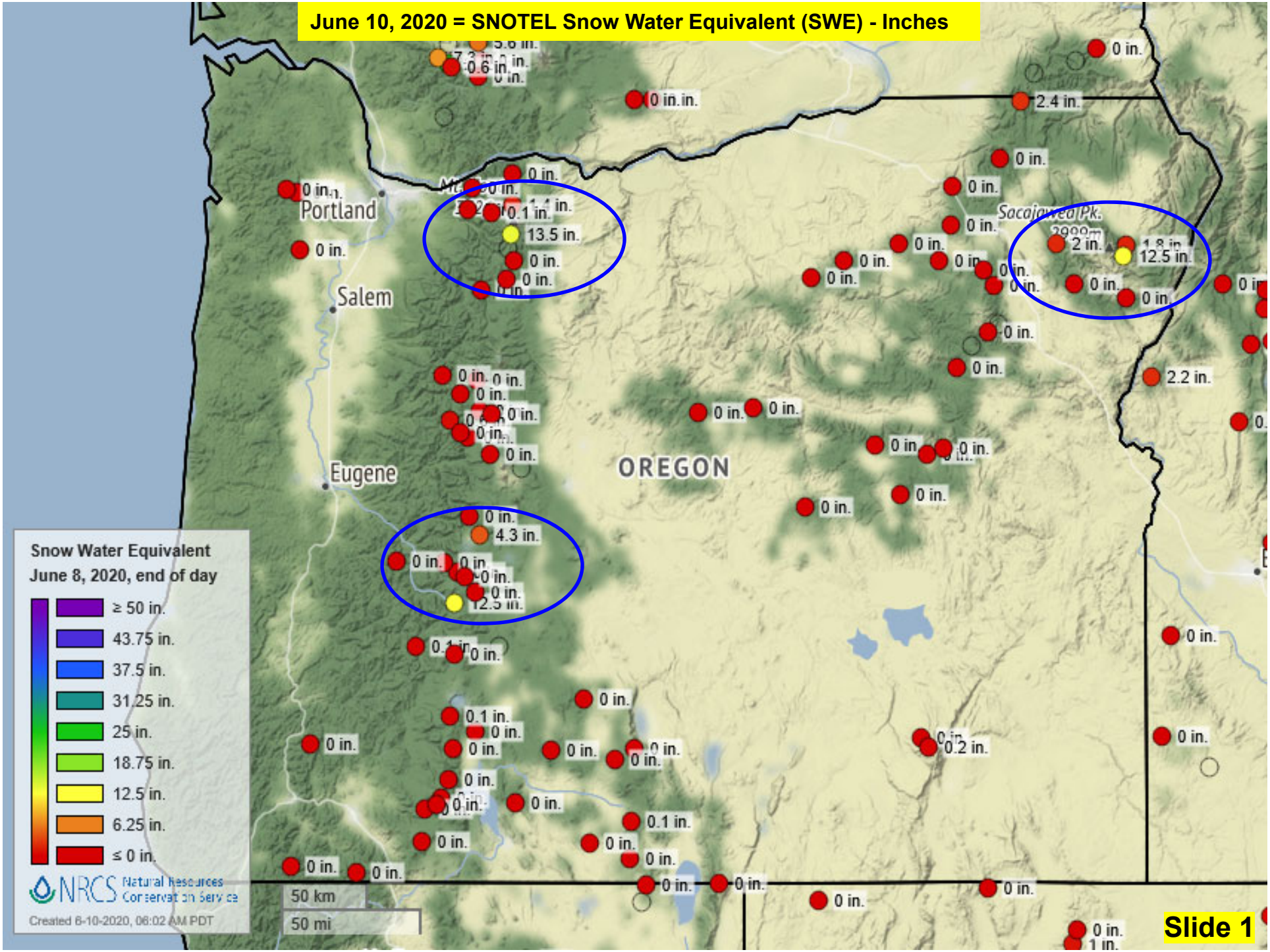
Oregon Water Supply Availability Committee – June 10, 2020

Tree on SNOTEL Shelter
June 4, 2020
Marion Forks, Willamette Basin

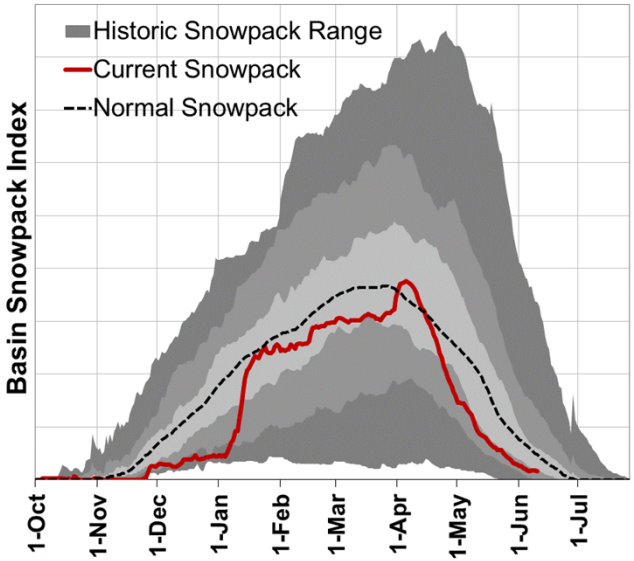
H. Scott Oviatt
USDA – Natural Resources Conservation Service
scott.oviatt@usda.gov
503-414-3271


June 10, 2020 = SNOTEL Snow Water Equivalent (SWE) - Inches
Portland
Salem
Eugene
OREGON
Sacajawea Pk.
Snow Water Equivalent
June 8, 2020, end of day
≥ 50 in.
43.75 in.
37.5 in.
31.25 in.
25 in.
18.75 in.
12.5 in.
6.25 in.
≤ 0 in.
NRCS Natural Resources Conservation Service
Created 6-10-2020, 06:02 AM PDT
50 km
50 mi
Slide 1

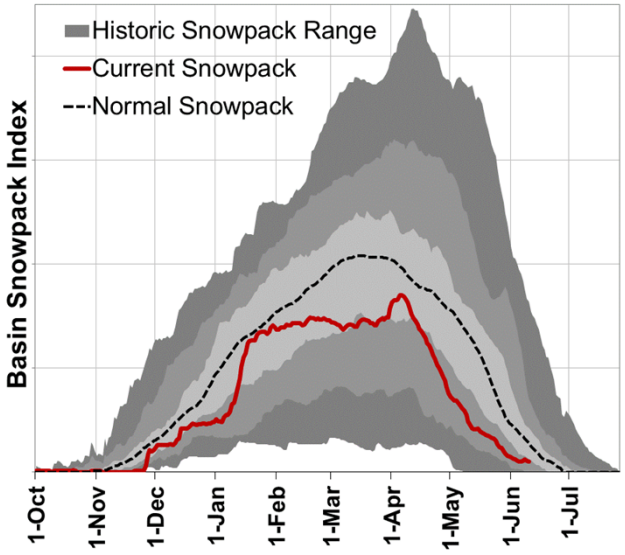
Water Year 2020 – June 10th

Slide 2

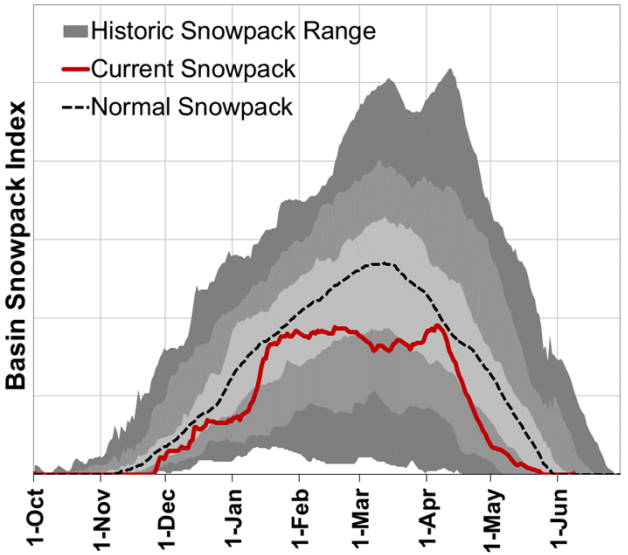
Willamette



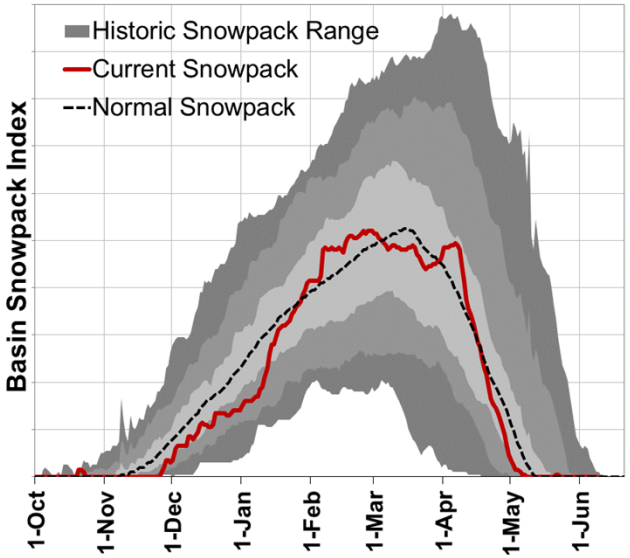
Rogue/Umpqua



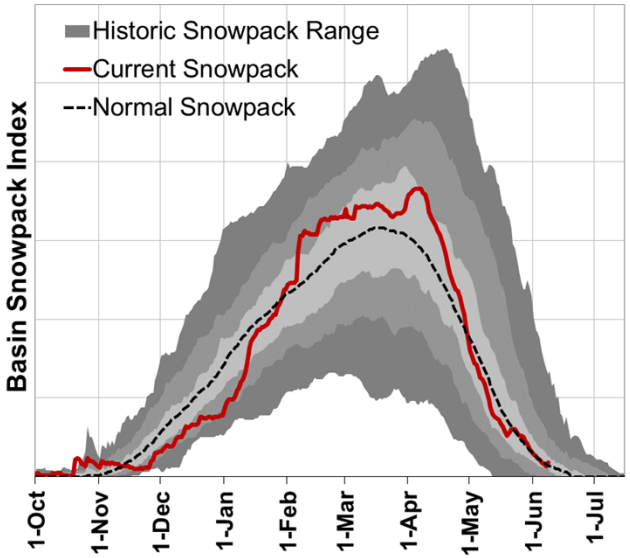
Klamath



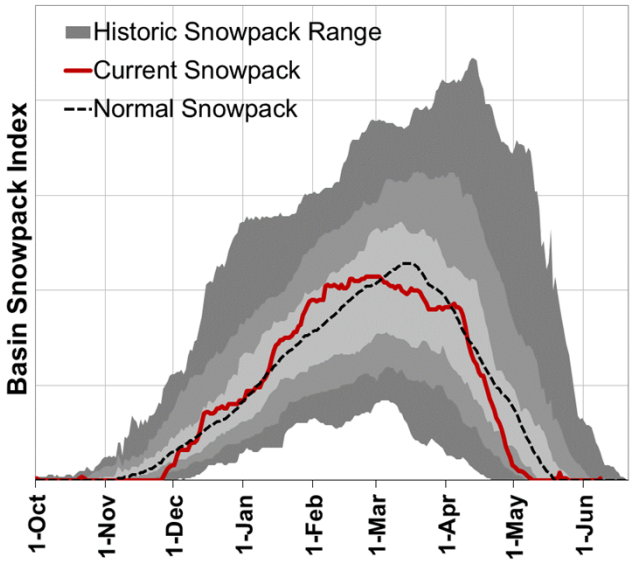
John Day



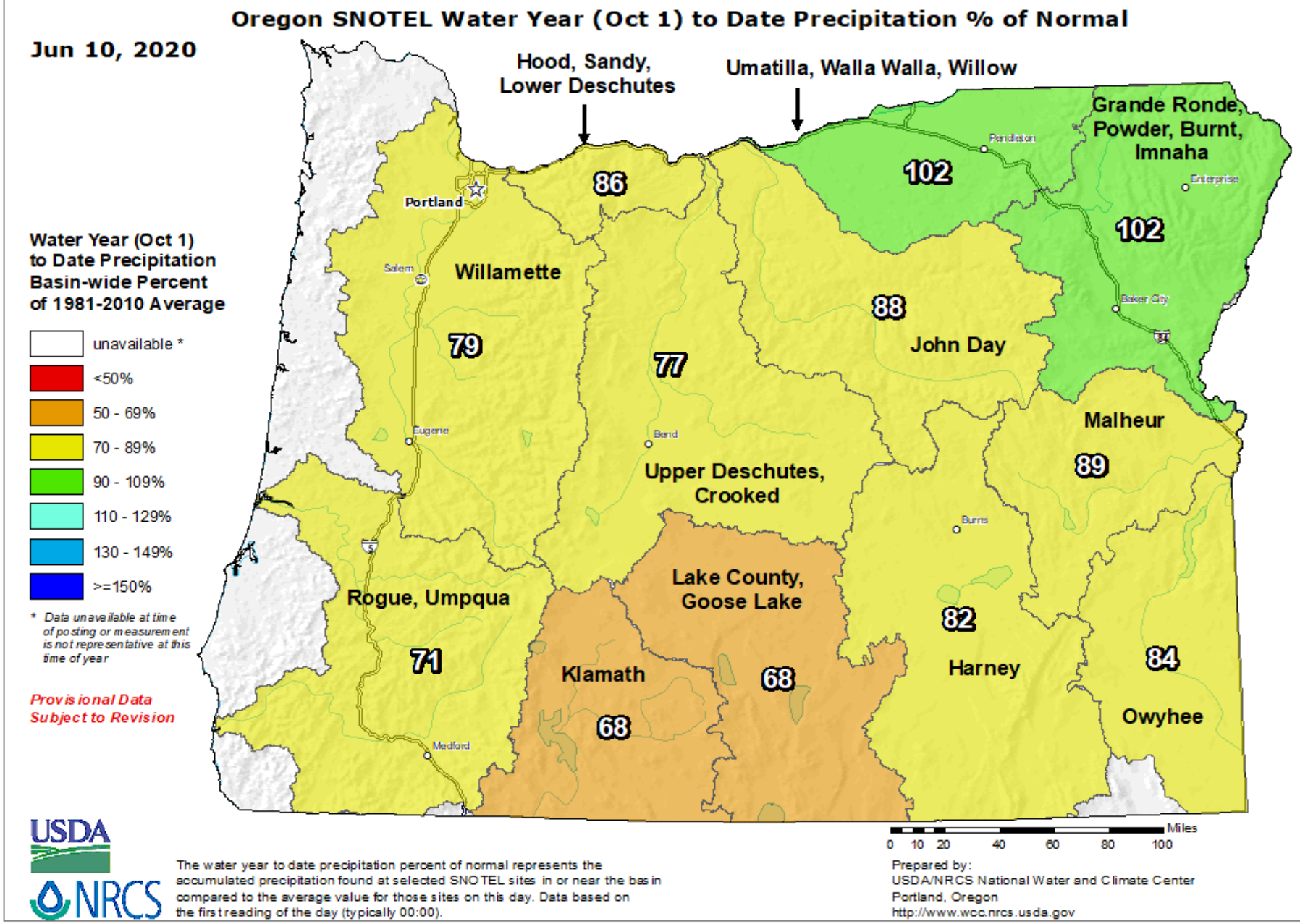
Grande Ronde/Powder/Burnt

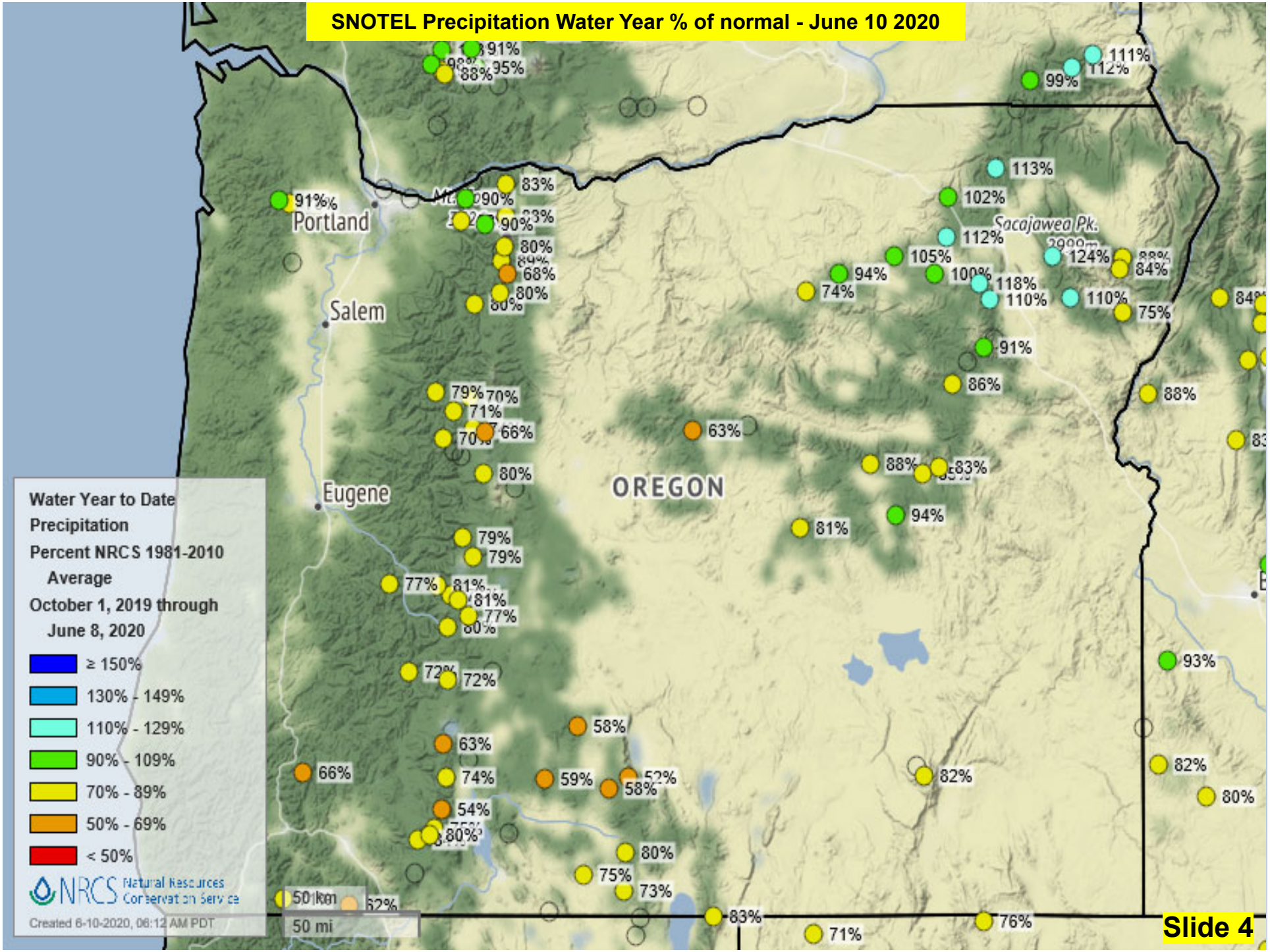


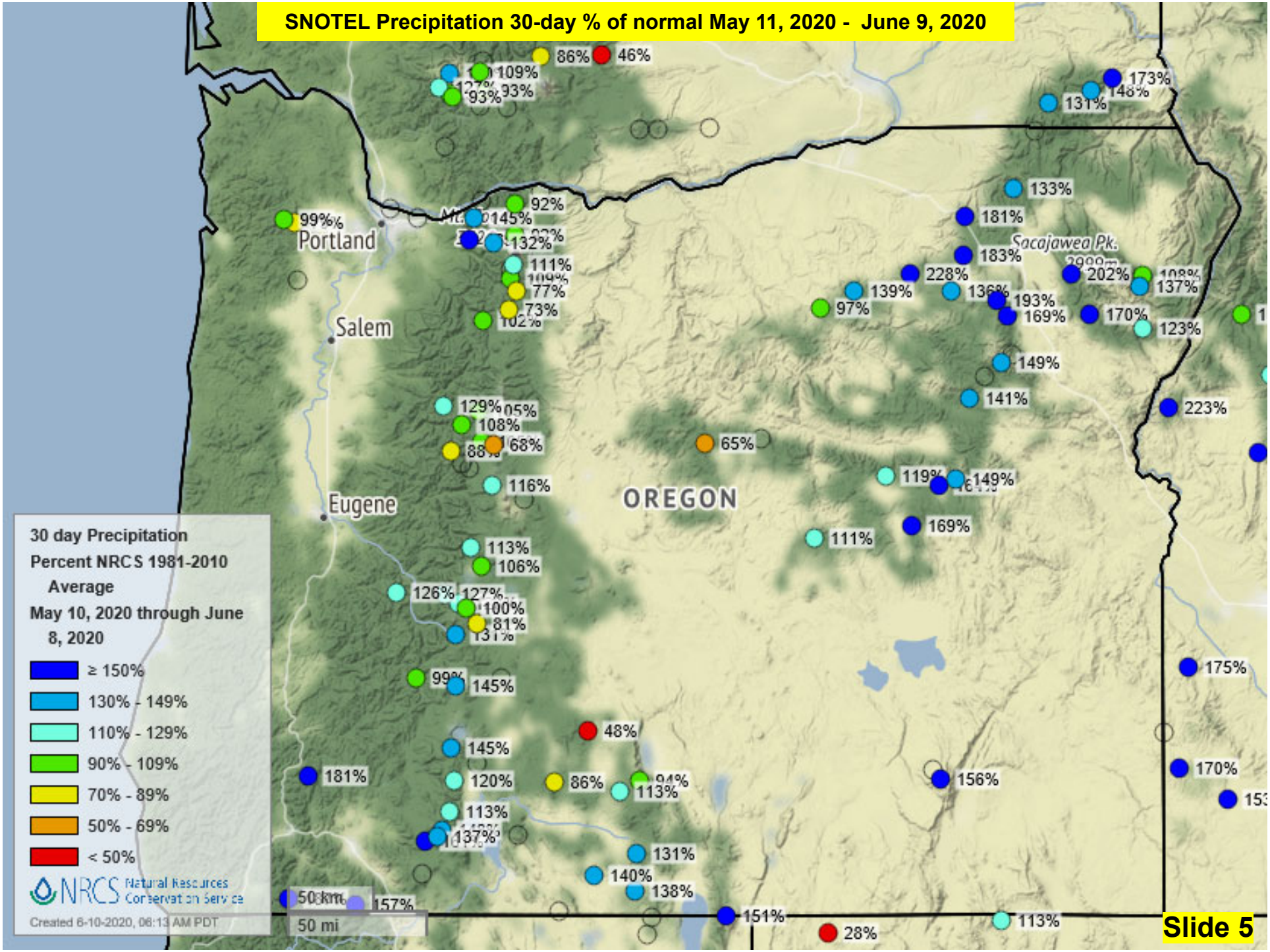
Owyhee/Malheur

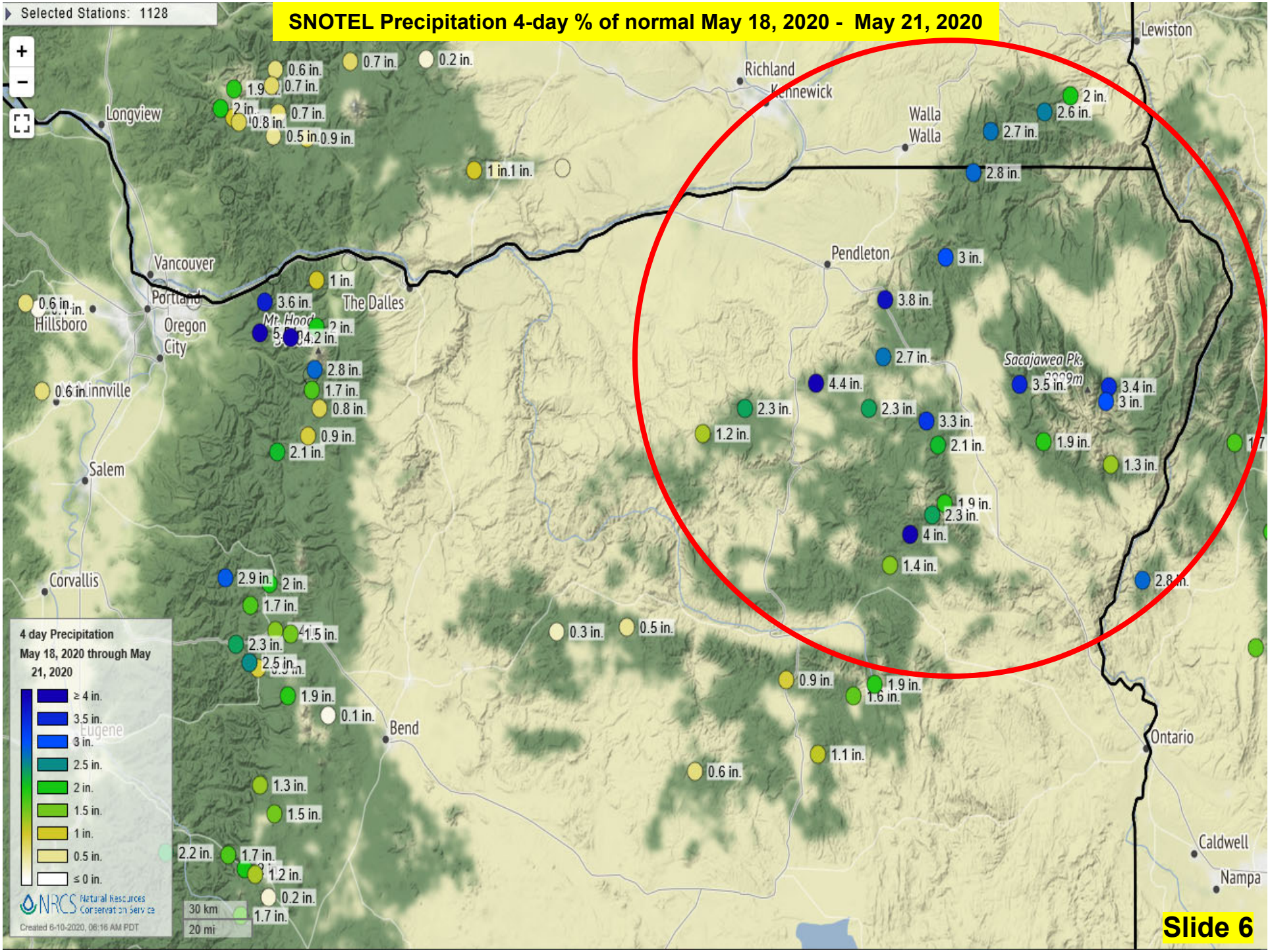


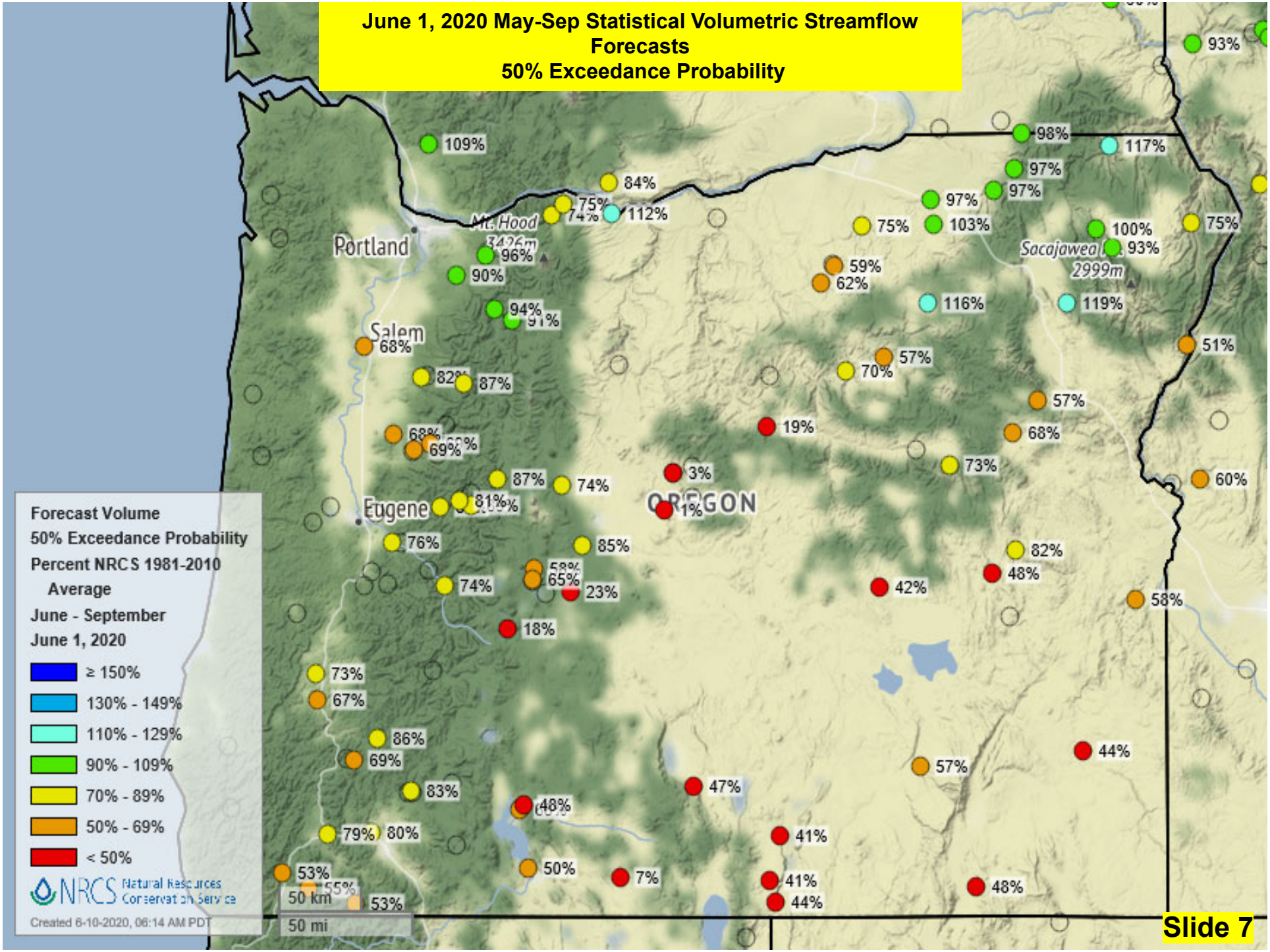
Statewide SNOTEL Precipitation is 81% of normal on June 10, 2020




SNOTEL Precipitation Water Year % of normal - June 10 2020
Portland
Salem
Eugene
OREGON
Sacajawea Pk.
Water Year to Date Precipitation
Percent NRCS 1981-2010 Average
October 1, 2019 through June 8, 2020
≥ 150%
130% - 149%
110% - 129%
90% - 109%
70% - 89%
50% - 69%
< 50%
NRCS Natural Resources Conservation Service
Created 6-10-2020, 06:12 AM PDT
50 km
50 mi
Slide 4


SNOTEL Precipitation 30-day % of normal May 11, 2020 - June 9, 2020
Portland
Salem
Eugene
OREGON
Sacajawea Pk.
30 day Precipitation
Percent NRCS 1981-2010
Average
May 10, 2020 through June
8, 2020
≥ 150%
130% - 149%
110% - 129%
90% - 109%
70% - 89%
50% - 69%
< 50%
NRCS Natural Resources Conservation Service
Created 6-10-2020, 06:13 AM PDT
50 km
50 mi
Slide 5


Selected Stations: 1128
SNOTEL Precipitation 4-day % of normal May 18, 2020 - May 21, 2020
Lewiston
Richland
Kennewick
Walla Walla
Longview
Vancouver
Portland
Hillsboro
Oregon City
The Dalles
Pendleton
Sacajawea Pk.
Salem
Corvallis
Eugene
Bend
Ontario
Caldwell
Nampa
4 day Precipitation
May 18, 2020 through May 21, 2020
≥ 4 in.
3.5 in.
3 in.
2.5 in.
2 in.
1.5 in.
1 in.
0.5 in.
≤ 0 in.
NRCS Natural Resources Conservation Service
Created 6-10-2020, 06:16 AM PDT
30 km
20 mi
Slide 6

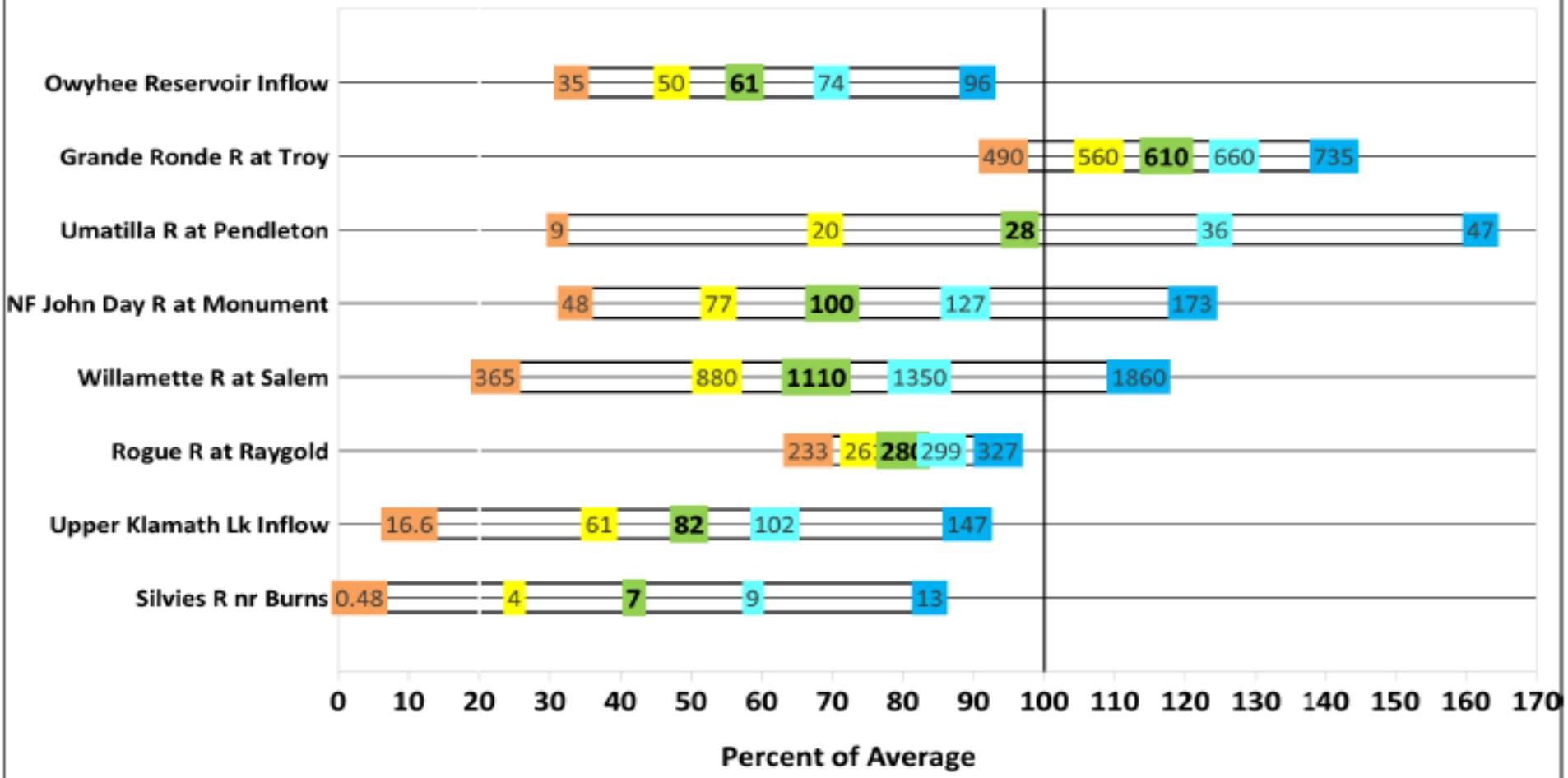

June 1, 2020 May-Sep Statistical Volumetric Streamflow Forecasts
50% Exceedance Probability
Portland
Salem
Eugene
OREGON
Mt. Hood
3426m
Sacajawea
2999m
109%
84%
75%
74%
112%
98%
117%
97%
97%
97%
75%
103%
100%
93%
75%
93%
96%
90%
59%
62%
116%
119%
94%
91%
68%
87%
82%
57%
70%
51%
57%
19%
68%
69%
73%
87%
74%
3%
1%
60%
81%
76%
85%
82%
48%
65%
74%
23%
42%
58%
18%
73%
67%
86%
69%
44%
57%
83%
47%
48%
79%
80%
41%
53%
50%
7%
41%
48%
44%
53%
Forecast Volume
50% Exceedance Probability
Percent NRCS 1981-2010 Average
June - September
June 1, 2020
≥ 150%
130% - 149%
110% - 129%
90% - 109%
70% - 89%
50% - 69%
< 50%
NRCS Natural Resources Conservation Service
Created 6-10-2020, 06:14 AM PDT
50 km
50 mi
Slide 7

June 1, 2020

Slide 8

Summary of Streamflow Forecasts across Oregon

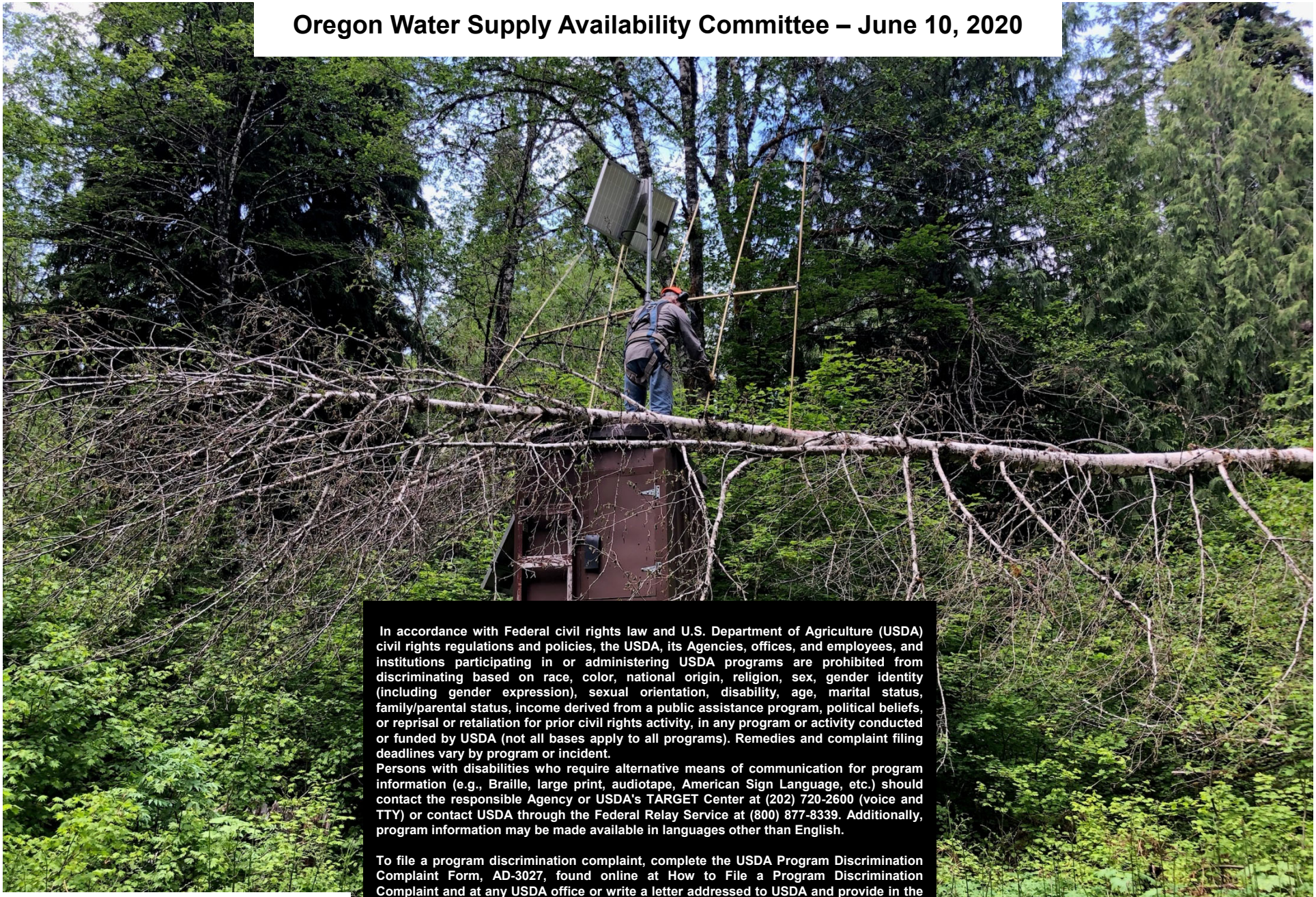
June through September Forecast Volumes at a Selection of Streamflow Points (Volumes listed in KAF)



Legend: ←----------Drier----------**Future Conditions**----------Wetter----------→

90% Exceedance Forecast (KAF)	70% Exceedance Forecast (KAF)	50% Exceedance Forecast (KAF)	30% Exceedance Forecast (KAF)	10% Exceedance Forecast (KAF)
There is a 90% chance that flows will exceed this volume.	There is a 70% chance that flows will exceed this volume.	There is a 50% chance that flows will exceed this volume.	There is a 30% chance that flows will exceed this volume.	There is a 10% chance that flows will exceed this volume.

