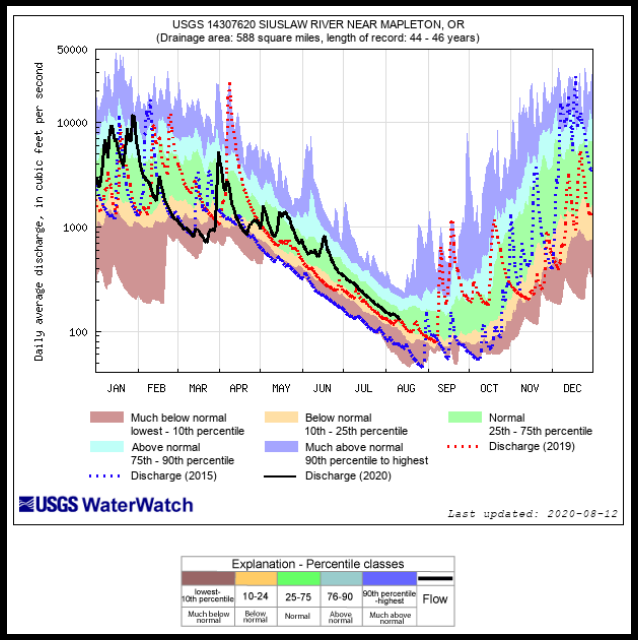

August Monthly (cfs)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
1905
1925
1945
1965
1985
2005
2025
Elkton 2020
Winchester 2020
AVG for monthly flows (July)
Winchester 980 cfs
& Elkton 1,140 cfs
Elkton
Winchester
Winchester 2020
Elkton 2020
Linear (Elkton)


USGS 14321000 UMPQUA RIVER NEAR ELKT
(Drainage area: 3683 square miles, length of record: 1
Daily average discharge, in cubic feet per second
300000
100000
10000
1000
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Much below normal
lowest - 10th percentile
Below normal
10th - 25th percentile
Normal
25th - 75th percentile
Above normal
75th - 90th percentile
Much above normal
90th percentile to highest
Discharge (2015)
Discharge (2019)
Discharge (2020)