Oregon Water Supply Availability Committee – June 10, 2020



Tree on SNOTEL Shelter
June 4, 2020
Marion Forks, Willamette Basin

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

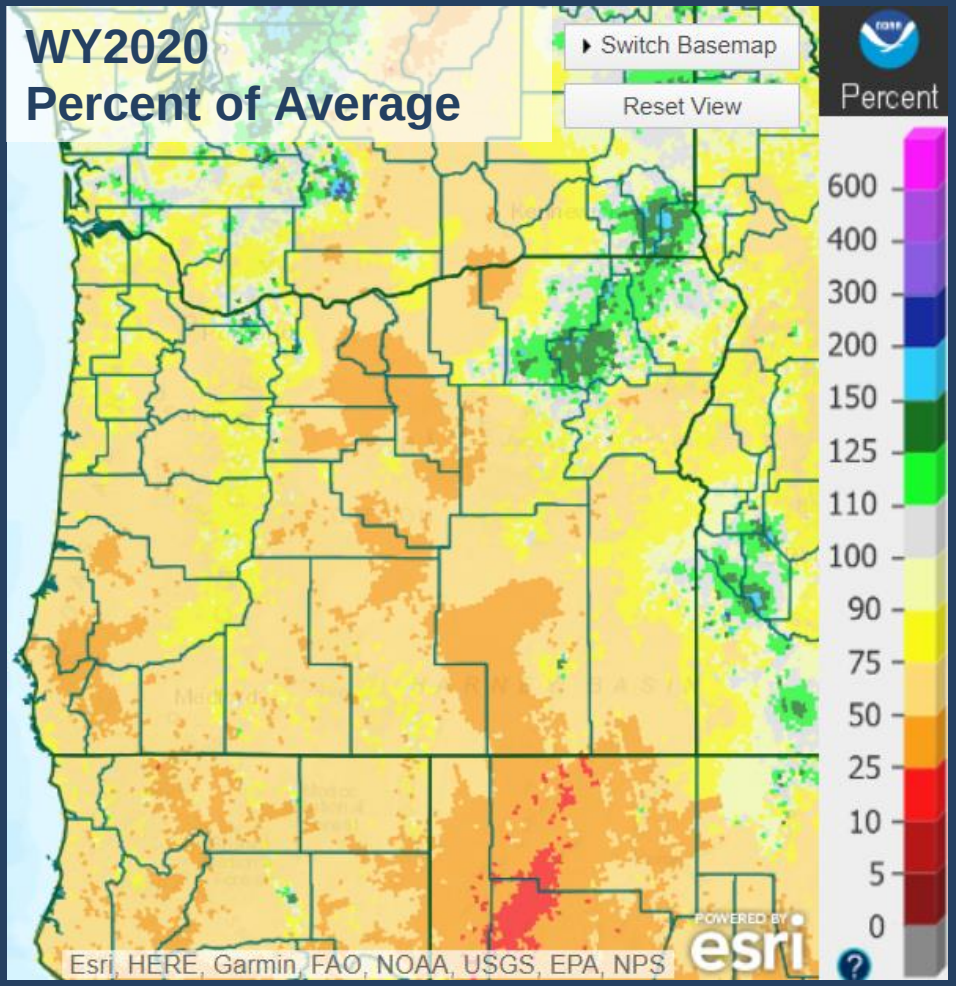
June 10, 2020

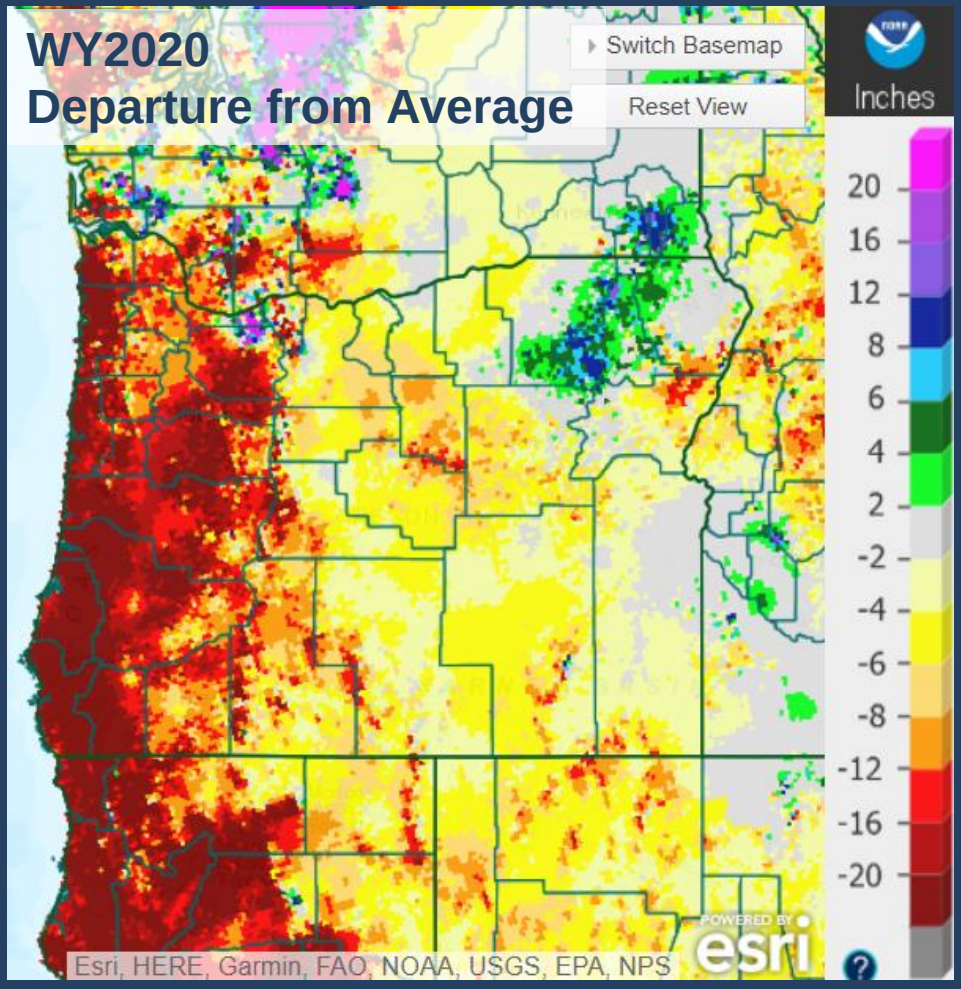
Oregon WSAC

National Weather Service Precipitation & Temperatures Update

Andy Bryant
NOAA/NWS Portland
Weather Forecast Office

Water Year Precipitation

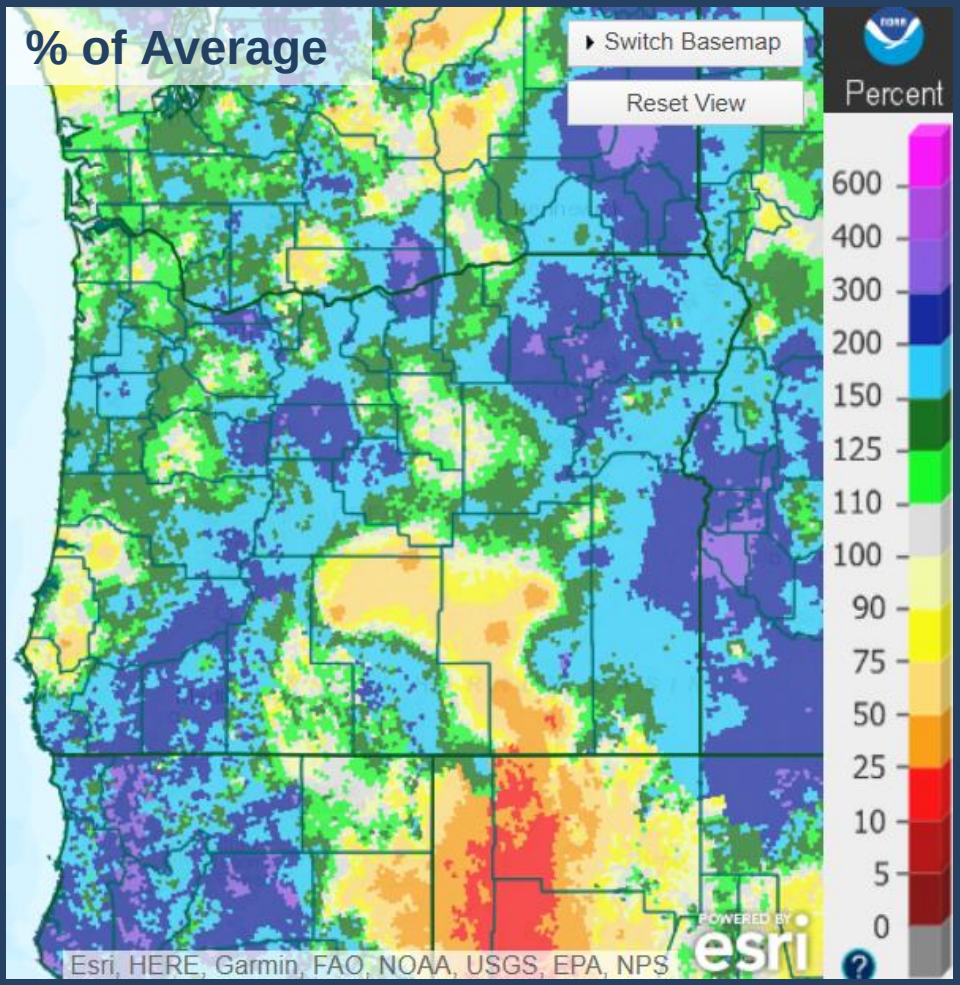


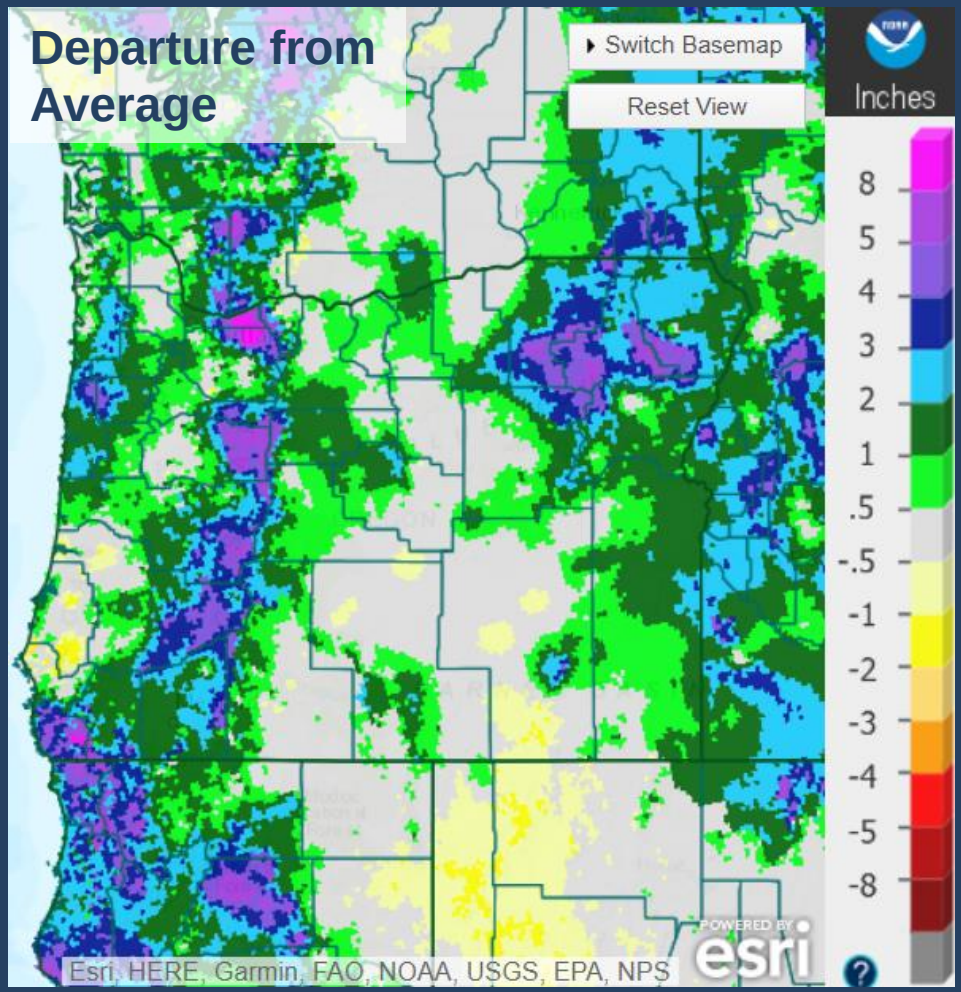


Precipitation Data as of June 10, 2020

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

Precipitation – Past 30 Days



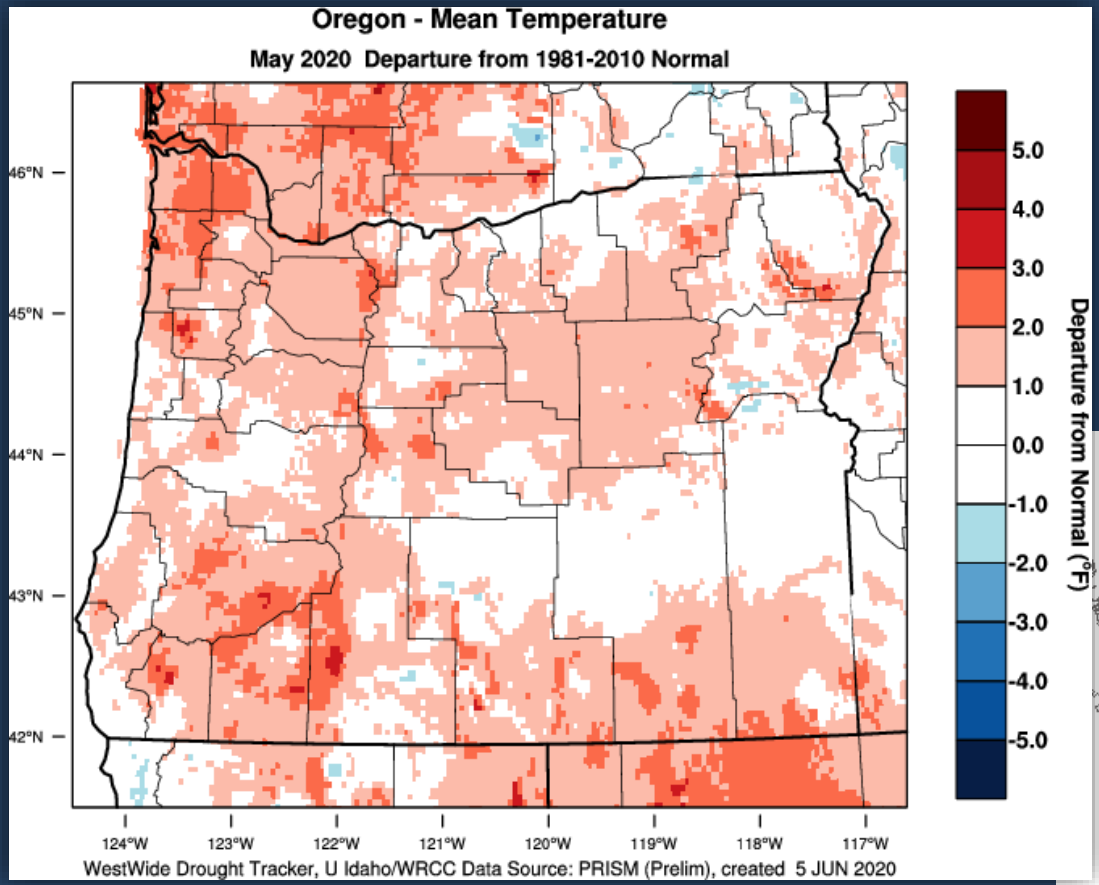


Precipitation Data as of June 10, 2020

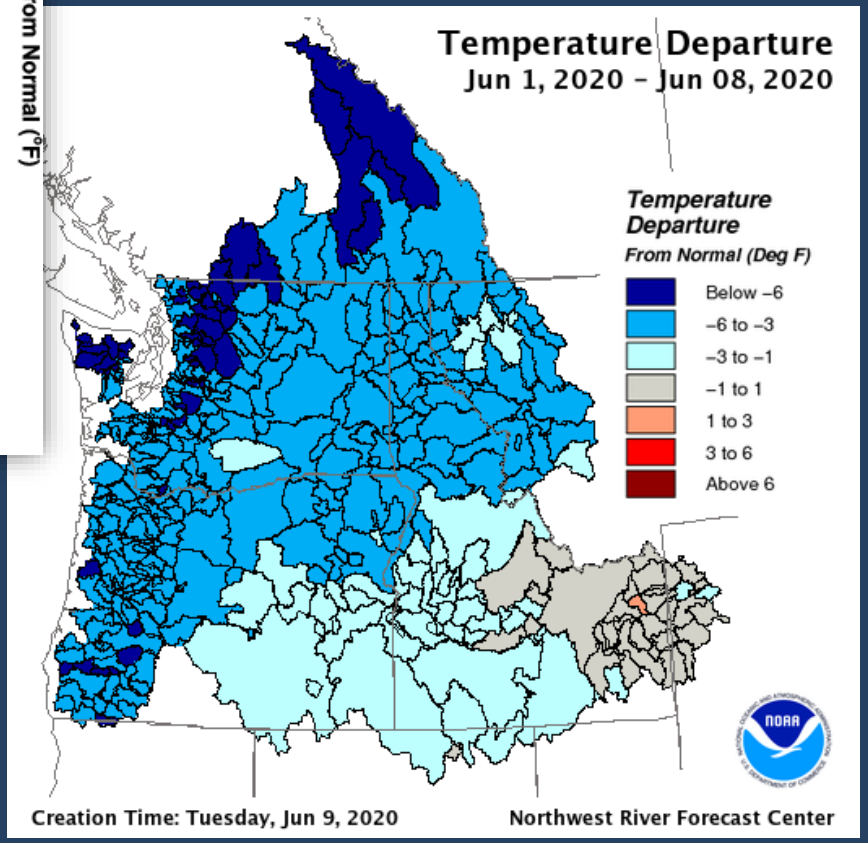
Source: water.weather.gov/precip/index.php?location_type=wfo&location_name=pqr

Recent Temperatures

May 2020



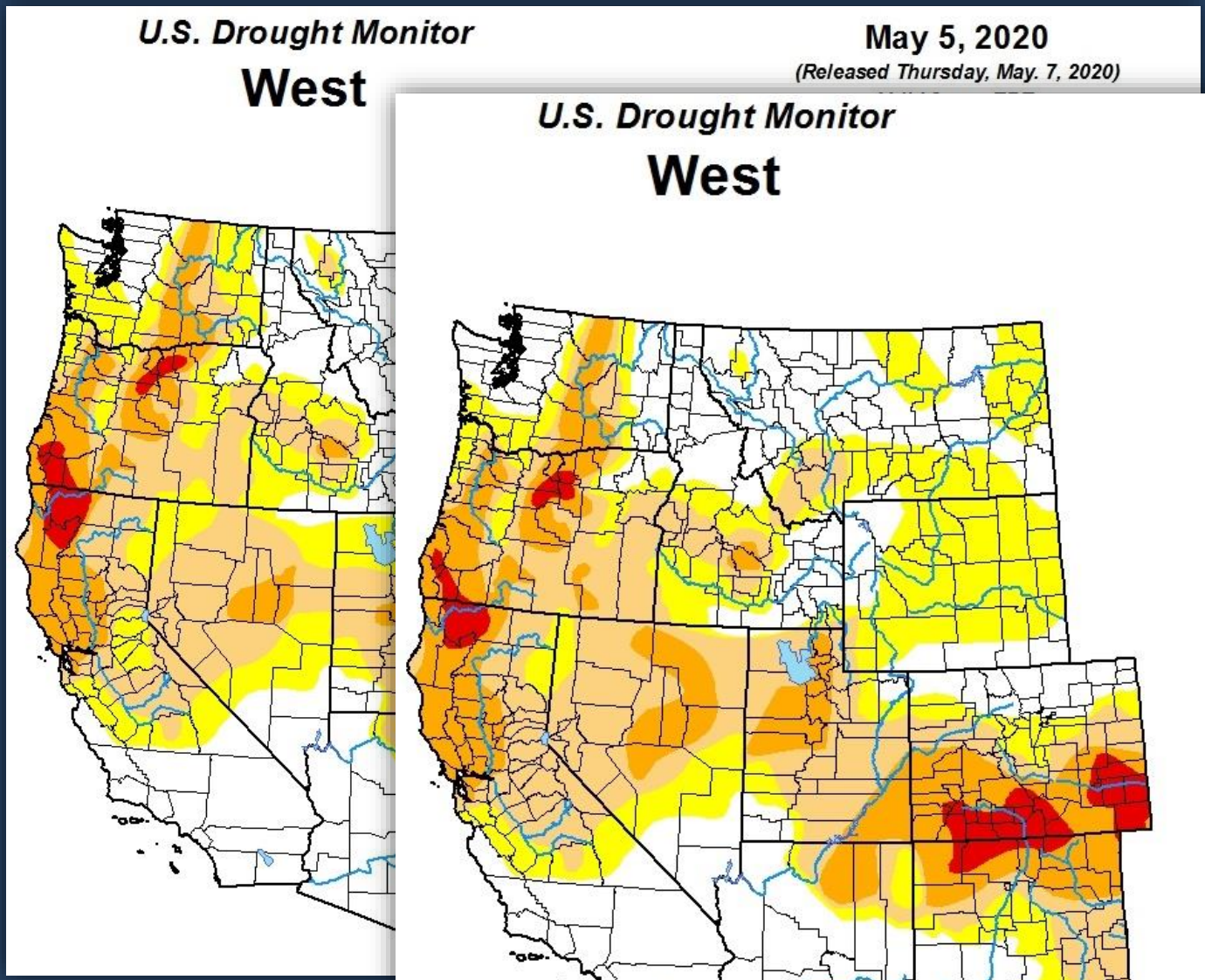
June 1-8, 2020



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

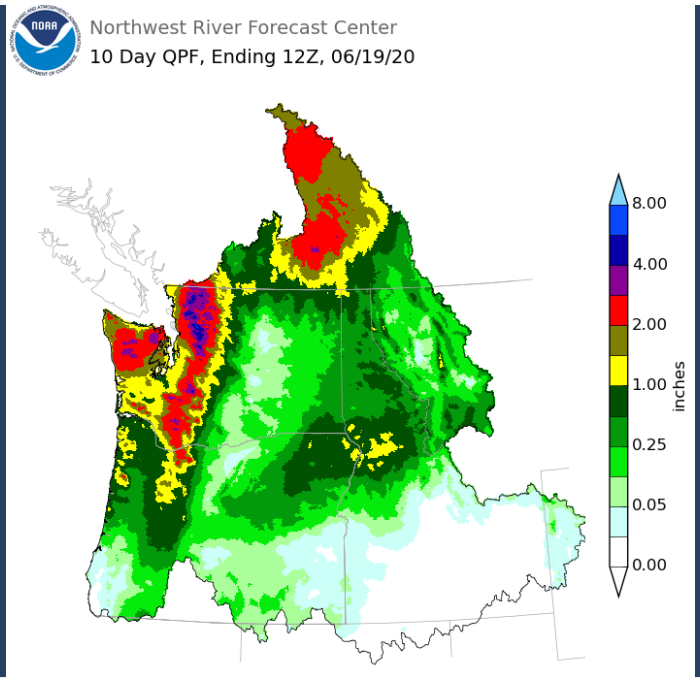
www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=2

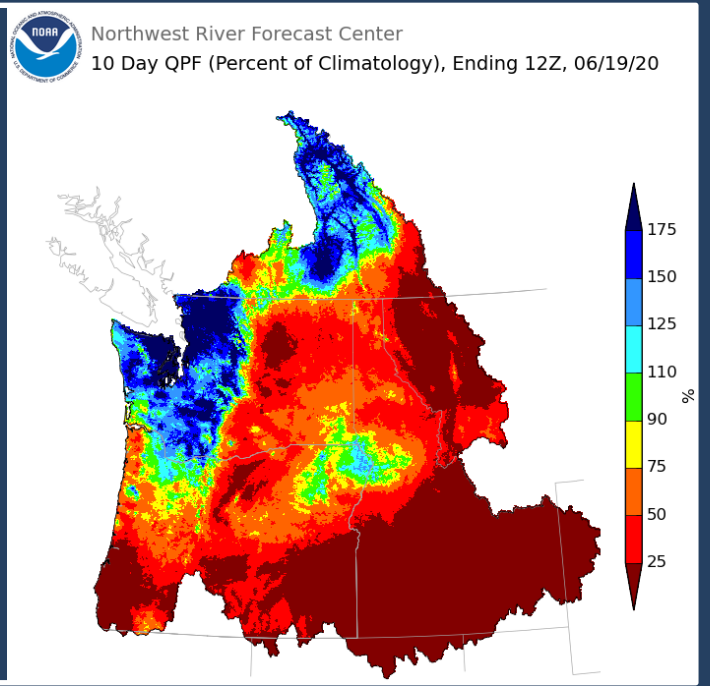
Drought Monitor



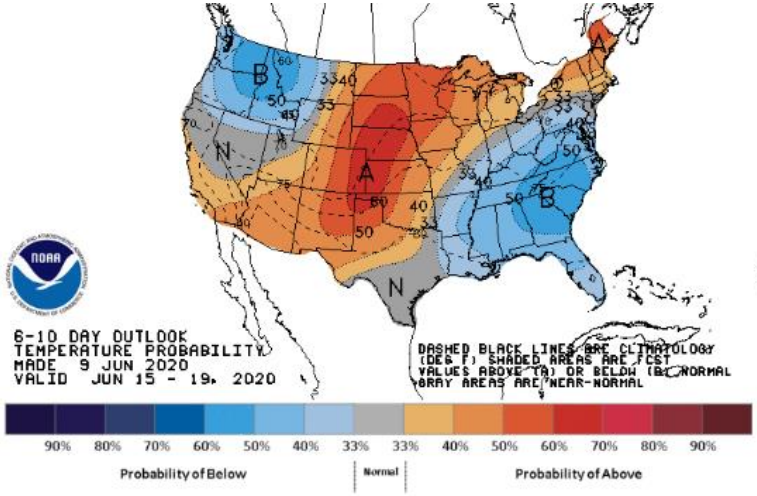
Mid/Late June Outlook

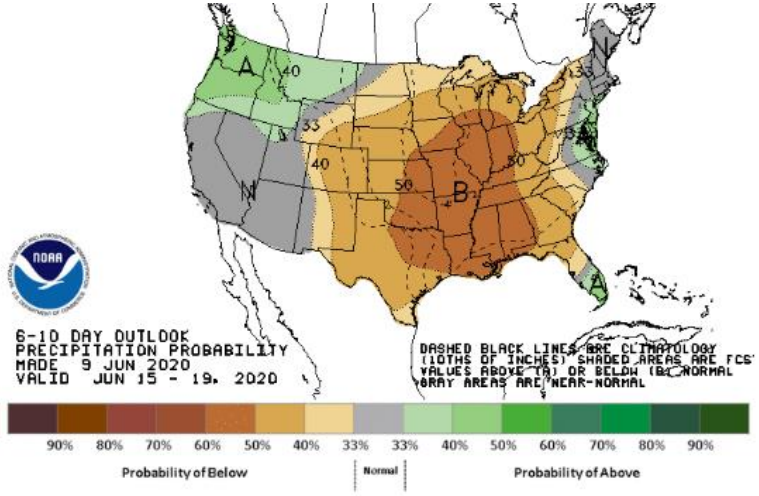
NWRFC
10-DAY
PRECIPITATION





CPC
8 – 14 DAY
OUTLOOK



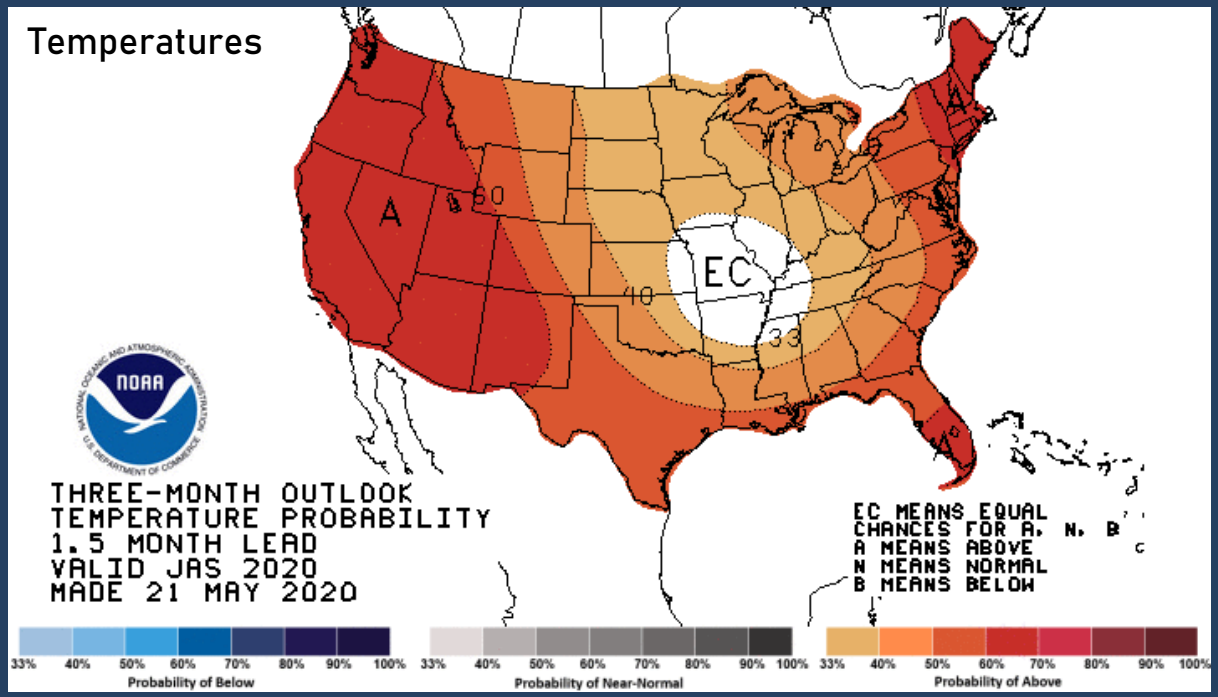


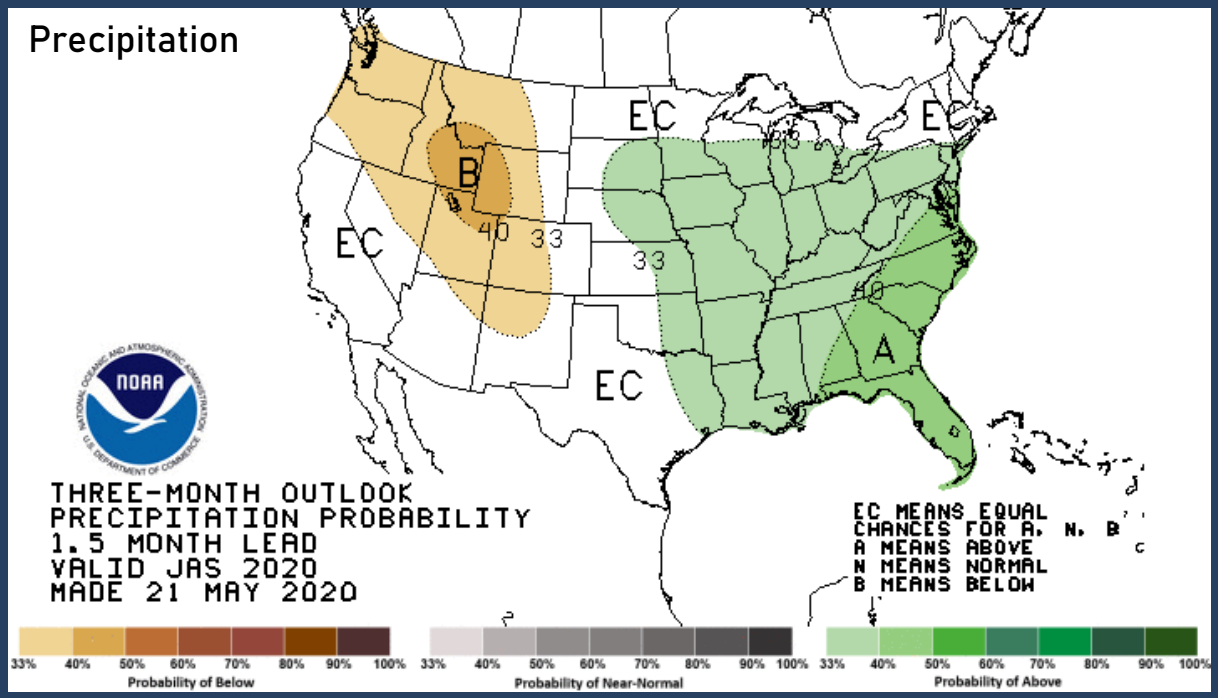
https://www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?t

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

Climate Prediction Center Outlook

July – Aug – Sep 2020

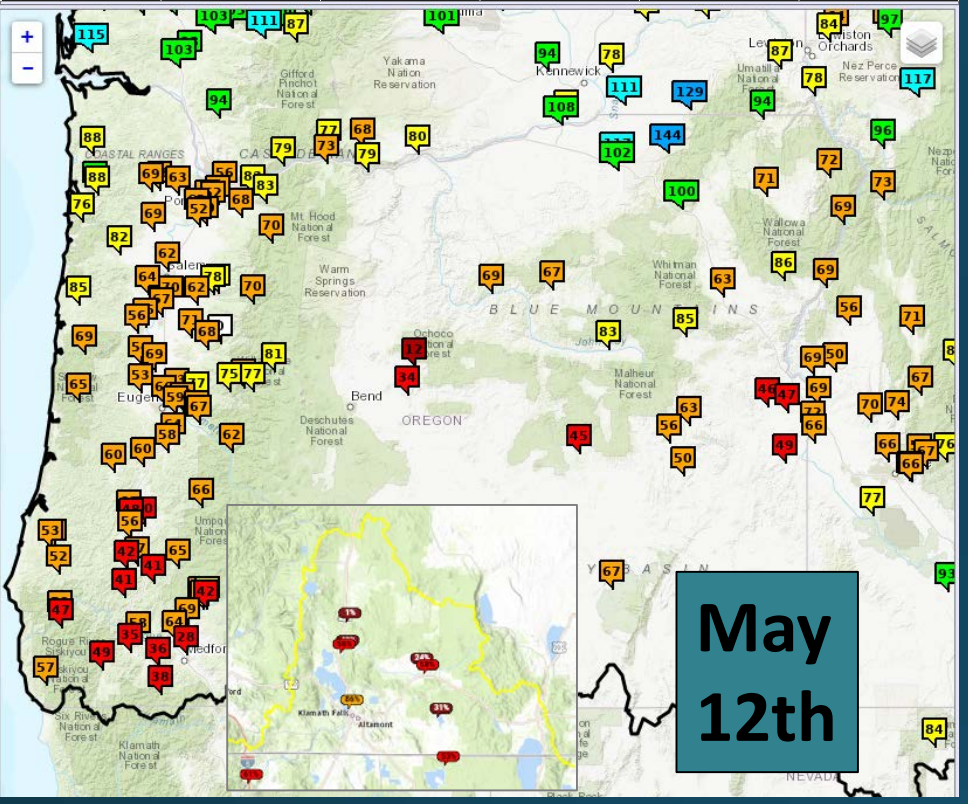




https://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=2

Northwest River Forecast Center
Observed Water Year Natural Runoff

River and Hydrology | Water Supply | Observations | Weather Forecasts | Climate | NWRFC



River and Hydrology | Water Supply | Observations | Weather Forecasts | Climate | NWRFC

Home | Zoom Out | --- Quick Zooms --- | ESP Issued: 2020-06-09 | Ensemble Date: 2020-06-09 | Permalink

Search
Enter NWS ID:
GO

Map Overlays
- [x] NWRFC Boundary
- [ ] NWRFC Basins
- [ ] NWS HSAs
- [ ] Counties

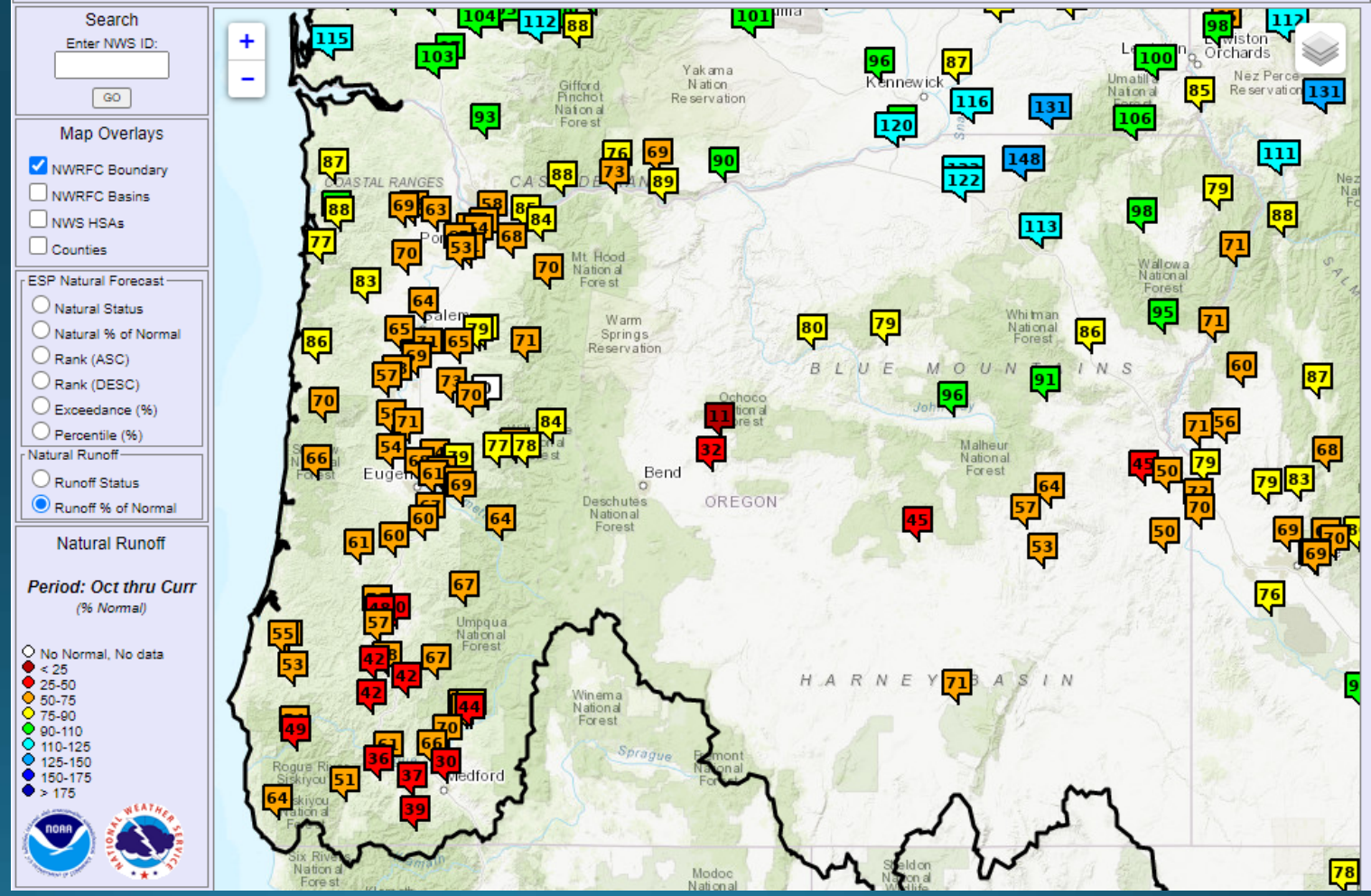
ESP Natural Forecast
- ( ) Natural Status
- ( ) Natural % of Normal
- ( ) Rank (ASC)
- ( ) Rank (DESC)
- ( ) Exceedance (%)
- ( ) Percentile (%)

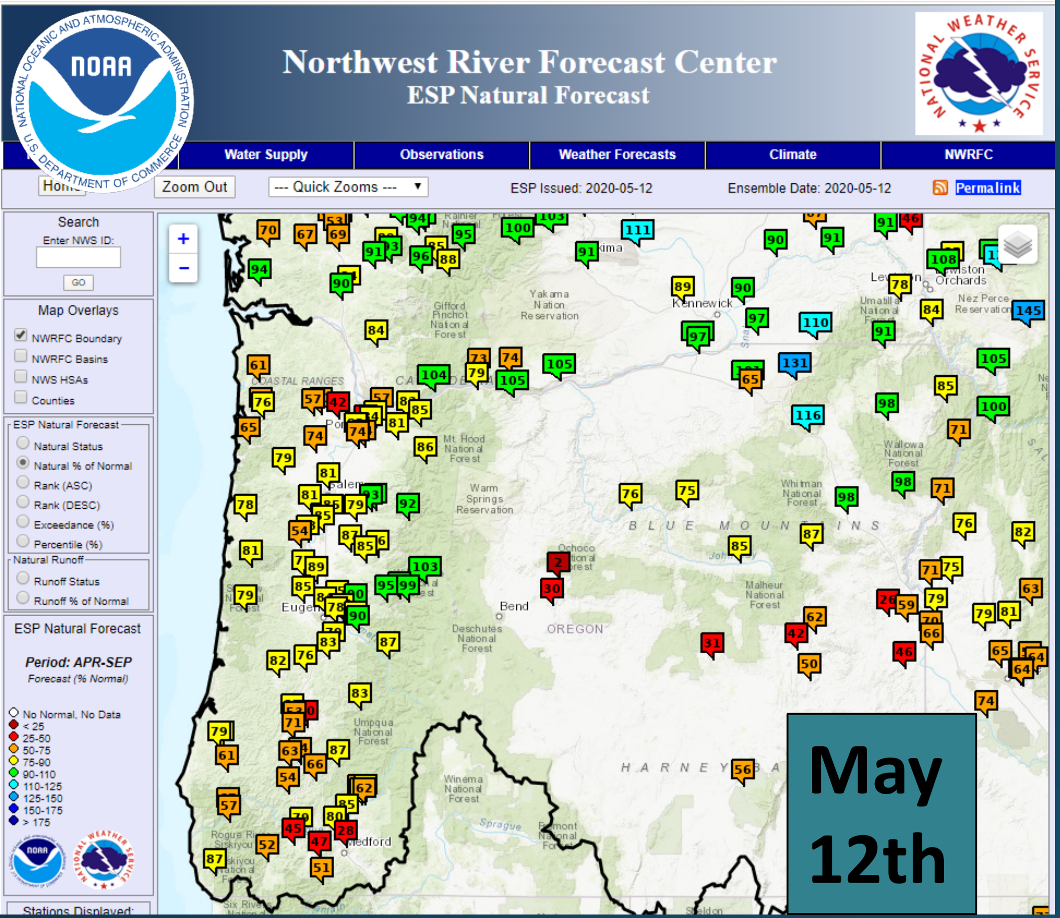
Natural Runoff
- ( ) Runoff Status
- (•) Runoff % of Normal