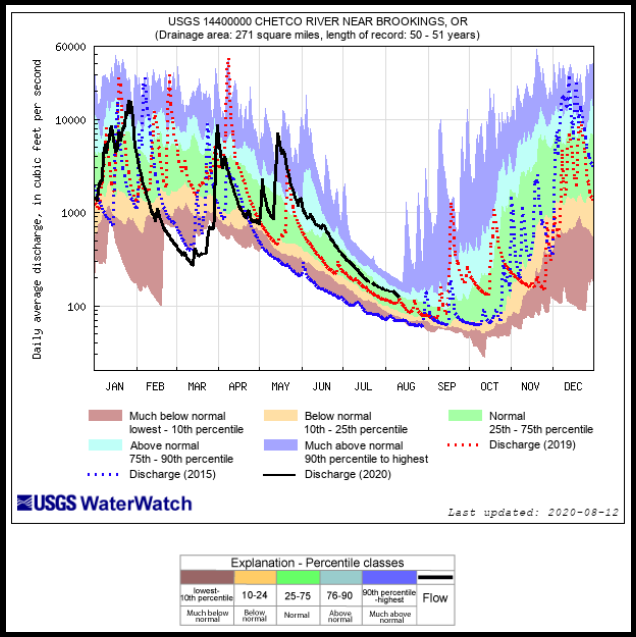
# Coastal Oregon




14301500 Wilson R nr Tillamook, OR



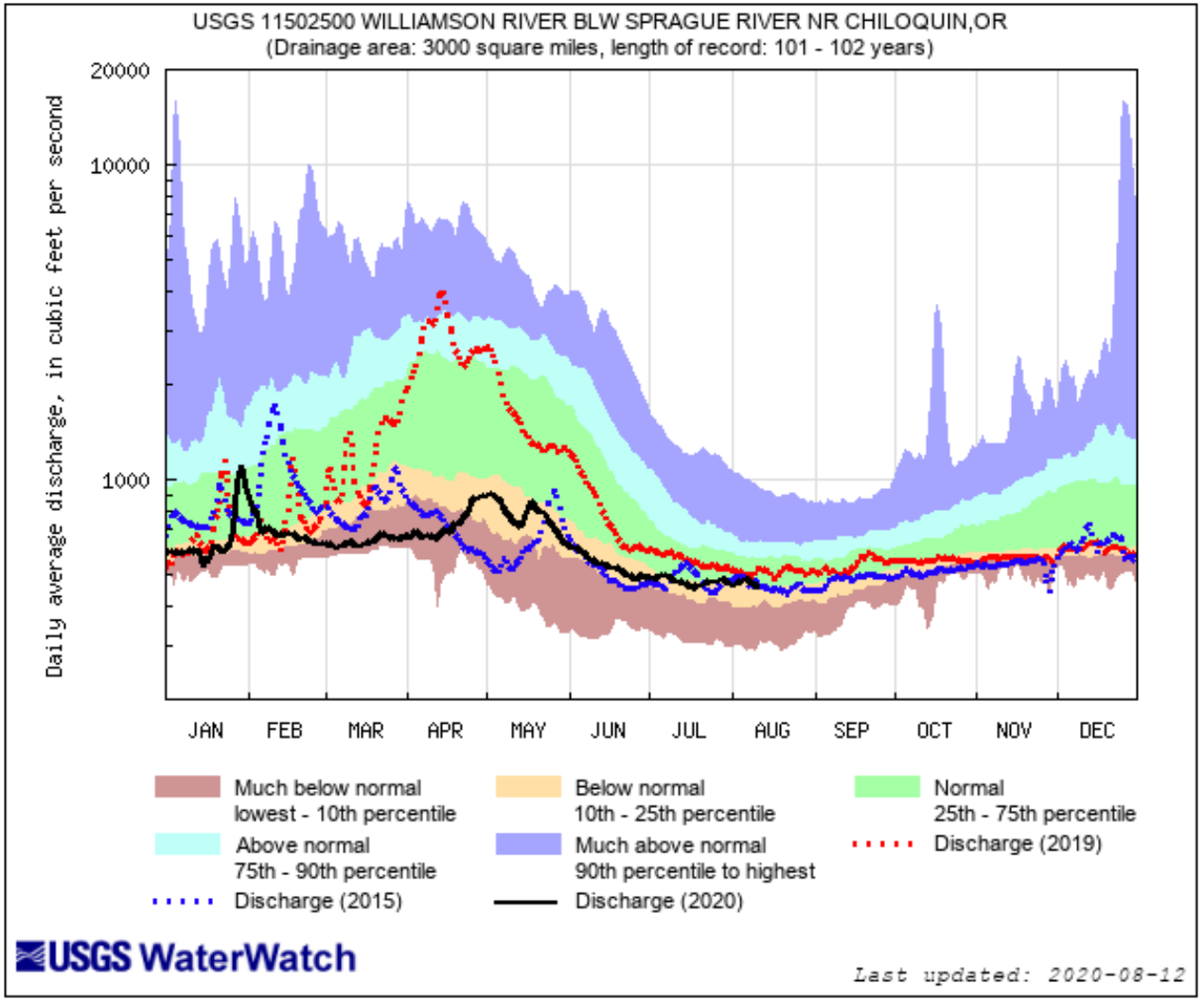

14307620 Siuslaw R nr Mapleton, OR

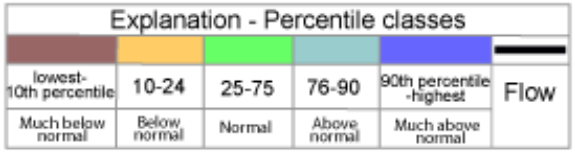



USGS

14400000 Chetco R nr Brookings, OR

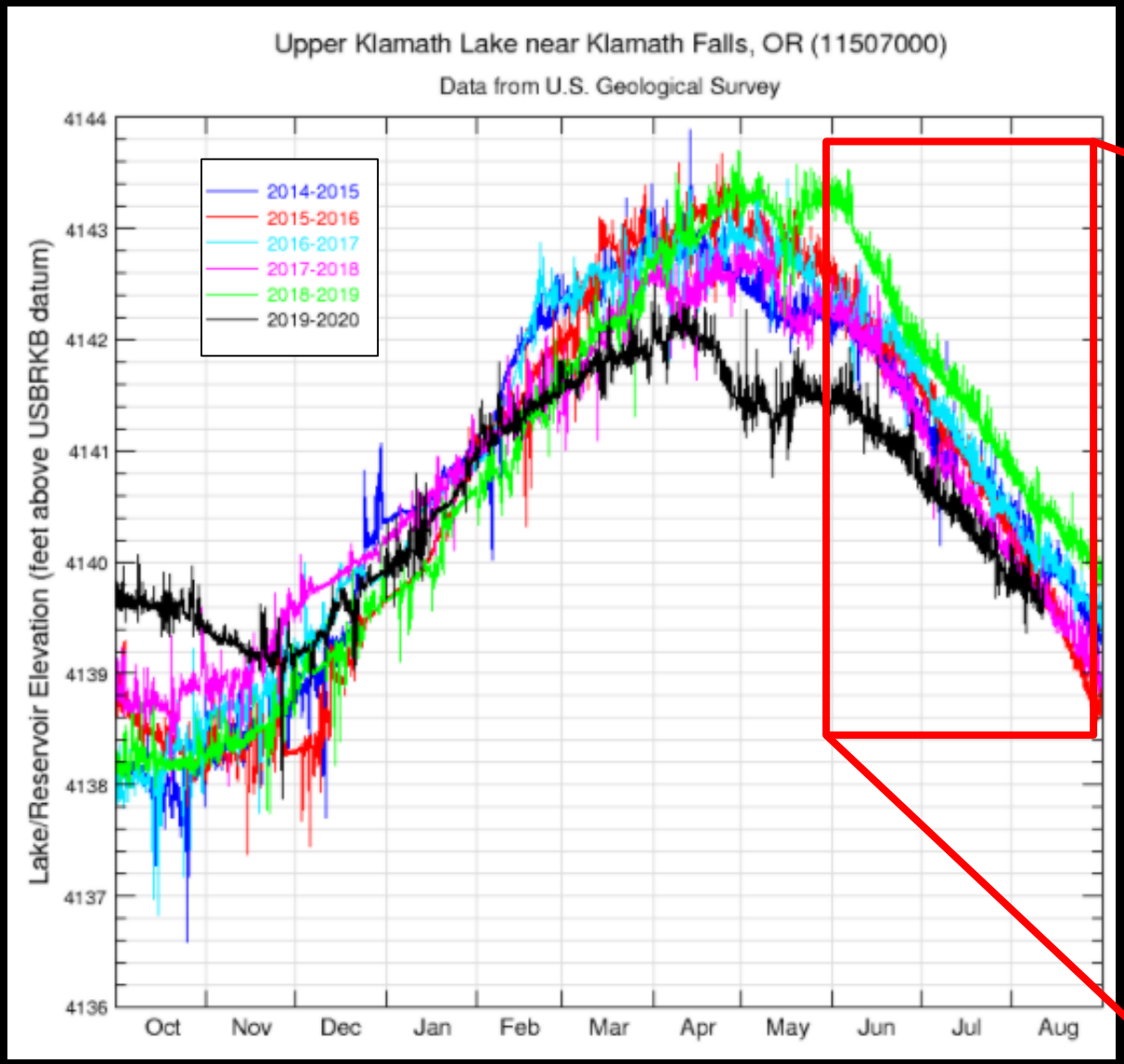
# 11502500 Williamson River blw Sprague

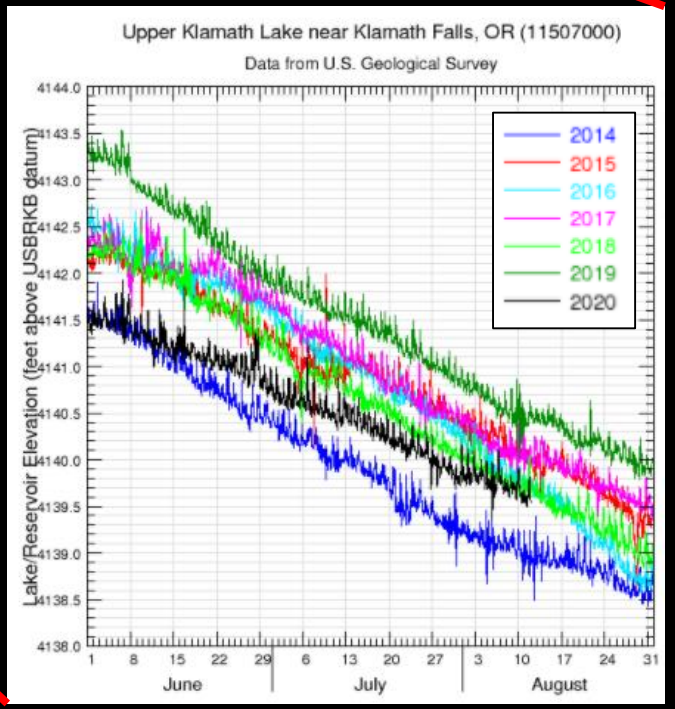



USGS

# 11507000 Upper Klamath Lake

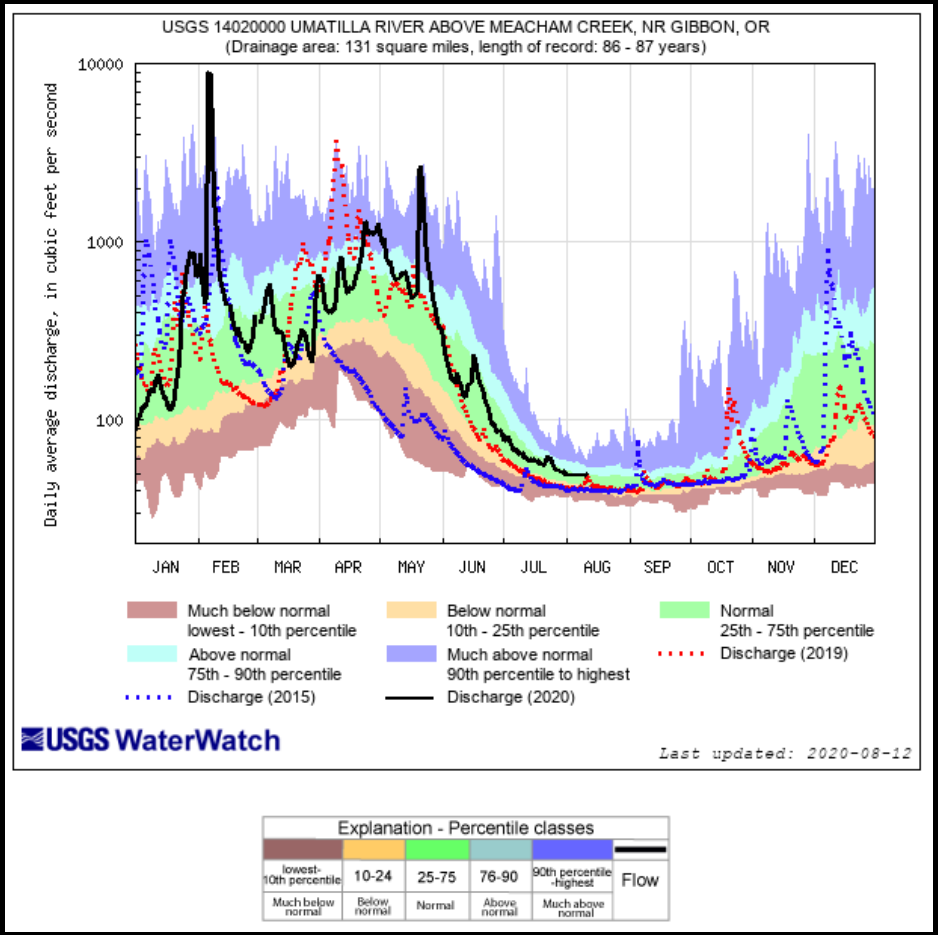



USGS

# Eastern Oregon

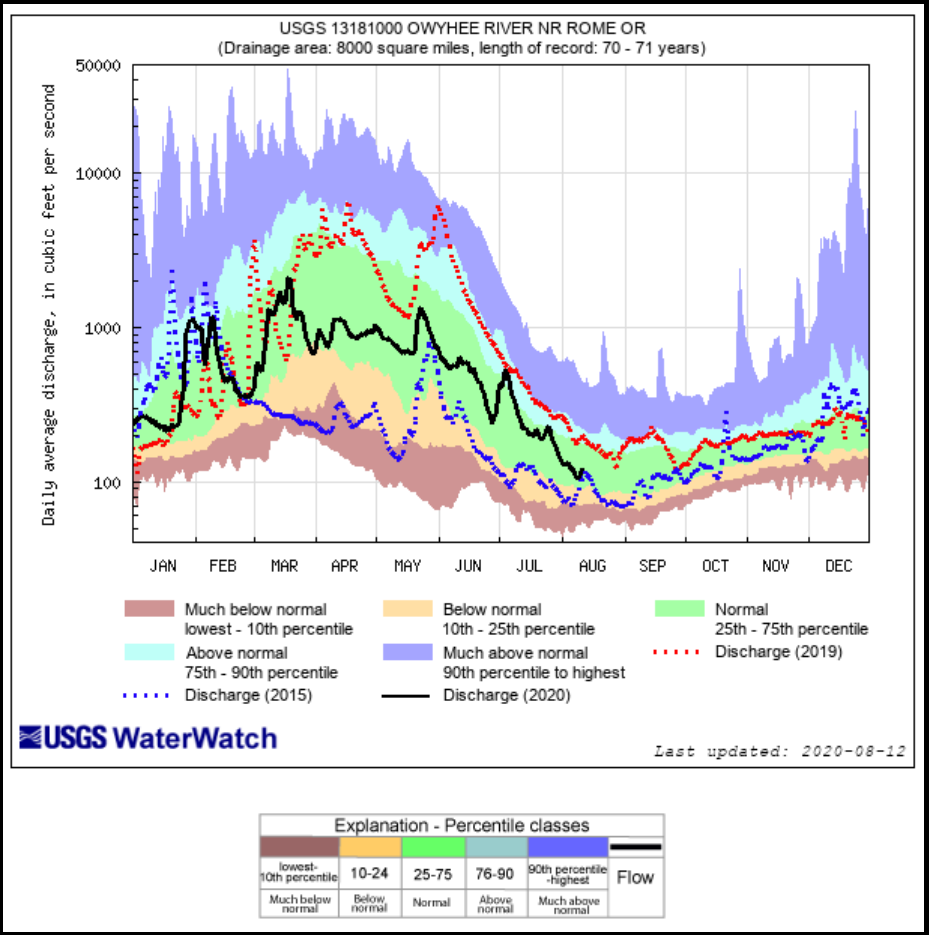
14020000 Umatilla R abv
Meacham Cr, nr Gibbon, OR







13181000 Owyhee R
nr Rome, OR

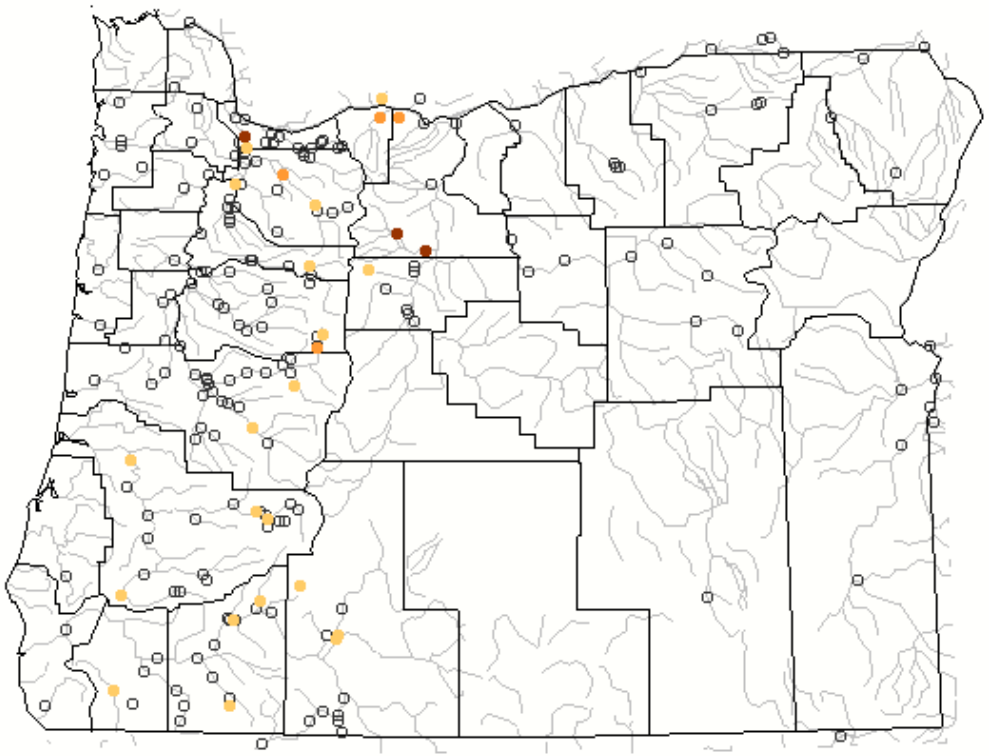






USGS

Tuesday, August 11, 2020



USGS

Search USGS streamgage

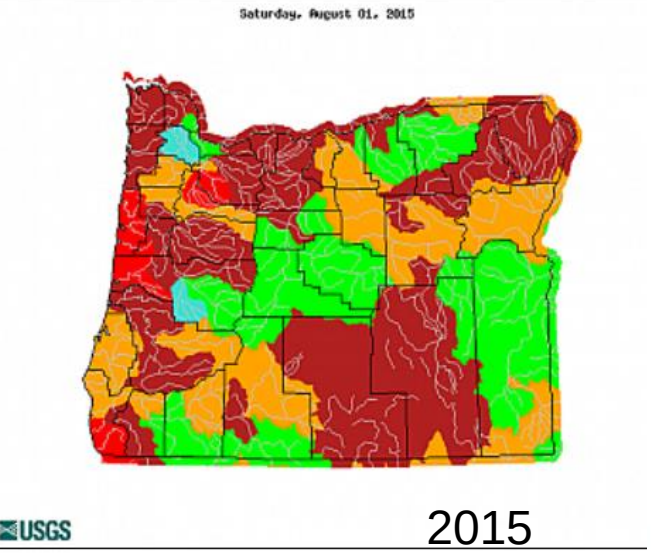
Choose a data retrieval option and select a location on the map

○ List of all stations ◉ Single station ○ Nearest stations

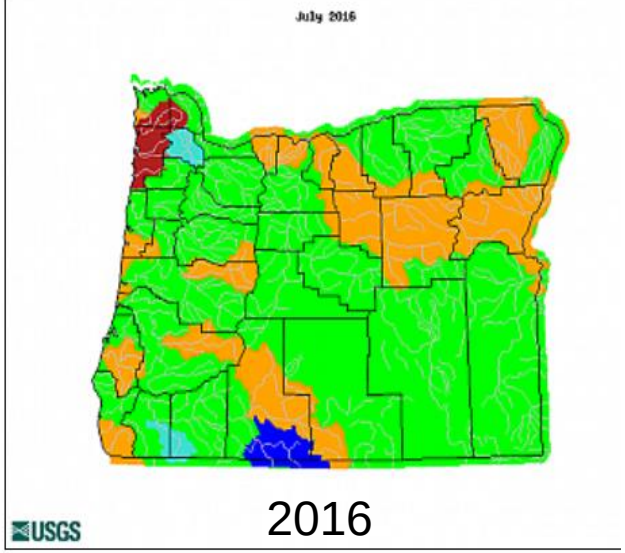
| Explanation - Percentile classes | | | | |
|---|---|---|---|---|
| ● | ● | ● | ● | ○ |
| New low | <=5 | 6-9 | 10-24 | Not ranked |
| Extreme hydrologic drought | Severe hydrologic drought | Moderate hydrologic drought | Below normal | |

# 14-day *below normal* Average Streamflow

**(as compared to Historical Record)**




2015

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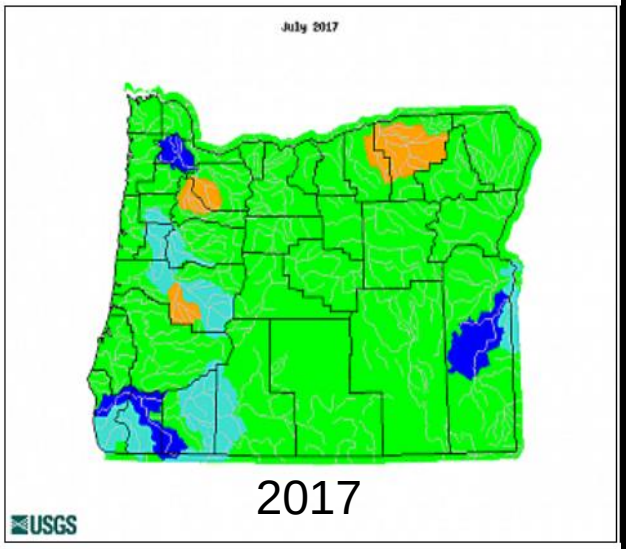


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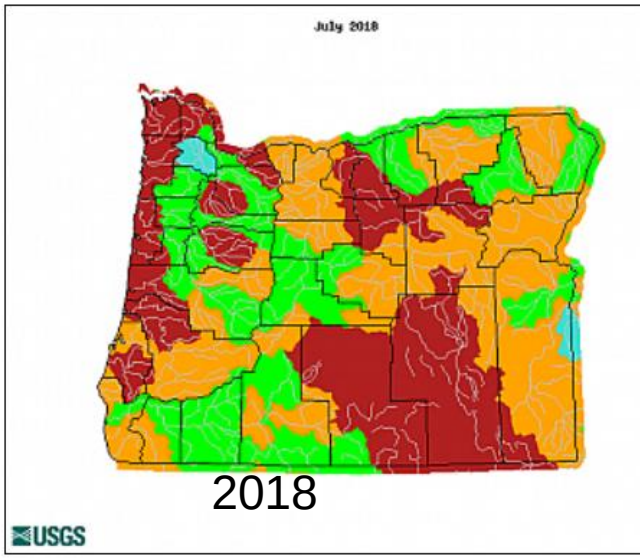
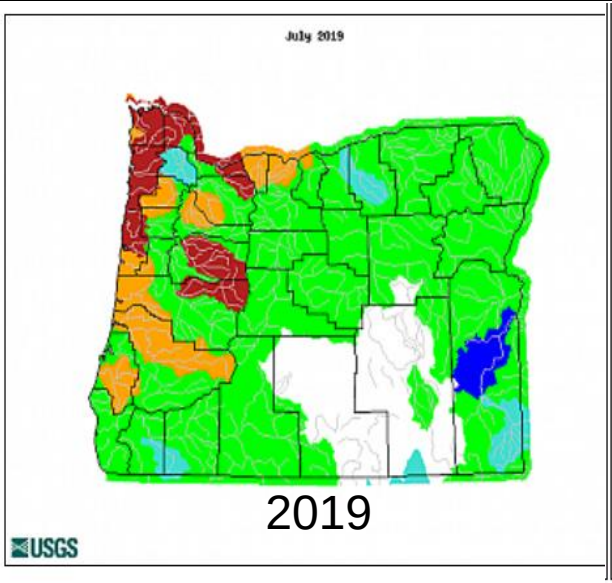
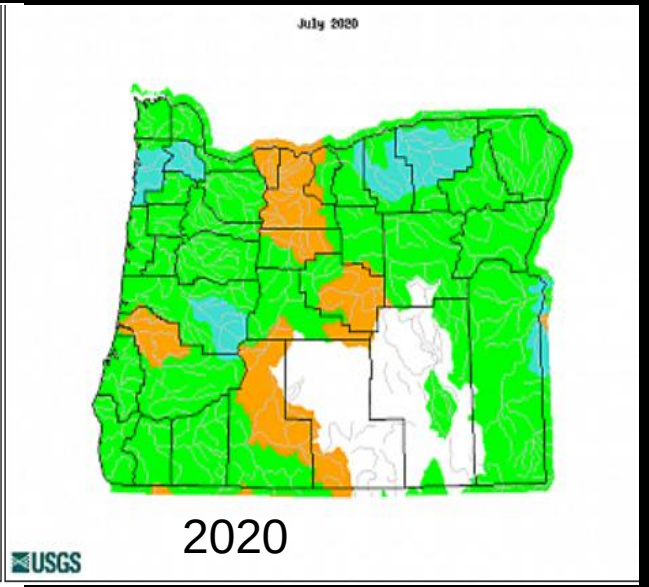



2018




2019




2020

**Comparison of Streamflow Maps (month of July)**

USGS

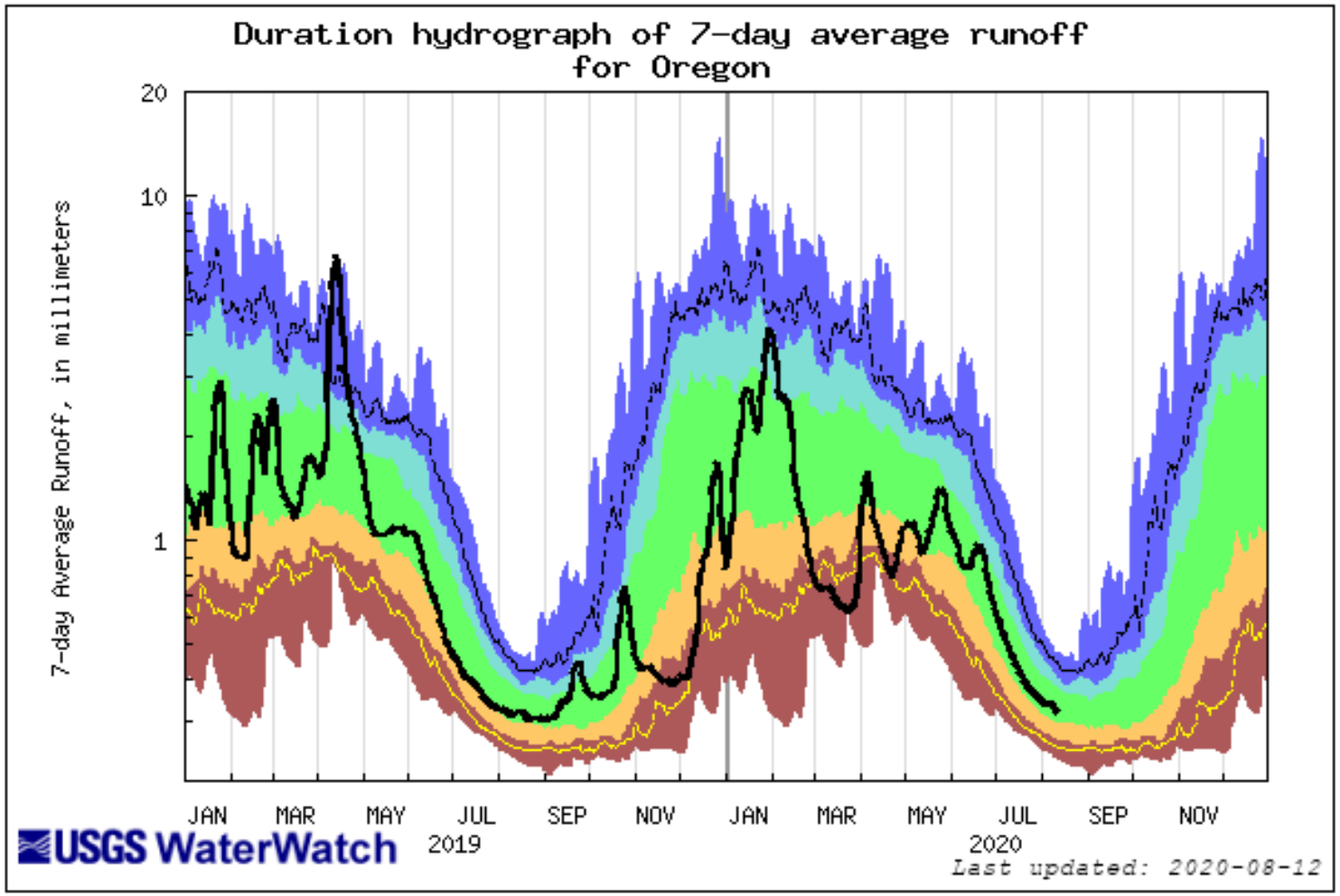
US GEOLOGICAL SURVEY, OREGON WATER SCIENCE CENTER
WATER AVAILABILITY REPORT FOR JULY 2020

| Station | NRCS SWSI Basin | Monthly mean discharge: Cubic feet per second | Monthly mean discharge: Percent of average | Change in discharge from previous month (percent) | Accumulated Runoff For the Period Oct. to July: Percent of average |
|---|---|---|---|---|---|
| Donner Und Blitzen nr Frenchglen | Harney | 60 | 59 | -69 | 68 |
| (*)Deep Creek above Adel | Lake County | 11 | 32 | -90 | 61 |
| (*)Chewaucan River near Paisley | Lake County | 23 | 35 | -67 | 52 |
| Williamson River near Chiloquin | Klamath | 476 | 87 | -11 | 56 |
| Owyhee River near Rome | Owyhee | 266 | 110 | -45 | 49 |
| (*)NF Malheur River near Beulah | Malheur | 55 | 82 | -52 | 70 |
| Grande Ronde R at Troy | Grande Ronde Powder/Burnt | 2,540 | 135 | -63 | 108 |
| Umatilla River nr Gibbon | Umatilla Lower John Day | 62 | 105 | -59 | 141 |
| John Day River at Service Crk | Upper John Day | 414 | 69 | -81 | 80 |
| (*)Little Deschutes River nr LaPine | Upper Deschutes | 138 | 81 | -5 | 60 |
| Hood River nr Hood River | Lower Deschutes Mt.Hood | 320 | 65 | -51 | 73 |
| Willamette River at Salem | Willamette | 7,930 | 105 | -41 | 67 |
| Wilson River near Tillamook | North Coast | 201 | 122 | -63 | 93 |
| Umpqua River near Elkton | Rogue/Umpqua | 1,310 | 81 | -60 | 63 |
| Rogue River near Agness | Rogue/Umpqua | 2,070 | 84 | -39 | 54 |
| SF Coquille River at Powers | South Coast | 58 | 95 | -60 | 55 |
| Chetco River near Brookings | South Coast | 221 | 105 | -69 | 65 |

All data should be considered provisional and subject to revision.
Percent of average computed using 30-year base period, water years 1981-2010.
(*) provided by Oregon Water Resources Department

8/3/2020

USGS




| Explanation - Percentile classes | | | | | | | |
|---|---|---|---|---|---|---|---|
| lowest-10th percentile | 5 | 10-24 | 25-75 | 76-90 | 95 | 90th percentile -highest | Runoff |
| Much below Normal | | Below normal | Normal | Above normal | Much above normal | | |