Natural Runoff

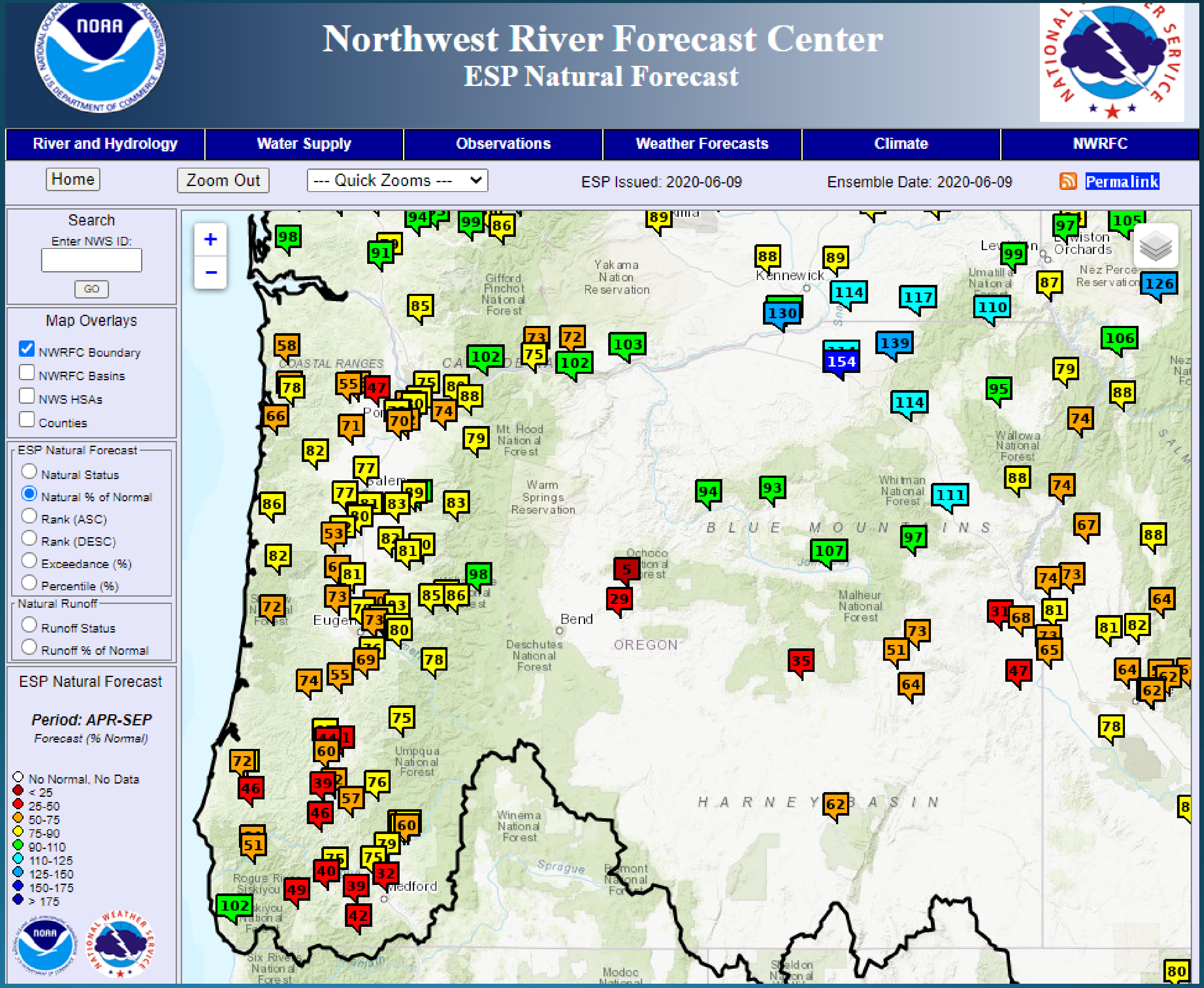
Period: Oct thru Curr
(% Normal)

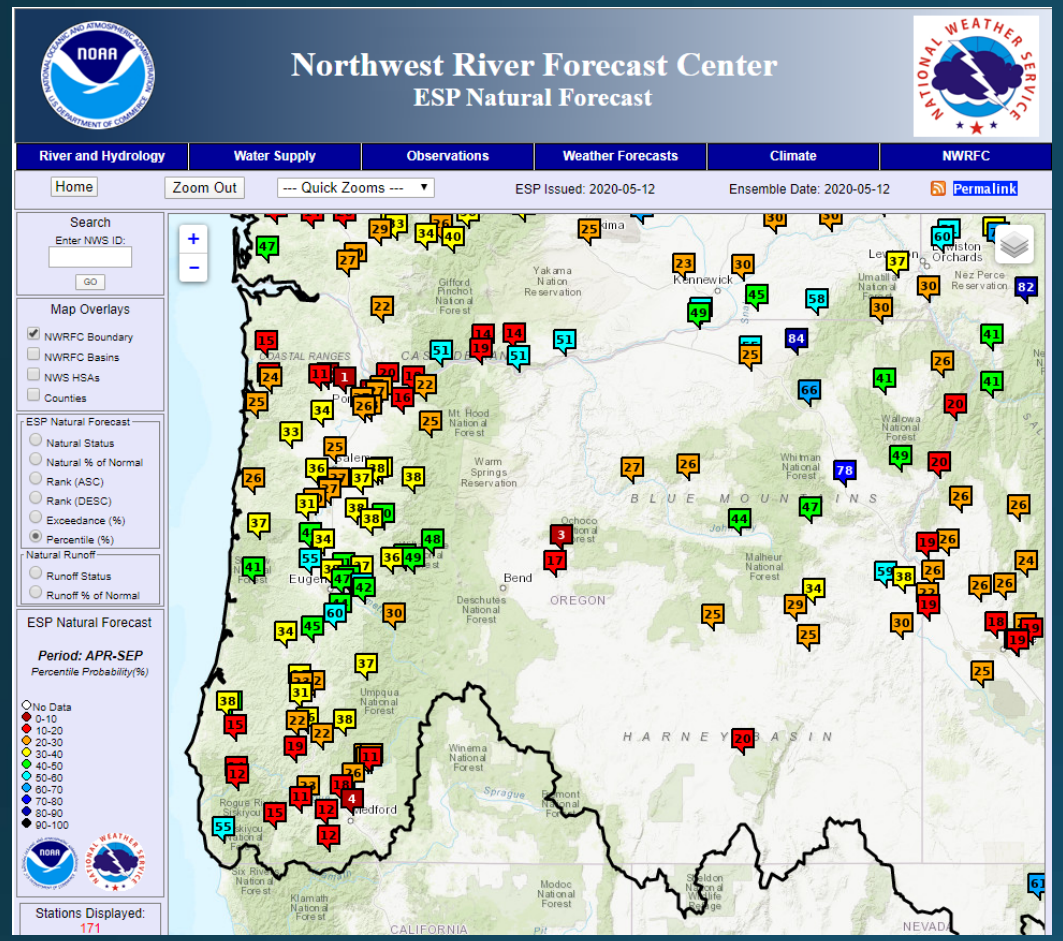
- No Normal, No data
- < 25
- 25-50
- 50-75
- 75-90
- 90-110
- 110-125
- 125-150
- 150-175
- > 175




Northwest River Forecast Center
ESP Natural Forecast
Water Supply
Observations
Weather Forecasts
Climate
NWRFC
Zoom Out
--- Quick Zooms ---
ESP Issued: 2020-05-12
Ensemble Date: 2020-05-12
Permalink
Search
Enter NWS ID:
Map Overlays
NWRFC Boundary
NWRFC Basins
NWS HSAs
Counties
ESP Natural Forecast
Natural Status
Natural % of Normal
Rank (ASC)
Rank (DESC)
Exceedance (%)
Percentile (%)
Natural Runoff
Runoff Status
Runoff % of Normal
ESP Natural Forecast
Period: APR-SEP
Forecast (% Normal)
No Normal, No Data
< 25
25-50
50-75
75-90
90-110
110-125
125-150
150-175
> 175
Stations Displayed:
OREGON
Bend
Kennewick
B L U E M O U N T A I N S
H A R N E Y

May 12th


Northwest River Forecast Center
ESP Natural Forecast
River and Hydrology
Water Supply
Observations
Weather Forecasts
Climate
NWRFC
Home
Zoom Out
--- Quick Zooms ---
ESP Issued: 2020-06-09
Ensemble Date: 2020-06-09
Permalink
Search
Enter NWS ID:
GO
Map Overlays
NWRFC Boundary
NWRFC Basins
NWS HSAs
Counties
ESP Natural Forecast
Natural Status
Natural % of Normal
Rank (ASC)
Rank (DESC)
Exceedance (%)
Percentile (%)
Natural Runoff
Runoff Status
Runoff % of Normal
ESP Natural Forecast
Period: APR-SEP
Forecast (% Normal)
No Normal, No Data
< 25
25-50
50-75
75-90
90-110
110-125
125-150
150-175
> 175
OREGON
Bend
Kennewick
B L U E M O U N T A I N S
H A R N E Y B A S I N


Northwest River Forecast Center
ESP Natural Forecast
River and Hydrology
Water Supply
Observations
Weather Forecasts
Climate
NWRFC
Home
Zoom Out
--- Quick Zooms ---
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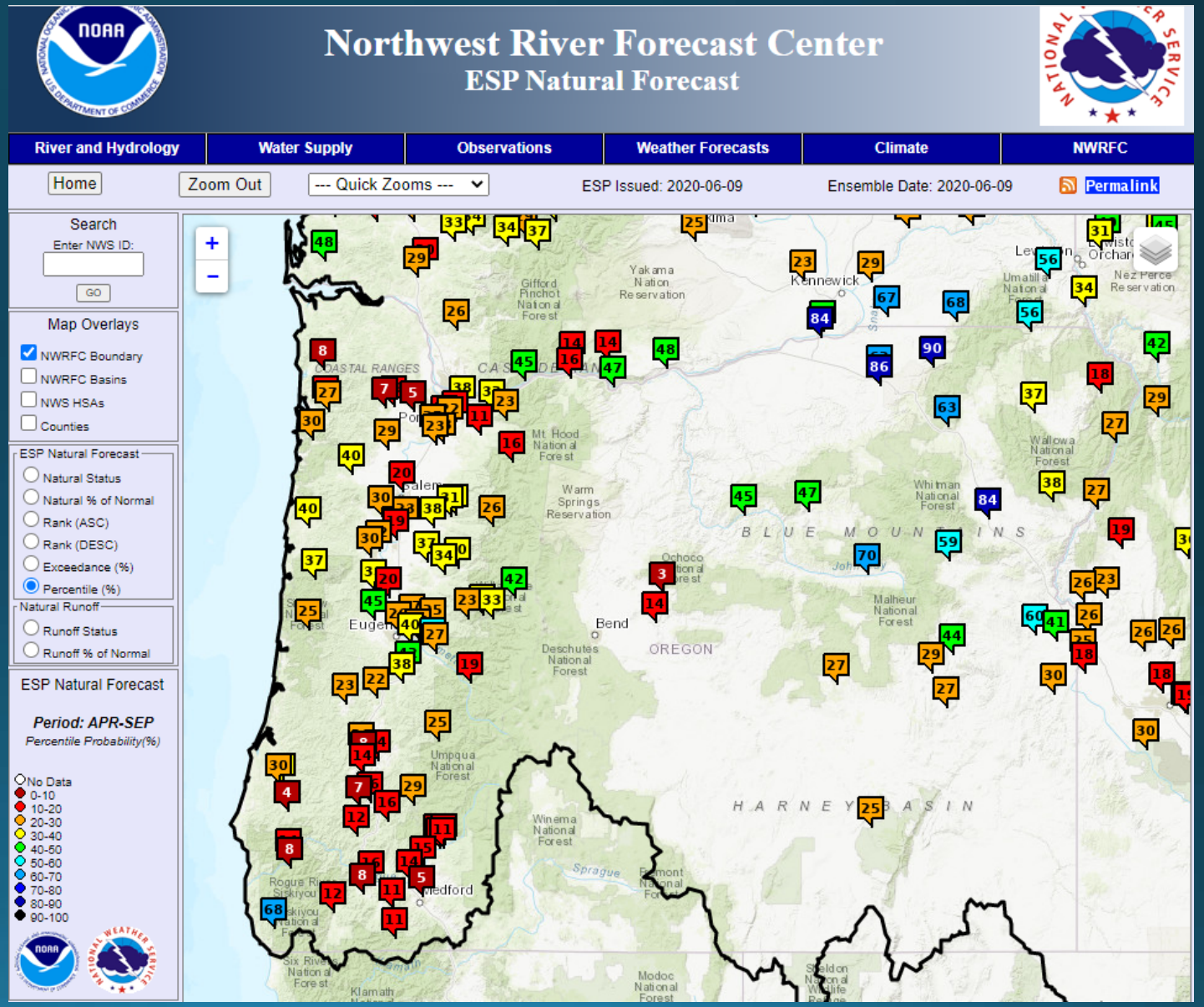
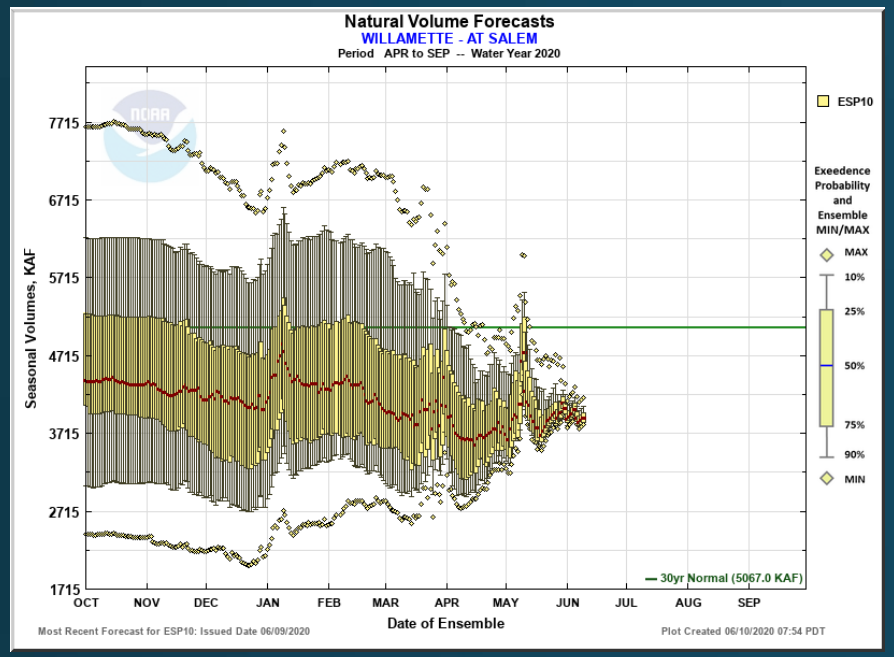
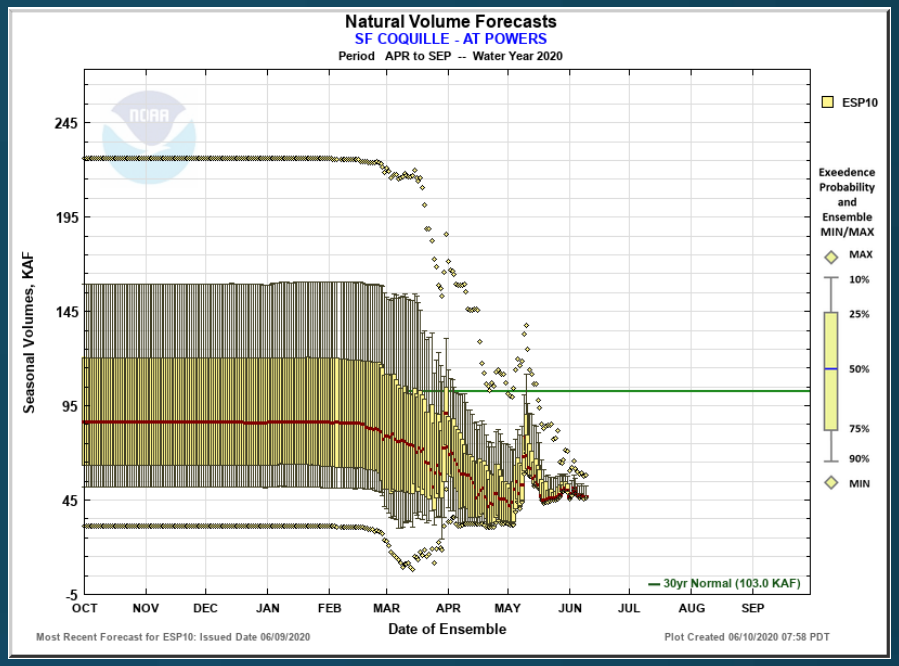
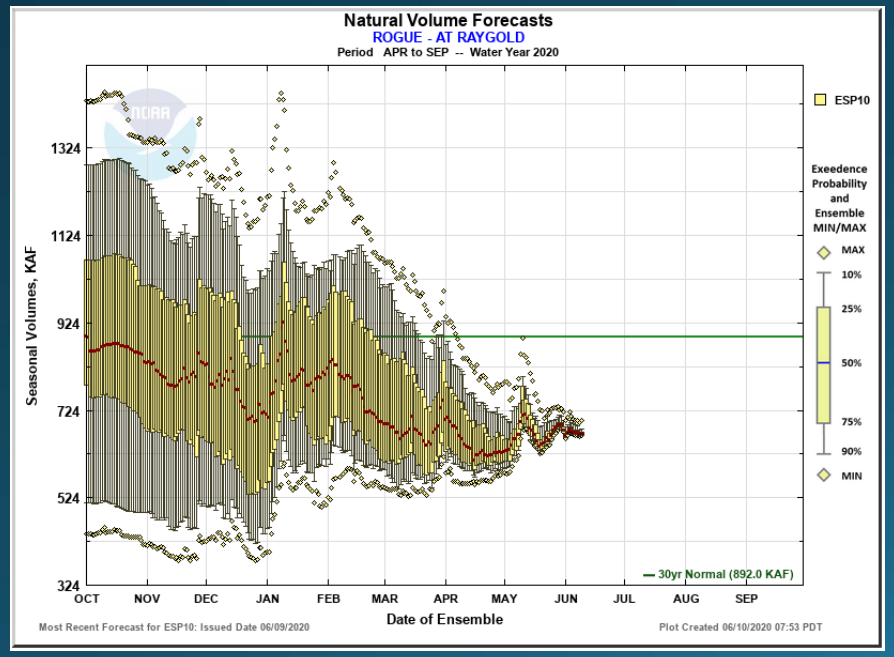
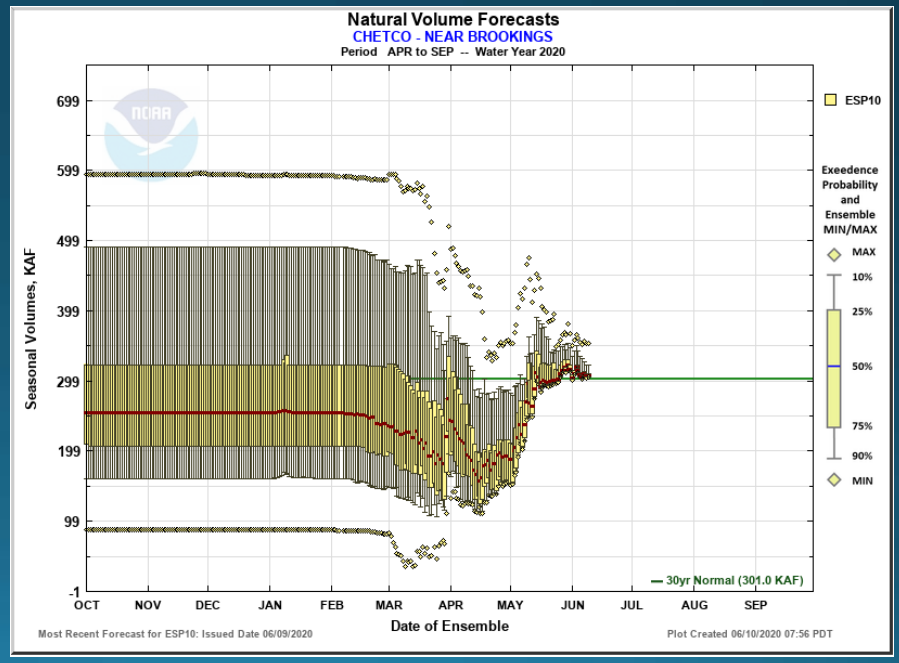
Ensemble Date: 2020-05-12
Permalink
Search
Enter NWS ID:
GO
Map Overlays
NWRFC Boundary
NWRFC Basins
NWS HSAs
Counties
ESP Natural Forecast
Natural Status
Natural % of Normal
Rank (ASC)
Rank (DESC)
Exceedance (%)
Percentile (%)
Natural Runoff
Runoff Status
Runoff % of Normal
ESP Natural Forecast
Period: APR-SEP
Percentile Probability(%)
No Data
0-10
10-20
20-30
30-40
40-50
50-60
60-70
70-80
80-90
90-100
Stations Displayed:
171
Bend
OREGON
HARNEY BASIN
BLUE MOUNTAINS
Eugene
Medford
CALIFORNIA
NEVADA

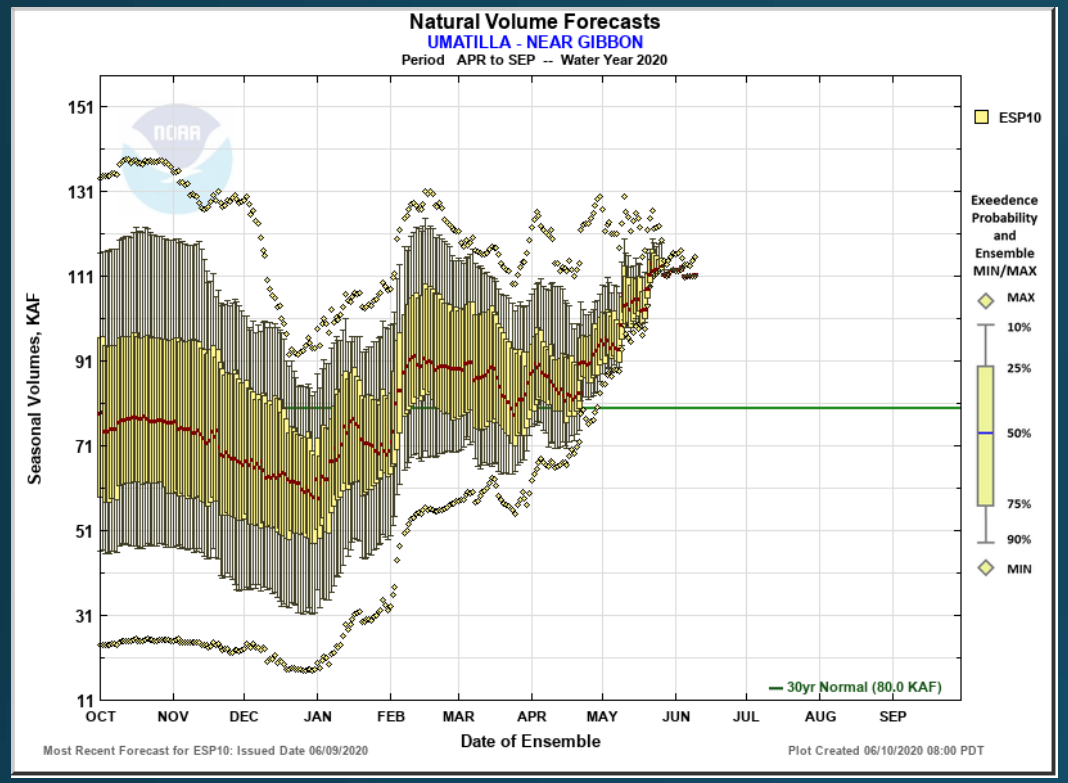

Northwest River Forecast Center
ESP Natural Forecast
River and Hydrology
Water Supply
Observations
Weather Forecasts
Climate
NWRFC
Home
Zoom Out
--- Quick Zooms ---
ESP Issued: 2020-06-09
Ensemble Date: 2020-06-09
Permalink
Search
Enter NWS ID:
GO
Map Overlays
NWRFC Boundary
NWRFC Basins
NWS HSAs
Counties
ESP Natural Forecast
Natural Status
Natural % of Normal
Rank (ASC)
Rank (DESC)
Exceedance (%)
Percentile (%)
Natural Runoff
Runoff Status
Runoff % of Normal
ESP Natural Forecast
Period: APR-SEP
Percentile Probability(%)
No Data
0-10
10-20
20-30
30-40
40-50
50-60
60-70
70-80
80-90
90-100
Bend
OREGON
HARNEY BASIN
BLUE MOUNTAINS
Eugene
Medford

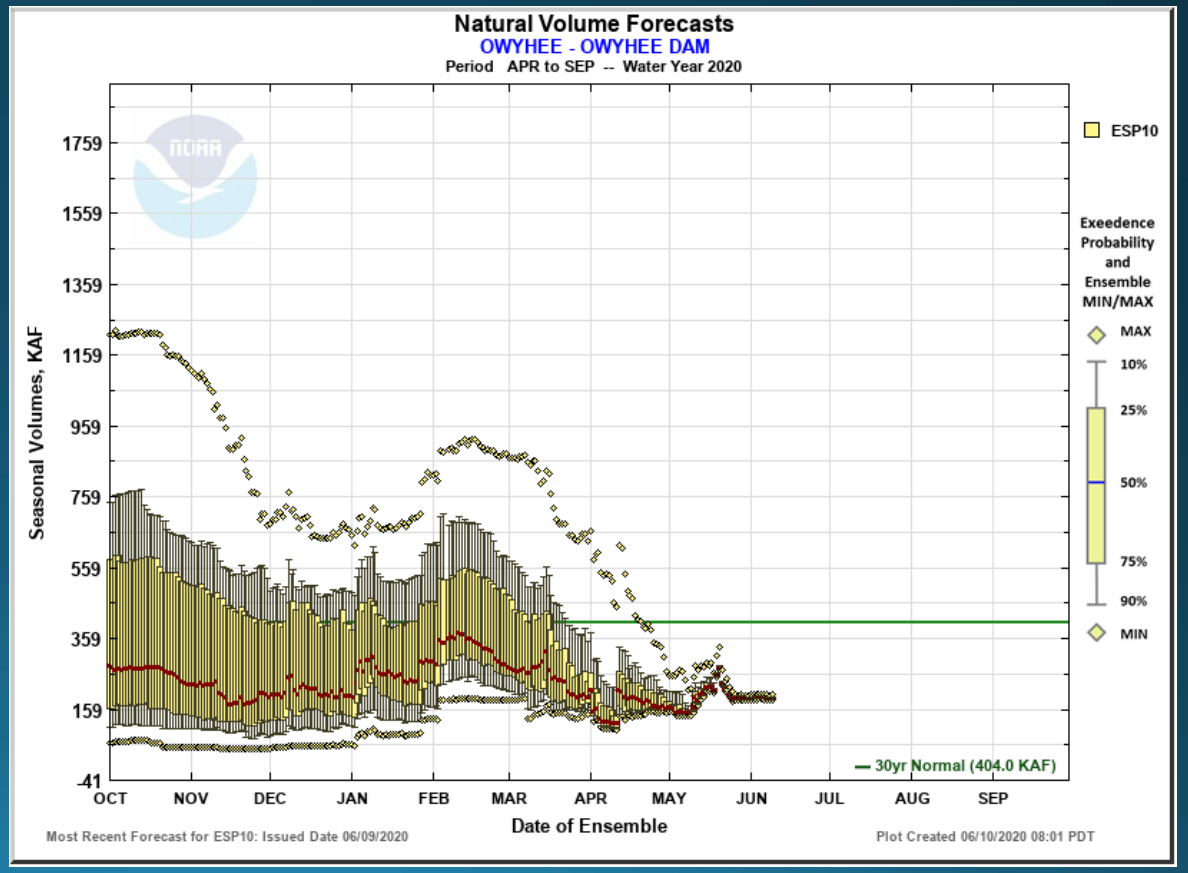

Natural Volume Forecasts
WILLAMETTE - AT SALEM
Period APR to SEP -- Water Year 2020
Seasonal Volumes, KAF
7715
6715
5715
4715
3715
2715
1715
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
Date of Ensemble
ESP10
Exeedence Probability and Ensemble MIN/MAX
MAX
10%
25%
50%
75%
90%
MIN
30yr Normal (5067.0 KAF)
Most Recent Forecast for ESP10: Issued Date 06/09/2020
Plot Created 06/10/2020 07:54 PDT


Natural Volume Forecasts
SF COQUILLE - AT POWERS
Period APR to SEP -- Water Year 2020
Seasonal Volumes, KAF
245
195
145
95
45
-5
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
Date of Ensemble
ESP10
Exeedence Probability and Ensemble MIN/MAX
MAX
10%
25%
50%
75%
90%
MIN
30yr Normal (103.0 KAF)
Most Recent Forecast for ESP10: Issued Date 06/09/2020
Plot Created 06/10/2020 07:58 PDT


Natural Volume Forecasts
ROGUE - AT RAYGOLD
Period APR to SEP -- Water Year 2020
Seasonal Volumes, KAF
1324
1124
924
724
524
324
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
Date of Ensemble
ESP10
Exeedence Probability and Ensemble MIN/MAX
MAX
10%
25%
50%
75%
90%
MIN
30yr Normal (892.0 KAF)
Most Recent Forecast for ESP10: Issued Date 06/09/2020
Plot Created 06/10/2020 07:53 PDT


Natural Volume Forecasts
CHETCO - NEAR BROOKINGS
Period APR to SEP -- Water Year 2020
Seasonal Volumes, KAF
699
599
499
399
299
199
99
-1
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
Date of Ensemble
ESP10
Exeedence Probability and Ensemble MIN/MAX
MAX
10%
25%
50%
75%
90%
MIN
30yr Normal (301.0 KAF)
Most Recent Forecast for ESP10: Issued Date 06/09/2020
Plot Created 06/10/2020 07:56 PDT

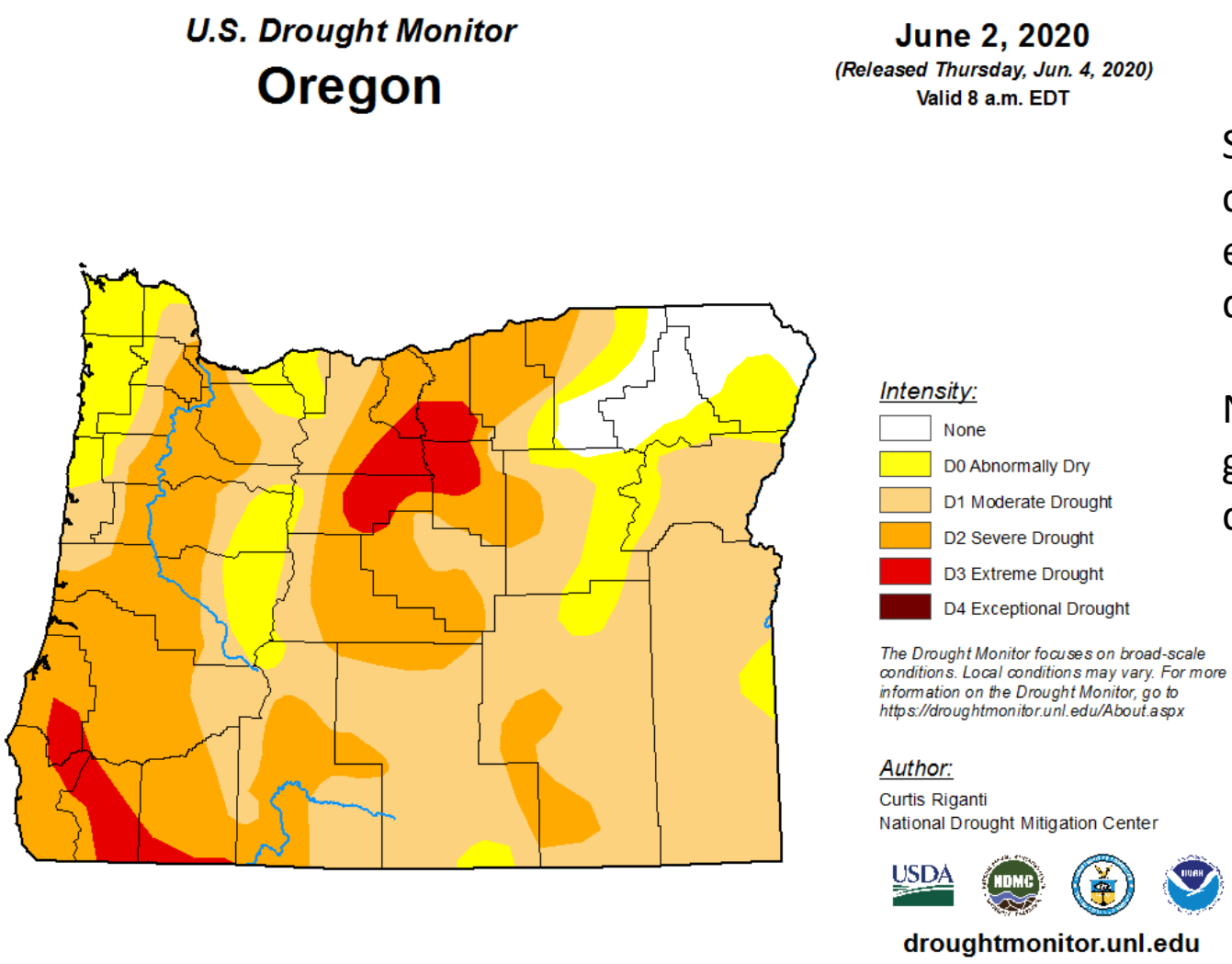

Natural Volume Forecasts
UMATILLA - NEAR GIBBON
Period APR to SEP -- Water Year 2020
Seasonal Volumes, KAF
151
131
111
91
71
51
31
11
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
Date of Ensemble
ESP10
Exeedence Probability and Ensemble MIN/MAX
MAX
10%
25%
50%
75%
90%
MIN
30yr Normal (80.0 KAF)
Most Recent Forecast for ESP10: Issued Date 06/09/2020
Plot Created 06/10/2020 08:00 PDT


Natural Volume Forecasts
OWYHEE - OWYHEE DAM
Period APR to SEP -- Water Year 2020
Seasonal Volumes, KAF
1759
1559
1359
1159
959
759
559
359
159
-41
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
Date of Ensemble
ESP10
Exeedence Probability and Ensemble MIN/MAX
MAX
10%
25%
50%
75%
90%
MIN
30yr Normal (404.0 KAF)
Most Recent Forecast for ESP10: Issued Date 06/09/2020
Plot Created 06/10/2020 08:01 PDT

Oregon WSAC Drought Monitor Update
June 2020

Larry O'Neill
Oregon State University
Oregon Climate Service
State Climatologist of Oregon

Current Drought Monitor status



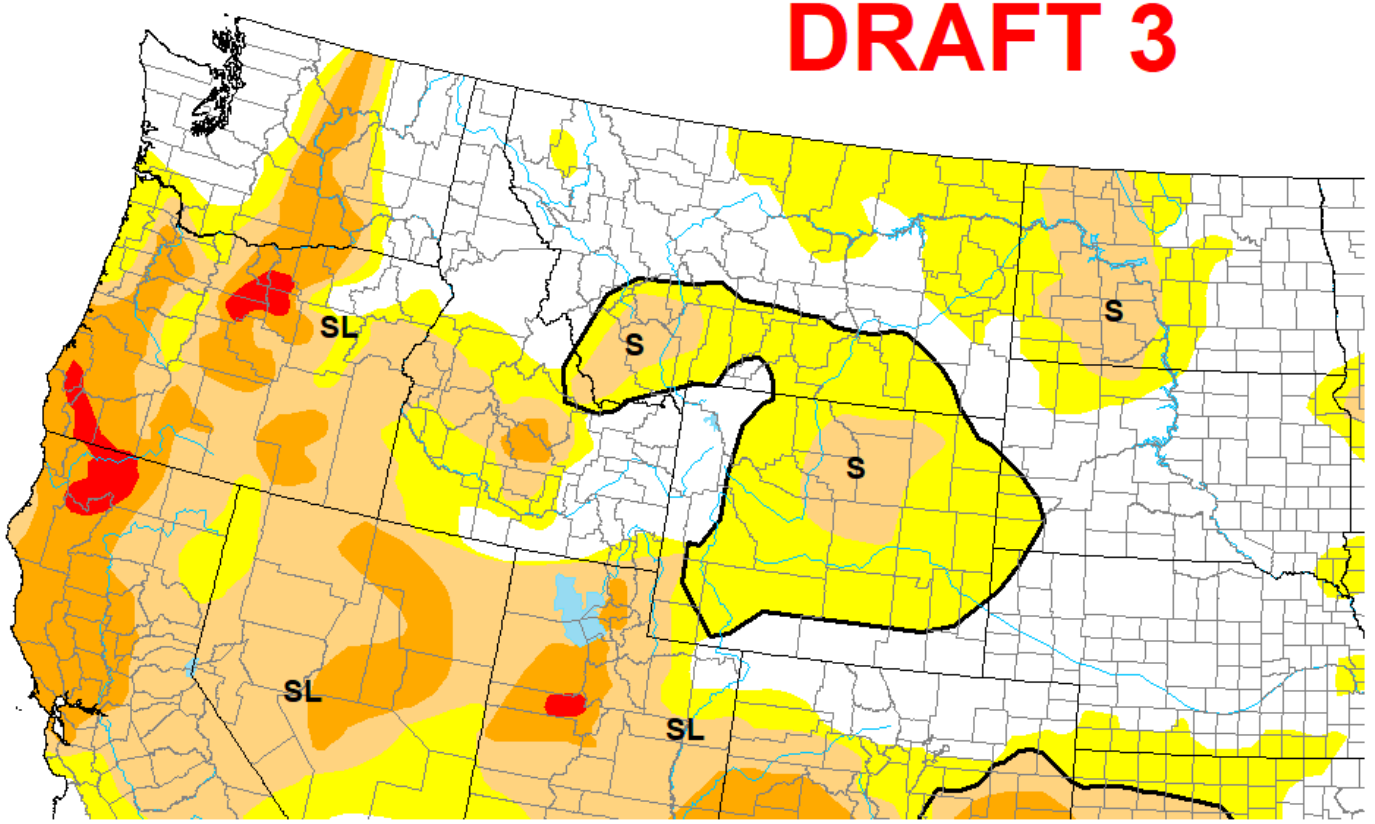
Sherman county is currently in severe-to-extreme drought designation

Note the north-south gradient in designation

U.S. Drought Monitor

June 09, 2020
Valid 8 a.m. EDT

DRAFT 3



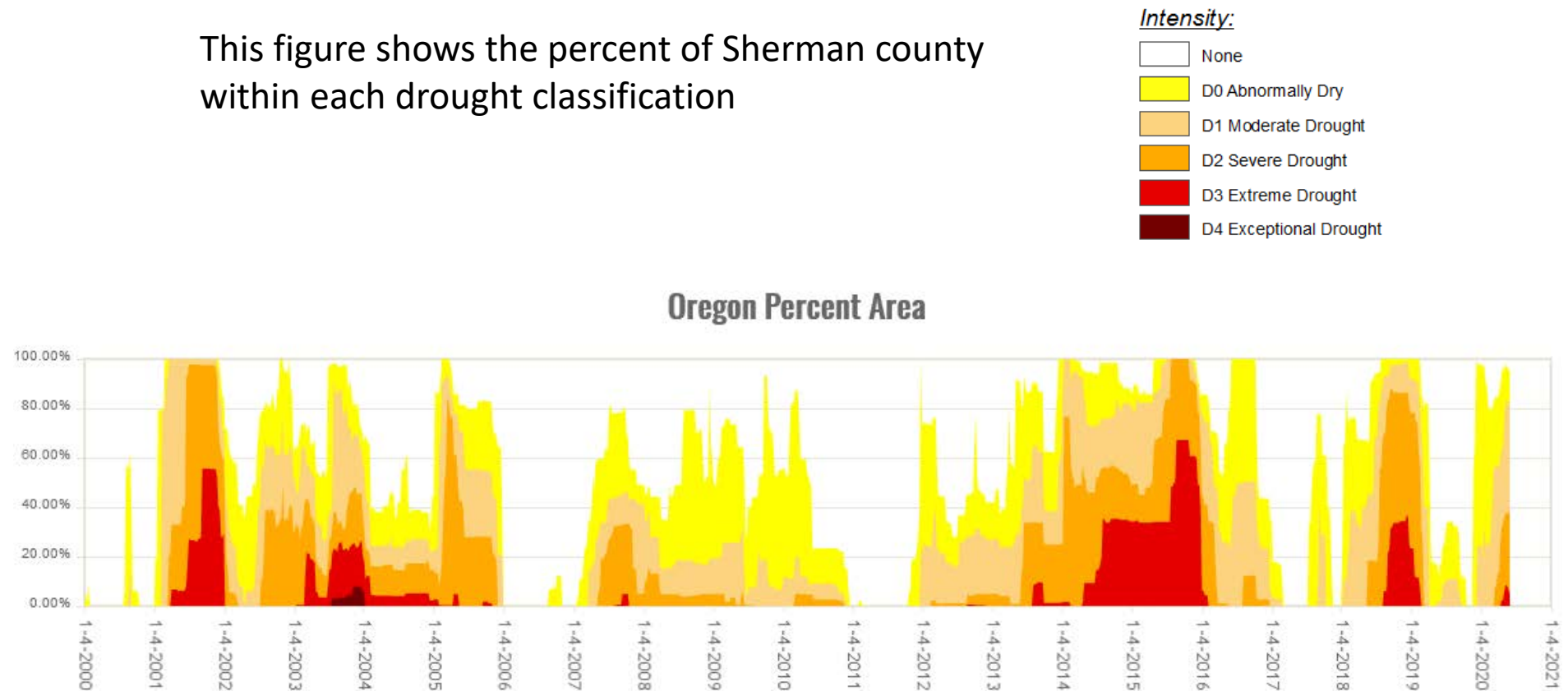
Intensity:
- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
L = Long-Term, typically >6 months (e.g. hydrology, ecology)