USGS

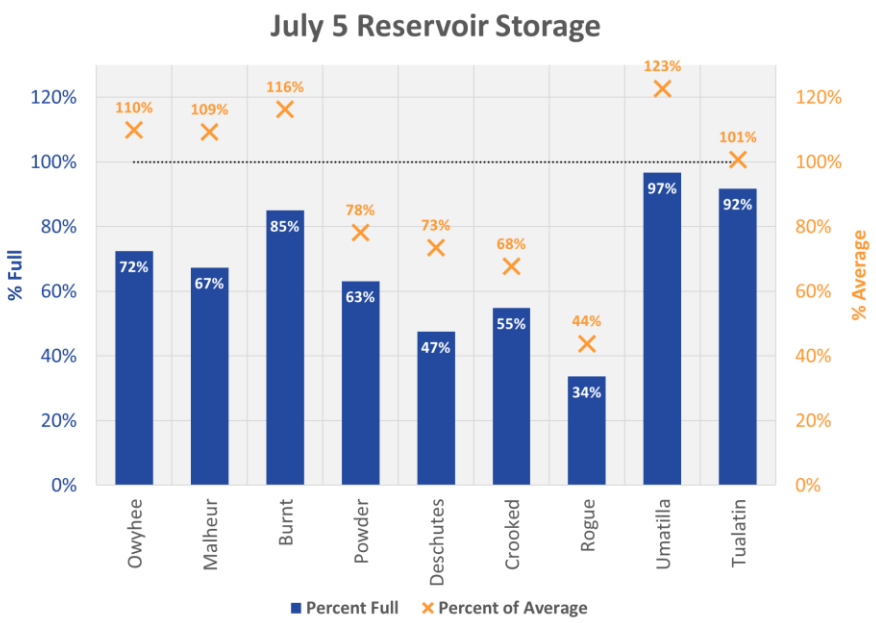
BUREAU OF RECLAMATION

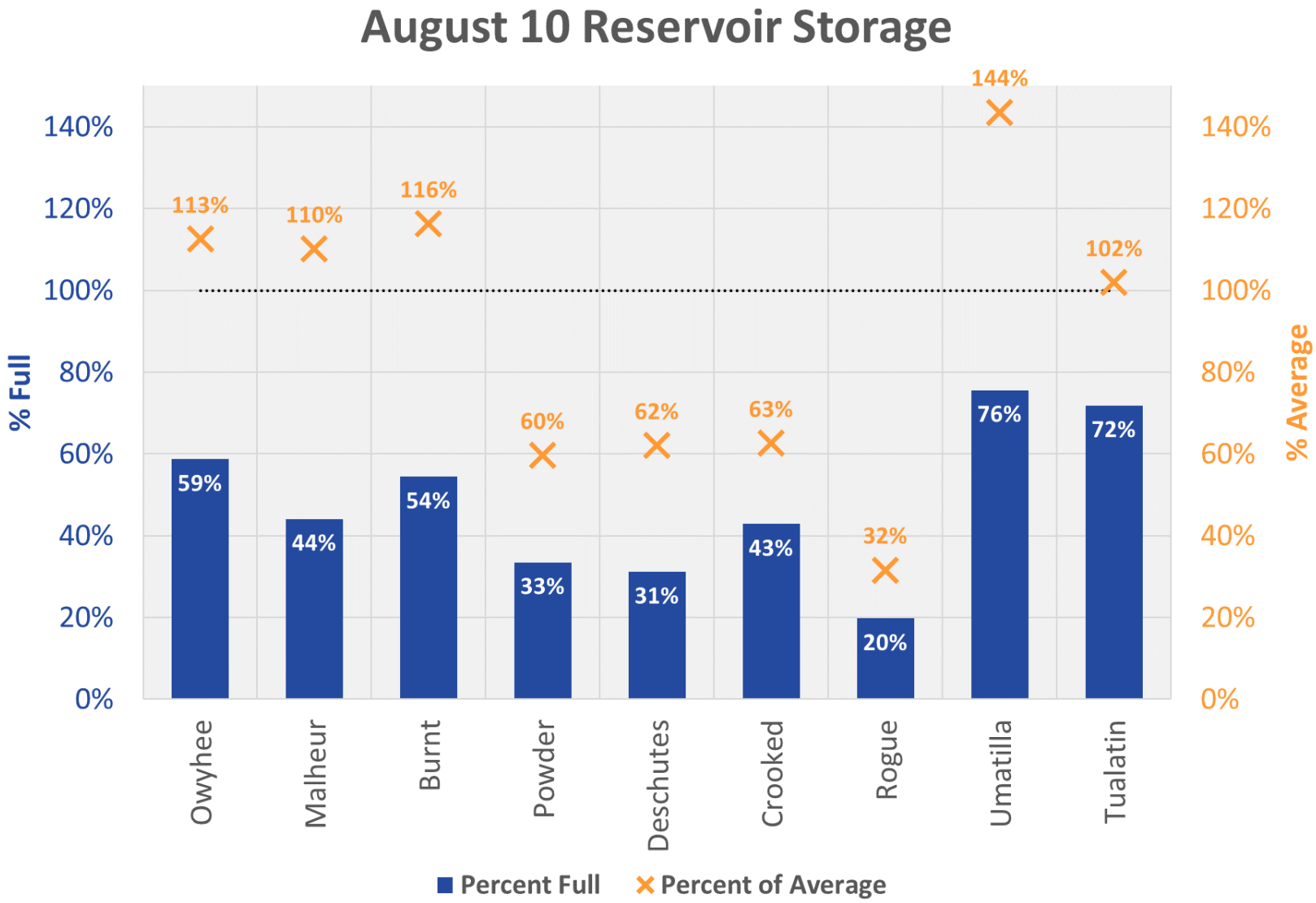
# Reclamation Storage Update

## Oregon Water Supply Availability Committee Meeting

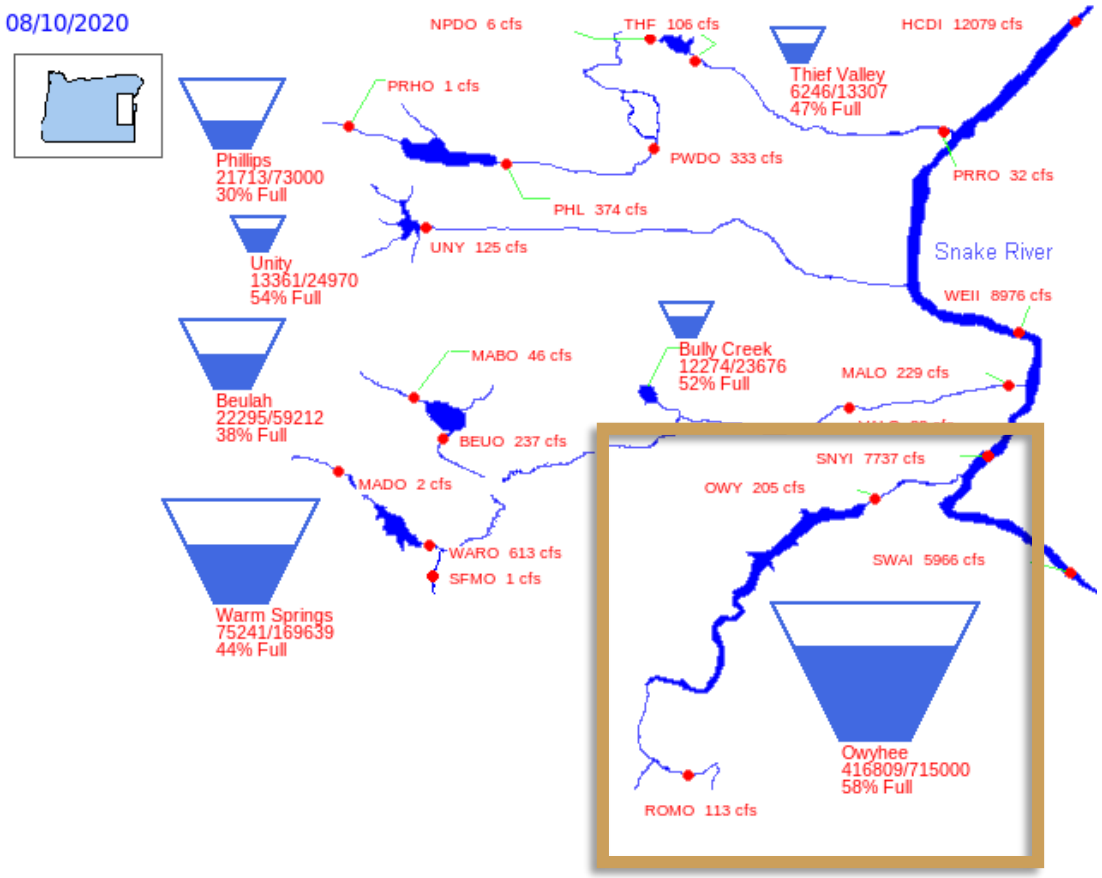
August 13, 2020

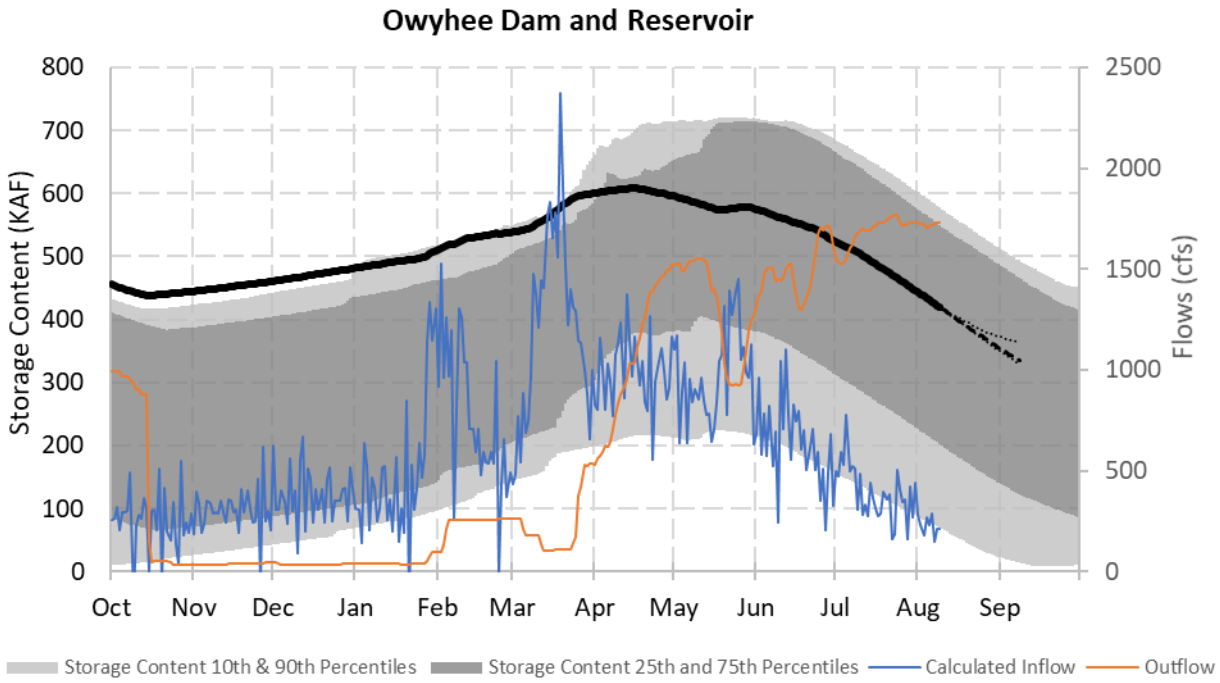
# Reservoir Storage Conditions



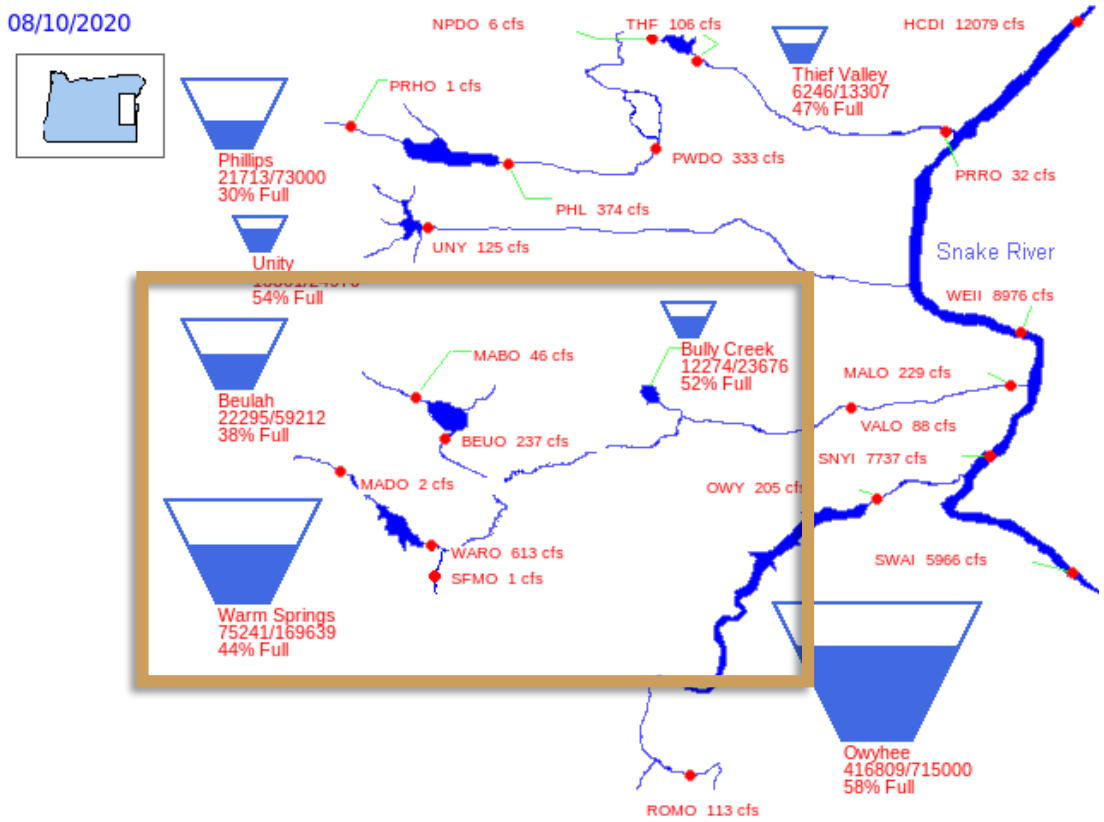
# Owyhee River Basin

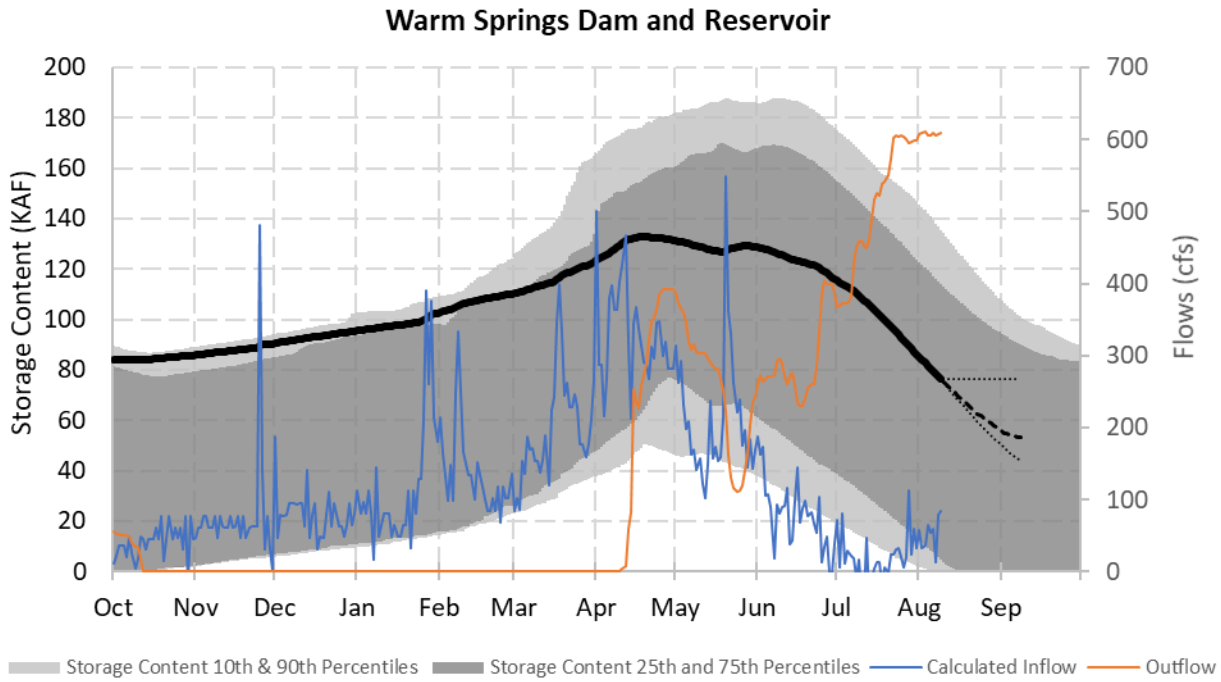


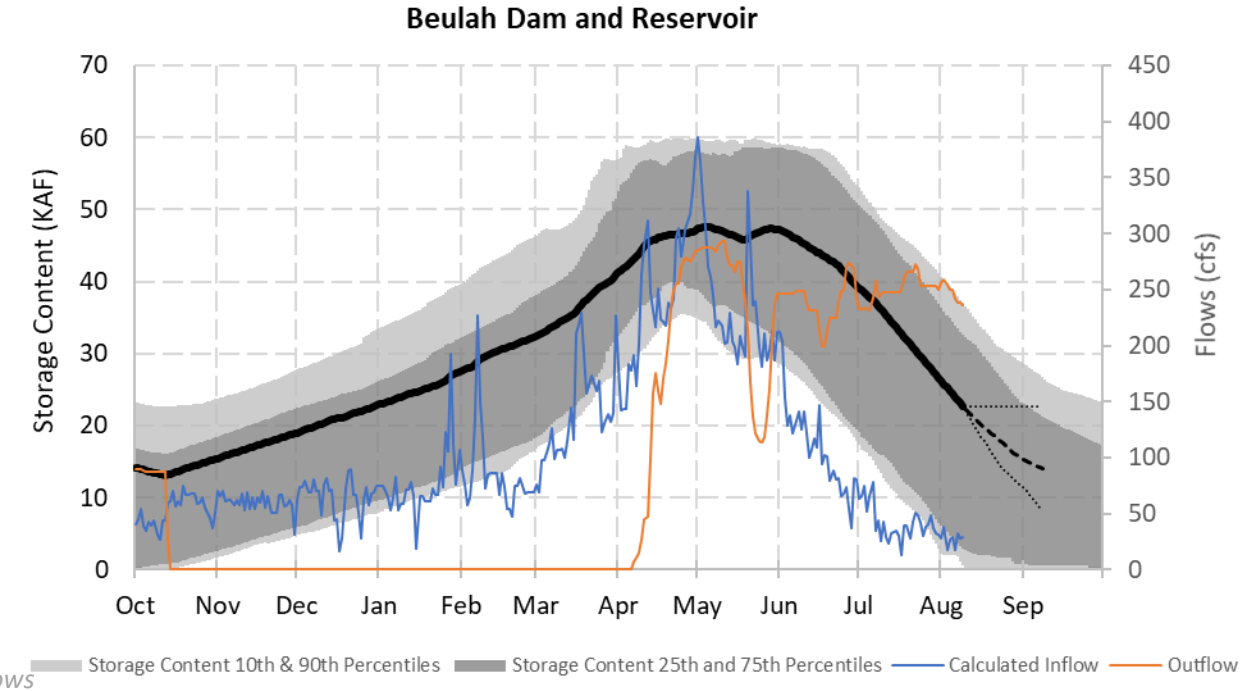




*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

# Malheur River Basin

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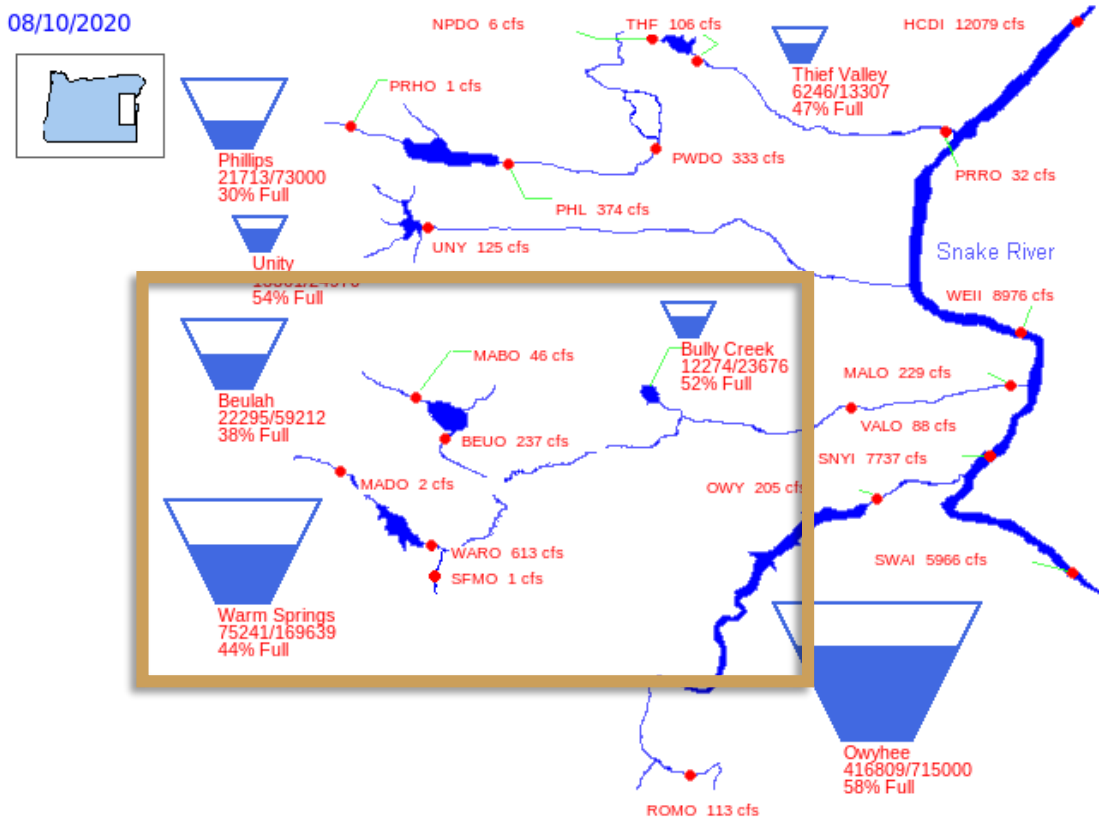
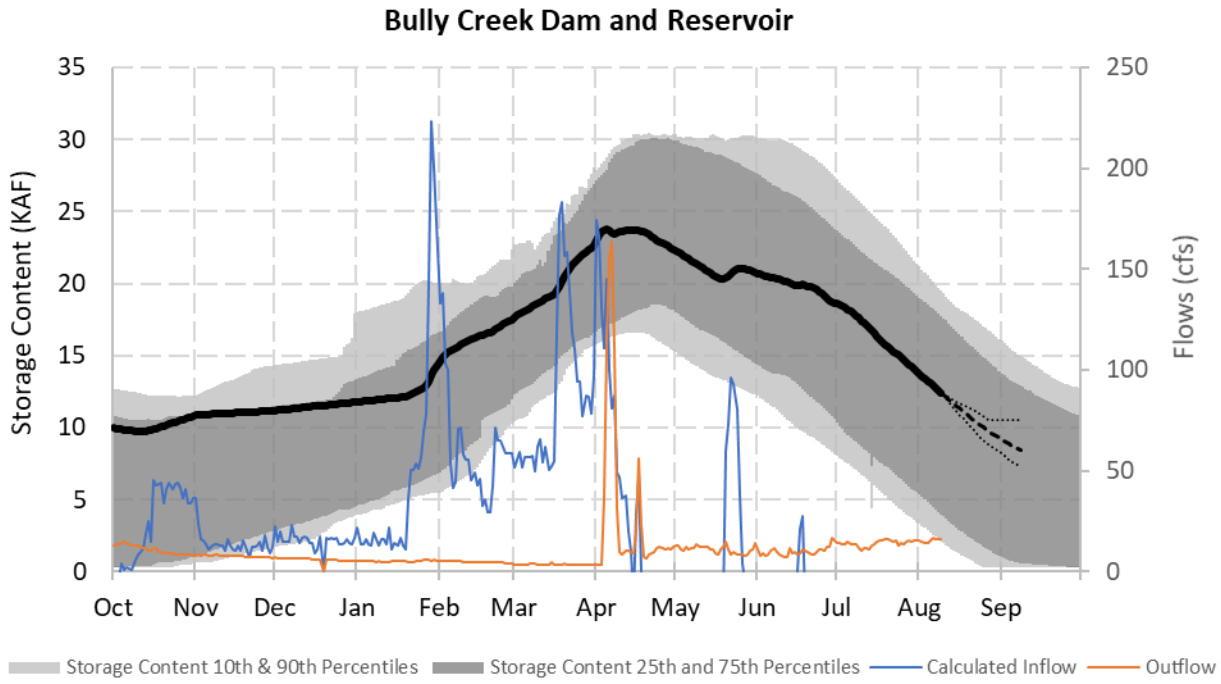
# Malheur River Basin