USDA National Drought Mitigation Center

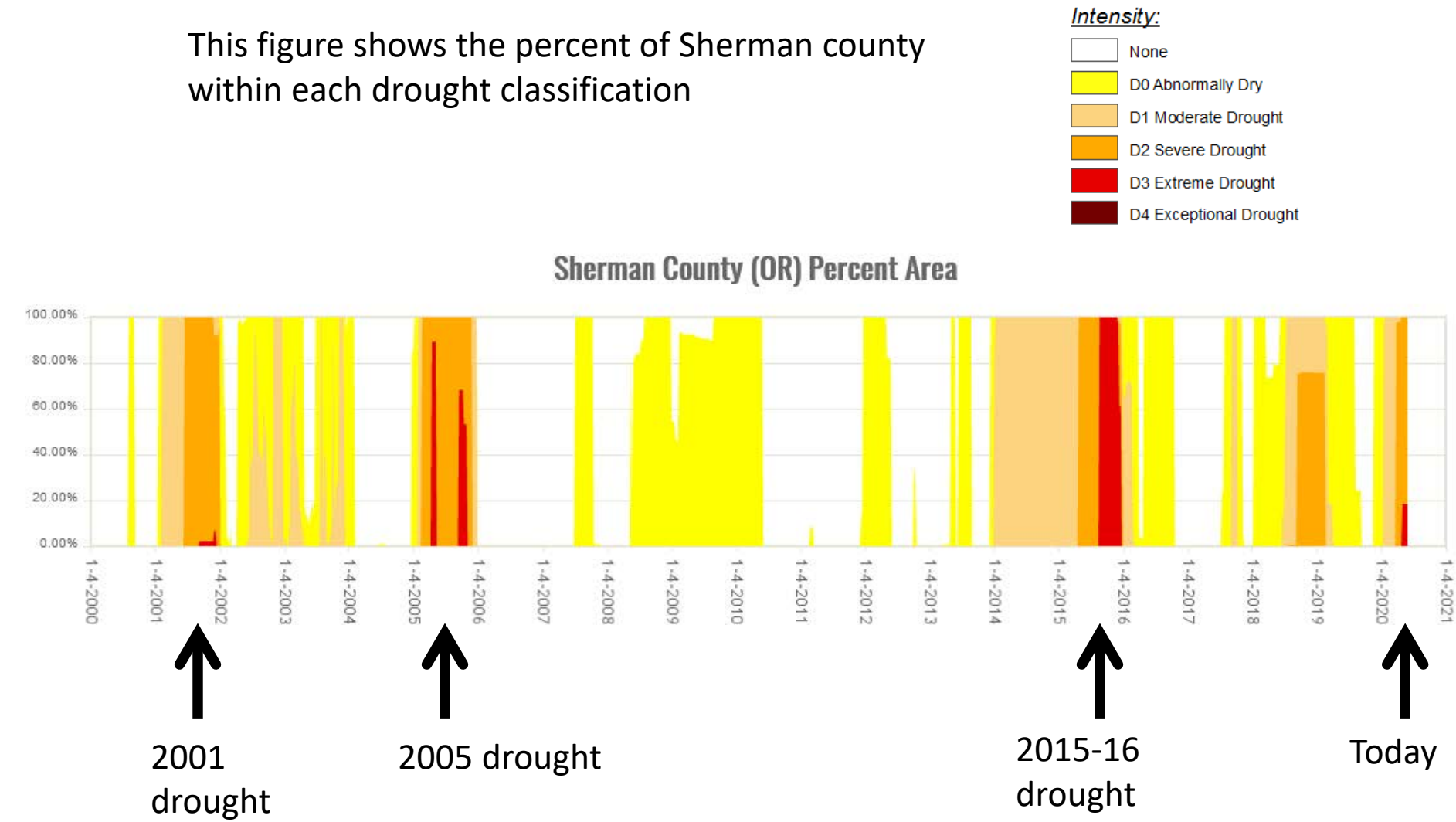
Drought Monitor Time Series for the State of Oregon

This figure shows the percent of Sherman county within each drought classification

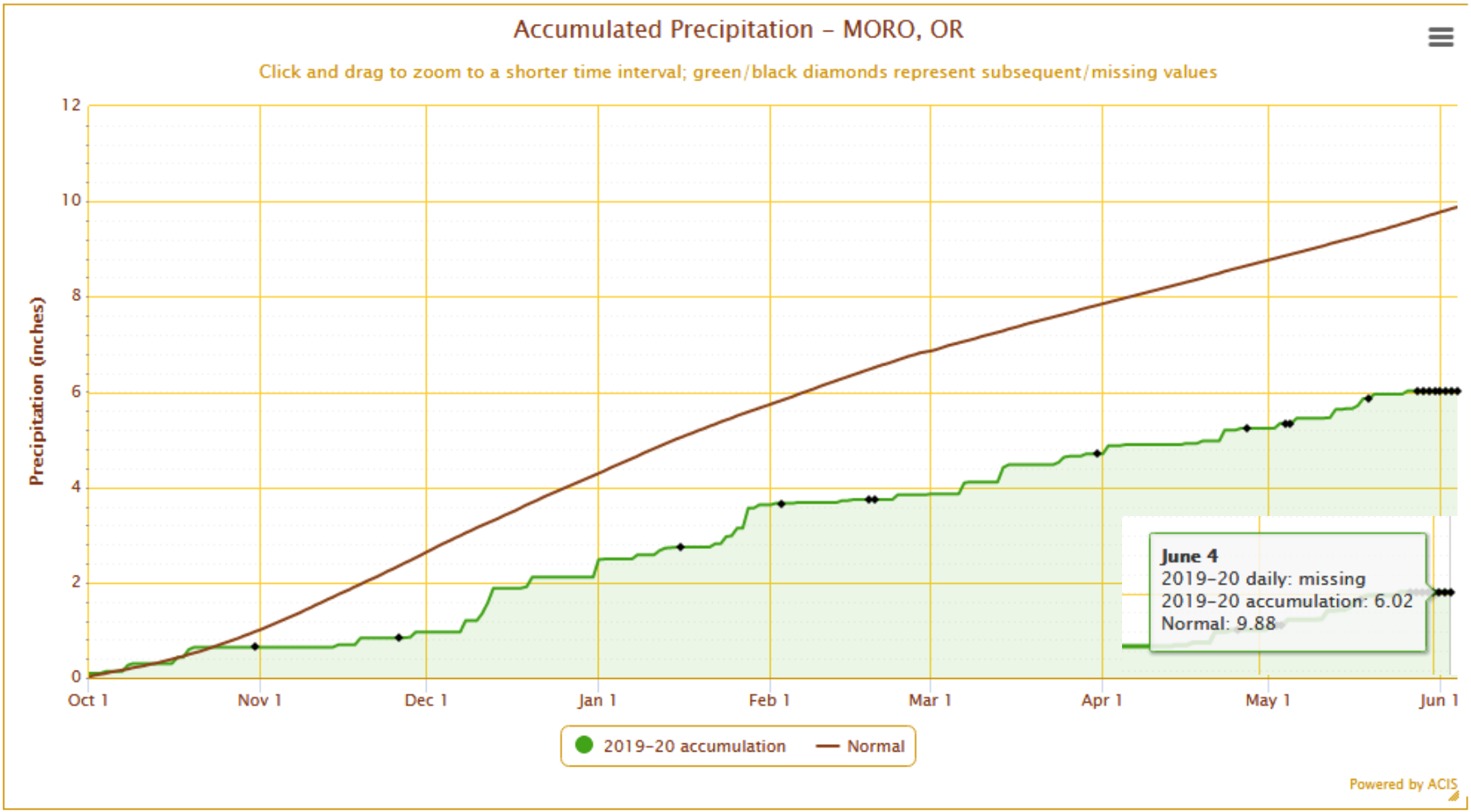


Drought Monitor Time Series for Sherman County, Oregon

This figure shows the percent of Sherman county within each drought classification

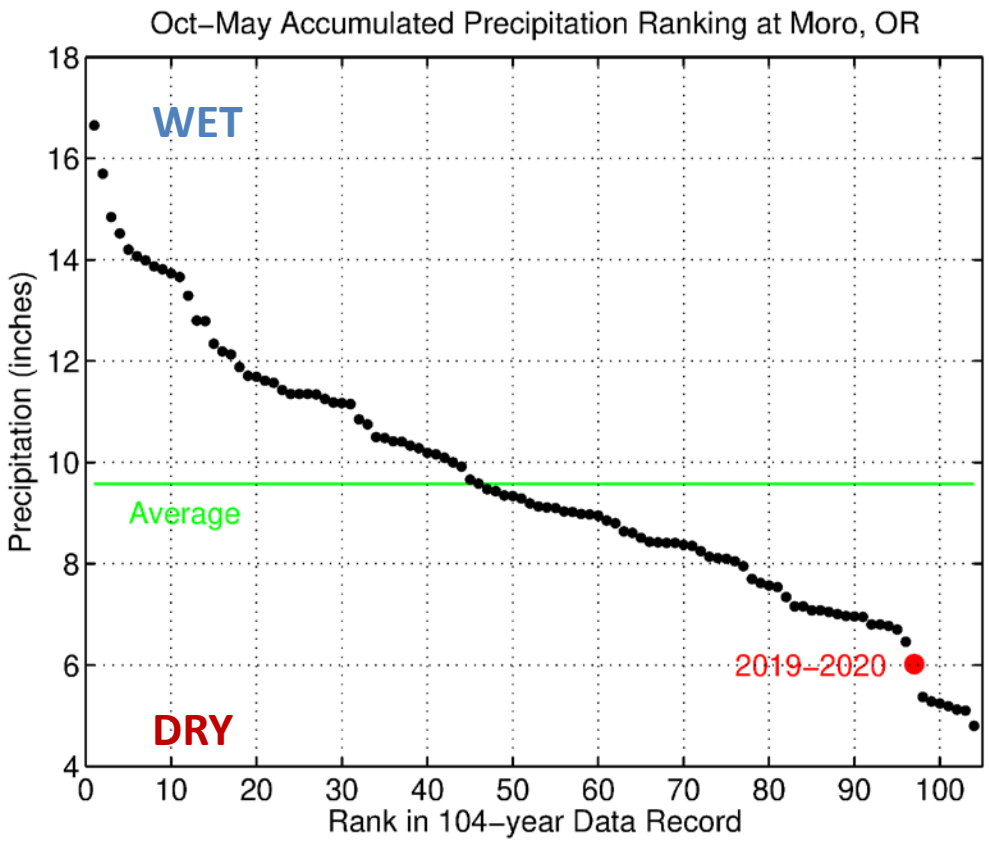


Moro, OR accumulated precipitation October 1, 2019-present

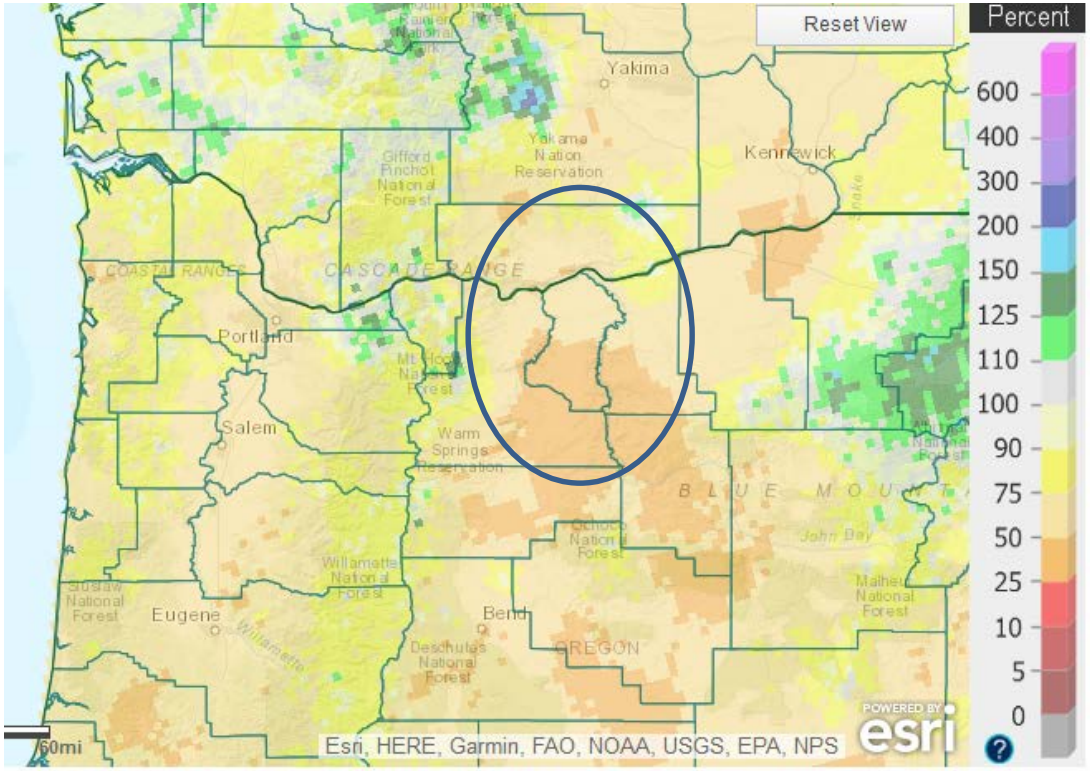


How does precipitation this water year compare with historical records?

Out of 104 years of precipitation records in Moro, OR, this water year (Oct-May) ranks as the 8th driest on record

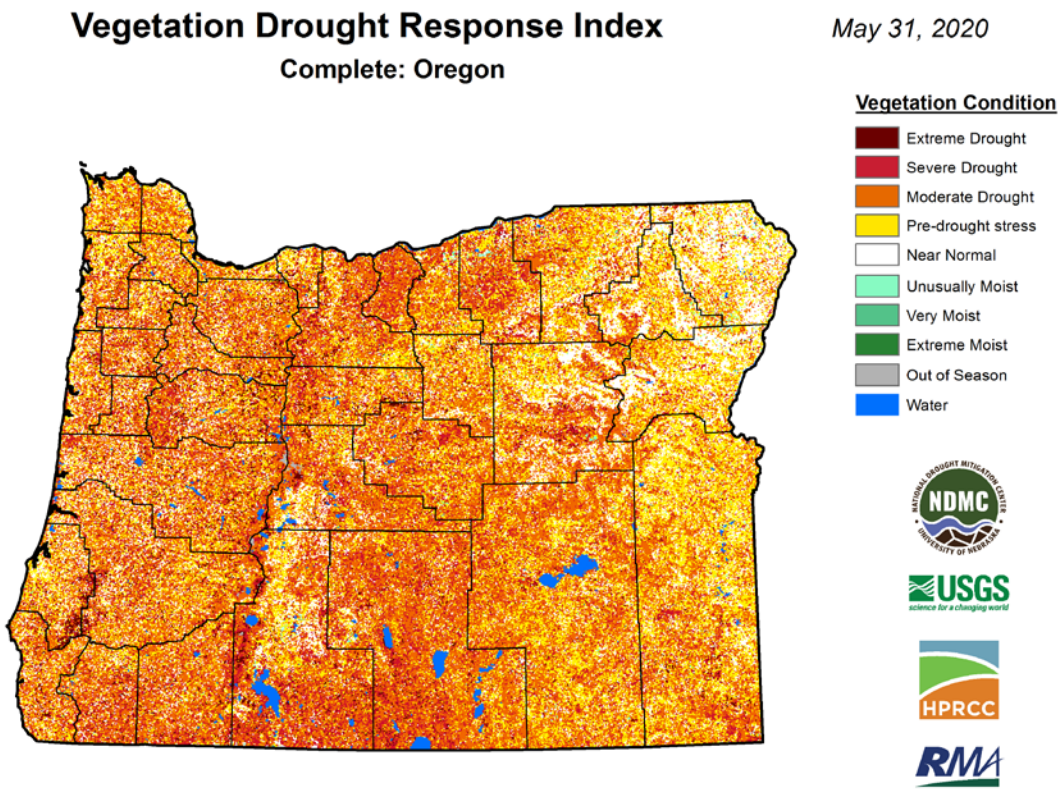


Precipitation
(percent of normal since October 1, 2019)



Southern Sherman county has received much less rain this year than the northern half (it has received less than half of normal amounts)

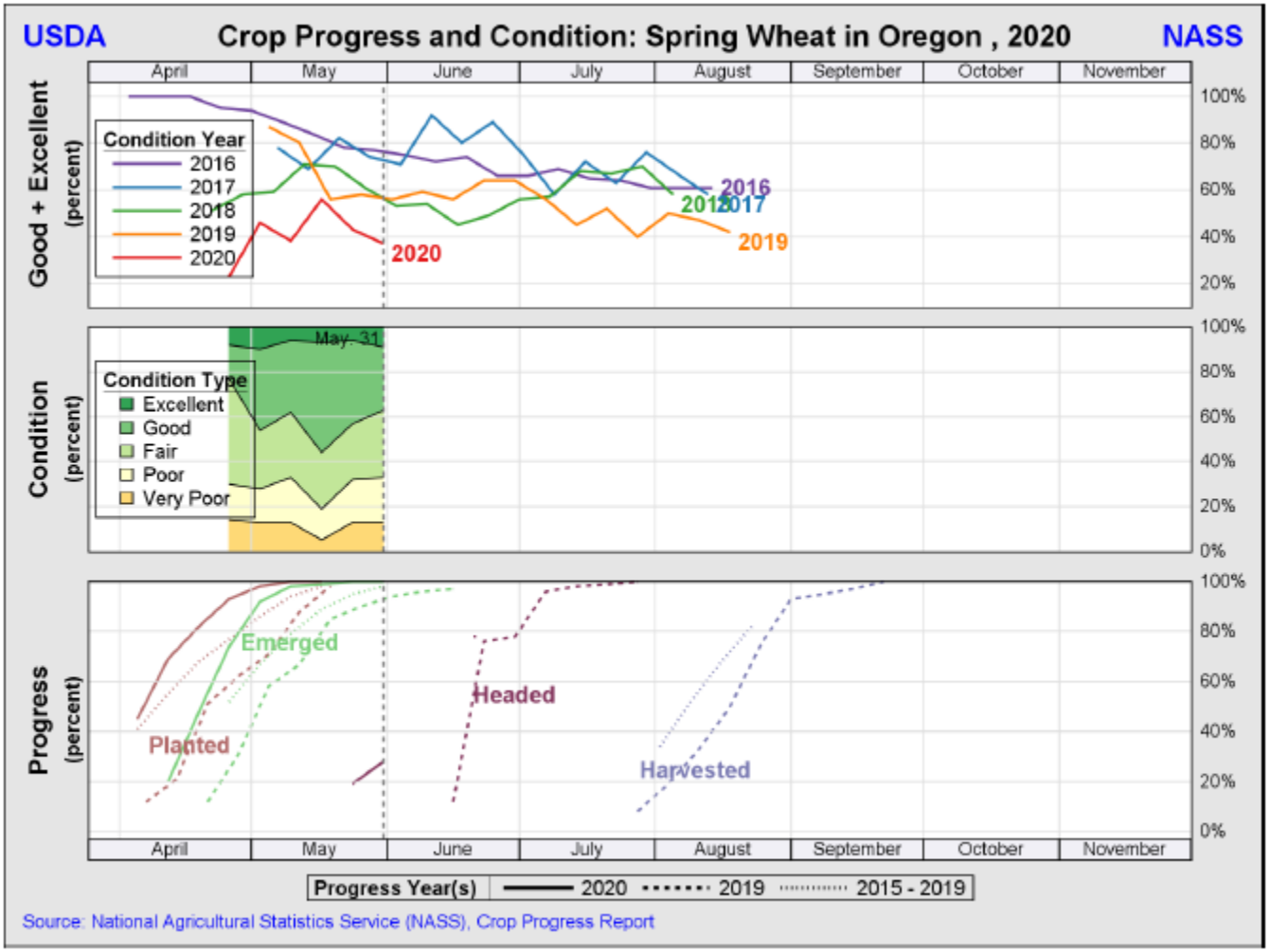
Vegetation health index



Red areas indicate places where vegetation is experiencing drought-like responses

Sherman county is currently in the moderate-to-severe category

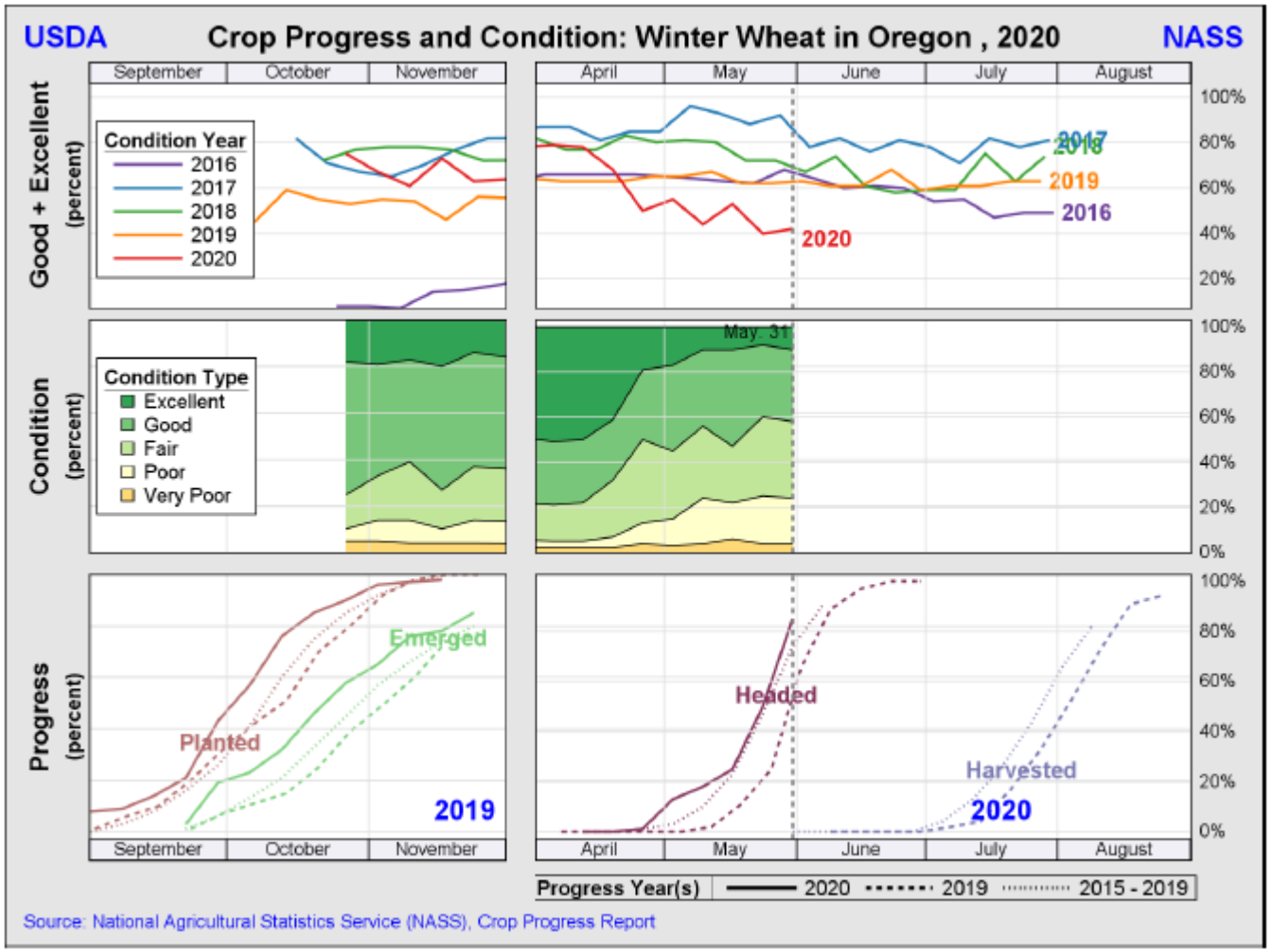
Spring Wheat conditions



Statewide summary of spring wheat conditions and comparison with previous years from the USDA

Currently, about only 40% of crop considered in excellent or good condition, which is much lower than previous years

Winter Wheat conditions



Statewide summary of winter wheat conditions and comparison with previous years from the USDA

Currently, about only 40% of crop considered in excellent or good condition, which is much lower than previous years

USGS
science for a changing world

Oregon Water Supply Availability Meeting

June 2020

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

USGS Update on Surface Water Conditions

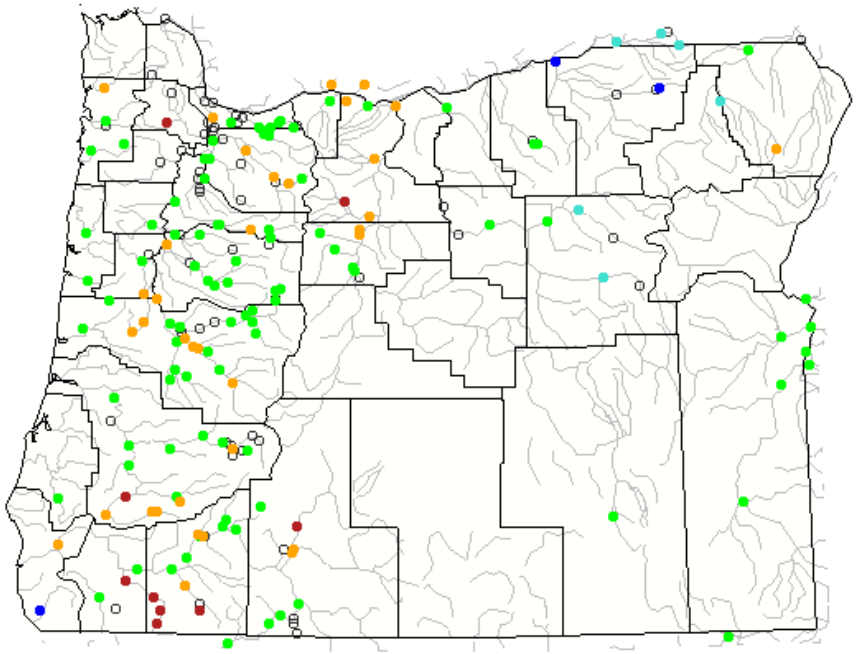
Carrie Boudreau & Marc Stewart
Oregon Water Science Center

Photo: Chris McWhorter, USGS gage 14070900

Monthly Average Streamflow

(as compared to Historical Record)

May 2020



USGS

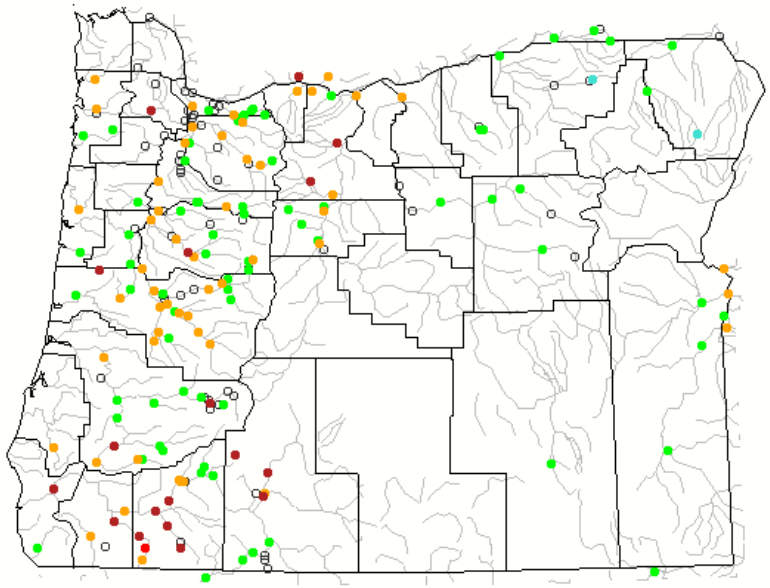
Search USGS streamgage

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

April 2020

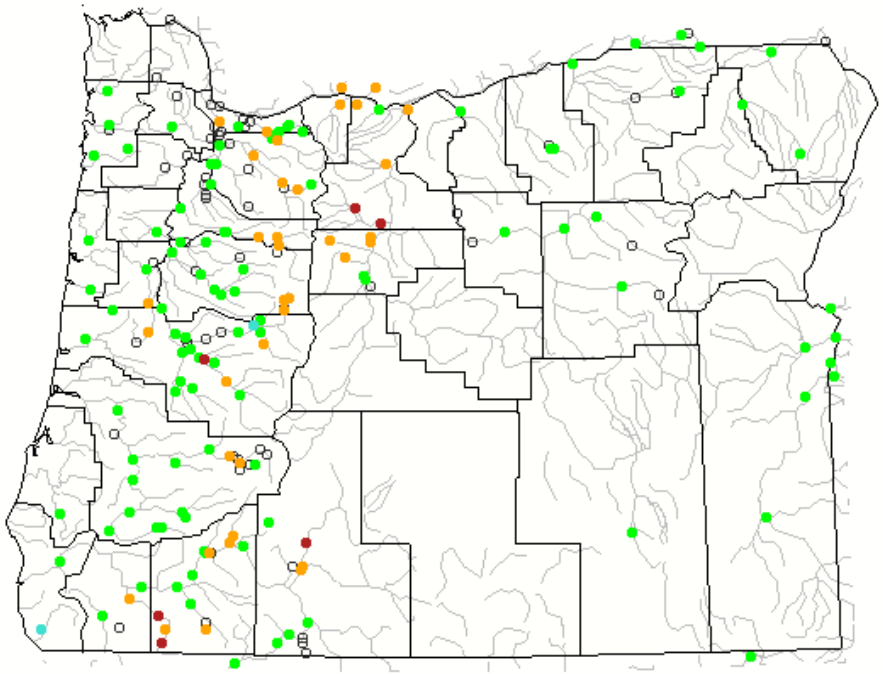


USGS

USGS

7-day Average Streamflow

(as compared to Historical Record)



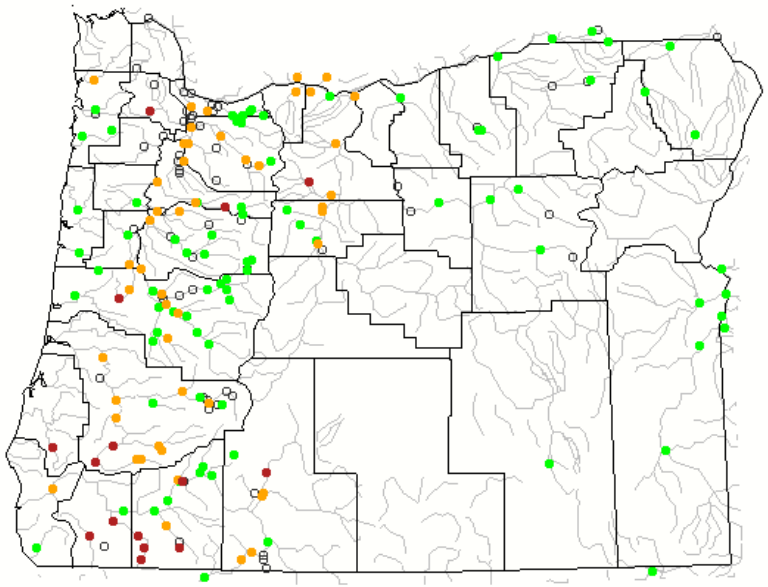
USGS

Search USGS streamgage

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

List of all stations | Single station | Nearest stations

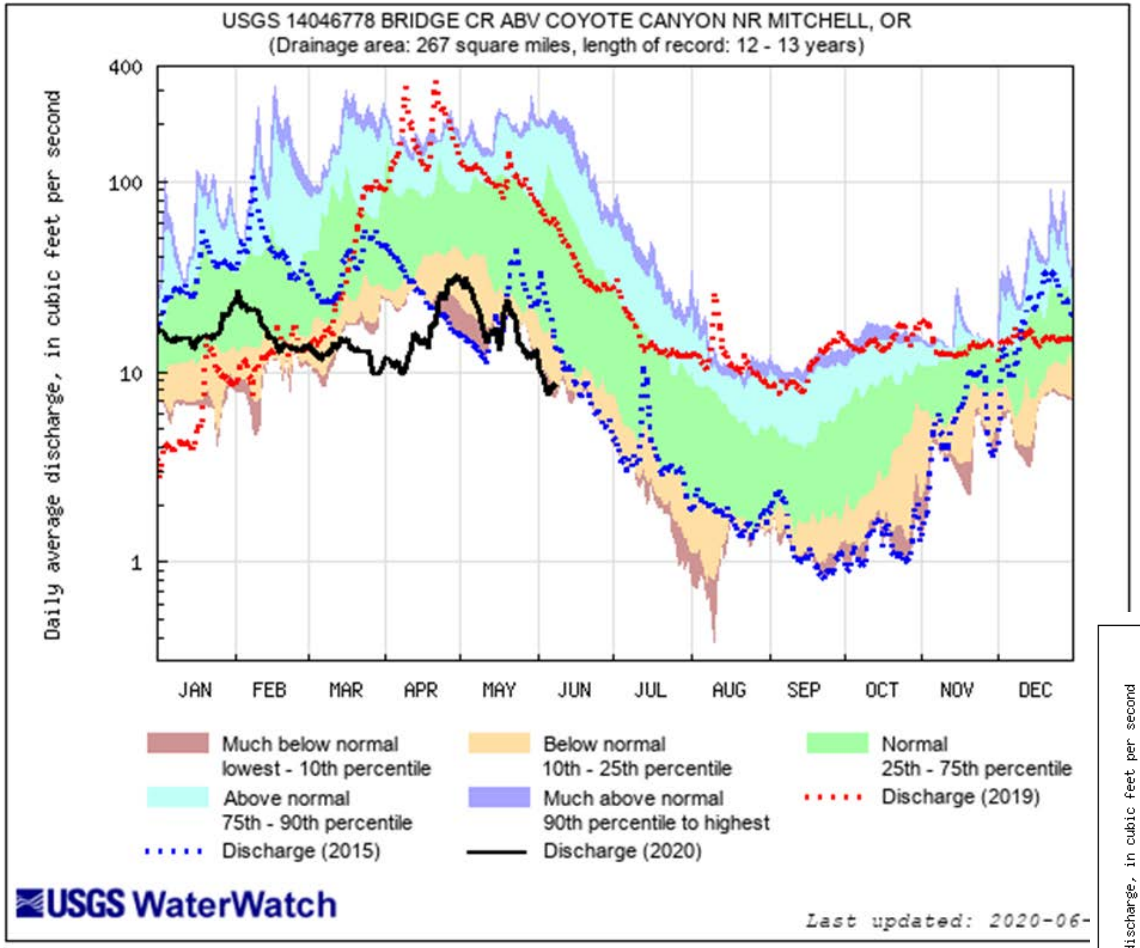
Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked



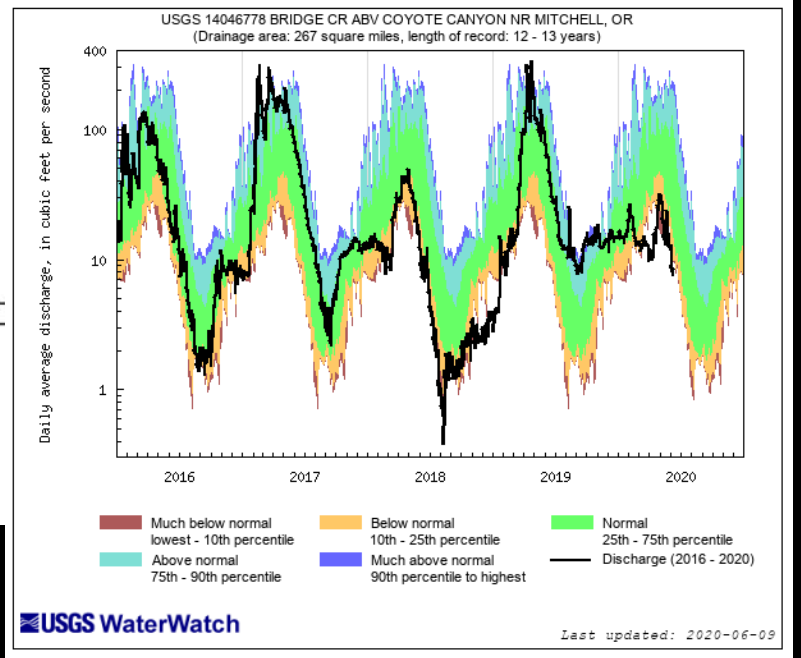
USGS

USGS

14046778 Bridge Cr abv Coyote Canyon



Wheeler Co., near Jefferson Co.

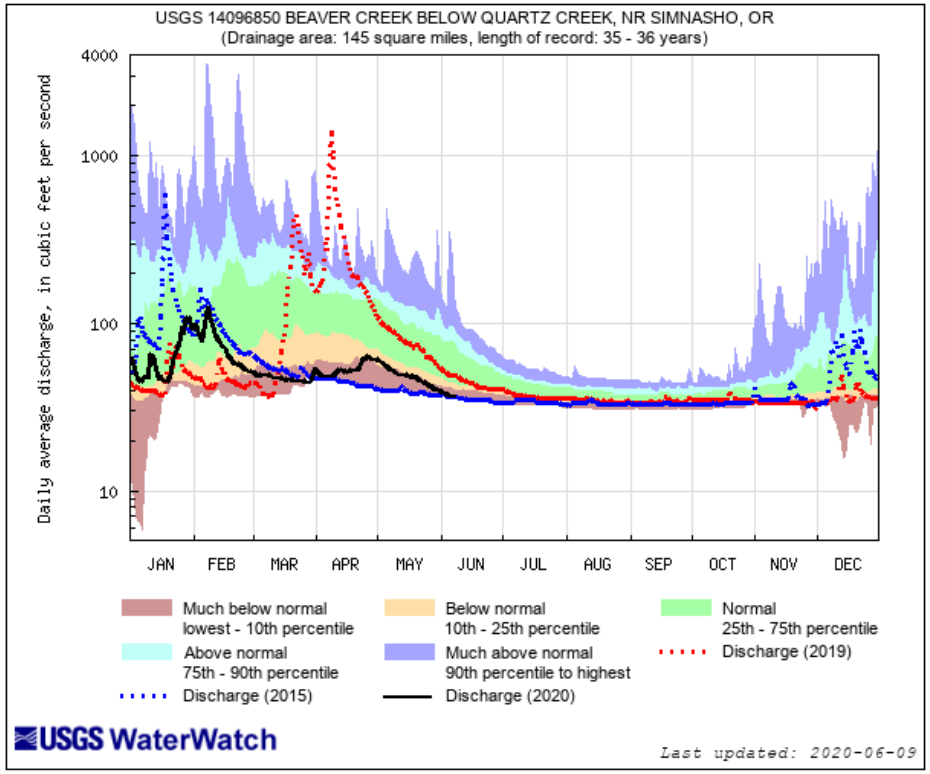


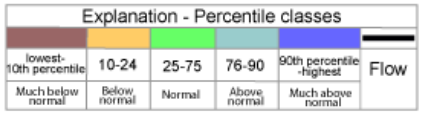
Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

USGS

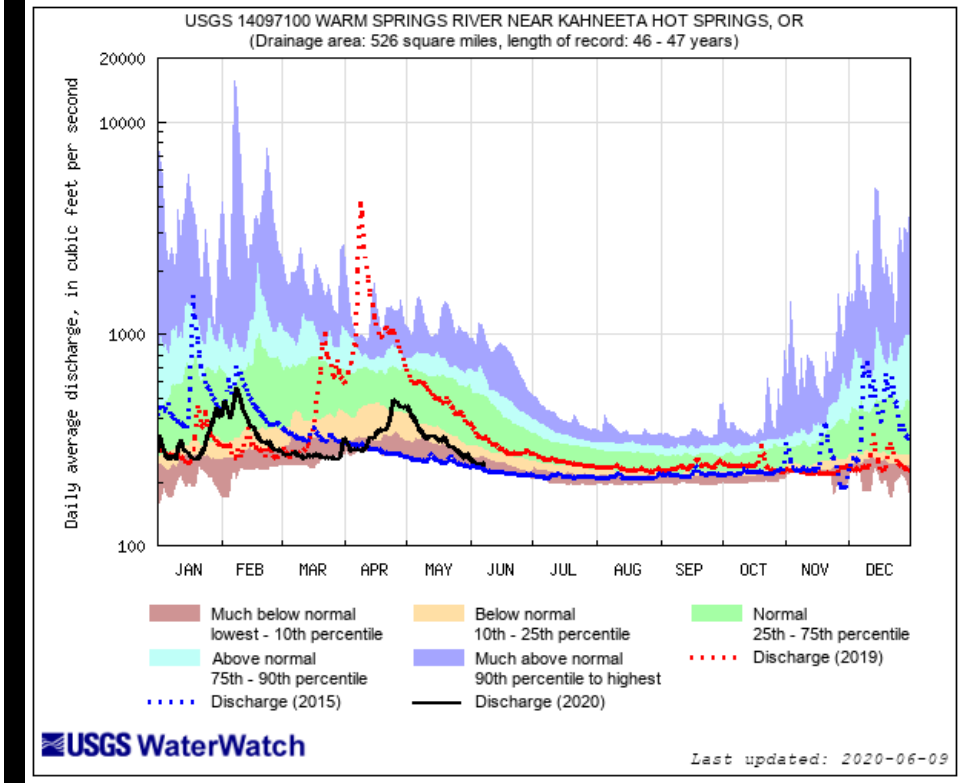
Wasco County

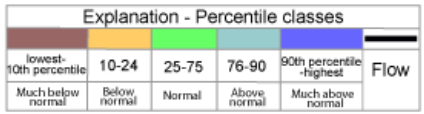
14096850 Beaver Cr blw Quartz Cr, nr Shimnasho, OR





14097100 Warm Springs R nr Kahneeta Hot Springs, OR

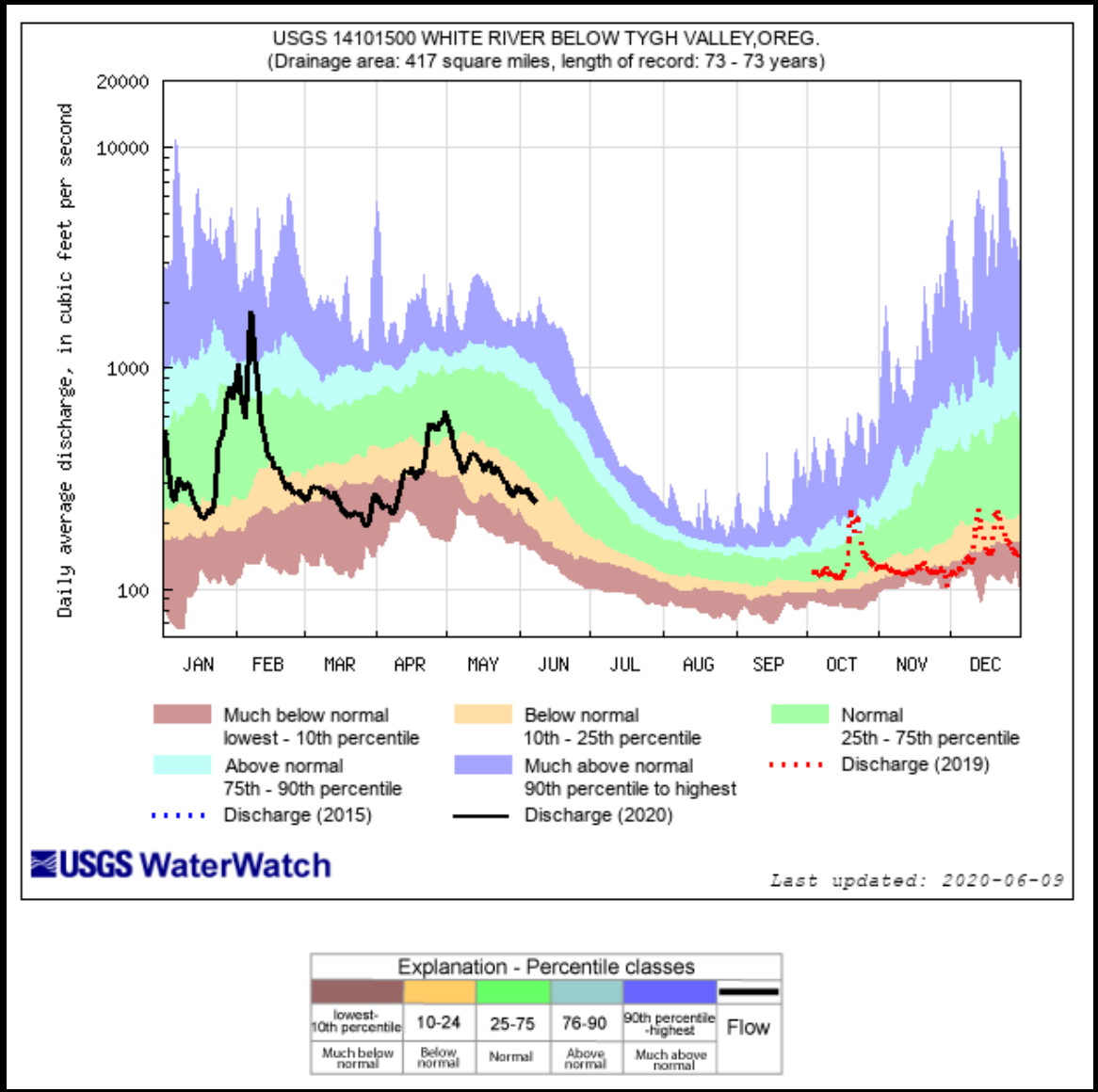




USGS

14101500 White R blw Tygh Valley, OR

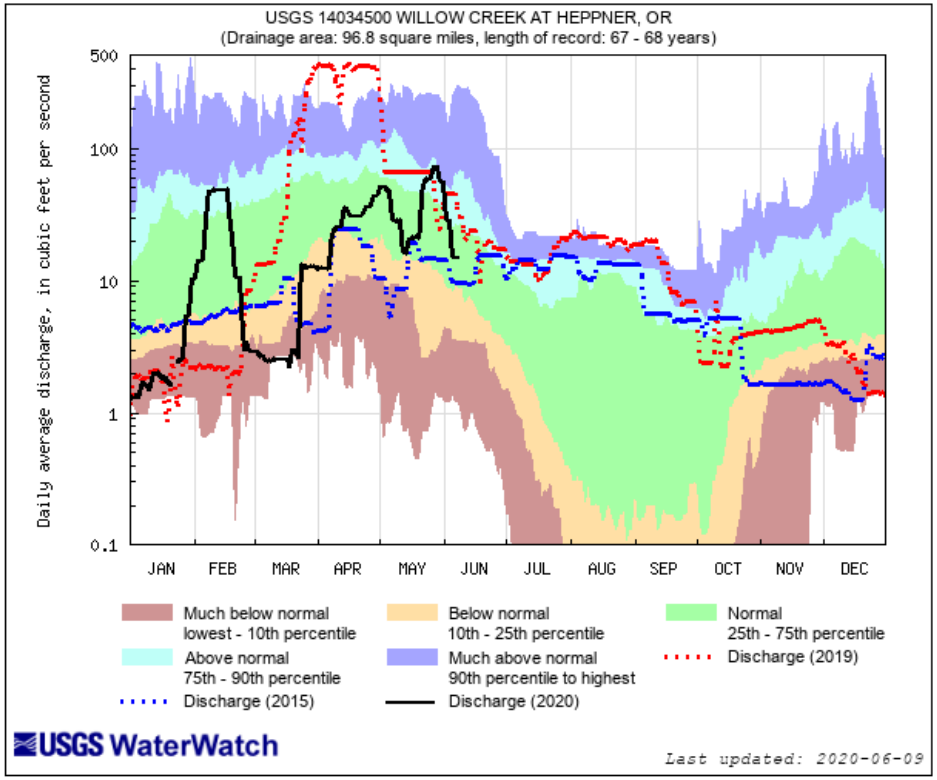
Wasco Co., near Sherman Co.

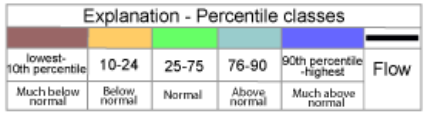


USGS

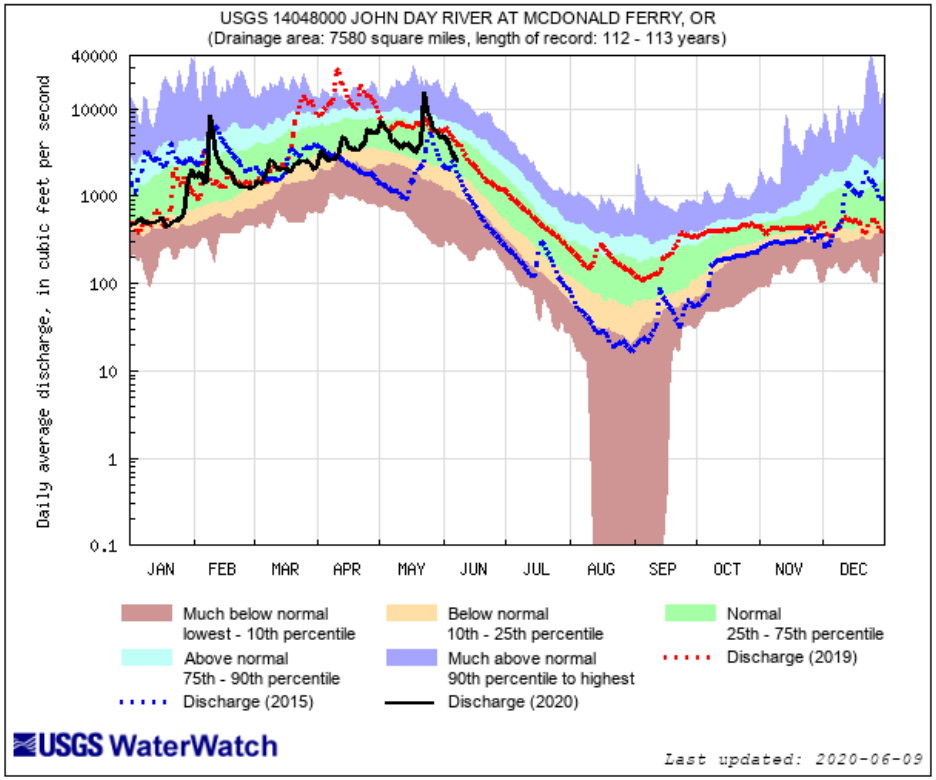
Gilliam County

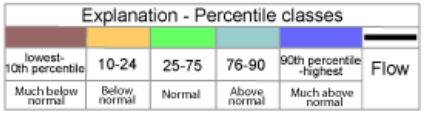
14034500 Willow Creek at Hepner, OR
(Morrow Co., near Gilliam Co.)





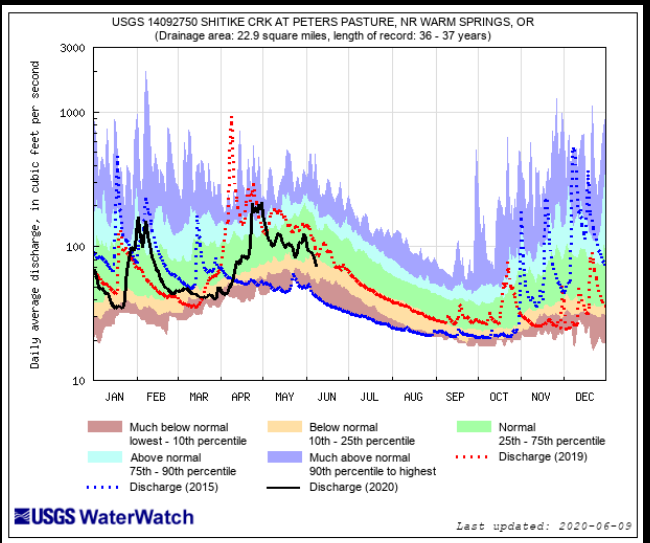
14048000 John Day R at McDonald Ferry, OR
(Sherman Co., near Gilliam Co.)



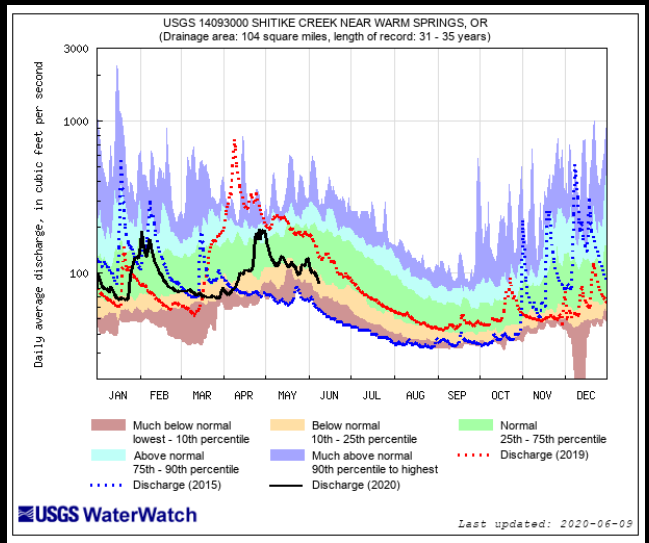


USGS

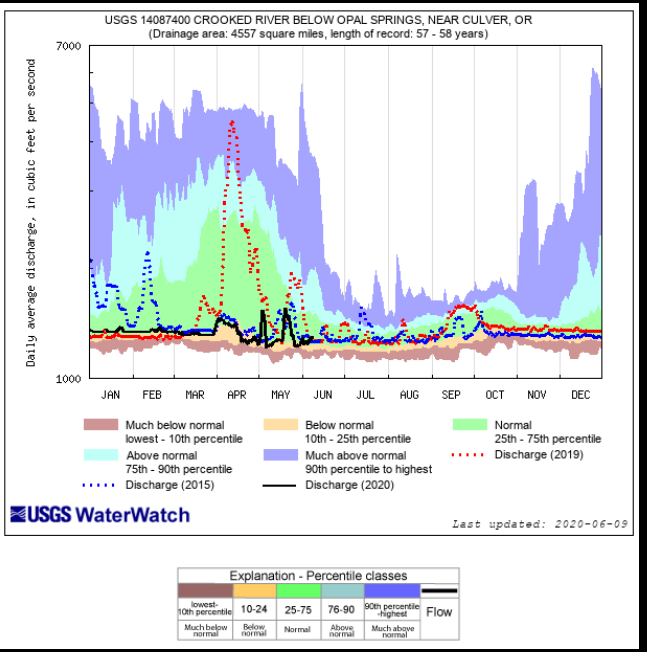
Jefferson County



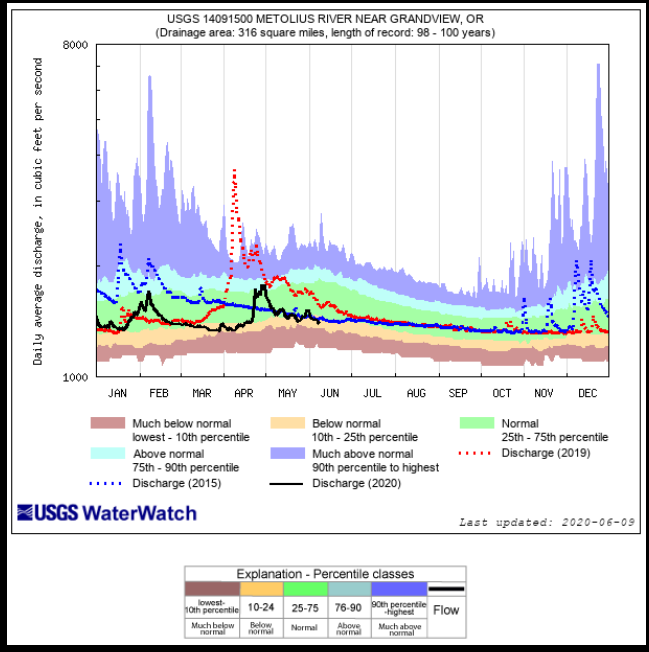
(top left)
14092750 Shitike Cr at Peters Pasture, nr Warm Springs, OR



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

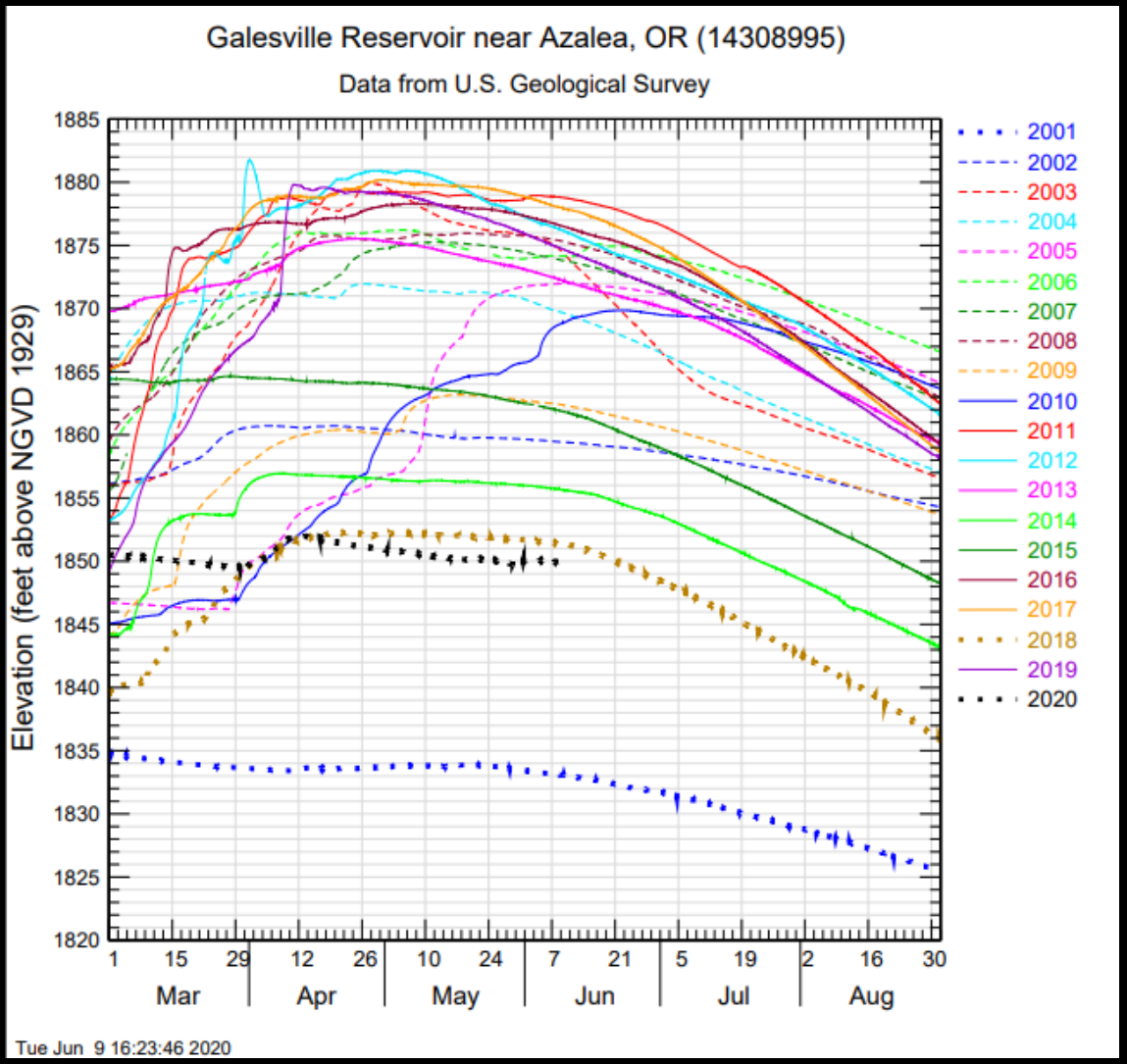


(bottom left)
14087400 Crooked R blw Opal Springs, nr Culver, OR



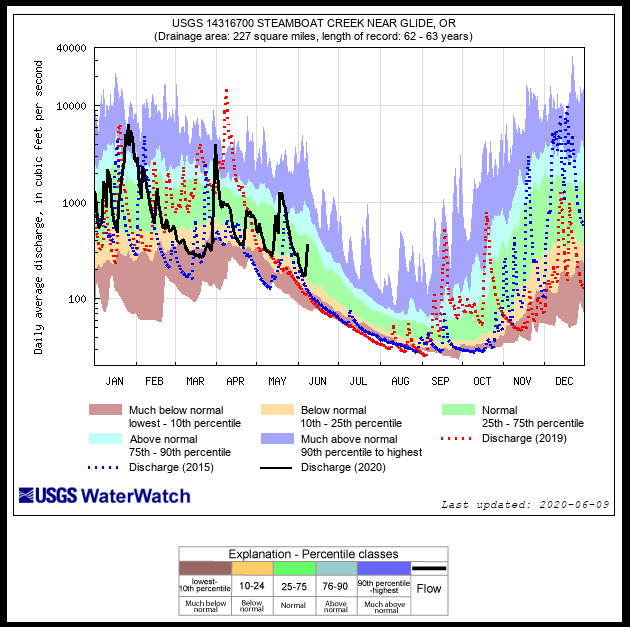
(bottom right)
14091500 Metolious R, nr Grandview, OR

14308995
Galesville Reservoir

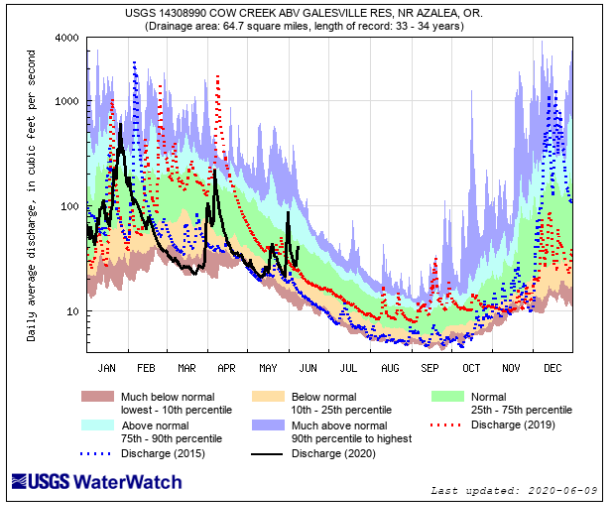


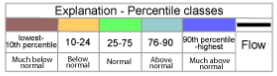
USGS

Steamboat Creek nr Glide

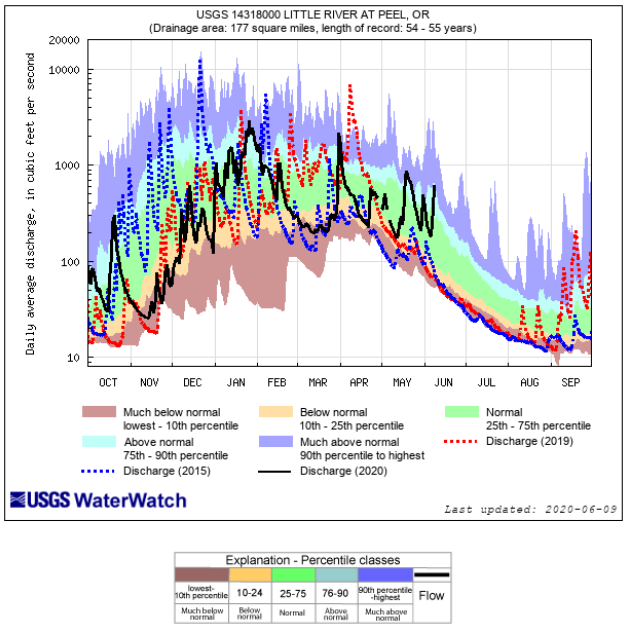


Cow Creek abv Galesville Res.

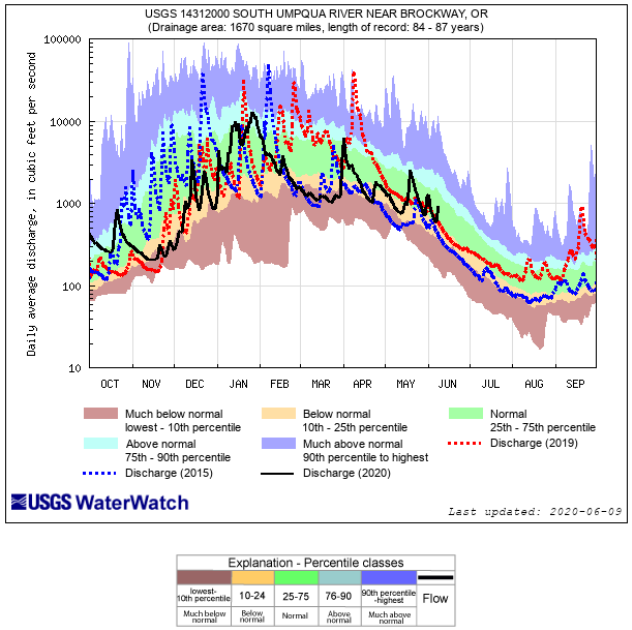




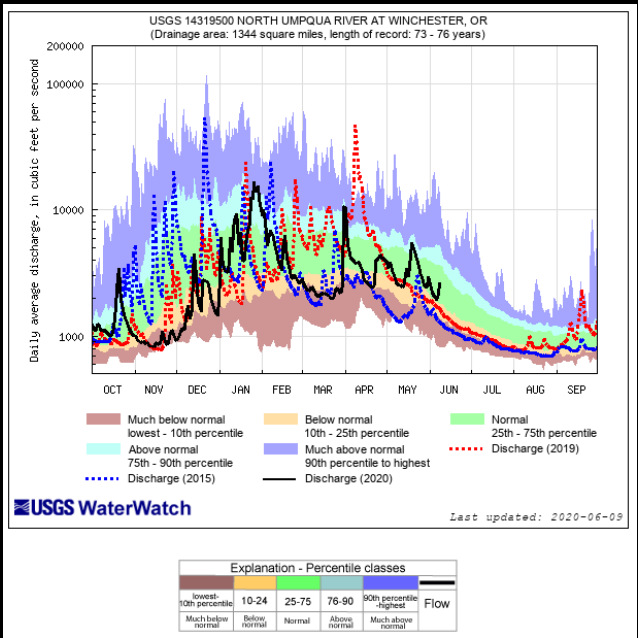
Douglas County



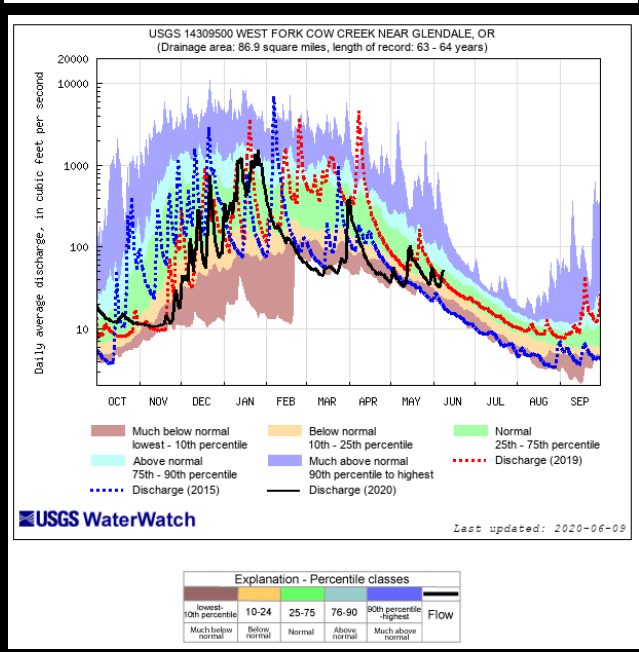
(top left)
14318000 Little R at Peel, OR



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

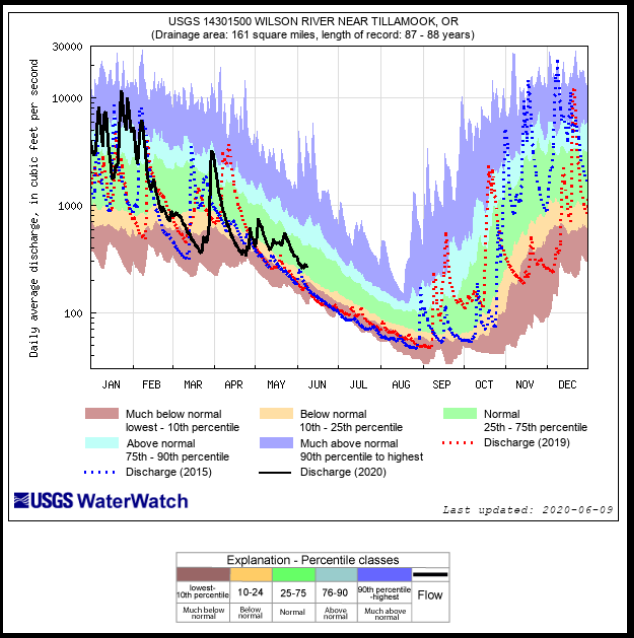


(bottom left)
14319500 North Umpqua R at Winchester, OR

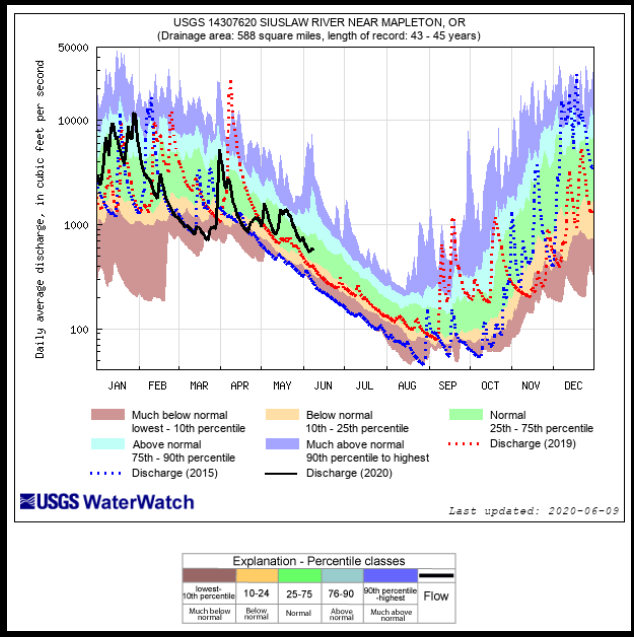


(bottom right)
14309500 West Fork Cow Cr nr Glendale, OR

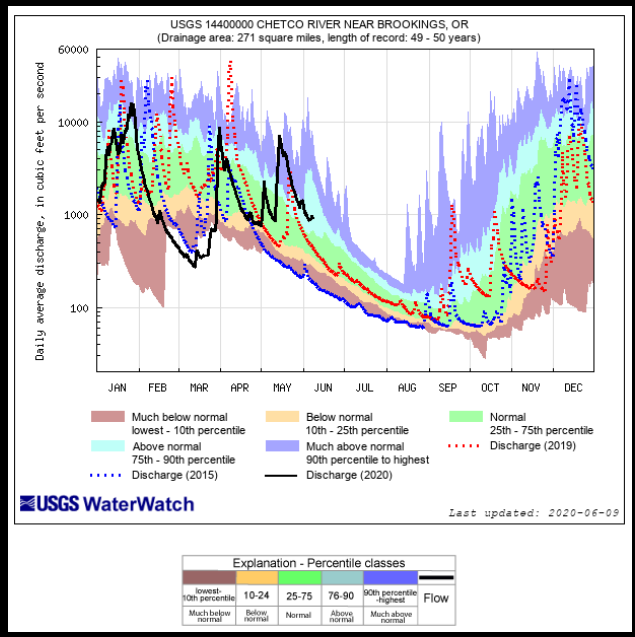
Coastal Oregon



14301500 Wilson R nr Tillamook, OR



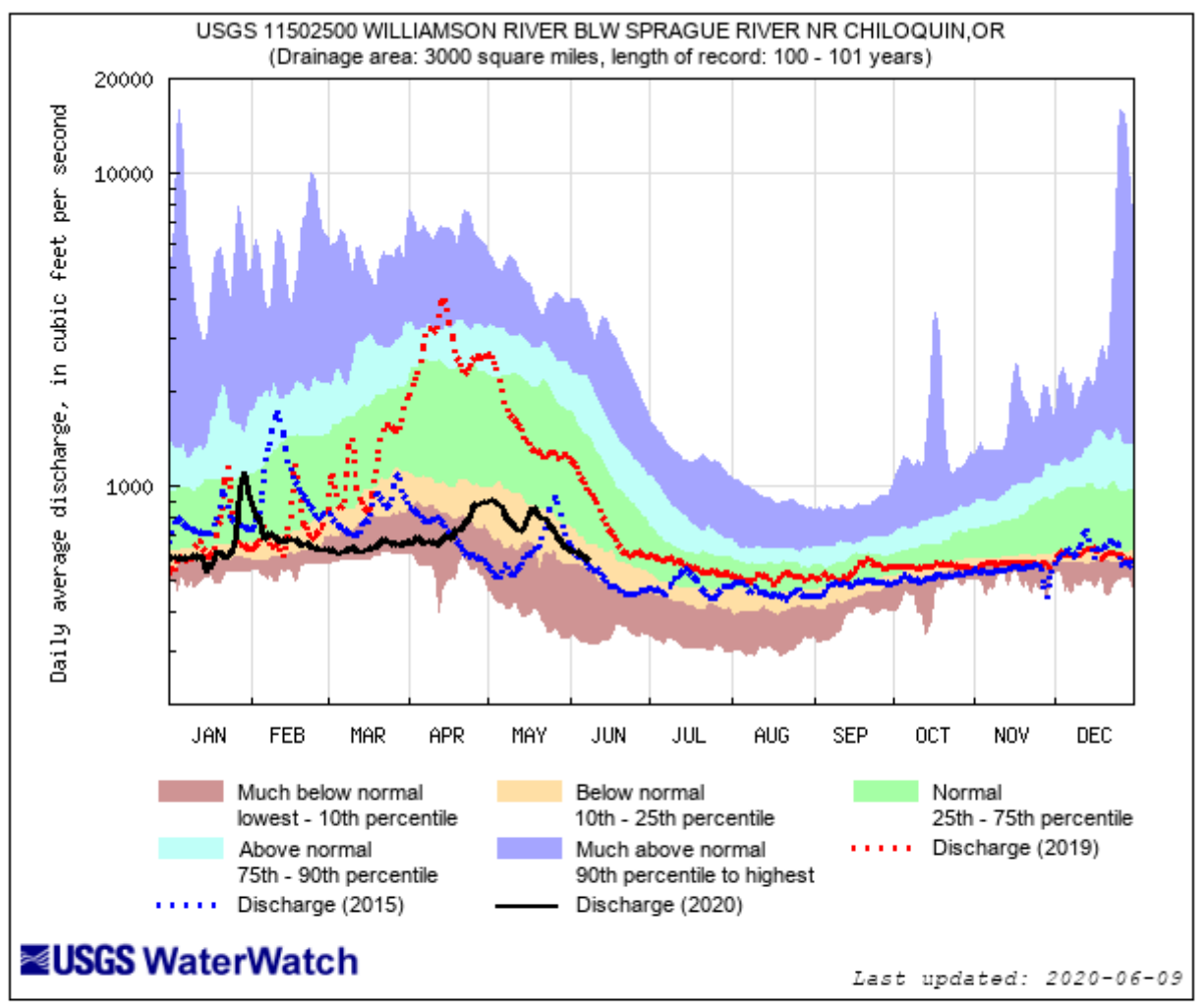
14307620 Siuslaw R nr Mapleton, OR

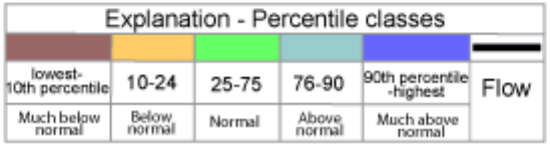


USGS

14400000 Chetco R nr Brookings, OR

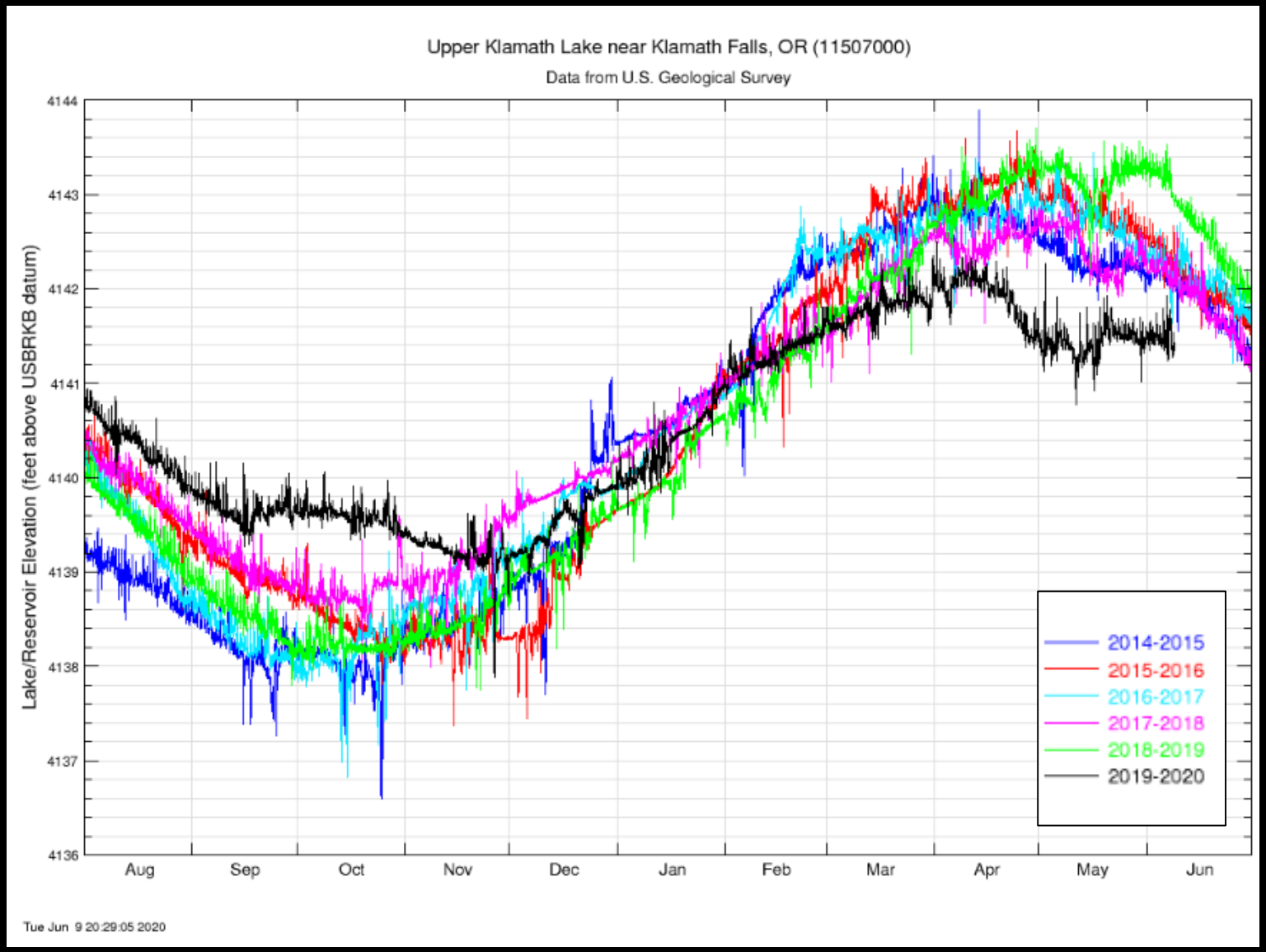
11502500 Williamson River blw Sprague





USGS

11507000 Upper Klamath Lake



USGS

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

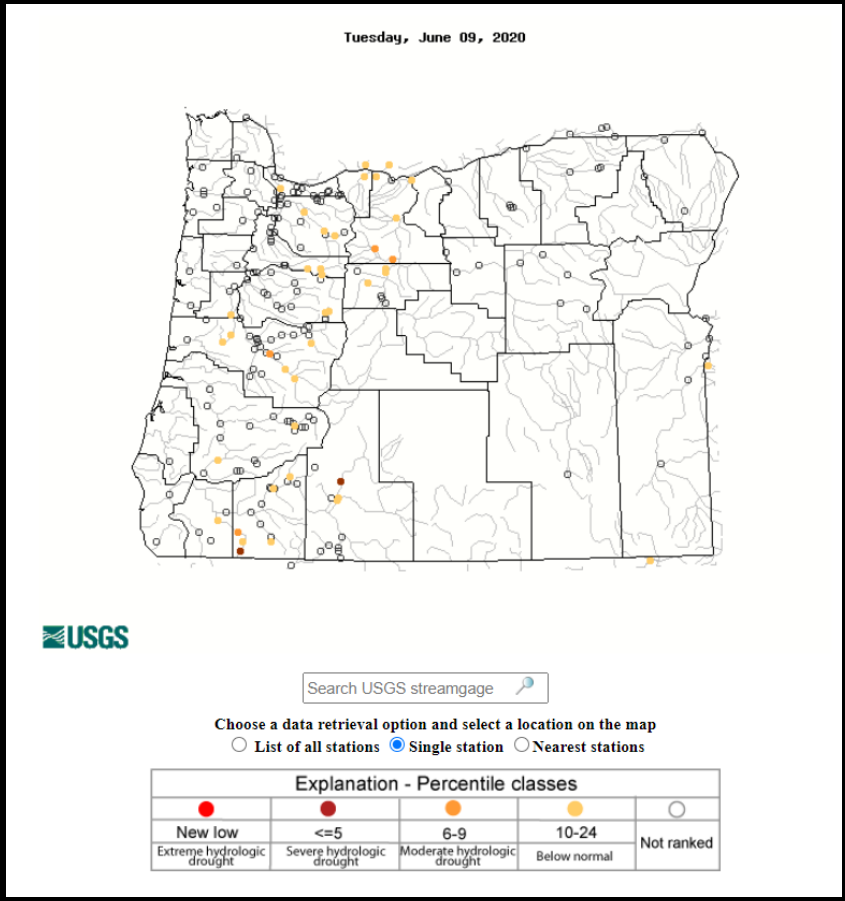
Station	NRCS SWSI Basin	Monthly mean discharge: Cubic feet per second	Monthly mean discharge: Percent of average	Change in discharge from previous month (percent)	Accumulated Runoff For the Period Oct. to May: Percent of average
Donner Und Blitzen nr Frenchglen	Harney	282	69	78	69
(*)Deep Creek above Adel	Lake County	329	74	23	63
(*)Chewaucan River near Paisley	Lake County	227	45	-19	57
Williamson River near Chiloquin	Klamath	779	50	6	54
Owyhee River near Rome	Owyhee	871	43	-8	46
(*)NF Malheur River near Beulah	Malheur	242	72	0	69
Grande Ronde R at Troy	Grande Ronde Powder/Burnt	8,870	127	60	102
Umatilla River nr Gibbon	Umatilla Lower John Day	828	181	11	145
John Day River at Service Crk	Upper John Day	6,025	117	42	79
(*)Little Deschutes River nr LaPine	Upper Deschutes	213	67	60	58
Hood River nr Hood River	Lower Deschutes Mt.Hood	883	77	2	73
Willamette River at Salem	Willamette	15,426	78	-3	64
Wilson River near Tillamook	North Coast	471	77	-35	91
Umpqua River near Elkton	Rogue/Umpqua	4,760	74	-31	61
Rogue River near Agness	Rogue/Umpqua	3,579	66	32	51
SF Coquille River at Powers	South Coast	265	59	-42	55
Chetco River near Brookings	South Coast	2,377	183	27	64