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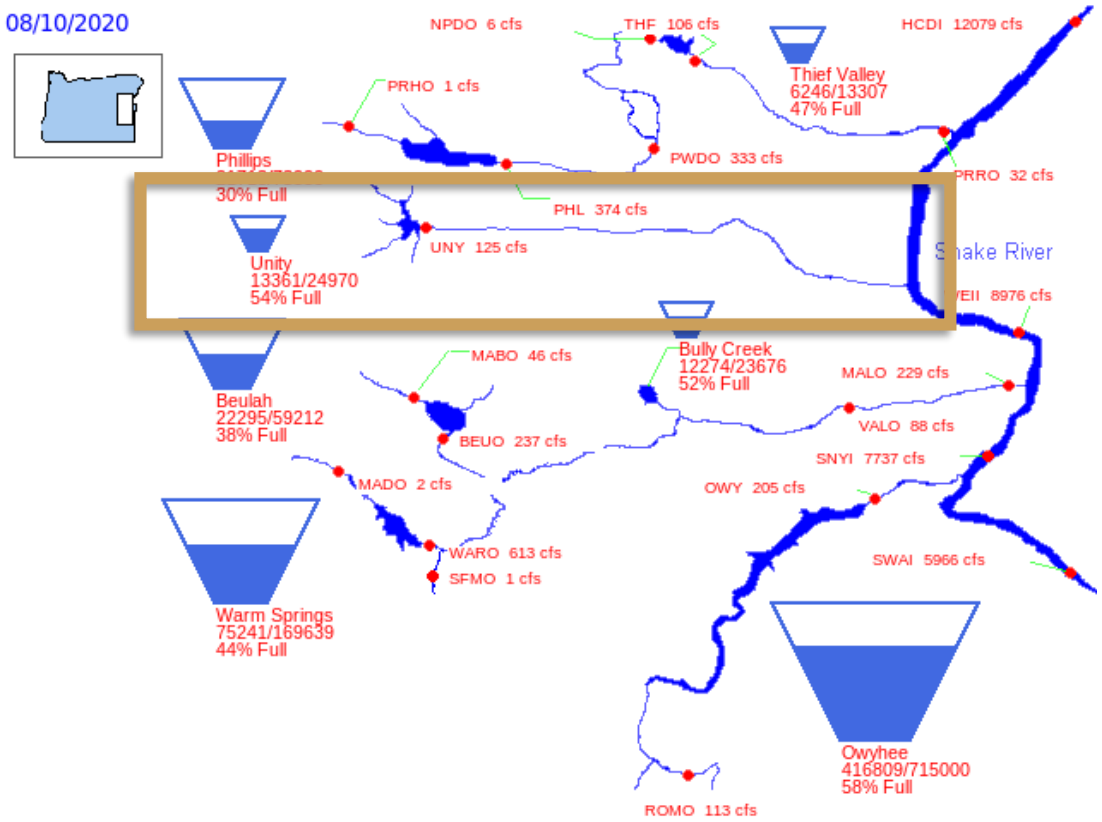
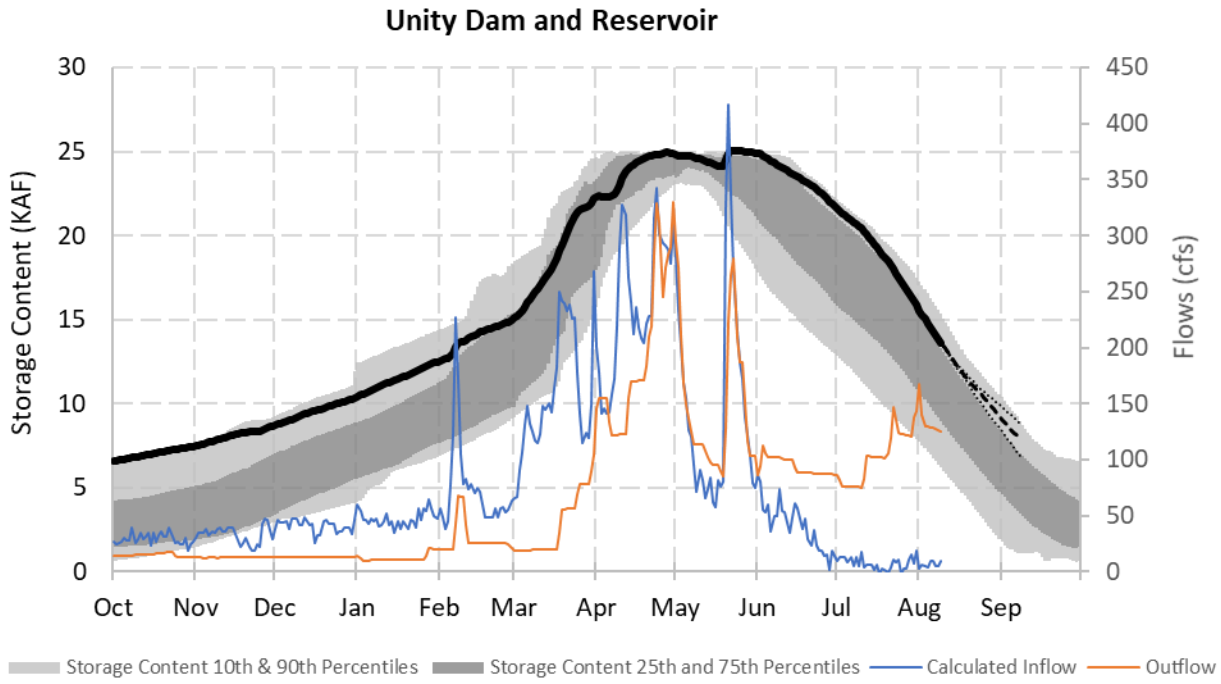
# Burnt River Basin

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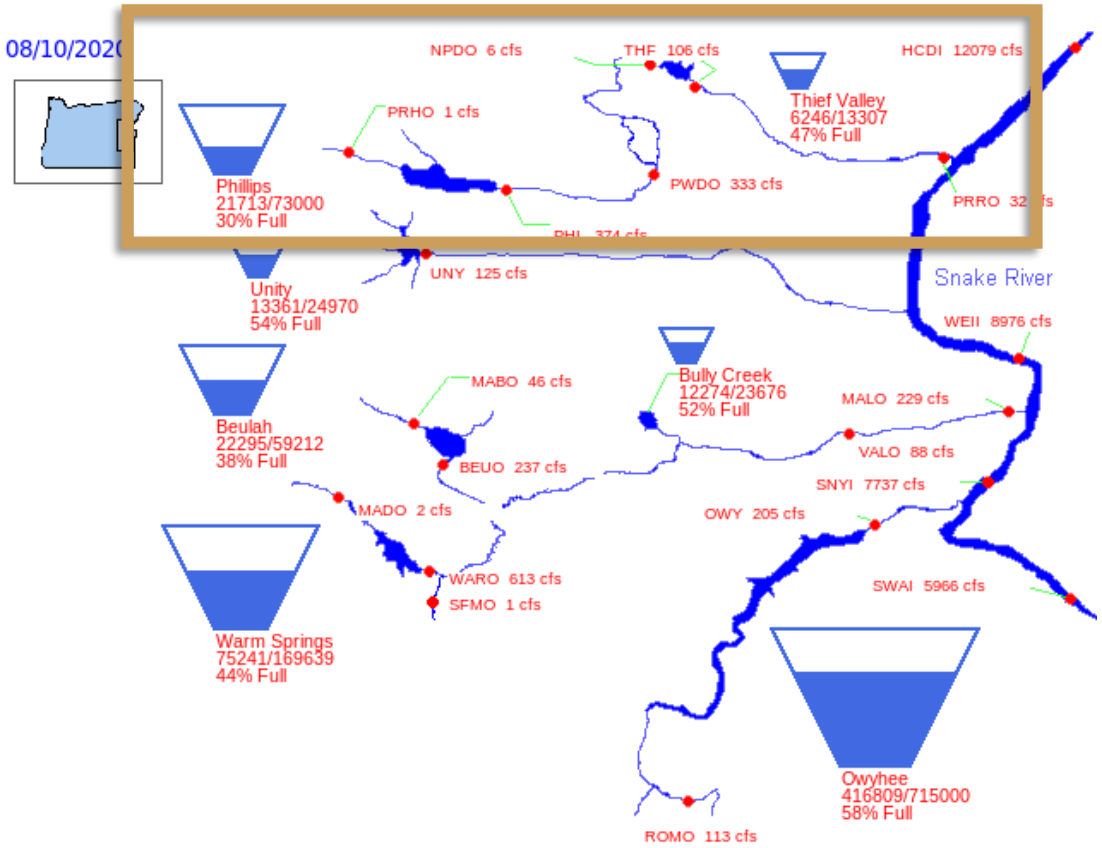
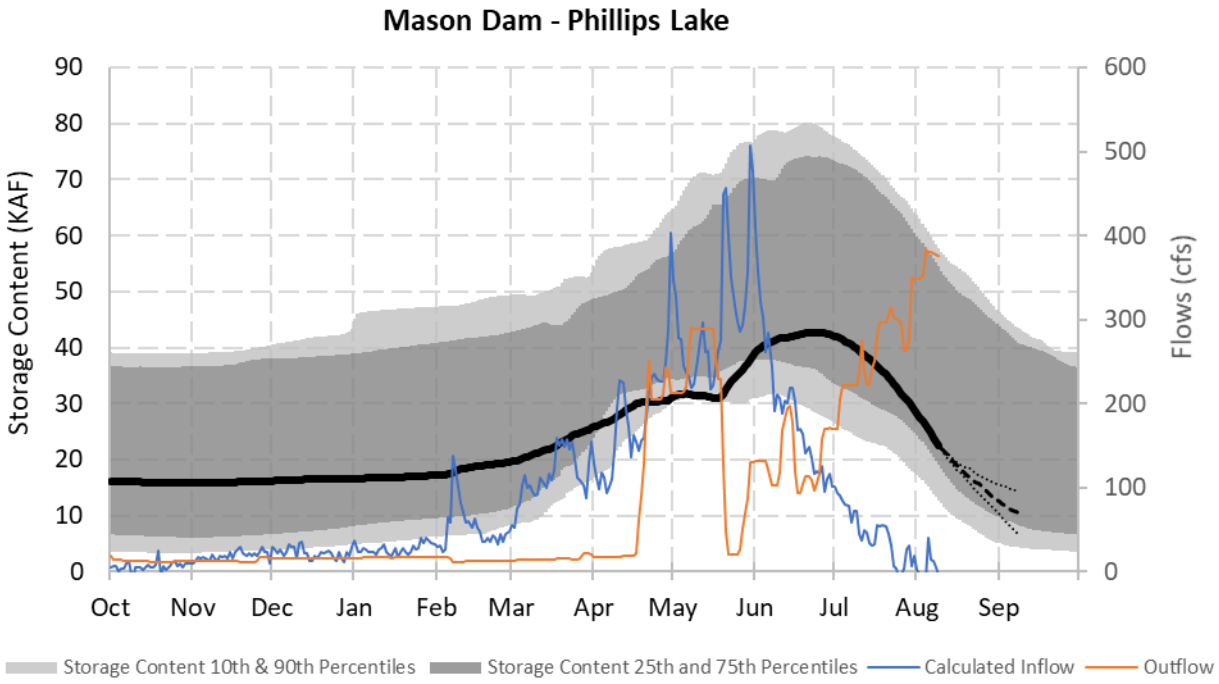
# Powder River Basin

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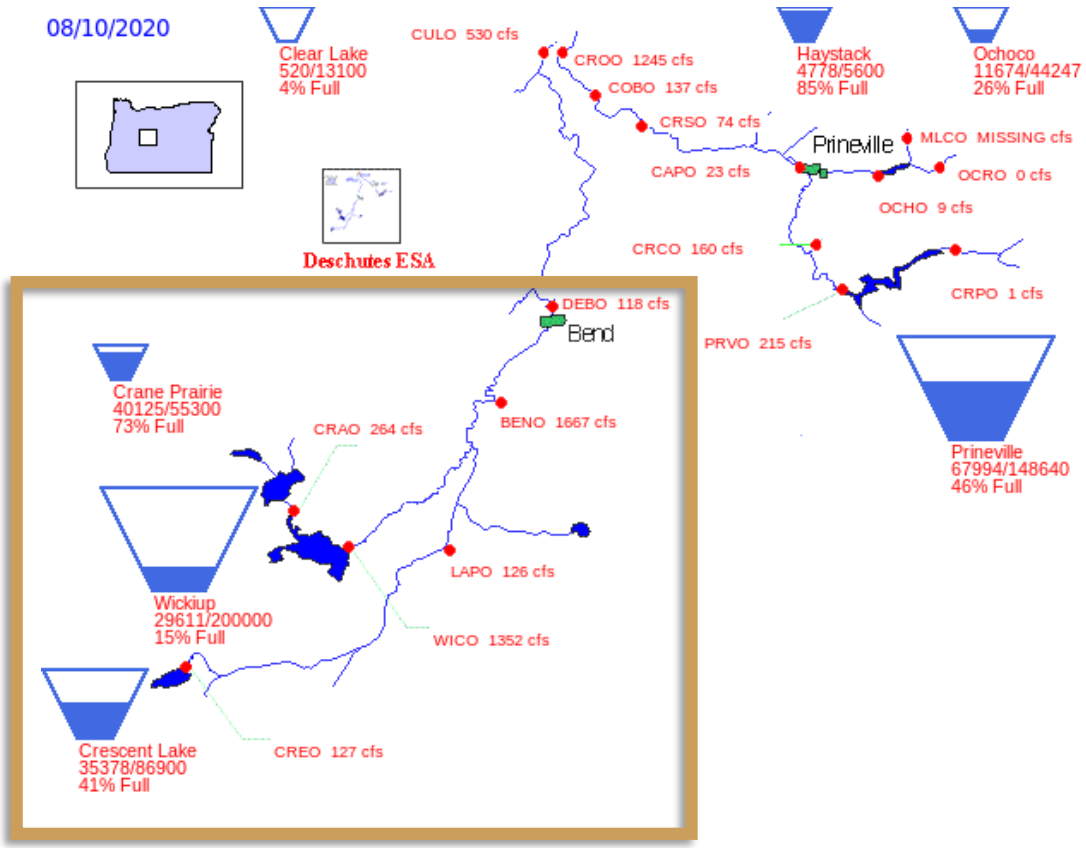
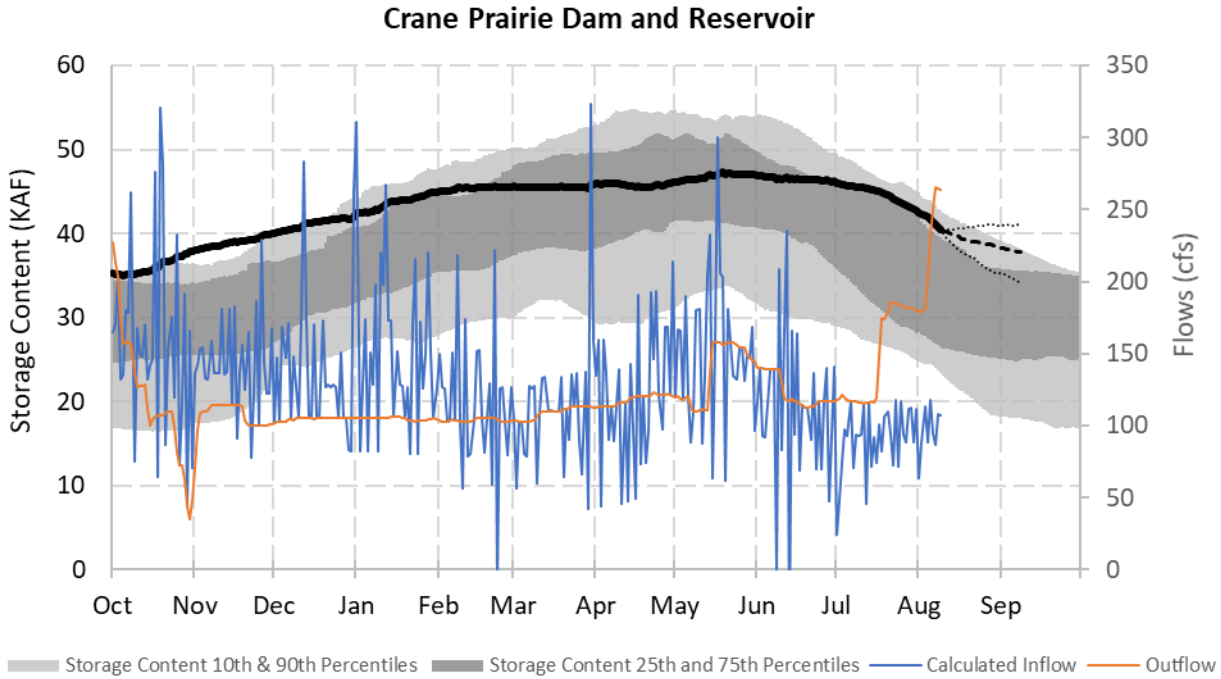
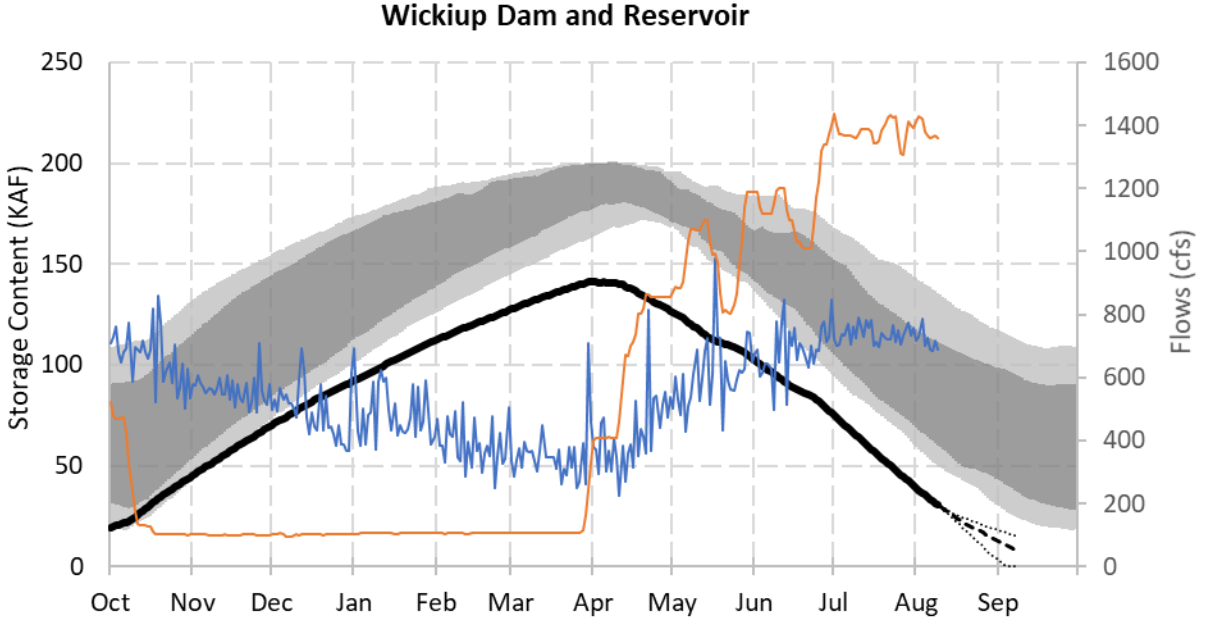
# Deschutes River Basin