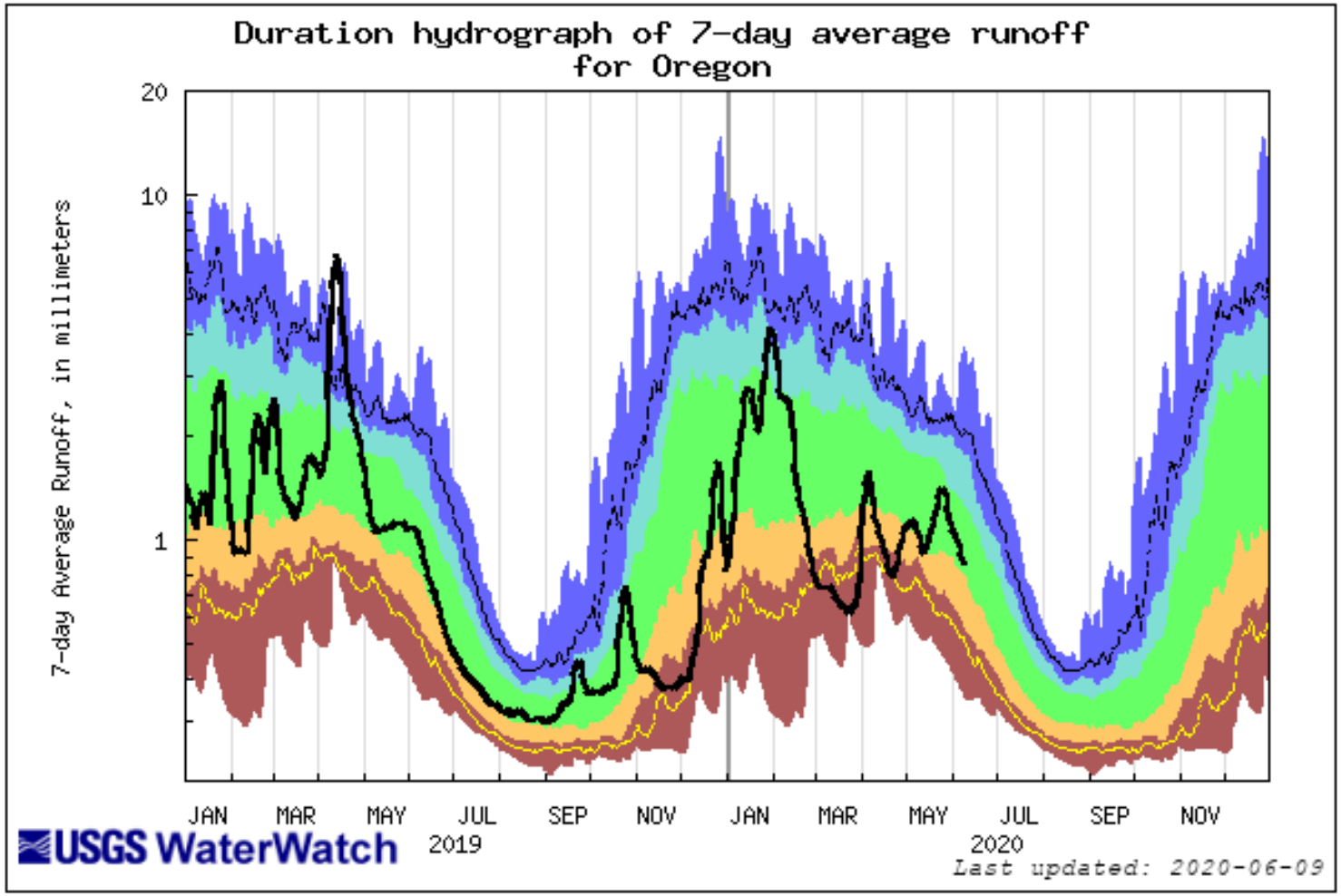
All data should be considered provisional and subject to revision.
Percent of average computed using 30-year base period, water years 1981-2010.
(*) provided by Oregon Water Resources Department

6/2/2020

14-day *below normal* Average Streamflow

(as compared to Historical Record)





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

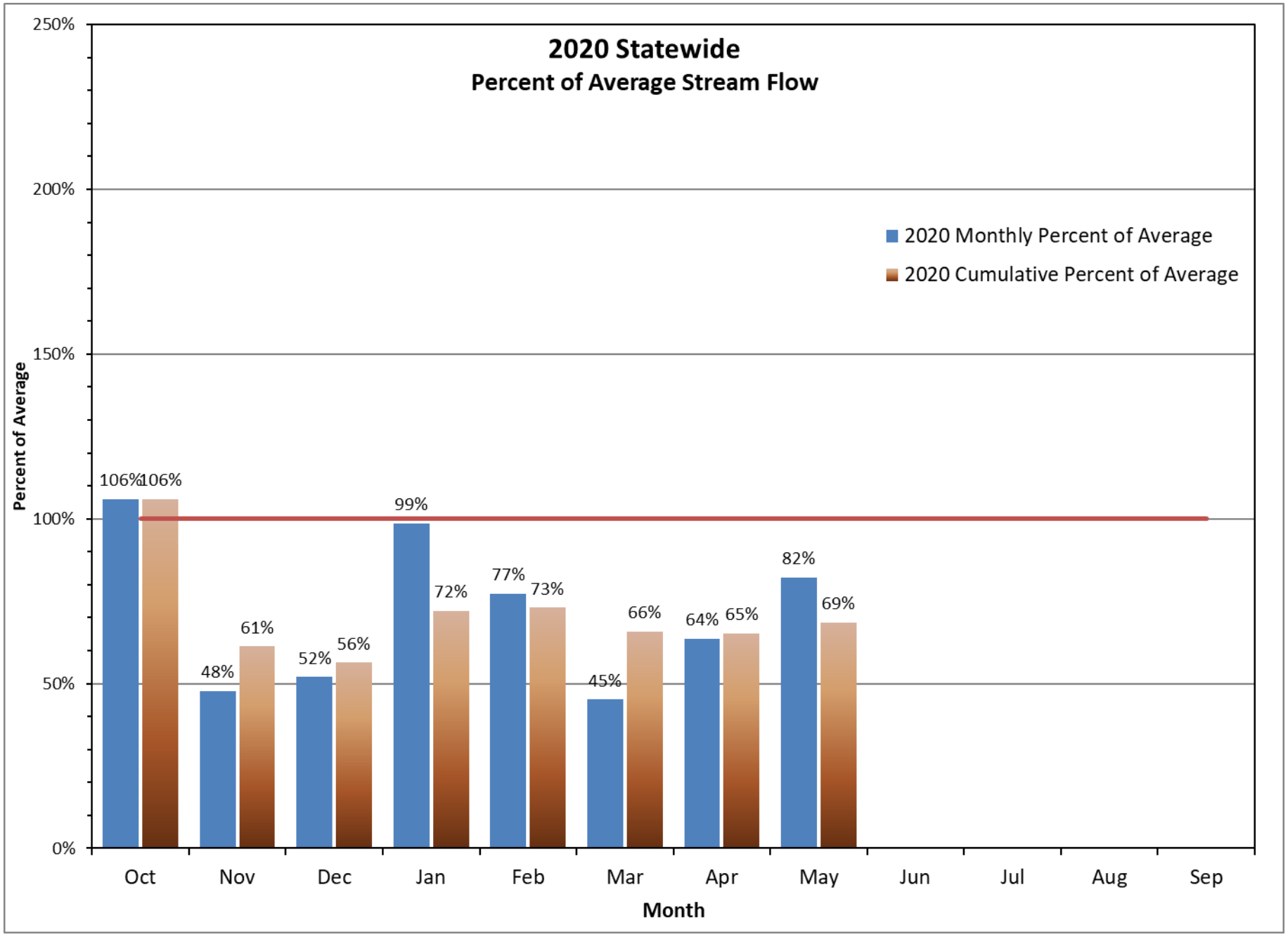
Water Supply Conditions Report

Water Supply Availability Committee

OREGON
WATER RESOURCES
DEPARTMENT

Ken Stahr
Oregon Water Resources Department

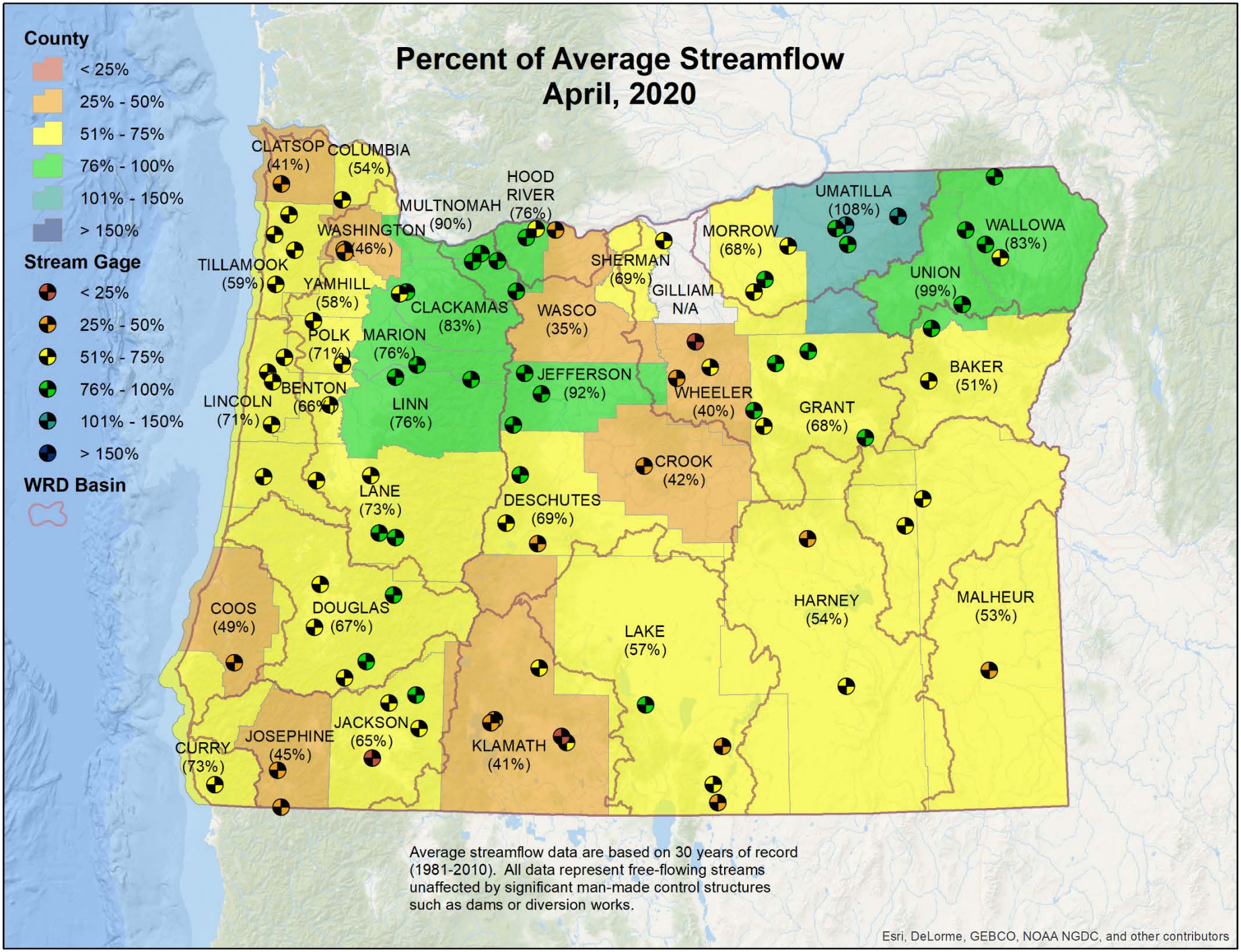
June 10, 2020


2020 Statewide
Percent of Average Stream Flow
2020 Monthly Percent of Average
2020 Cumulative Percent of Average
Percent of Average
250%
200%
150%
100%
50%
0%
106%
106%
48%
61%
52%
56%
99%
72%
77%
73%
45%
66%
64%
65%
82%
69%
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Month

OREGON
WATER RESOURCES DEPARTMENT

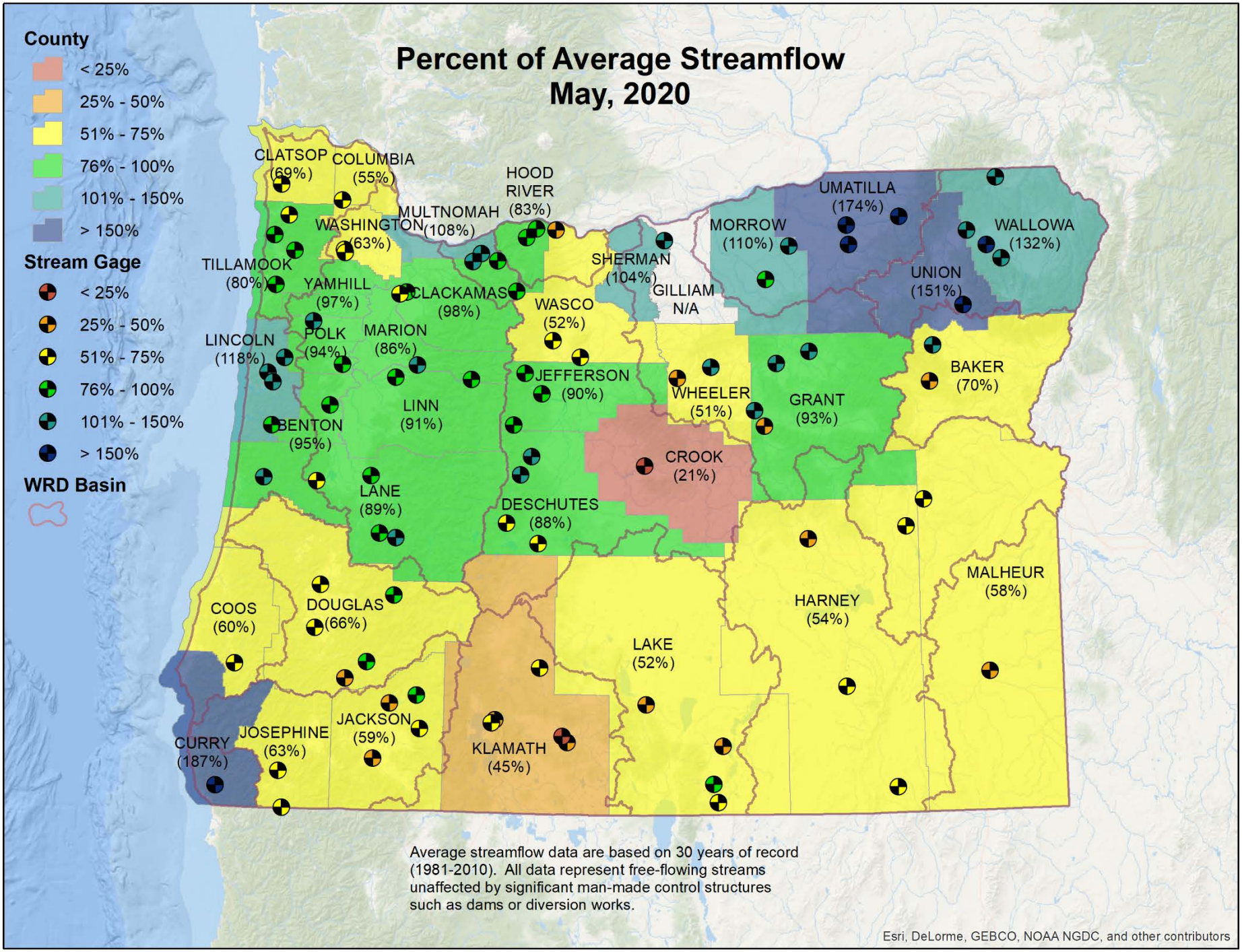
Basin	Water Year % of average thru May	% of average for May	% of average for 06/08/2020	# of data points
North Coast	85%	74%	50%	6
Willamette	70%	85%	65%	15
Sandy	87%	103%	66%	4
Hood	61%	68%	52%	3
Deschutes	71%	76%	55%	10
John Day	65%	80%	56%	9
Umatilla	103%	159%	51%	6
Grande Ronde	104%	136%	94%	5
Powder	72%	70%	45%	2
Malheur	63%	66%	59%	2
Owyhee	46%	44%	52%	1
Malheur Lake	57%	54%	40%	3
Goose & Summer Lakes	48%	52%	38%	4
Klamath	51%	45%	28%	5
Rogue	54%	60%	72%	6
Umpqua	59%	66%	81%	5
South Coast	59%	123%	67%	2
Mid Coast	78%	116%	51%	5
West Side	**70%**	**90%**	**65%**	**43**
East Side	**67%**	**77%**	**52%**	**50**
State	**69%**	**82%**	**57%**	**93**

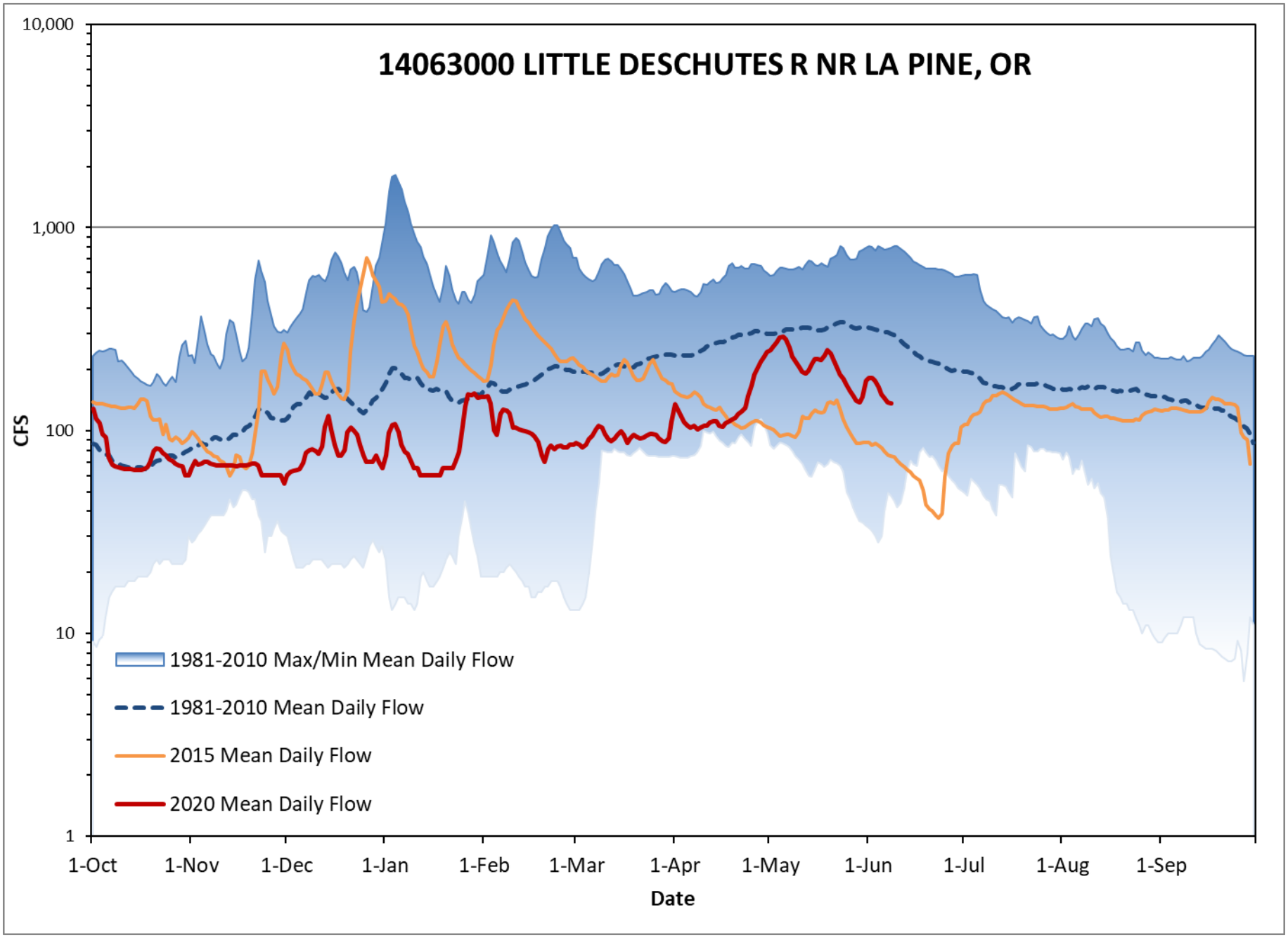
Percent of Average Streamflow
April, 2020

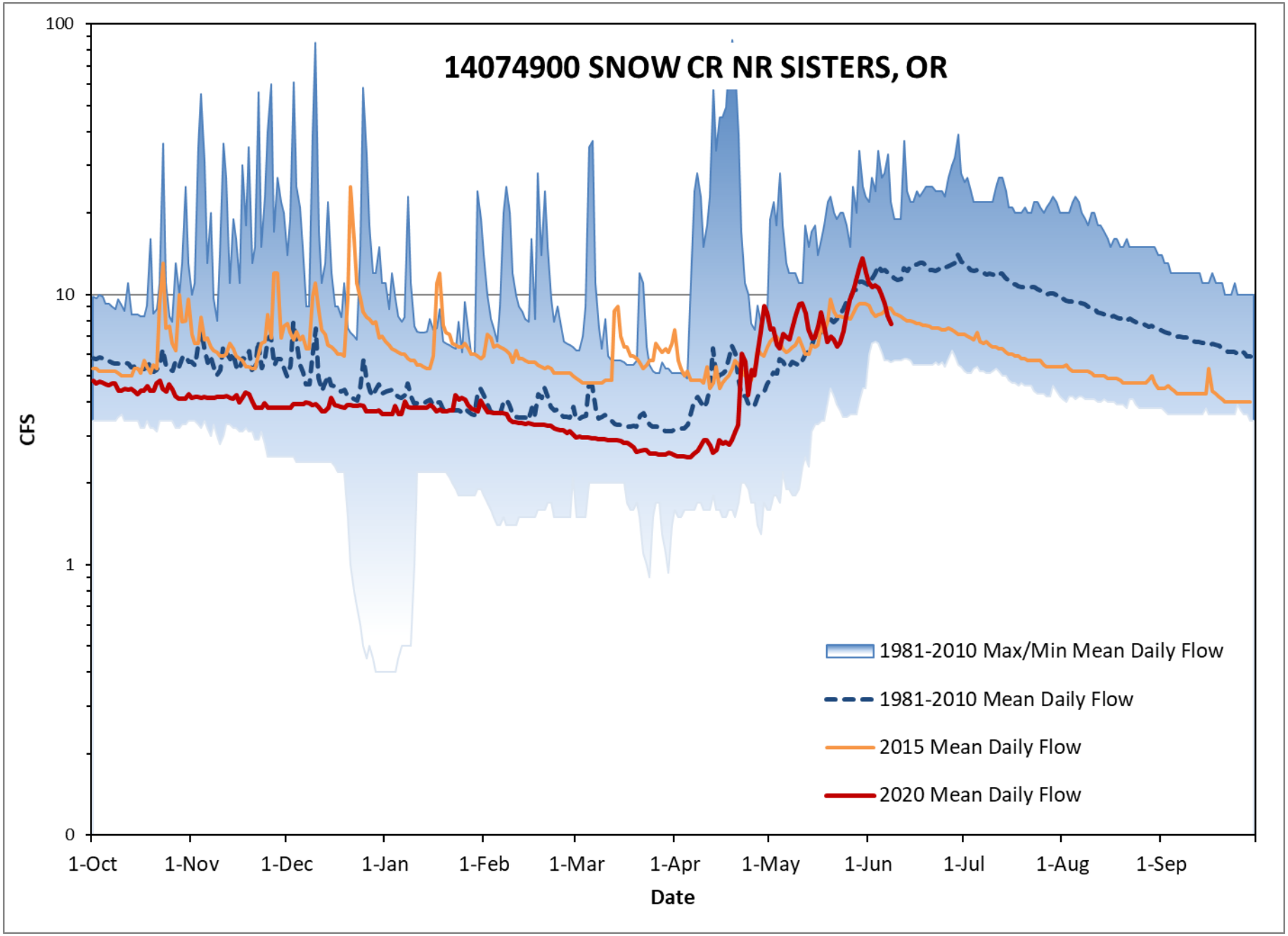


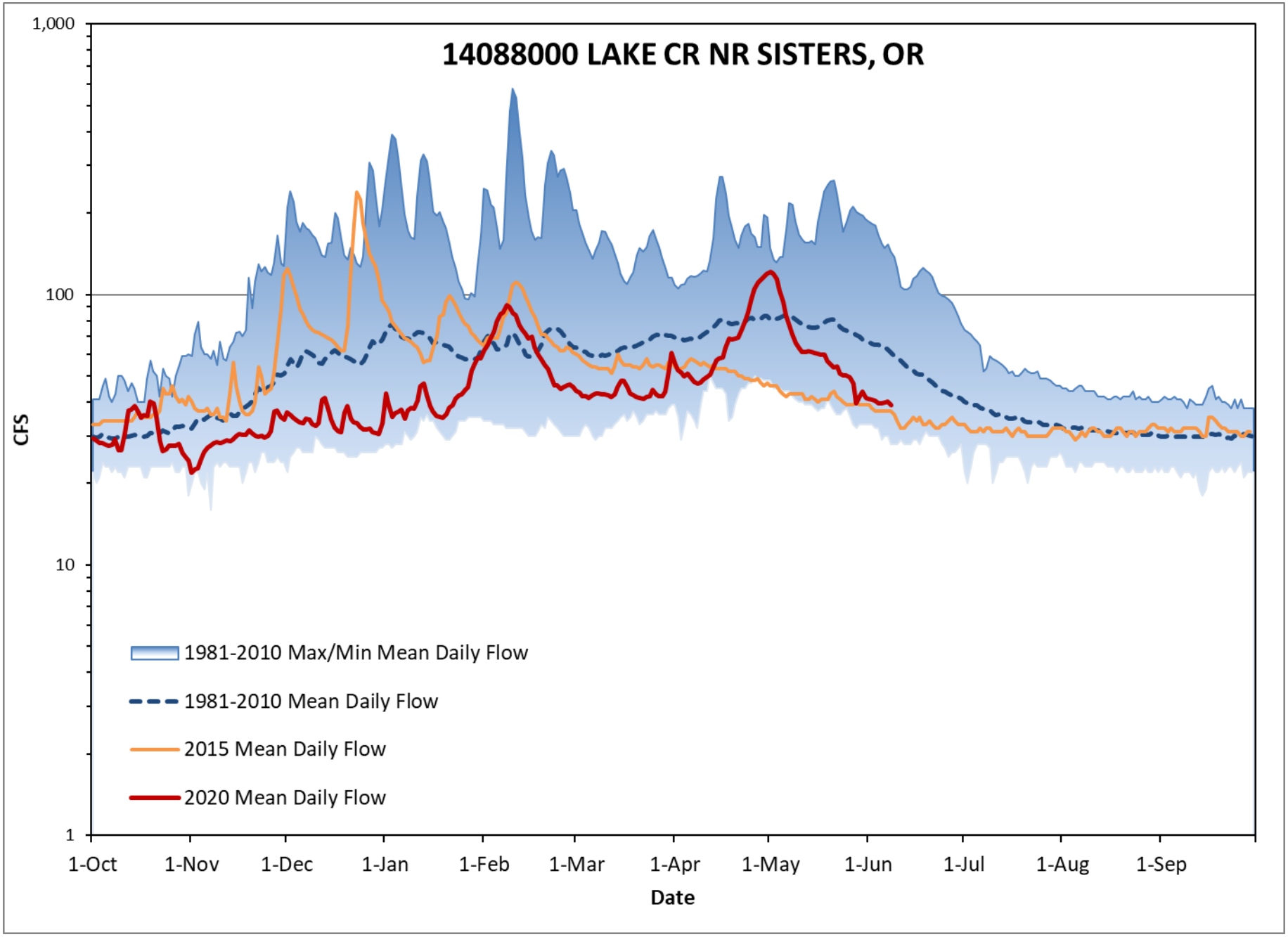
Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

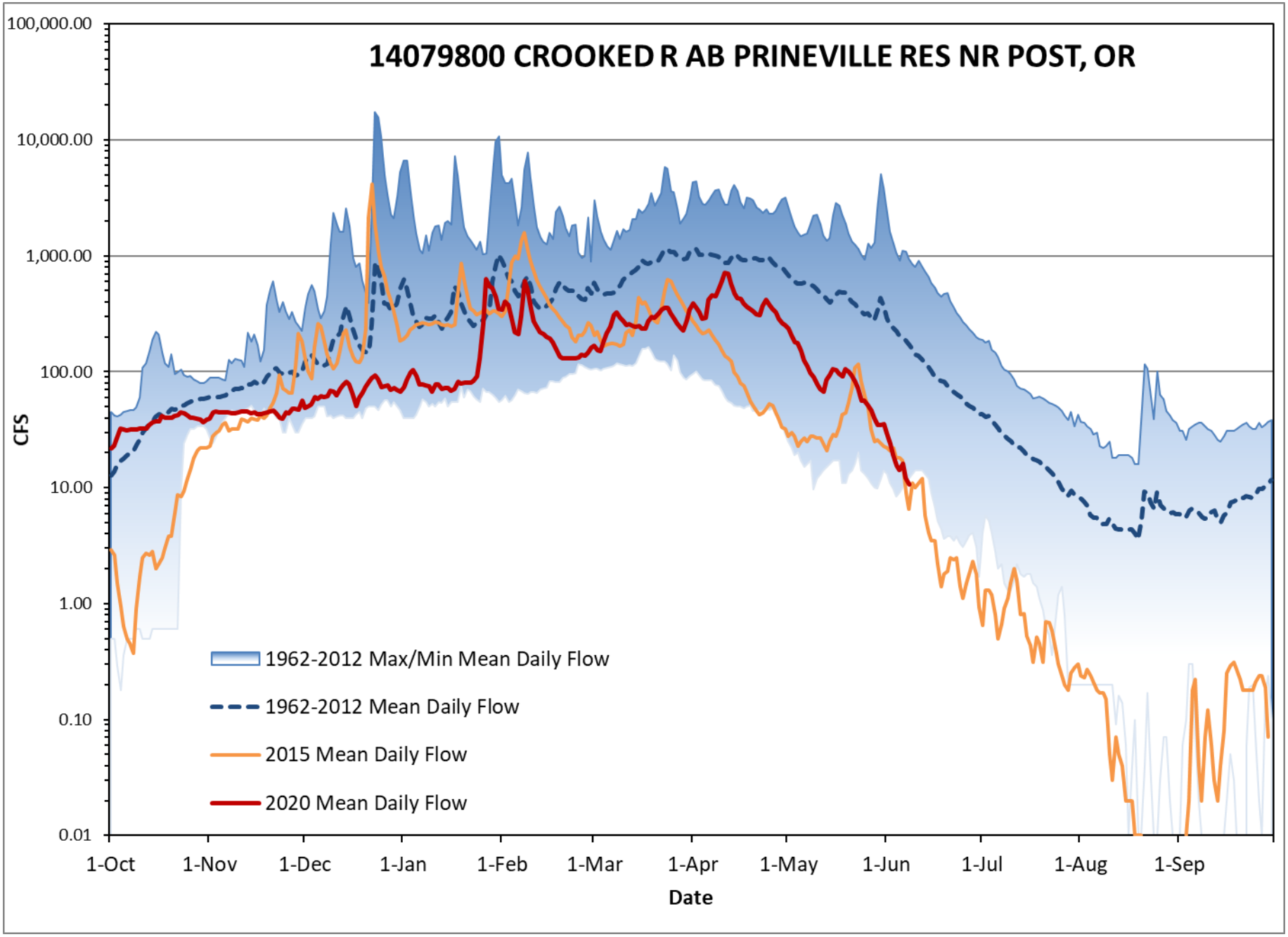
Percent of Average Streamflow
May, 2020




14063000 LITTLE DESCHUTES R NR LA PINE, 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

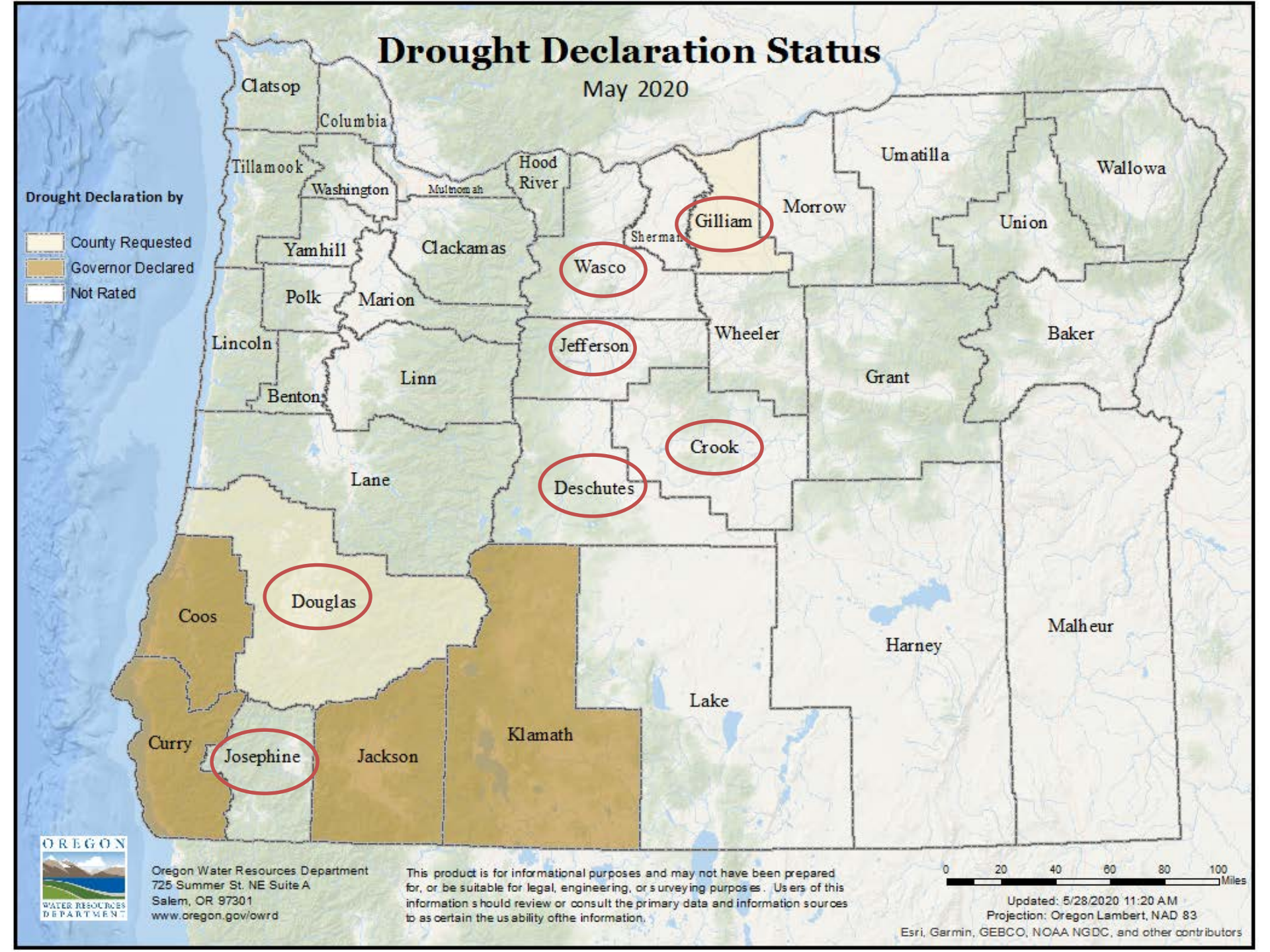

14074900 SNOW CR NR SISTERS, OR
100
10
1
0
CFS
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
Date
1981-2010 Max/Min Mean Daily Flow
1981-2010 Mean Daily Flow
2015 Mean Daily Flow
2020 Mean Daily Flow


14088000 LAKE CR NR SISTERS, OR
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


14079800 CROOKED R AB PRINEVILLE RES NR POST, OR
100,000.00
10,000.00
1,000.00
100.00
10.00
1.00
0.10
0.01
CFS
1962-2012 Max/Min Mean Daily Flow
1962-2012 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

May 2020



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

Updated: 5/28/2020 11:20 AM
Projection: Oregon Lambert, NAD 83
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

OREGON
WATER RESOURCES
DEPARTMENT

Thank you

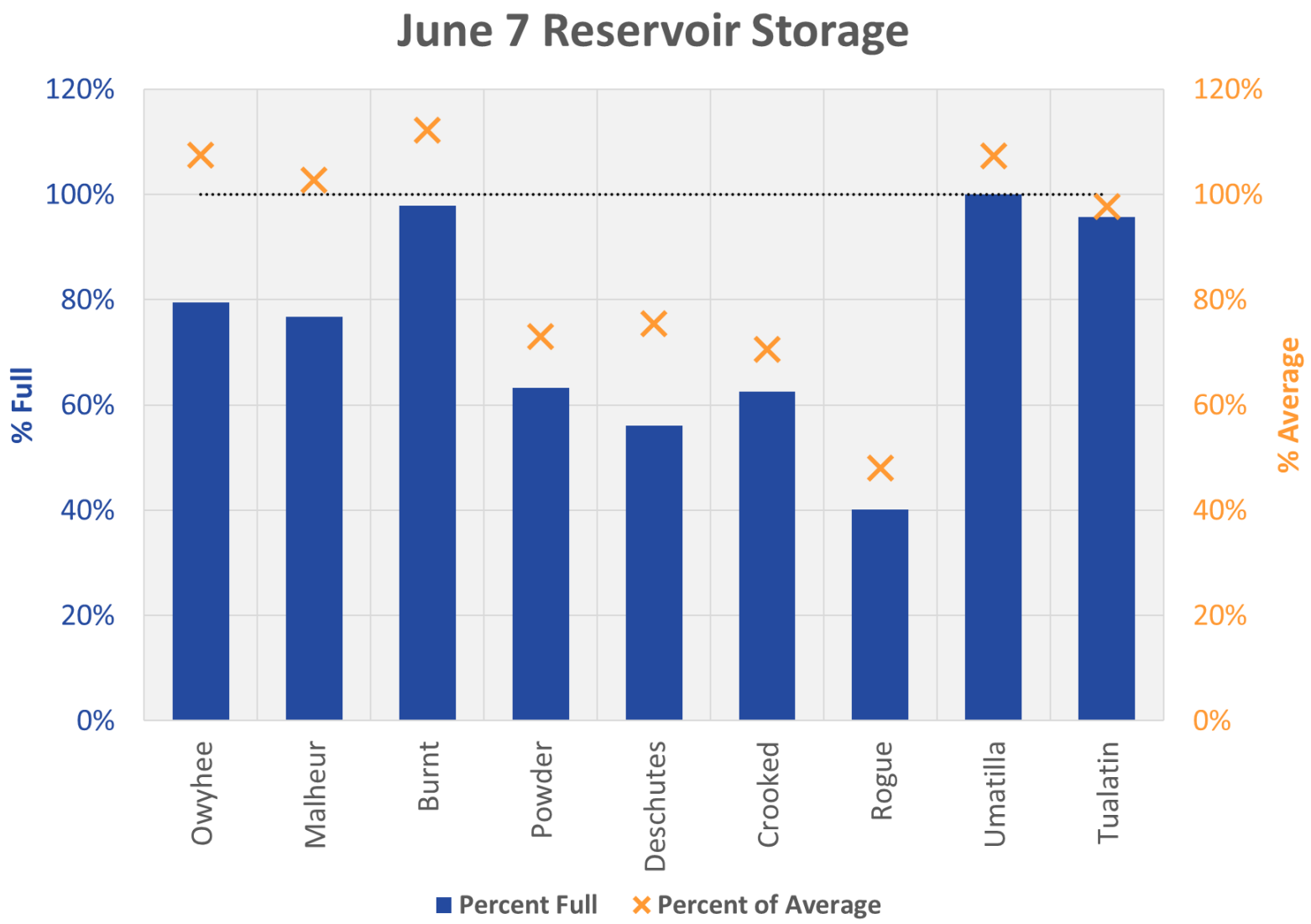
BUREAU OF RECLAMATION

Reclamation Storage Update

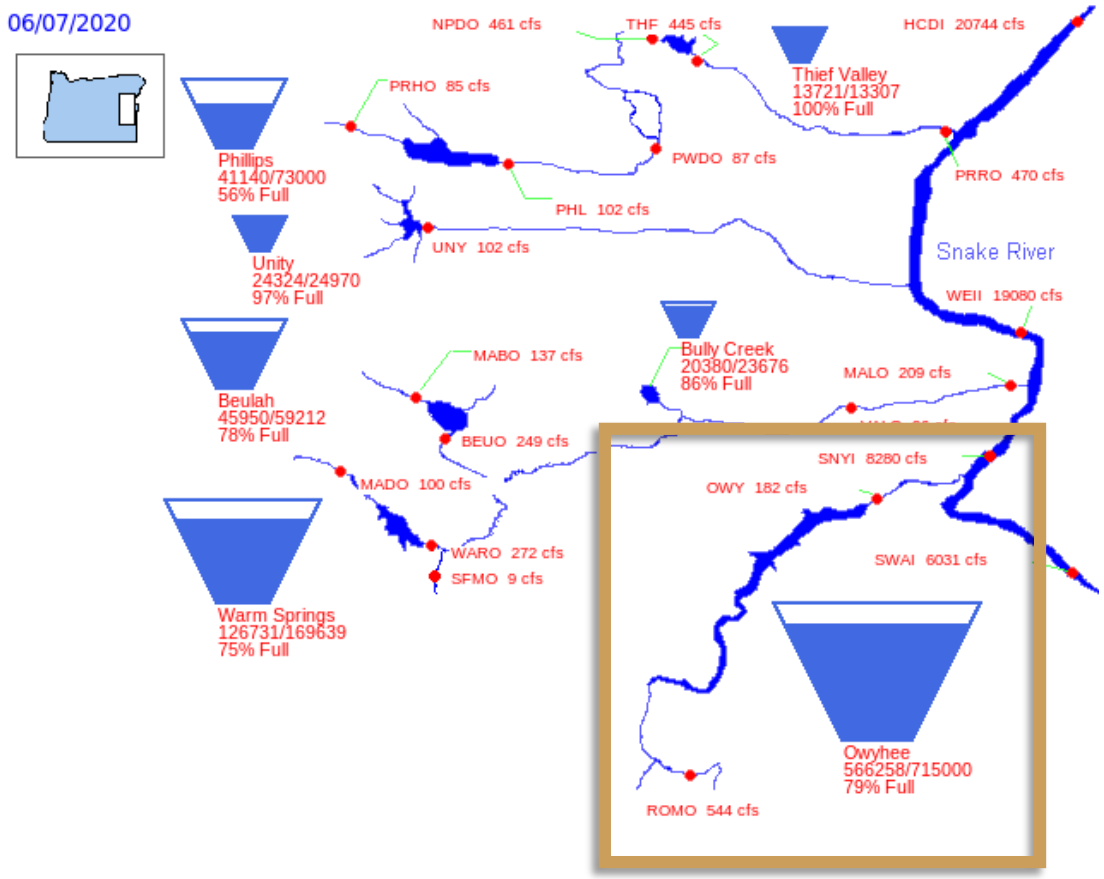
Oregon Water Supply Availability Committee Meeting

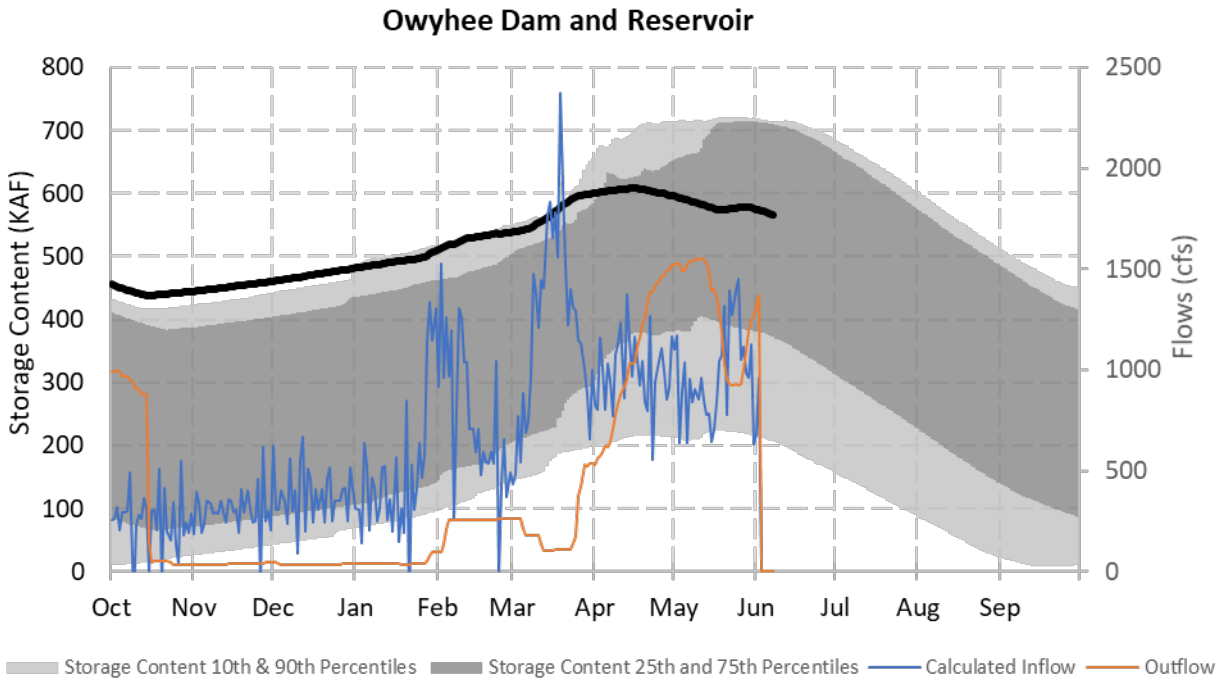
June 7, 2020

Reservoir Storage Conditions

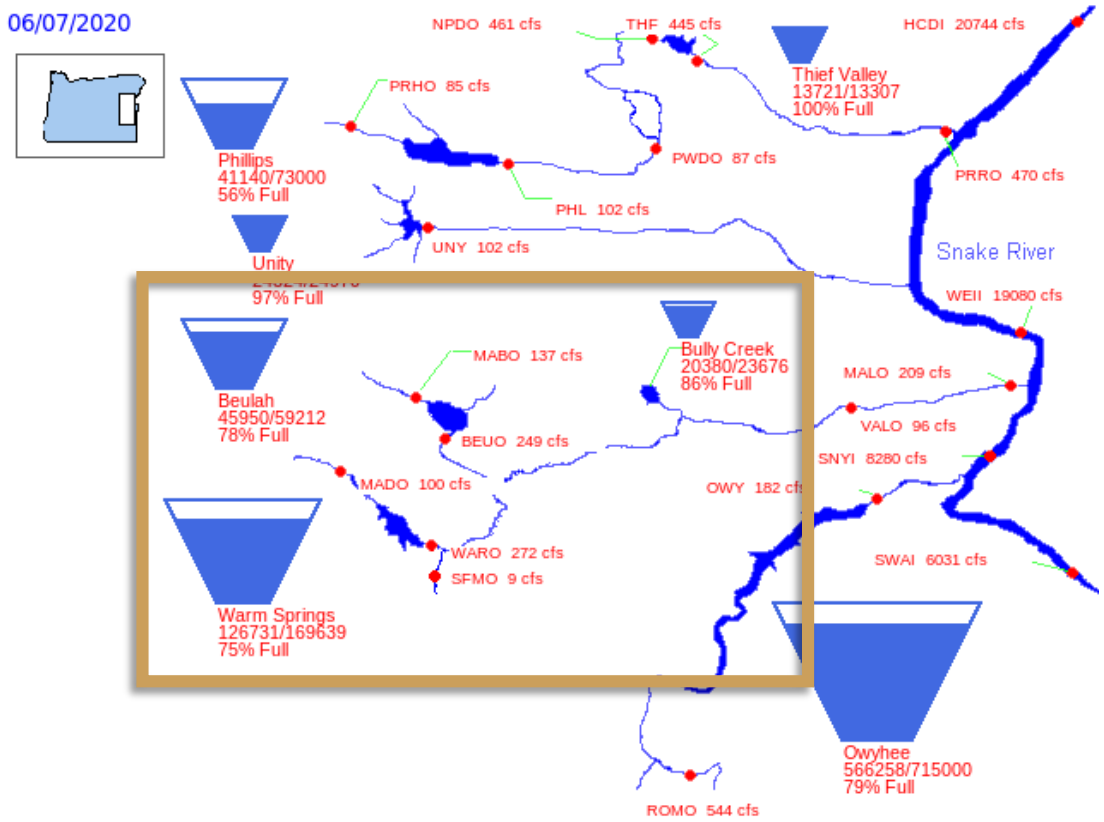


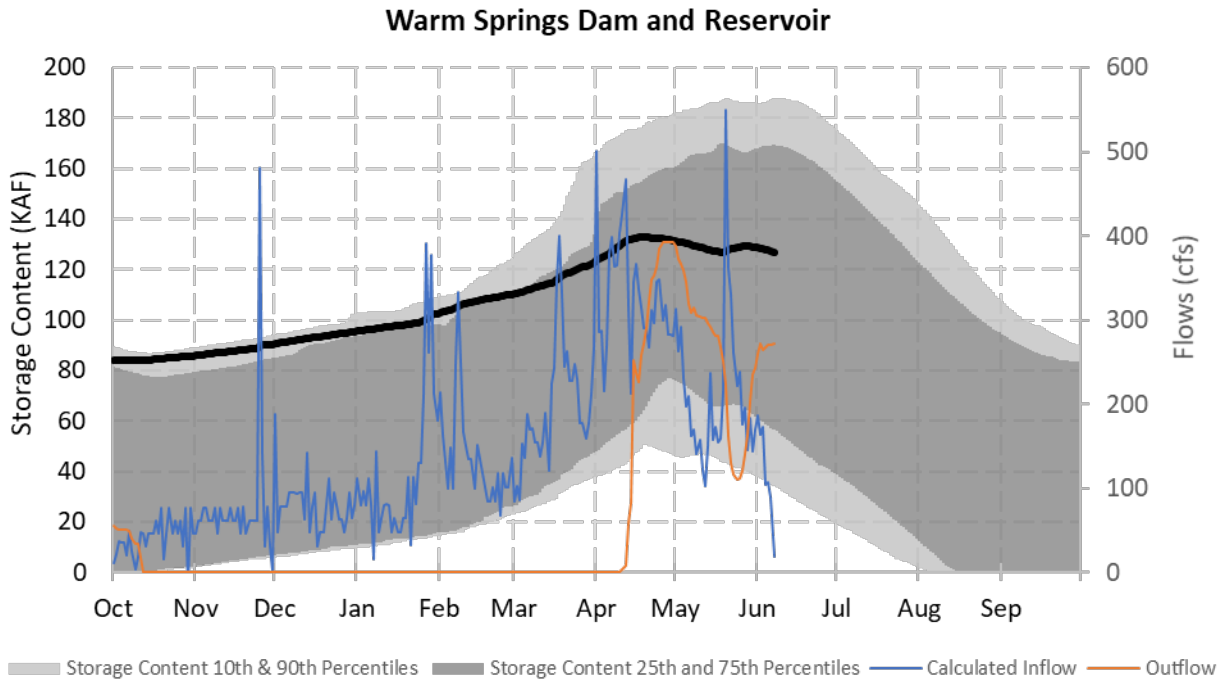
Owyhee River Basin

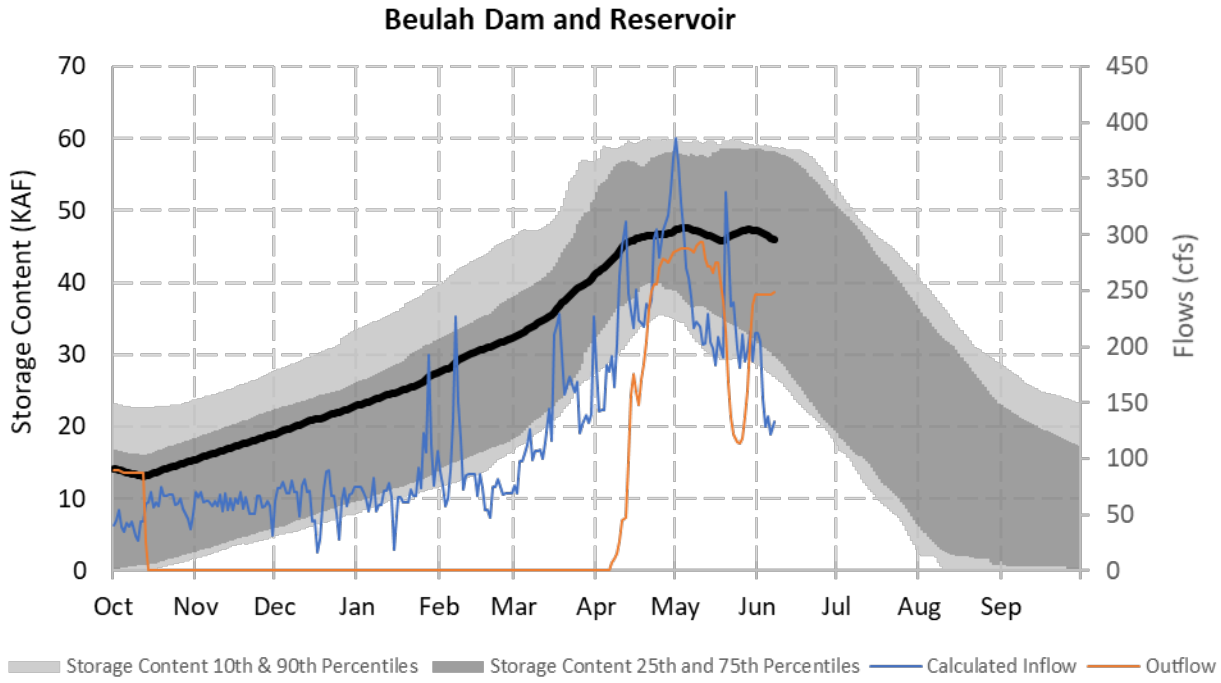




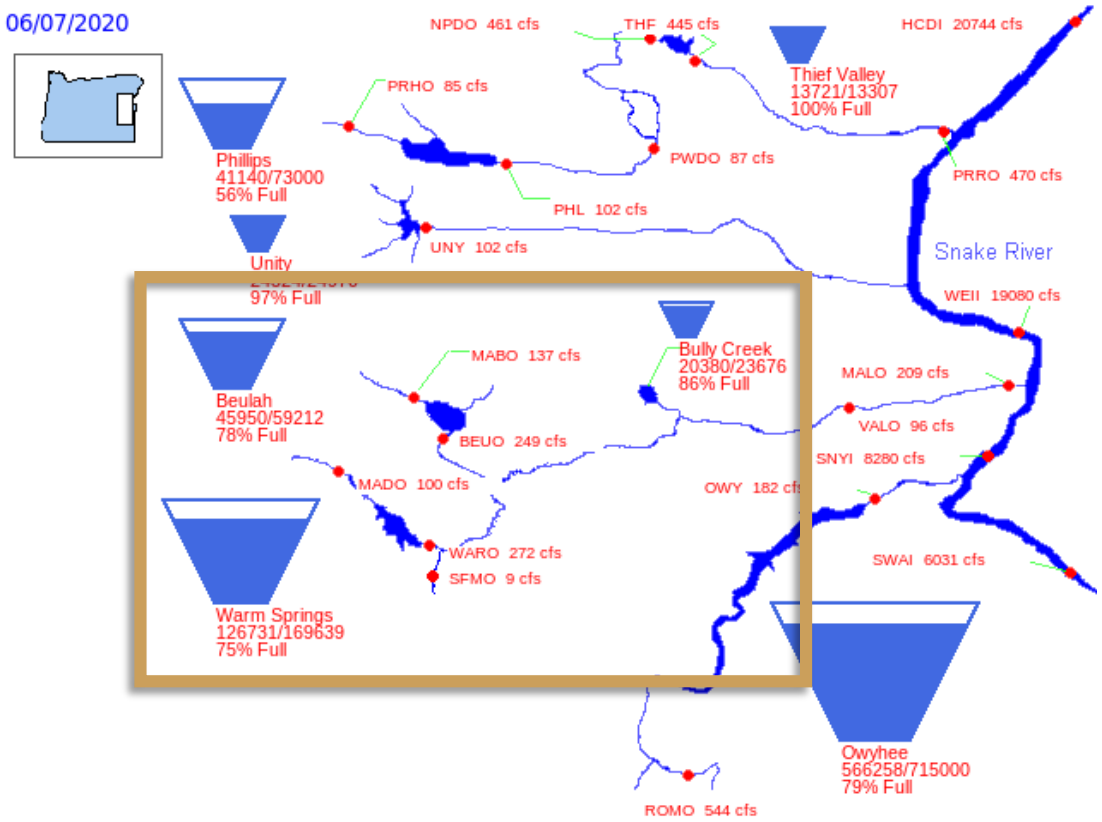
Malheur River Basin

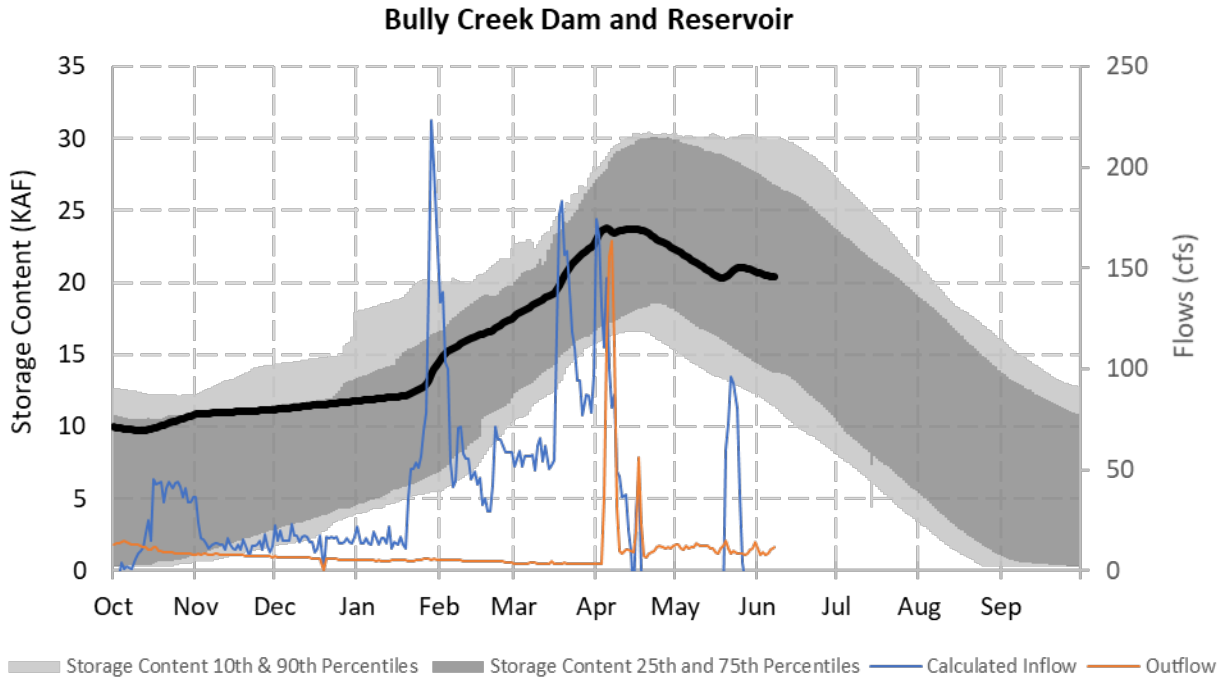




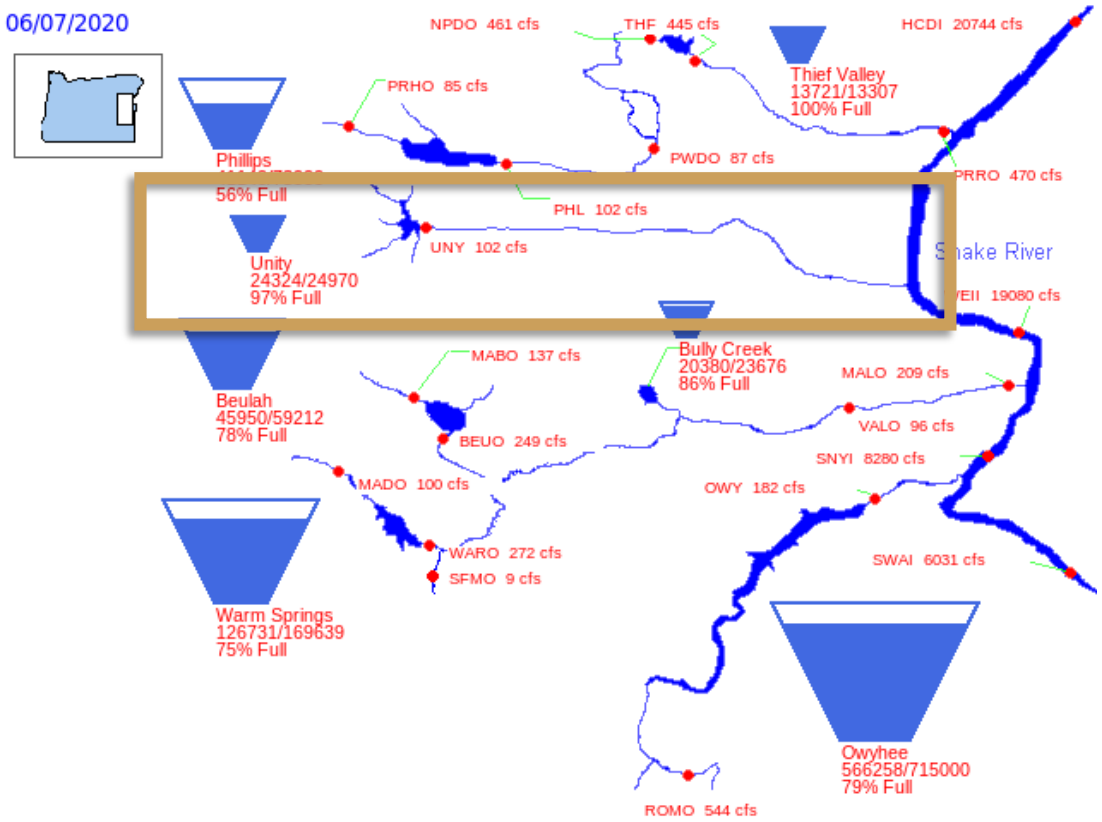


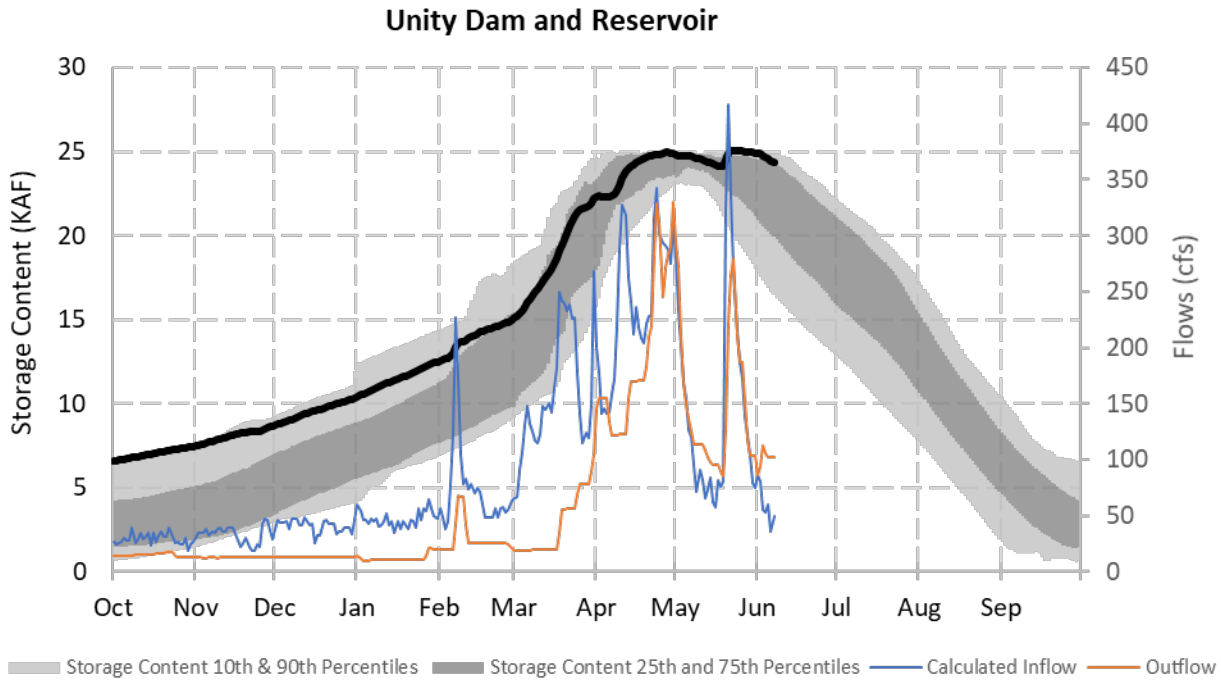
Malheur River Basin



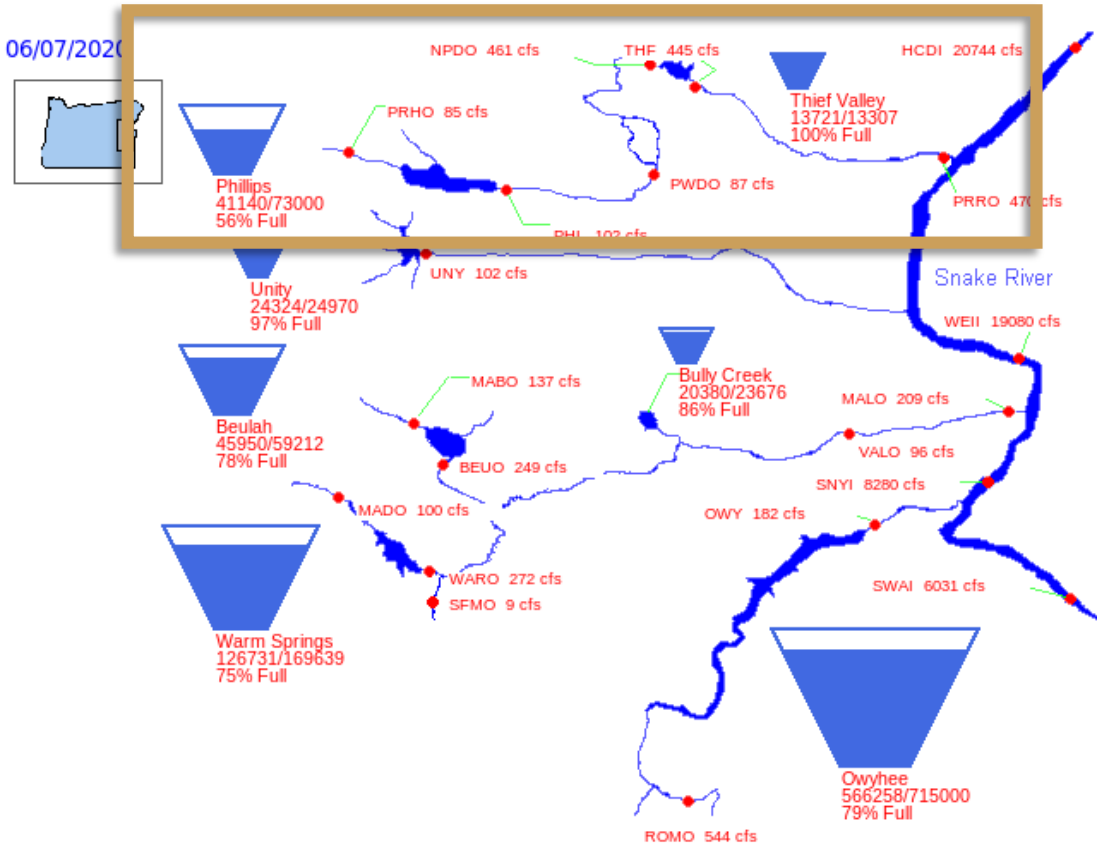


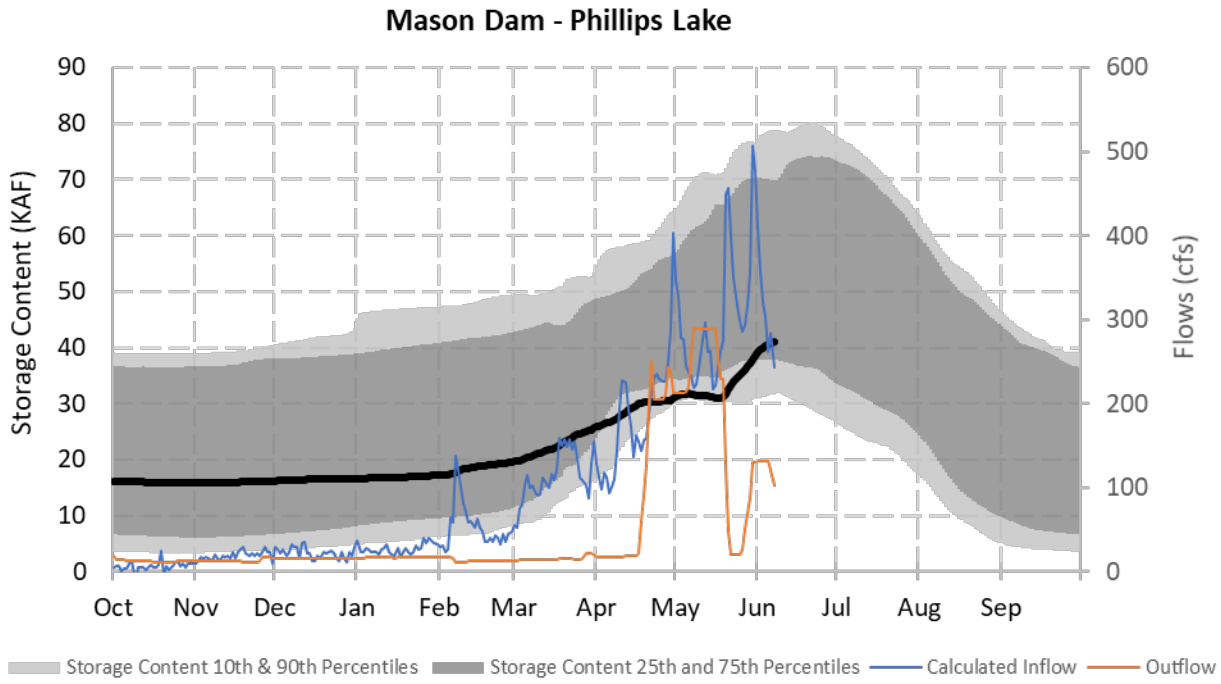
Burnt River Basin



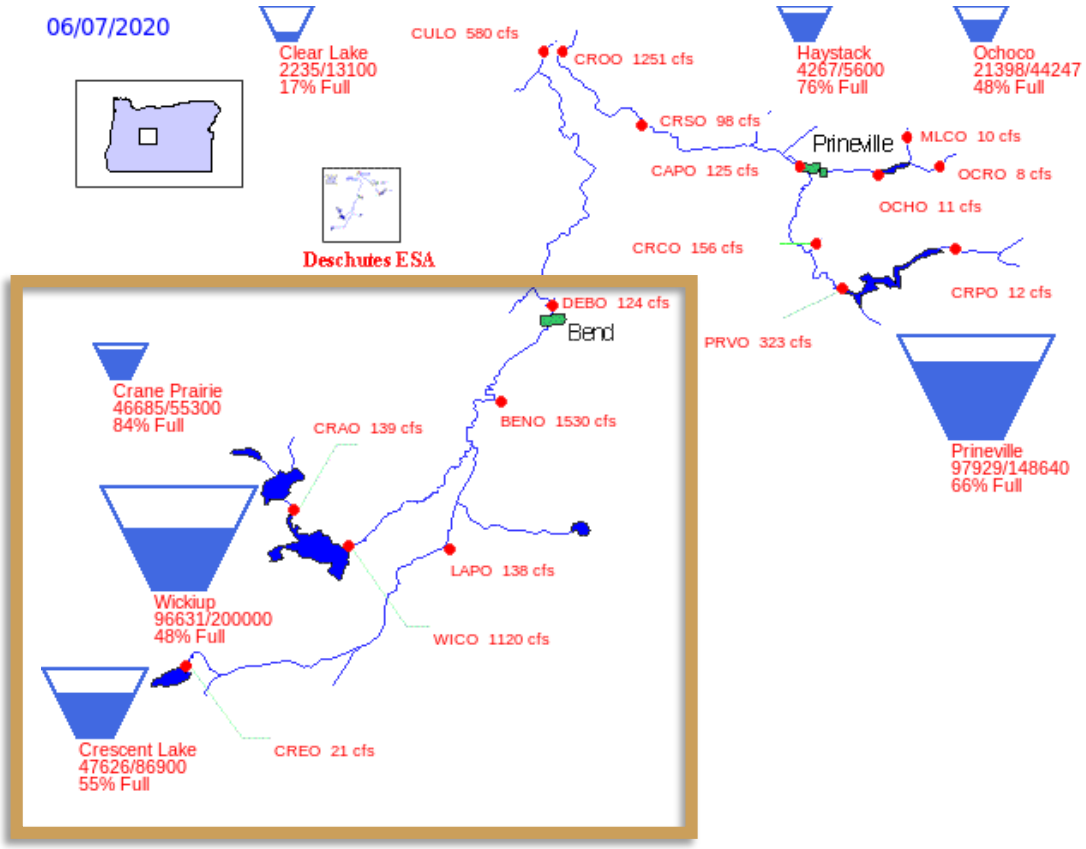


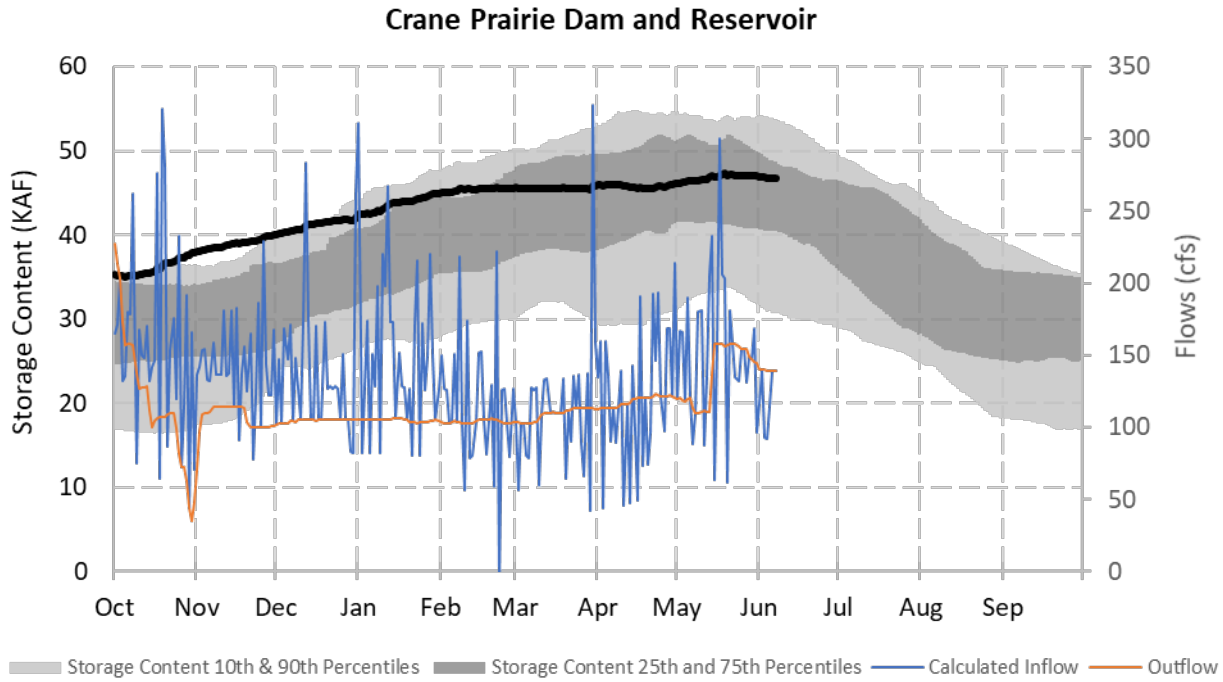
Powder River Basin

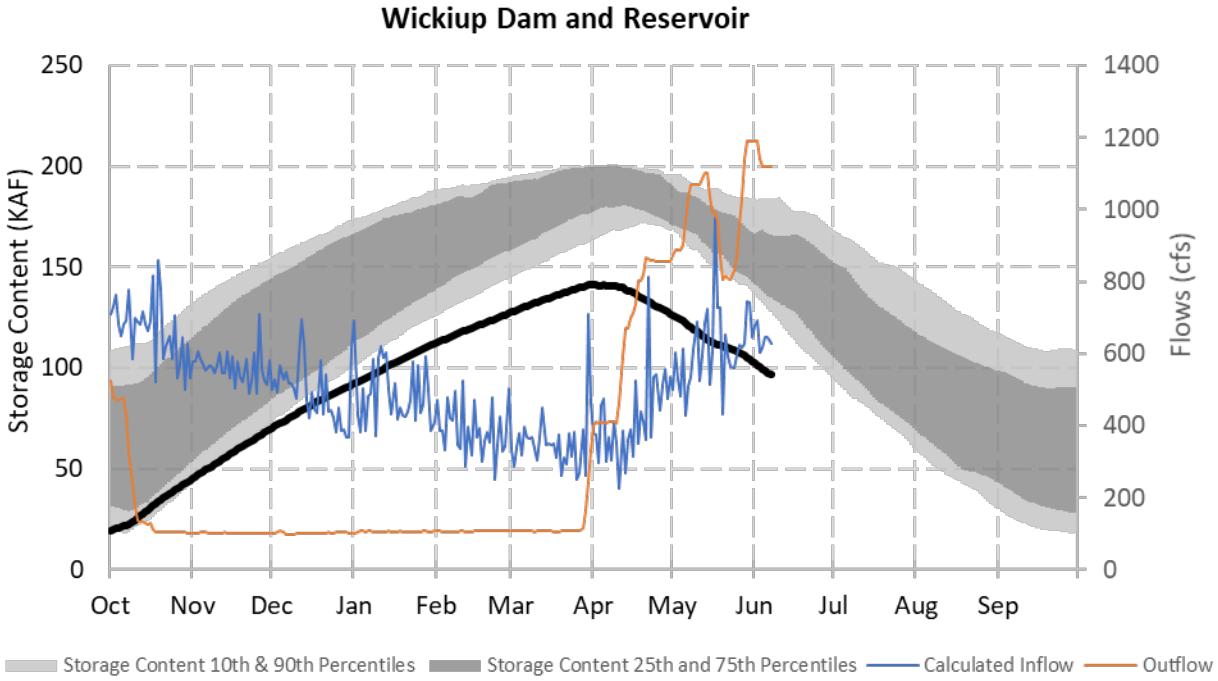




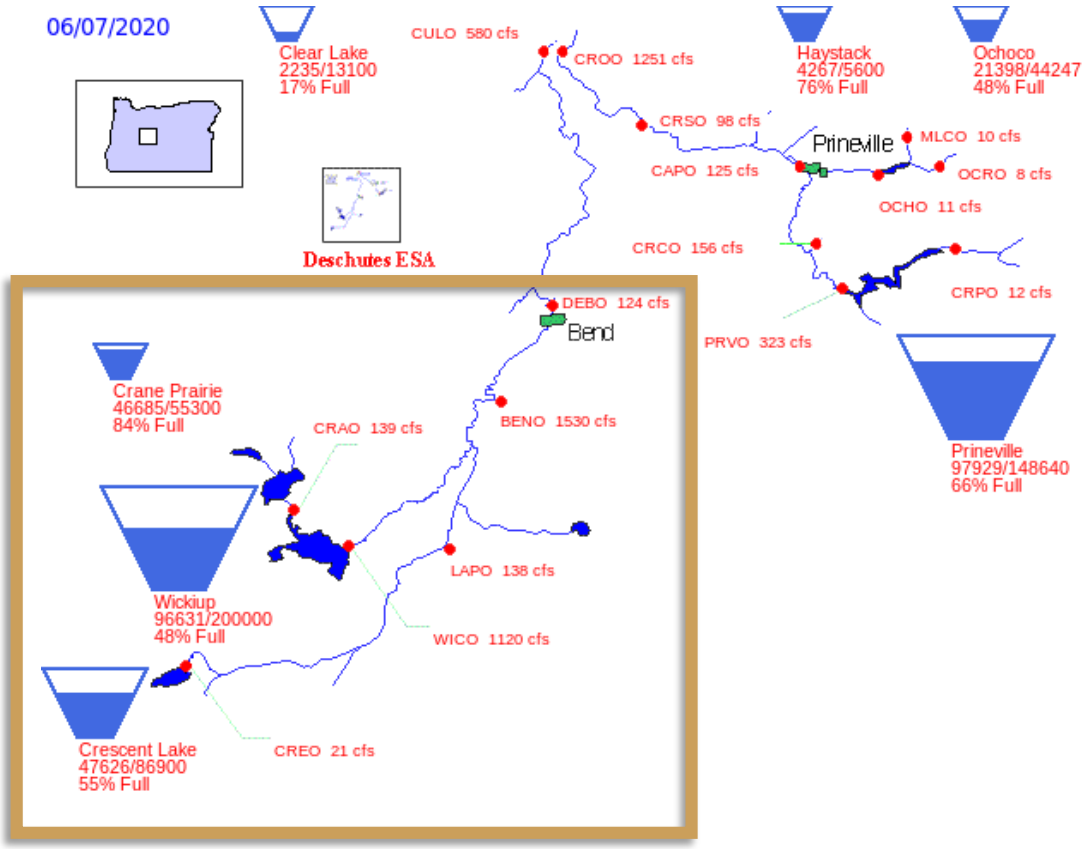
Deschutes River Basin

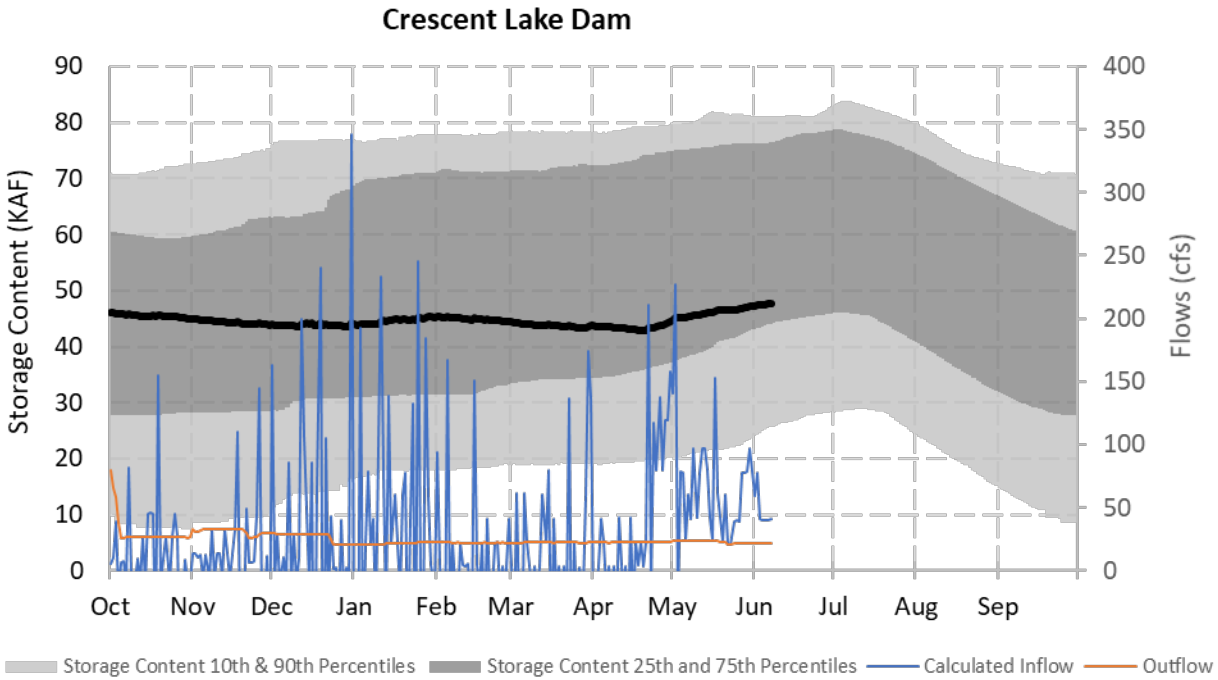




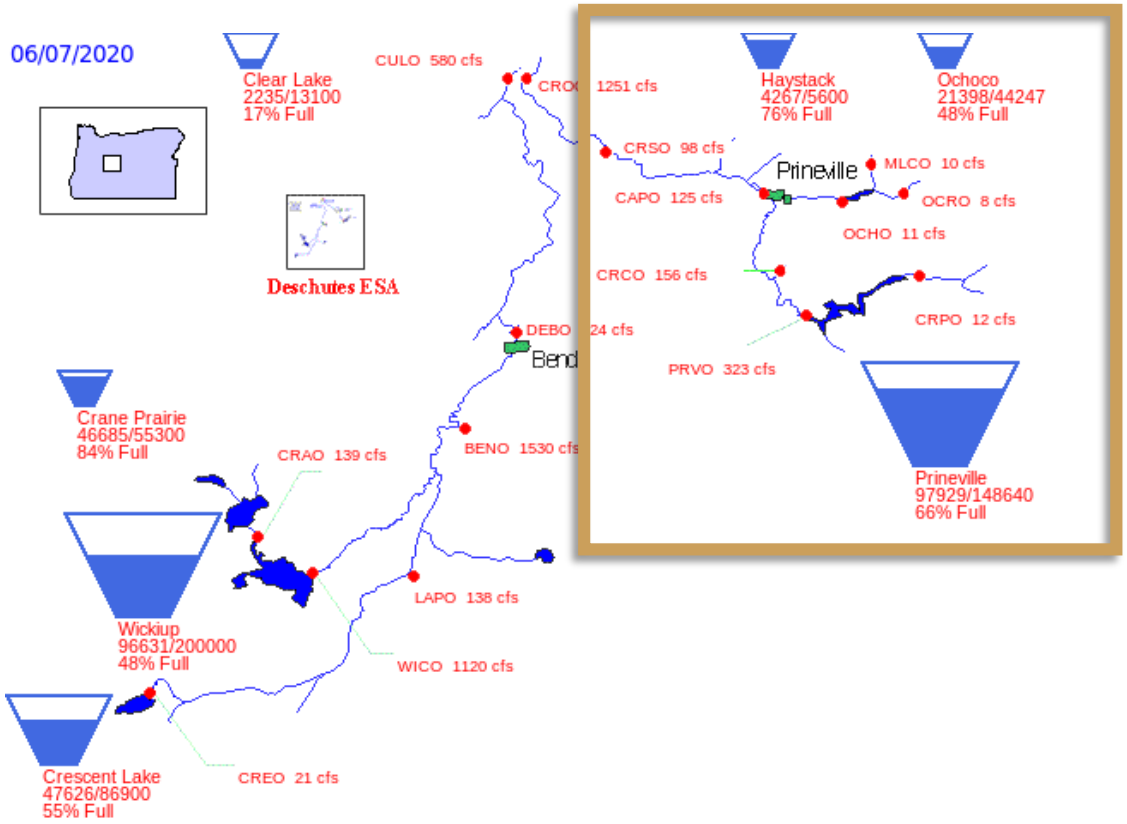


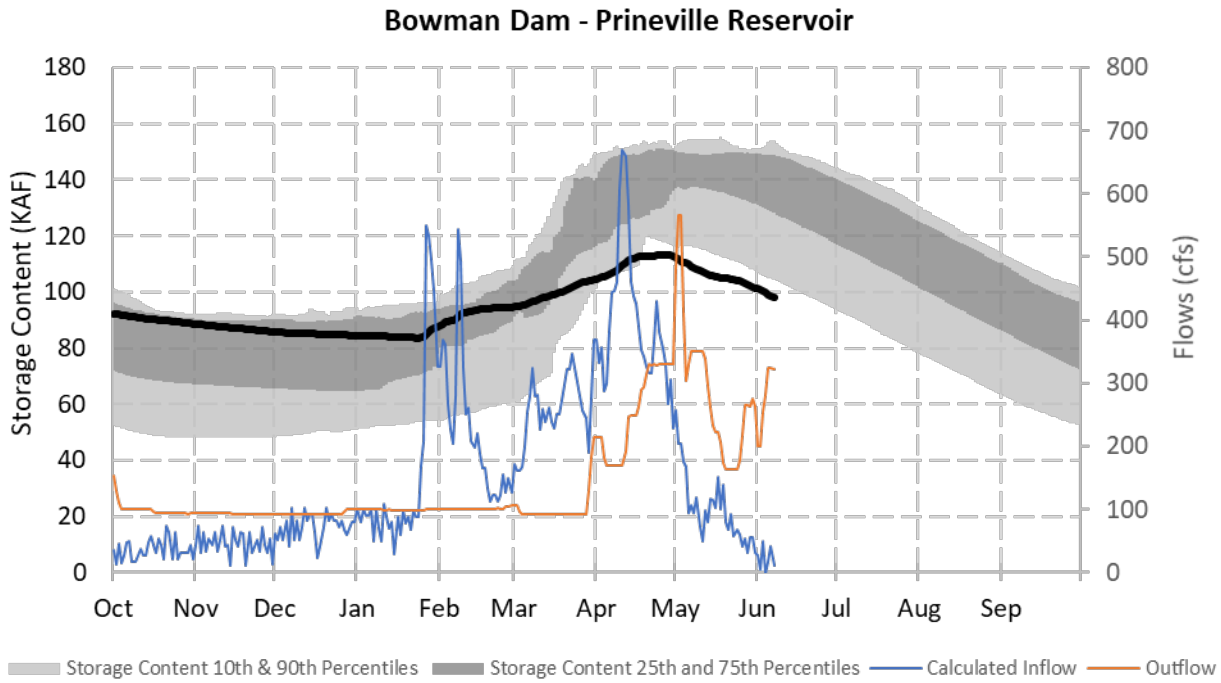
Deschutes River Basin

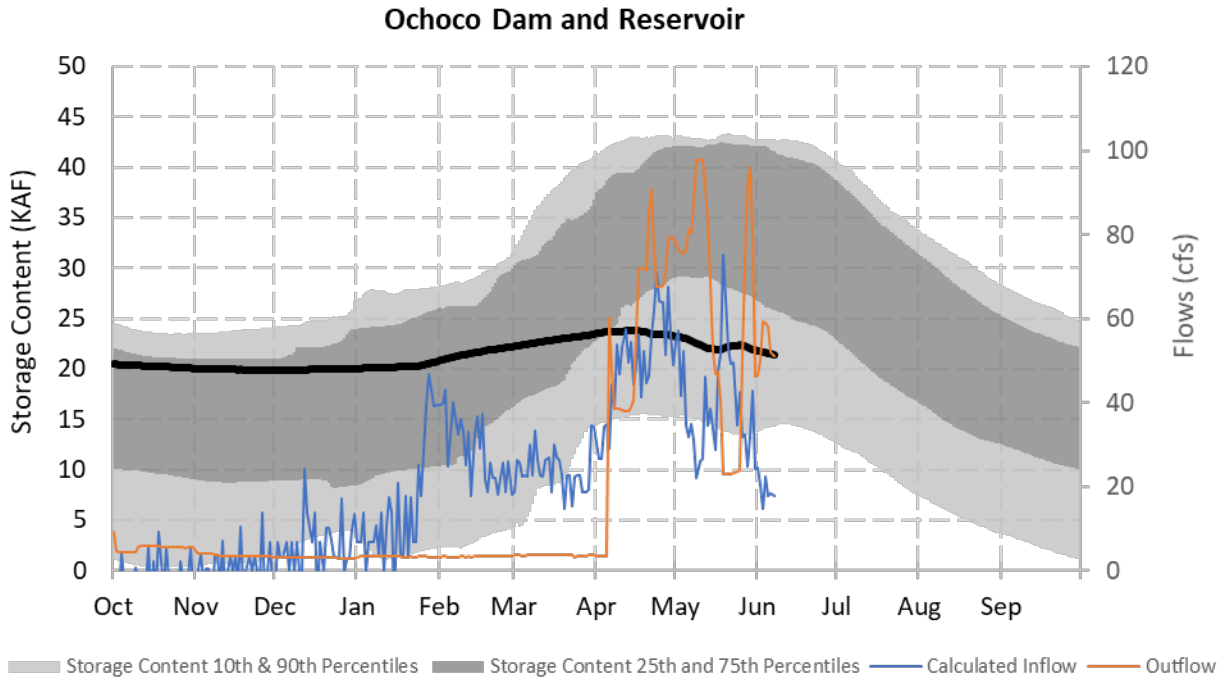




Crooked River Basin

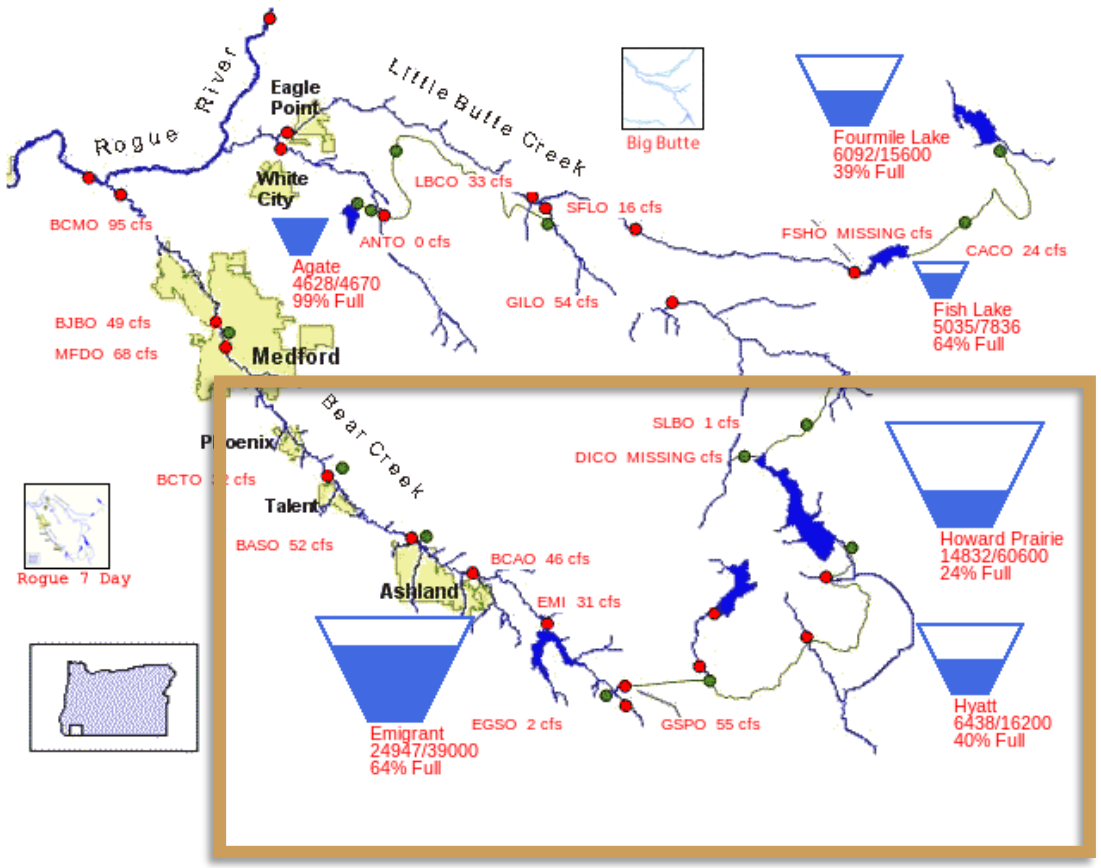


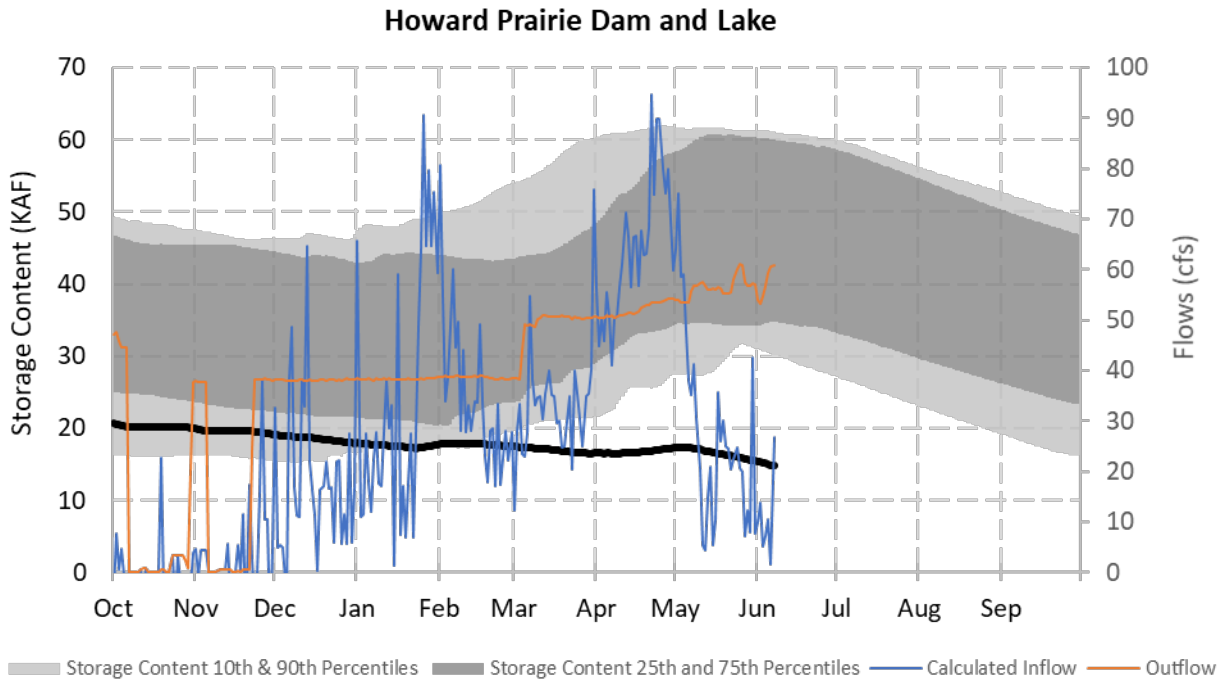


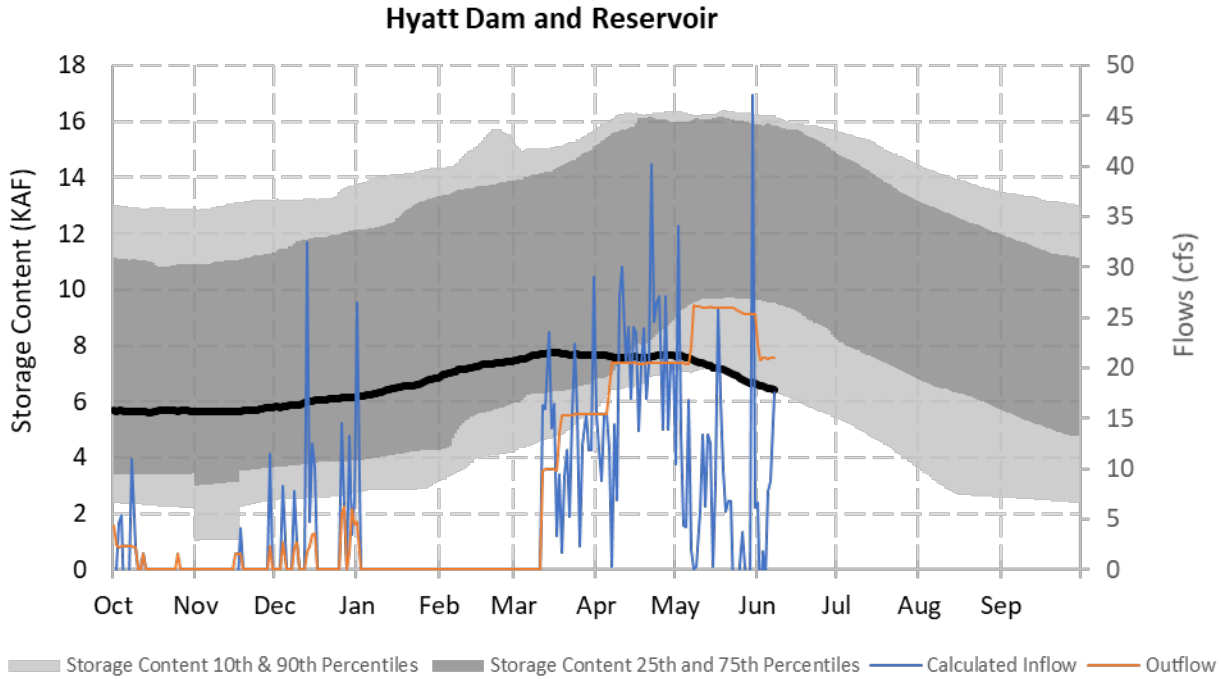


Rogue River Basin

06/07/2020

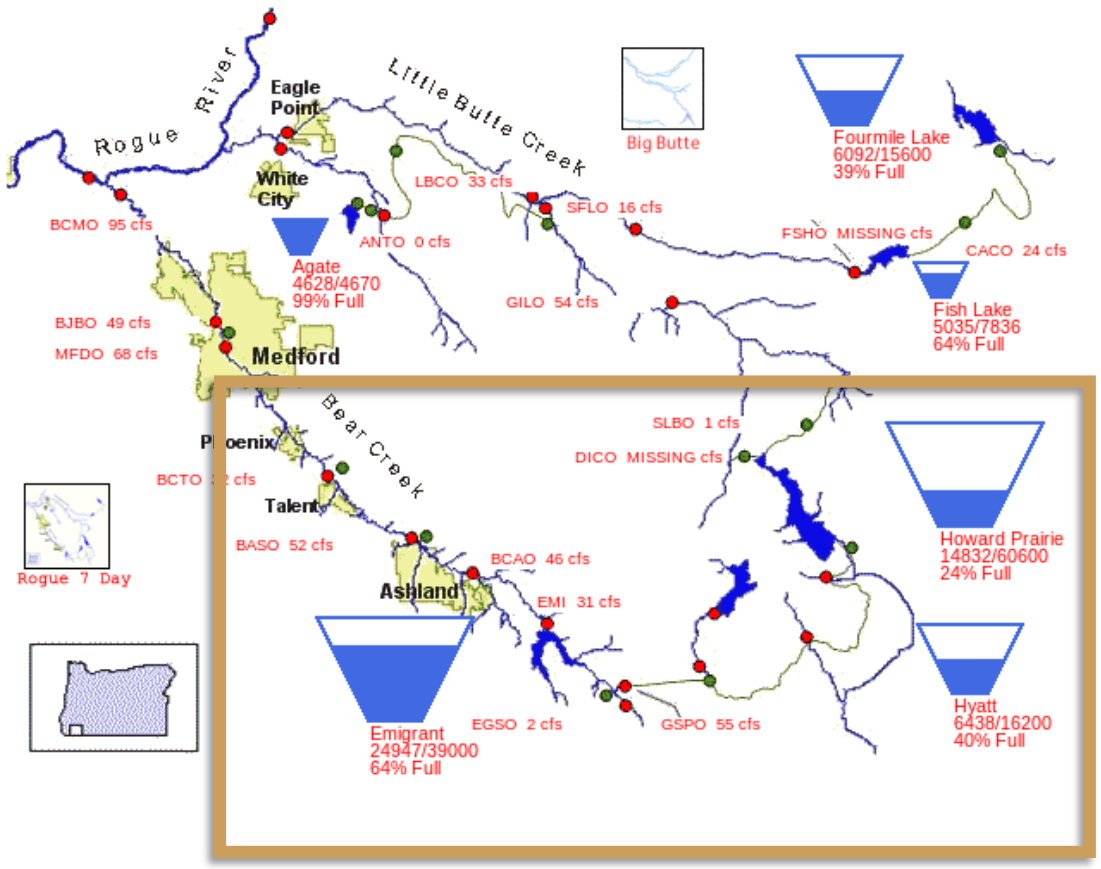


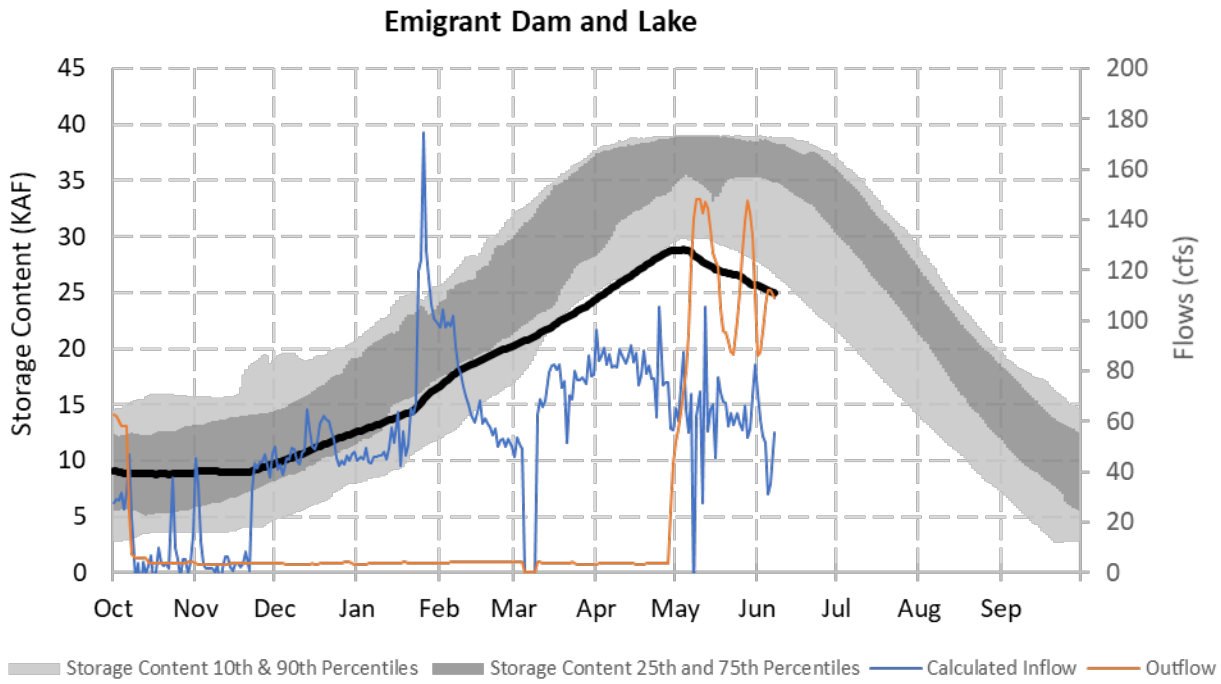




Rogue River Basin

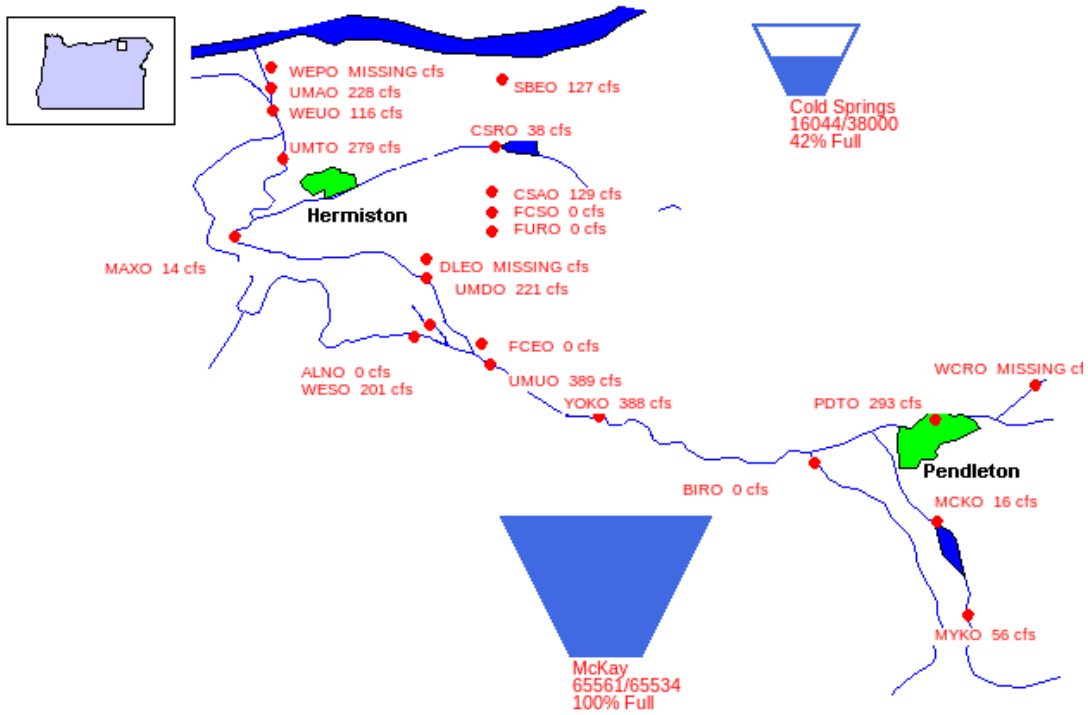
06/07/2020

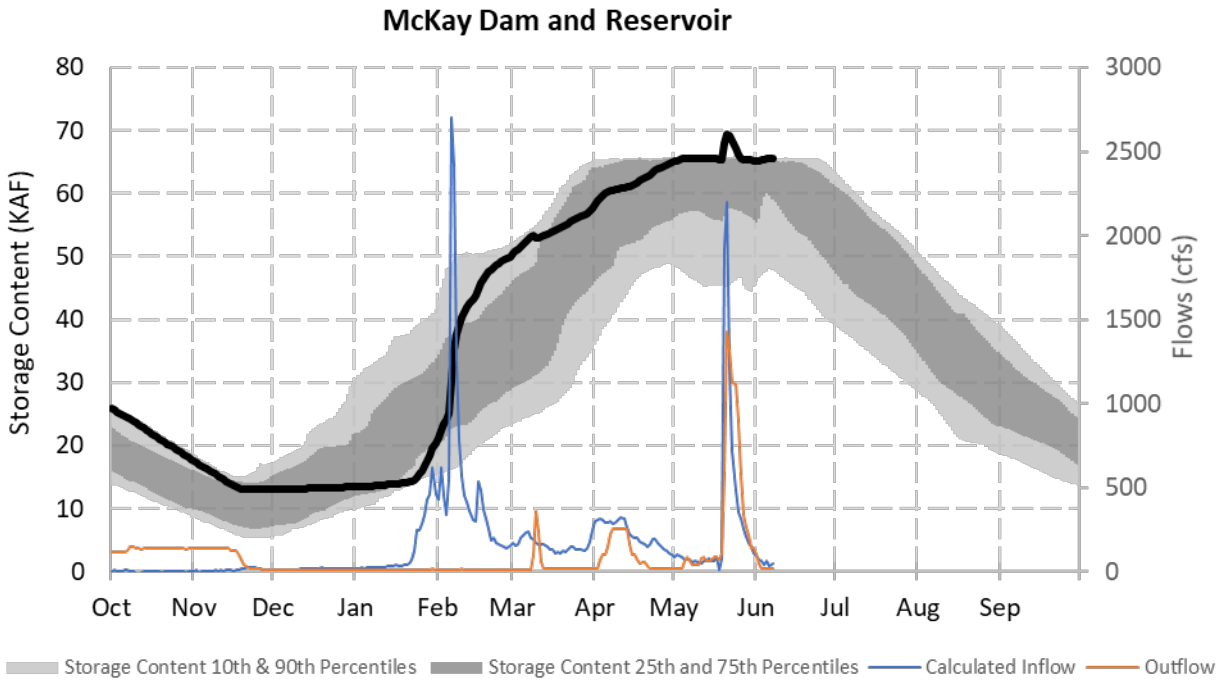




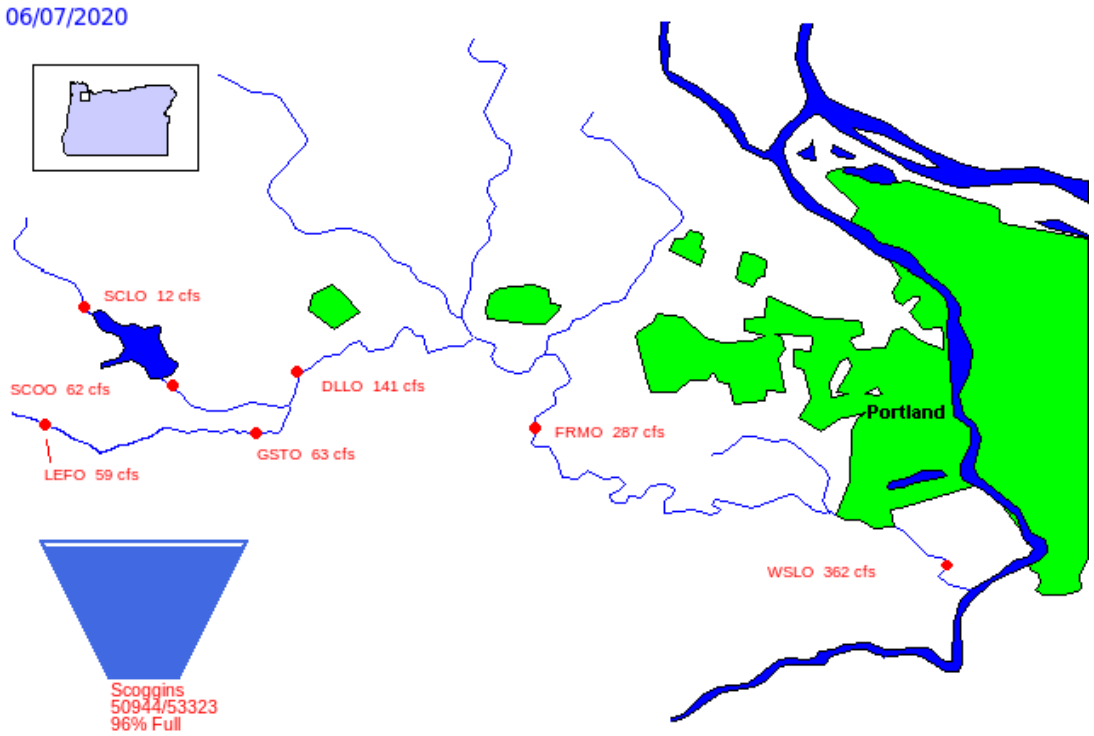
Umatilla River Basin

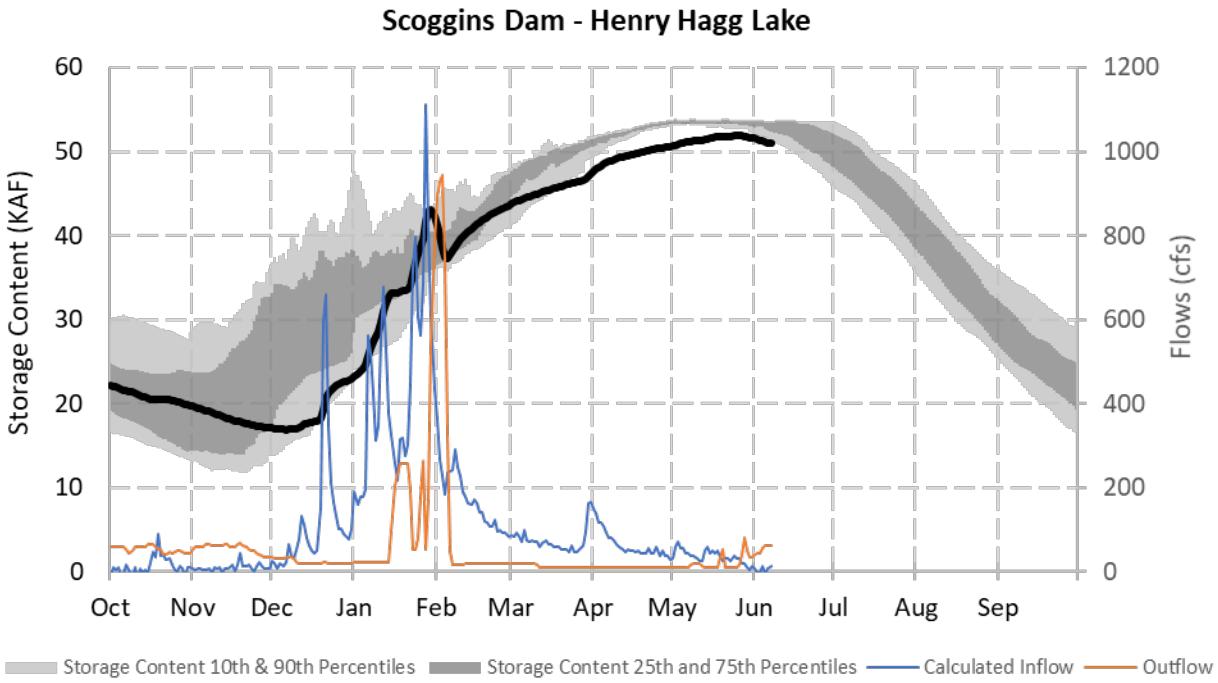
06/07/2020





Tualatin River Basin





Jon Rocha – Columbia Pacific Northwest Regional Office

jrocha@usbr.gov

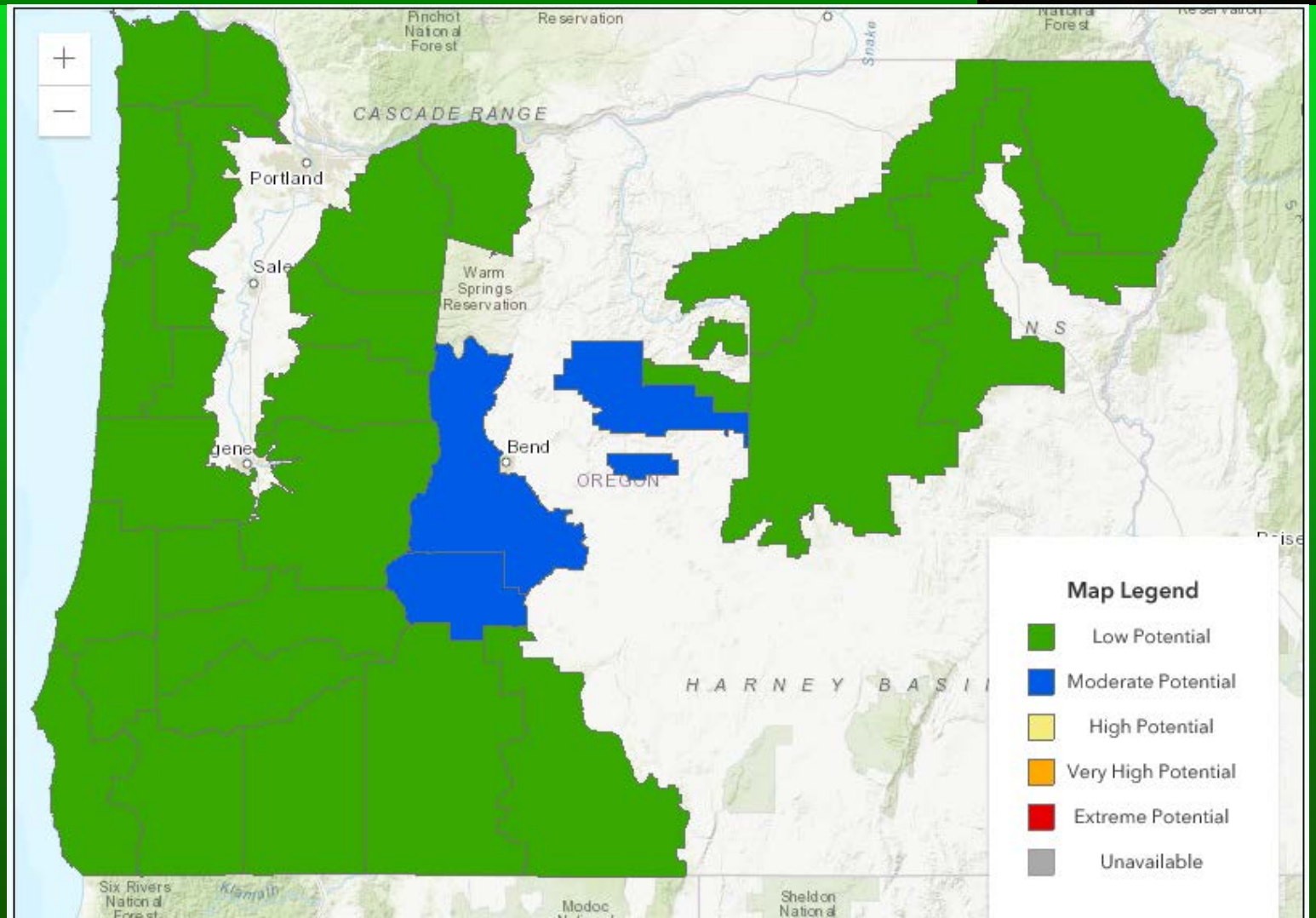
208.378.6213

BUREAU OF RECLAMATION

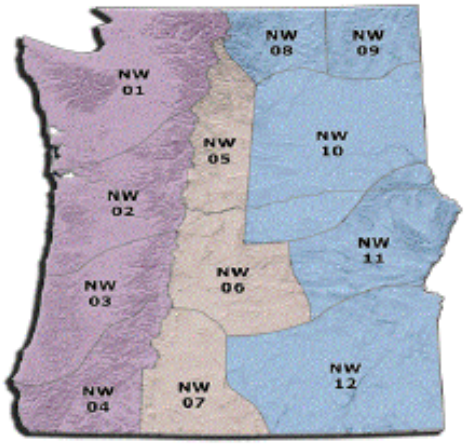
WSAC Wildfire Update

June 2020

Significant Fire Potential, Jun 9



Pacific NW 7-Day Fire Potential



Legend

Fire Environment (FEN) 4 levels	
Minimal	- The Overall Fire Environment suggests a very low risk for Large fires (less than 1% chance)