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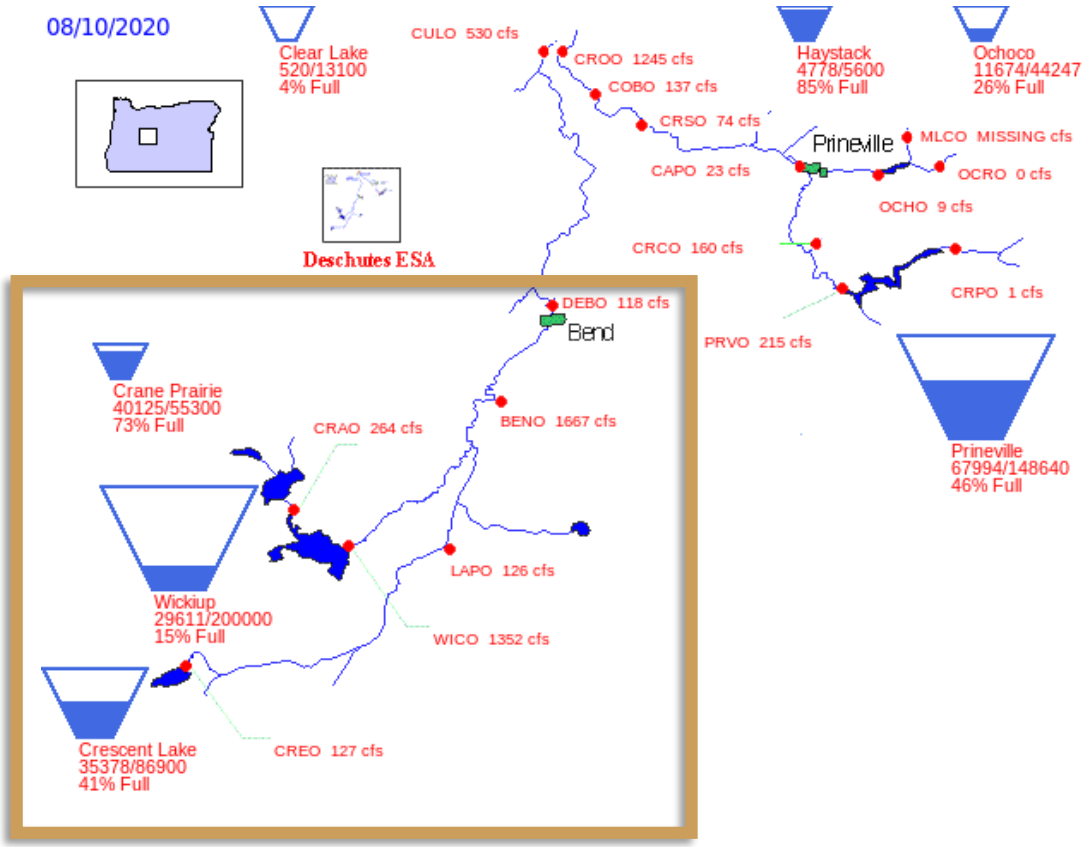
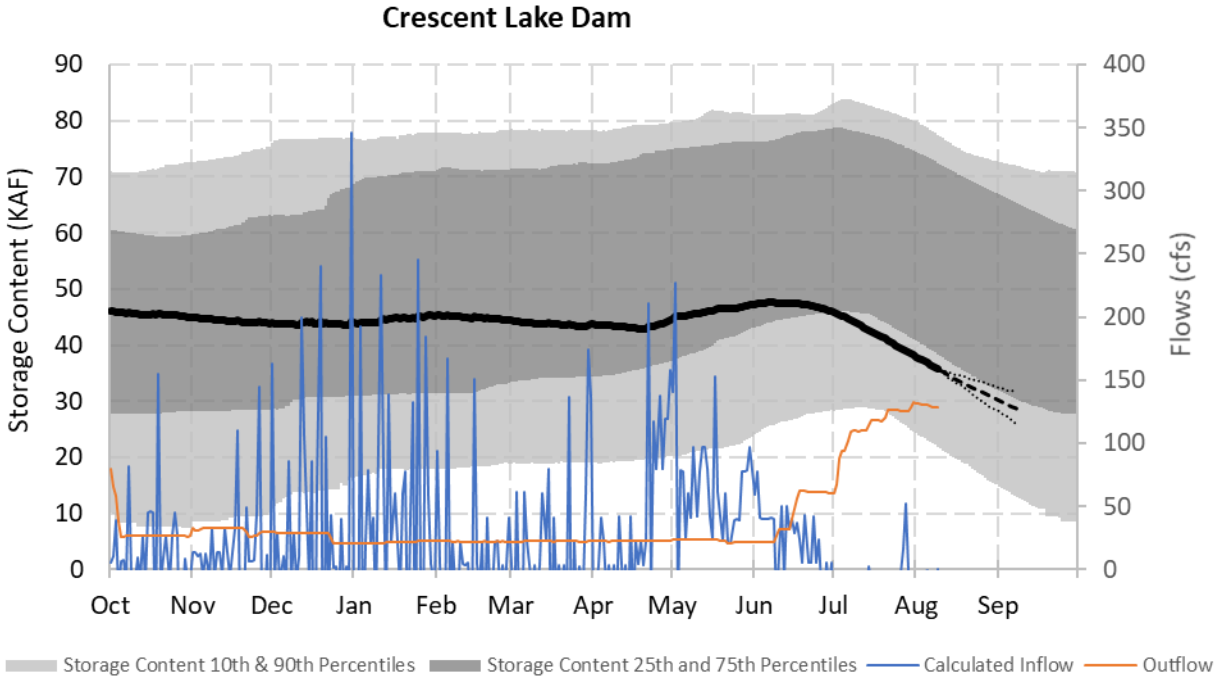
# Deschutes River Basin

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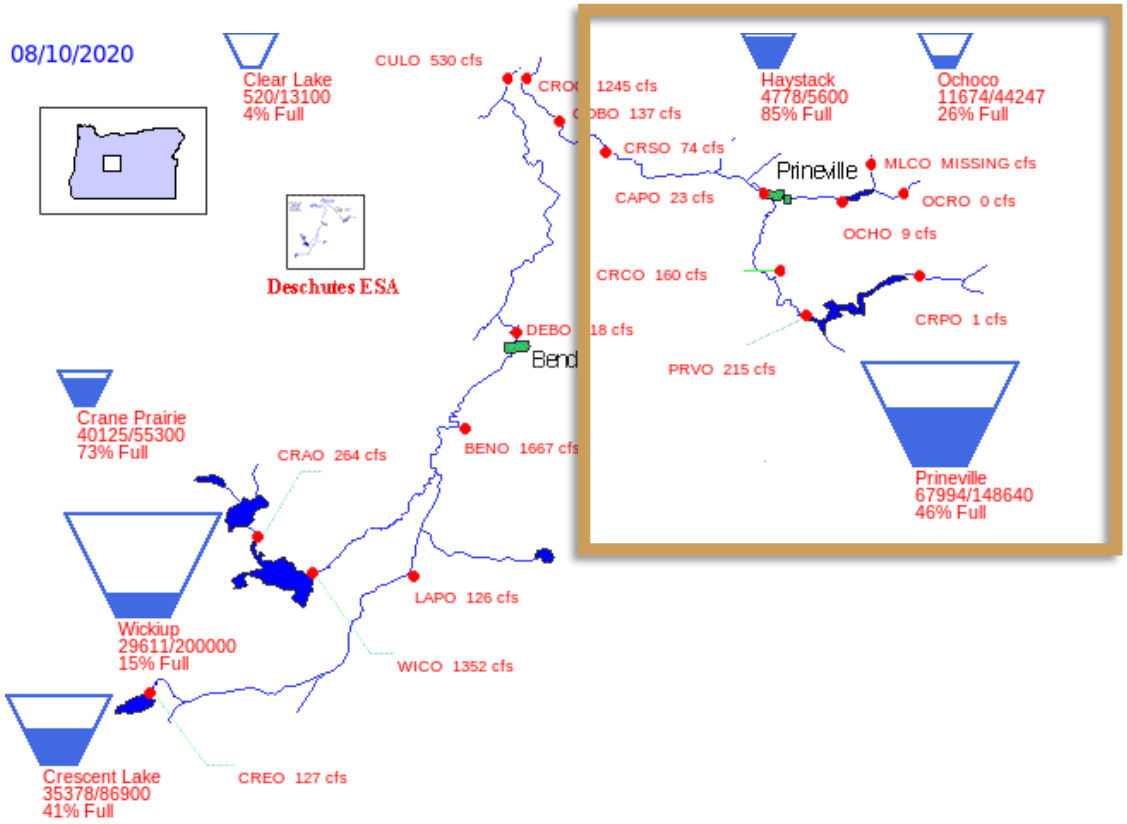
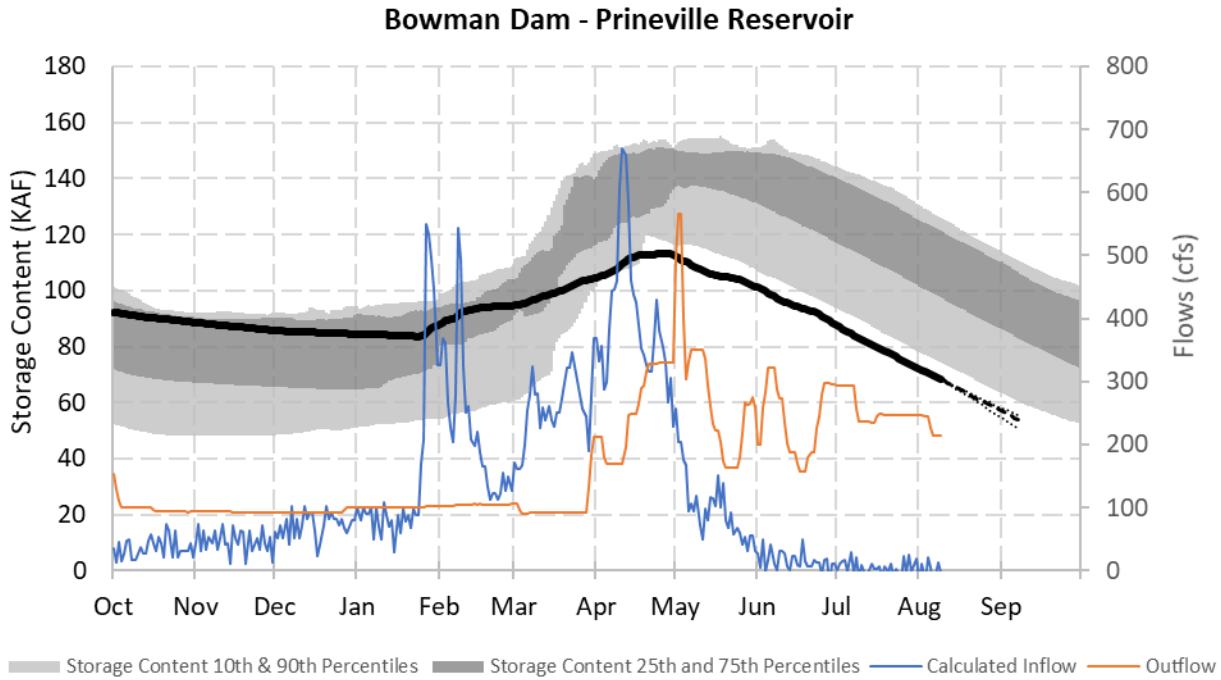
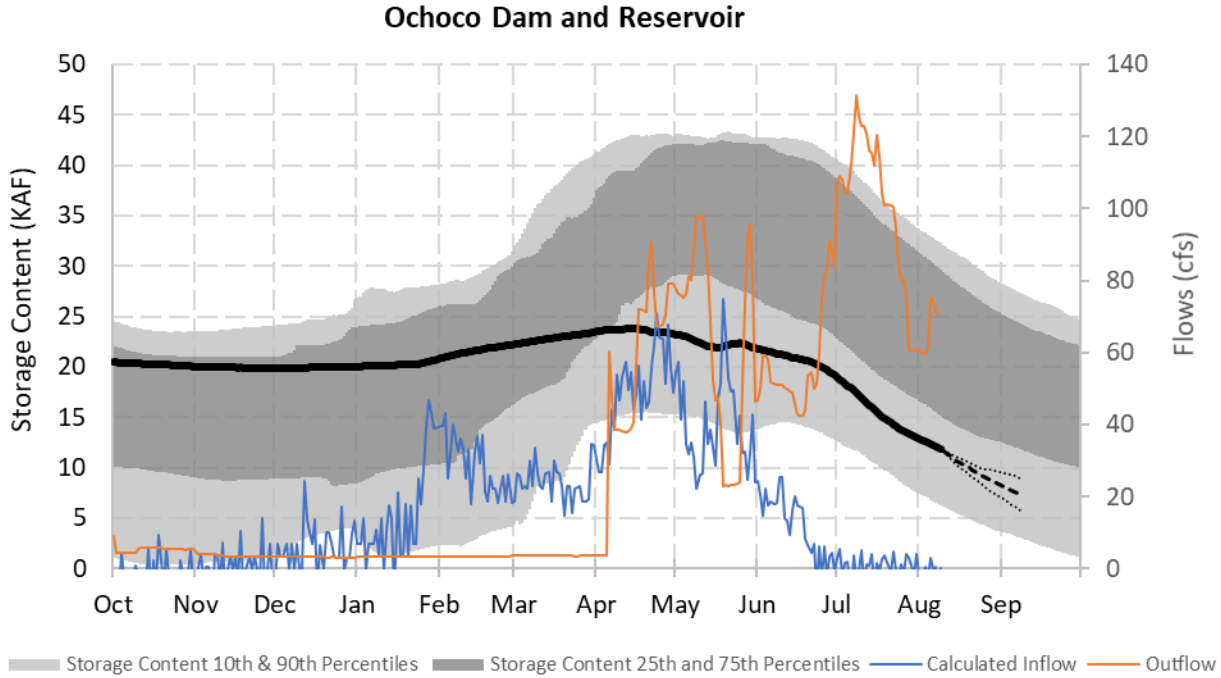
# Crooked River Basin



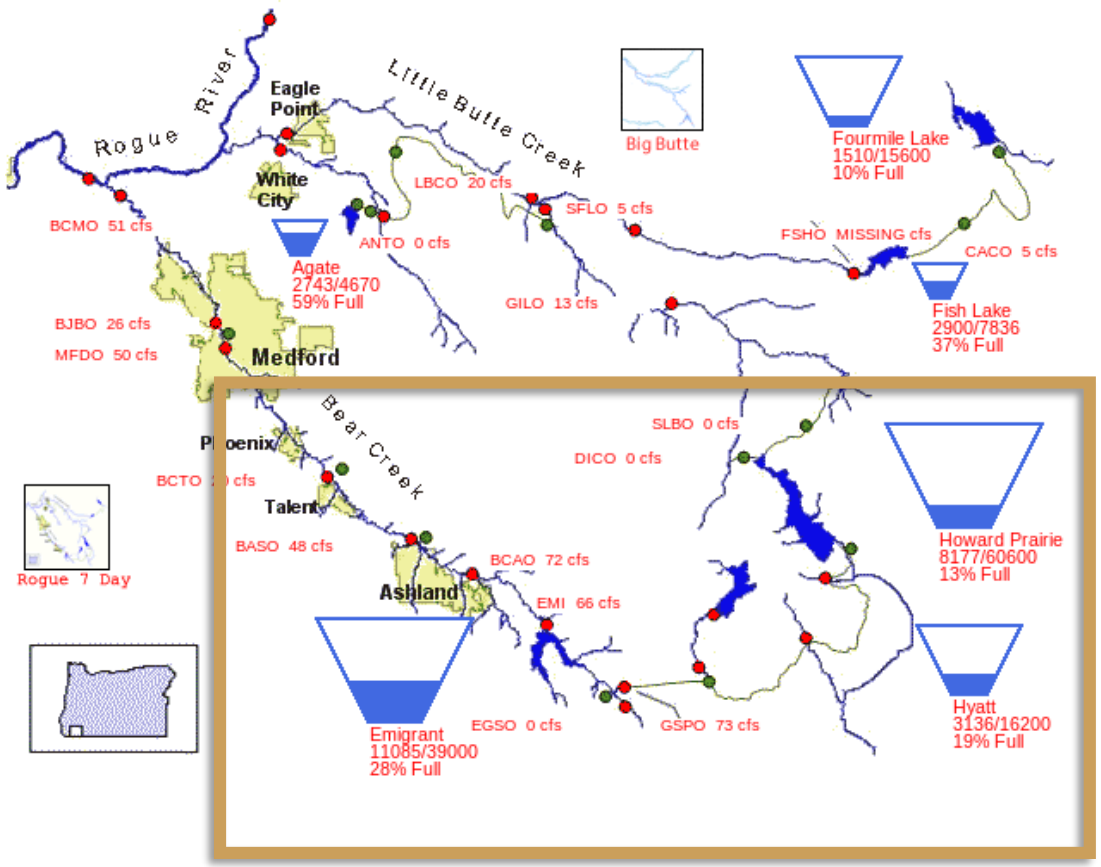



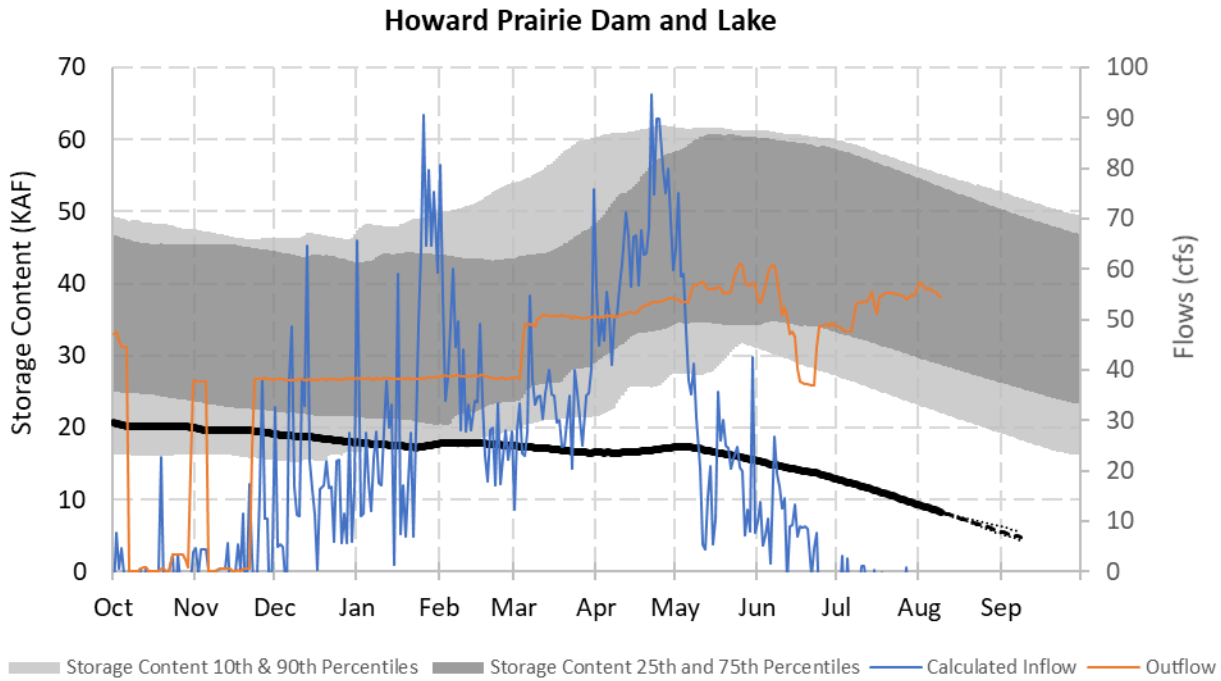



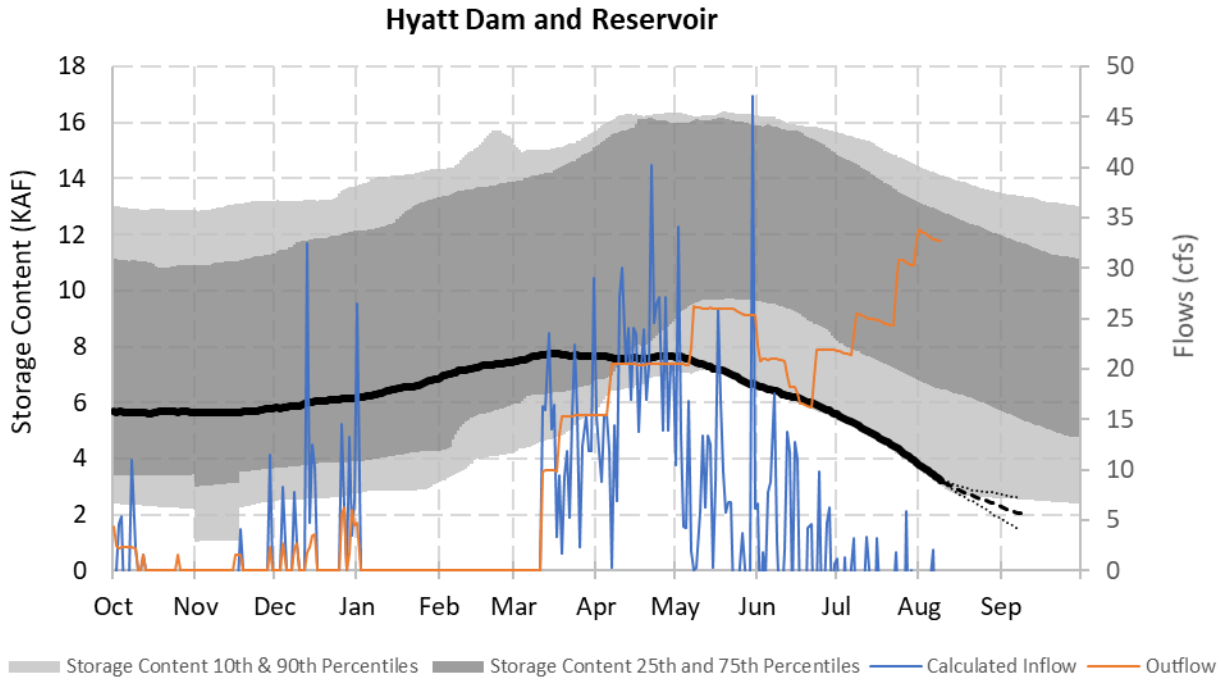

**Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows*

# Rogue River Basin

08/10/2020

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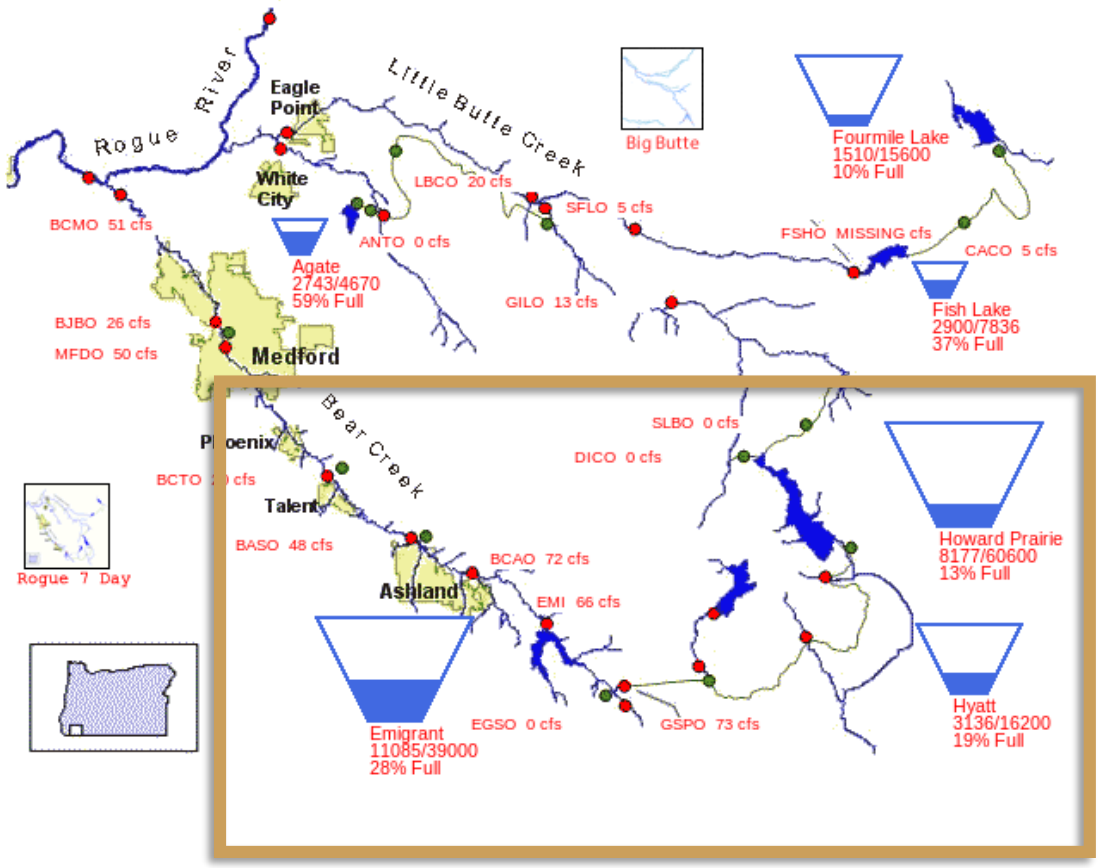
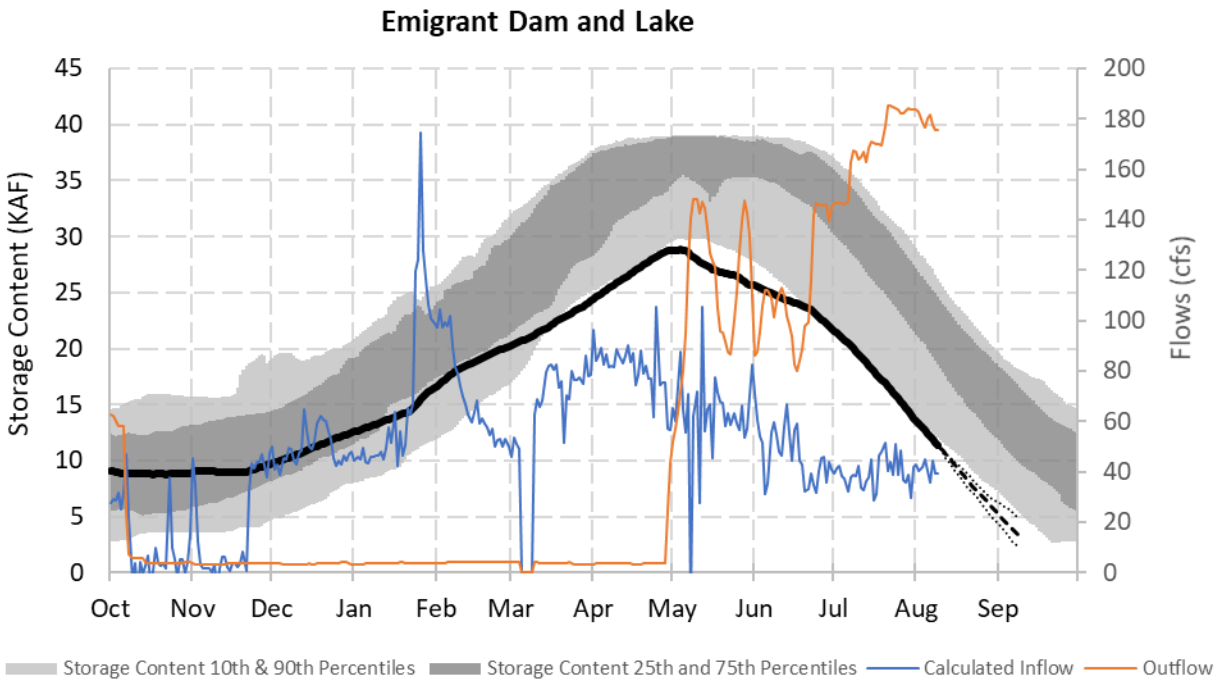
# Rogue River Basin

08/10/2020

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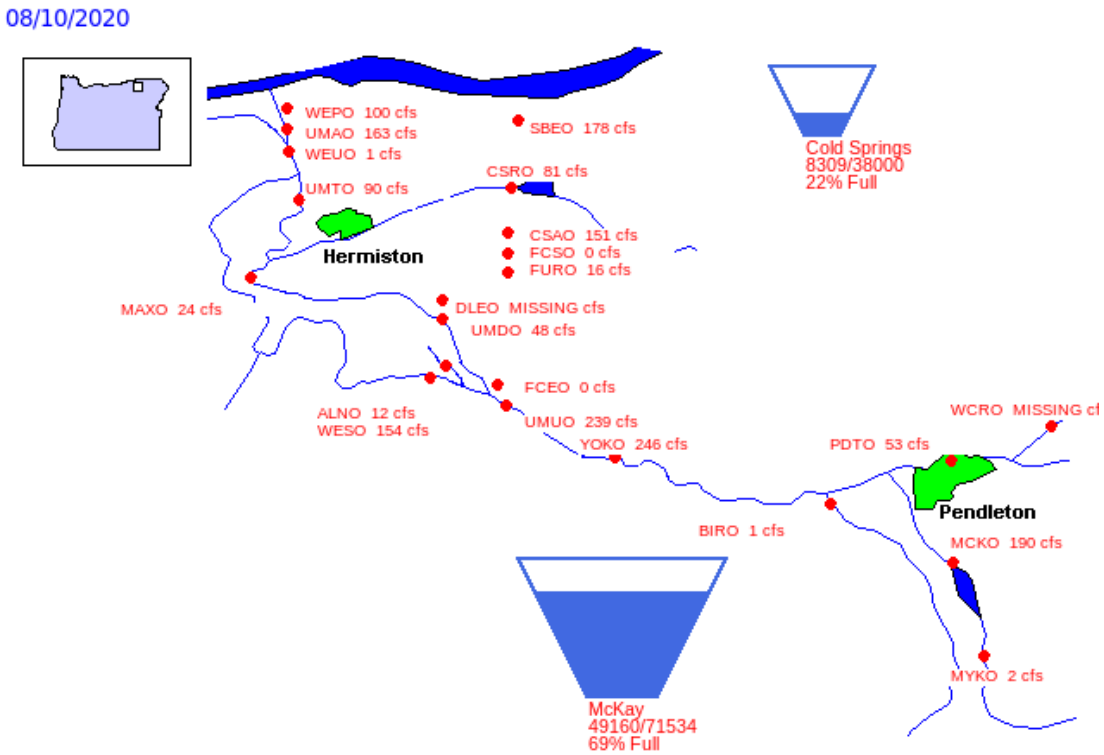
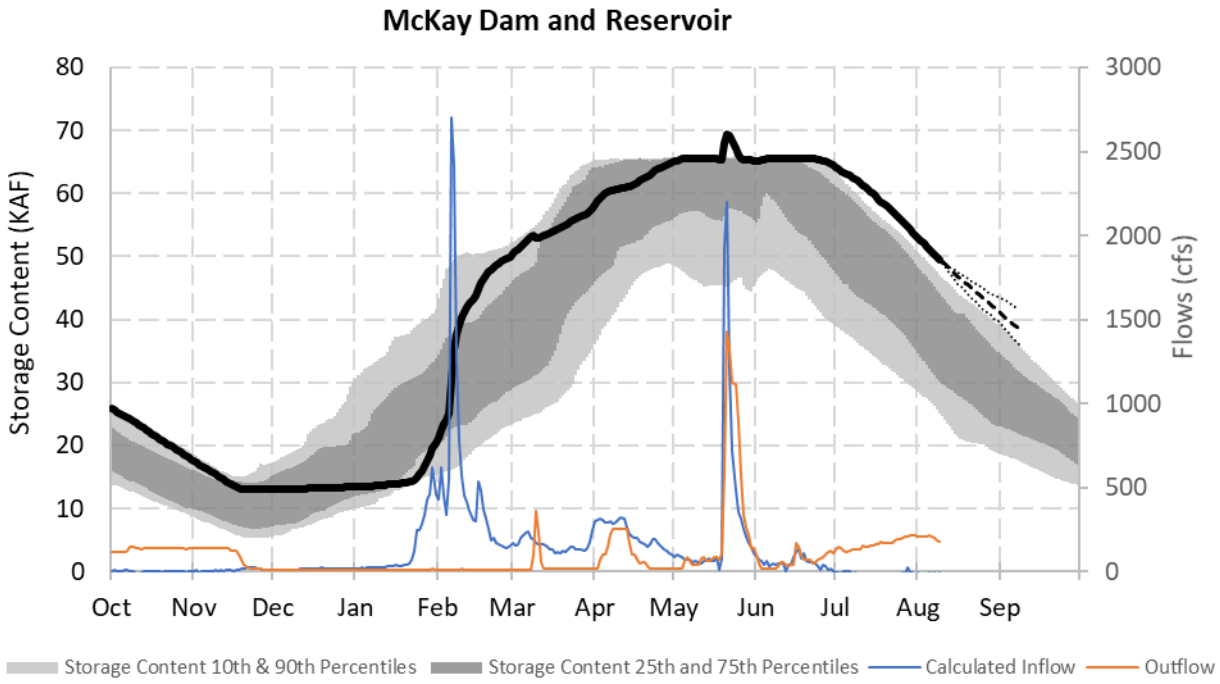
# Umatilla River Basin

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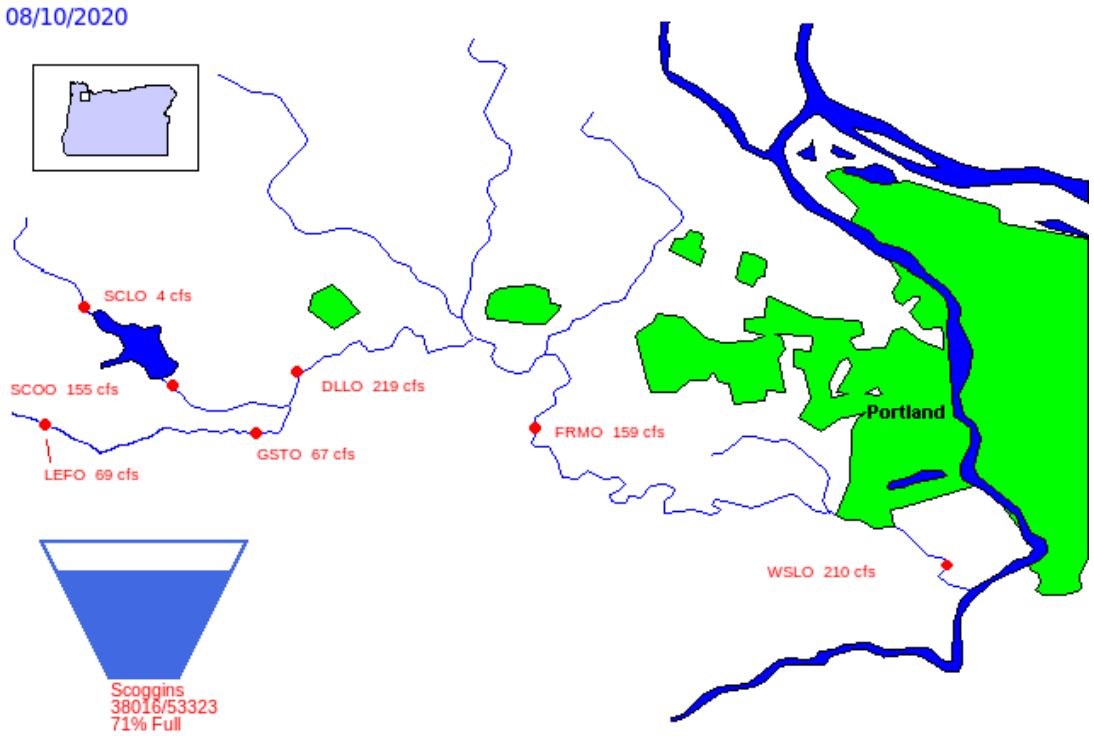
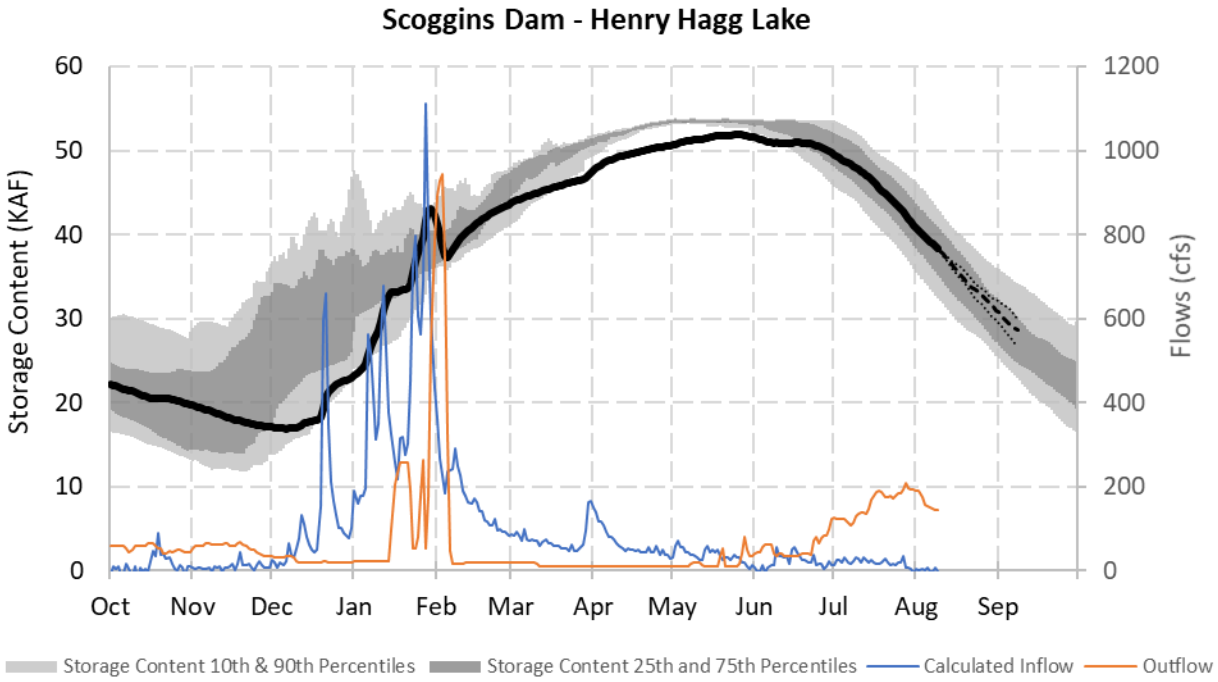
# Tualatin River Basin

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Jon Rocha – Columbia Pacific Northwest Regional Office

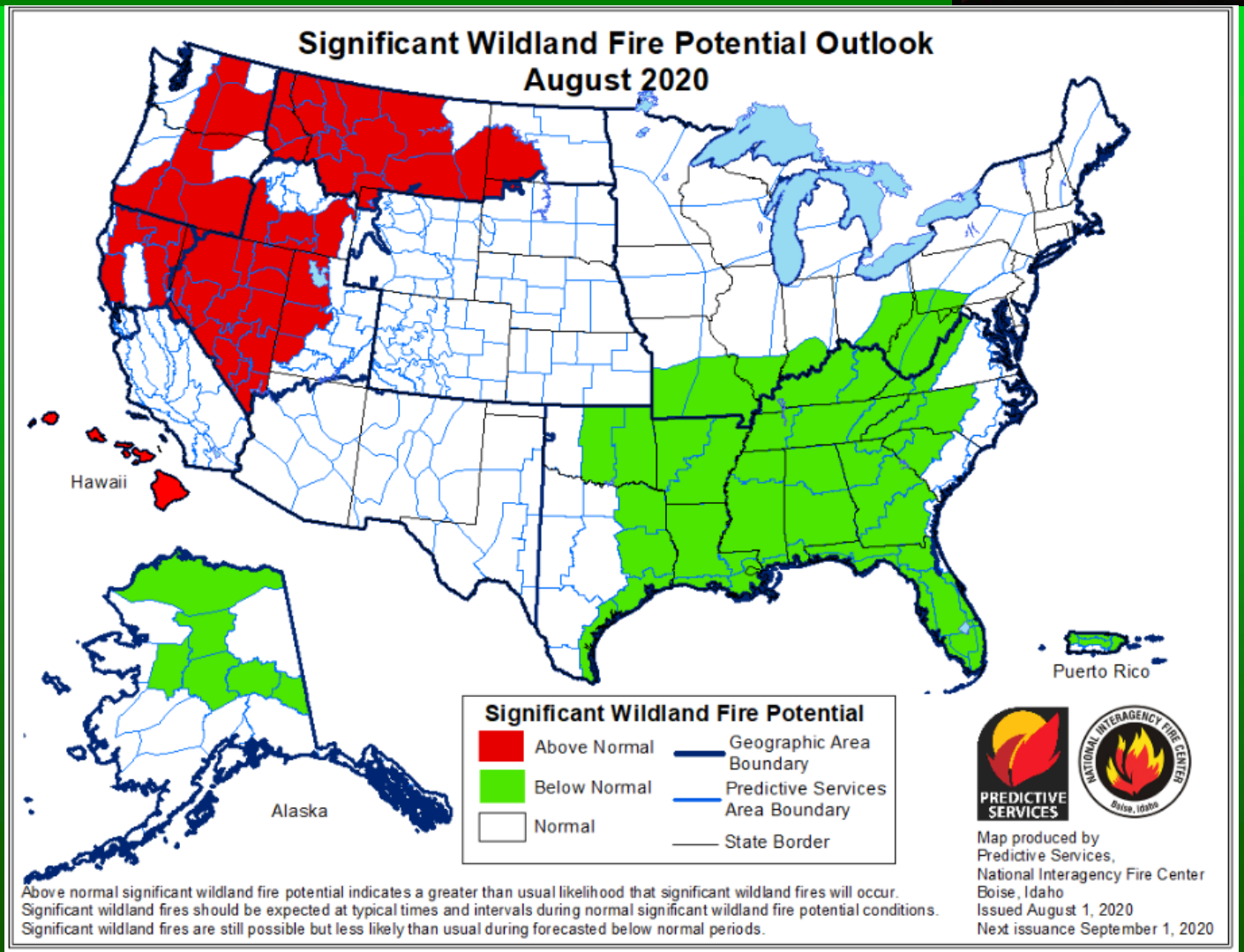
jrocha@usbr.gov

208.378.6213


BUREAU OF RECLAMATION

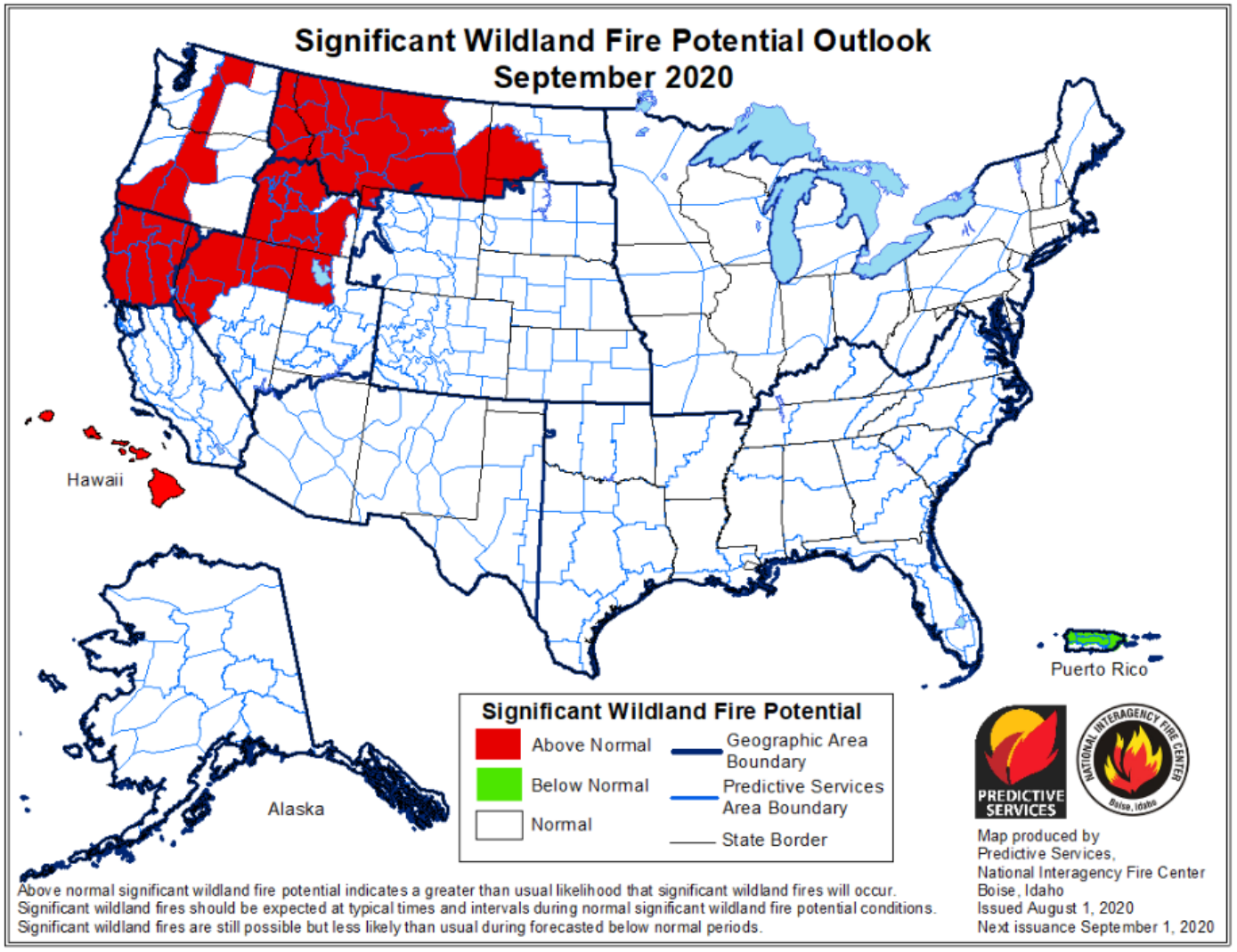
# Significant Fire Potential Outlook

August



# Significant Fire Potential Outlook

September



# Significant Fire Potential Outlook

October