Normal	- The Overall Fire Environment suggests a normal risk for large fires (1 - 4% chance)
Elevated	- The Overall Fire Environment suggests a moderately high risk for large fires (5 - 19% chance)
High Risk	The risk for large fire(s) is very high (≥ 20%) Triggers: 1. ⚡ (Significant Lightning) 2. BEN (Critical Burn Environment)

The assessment of the overall fire environment considers multiple factors including weather, lightning amount and fuel dryness. Large Fire probabilities are derived objectively via statistical methods. **High Risk** levels (≥ 20% probability of a large fire) are almost always due to significant lightning as burning conditions alone rarely result in a large fire probability much above about 10%.

Pacific Northwest
7 Day Significant Fire Potential

PREDICTIVE SERVICES

Wednesday, 6/10/2020

Predictive Service Areas	ytd	Today	Thu	Fri	Sat	Sun	Mon	Tue
Sunday, 3/29/2020								
NW02								
NW03								
NW04								
NW05								
NW06								
NW07								
NW08								
NW09								
NW10								
NW11								
NW12								

Fire Weather: Temperatures will warm to near seasonal normal today and Thursday. It will be drier today, but still with some isolated showers on the west side, northeastern Washington and northeastern Oregon. Potential for increasing showers and weak thunderstorms around the Blue Mountains this afternoon/evening. Thunderstorm potential expands to cover eastern Washington tomorrow and the entire east side Friday with potential for strong storms on Friday. Breezy westerly winds are expected Friday through the Columbia Gorge, and across the Columbia Basin and southeast Oregon. Cool, wet conditions follow for the weekend with showers lingering into next week. Check NWS forecasts for details in your area.

Fire Potential: While damp conditions will keep significant fire potential generally low through the forecast period, PSA NW10 (Columbia Basin) will see some elevated risk Friday due to thunderstorms and winds.

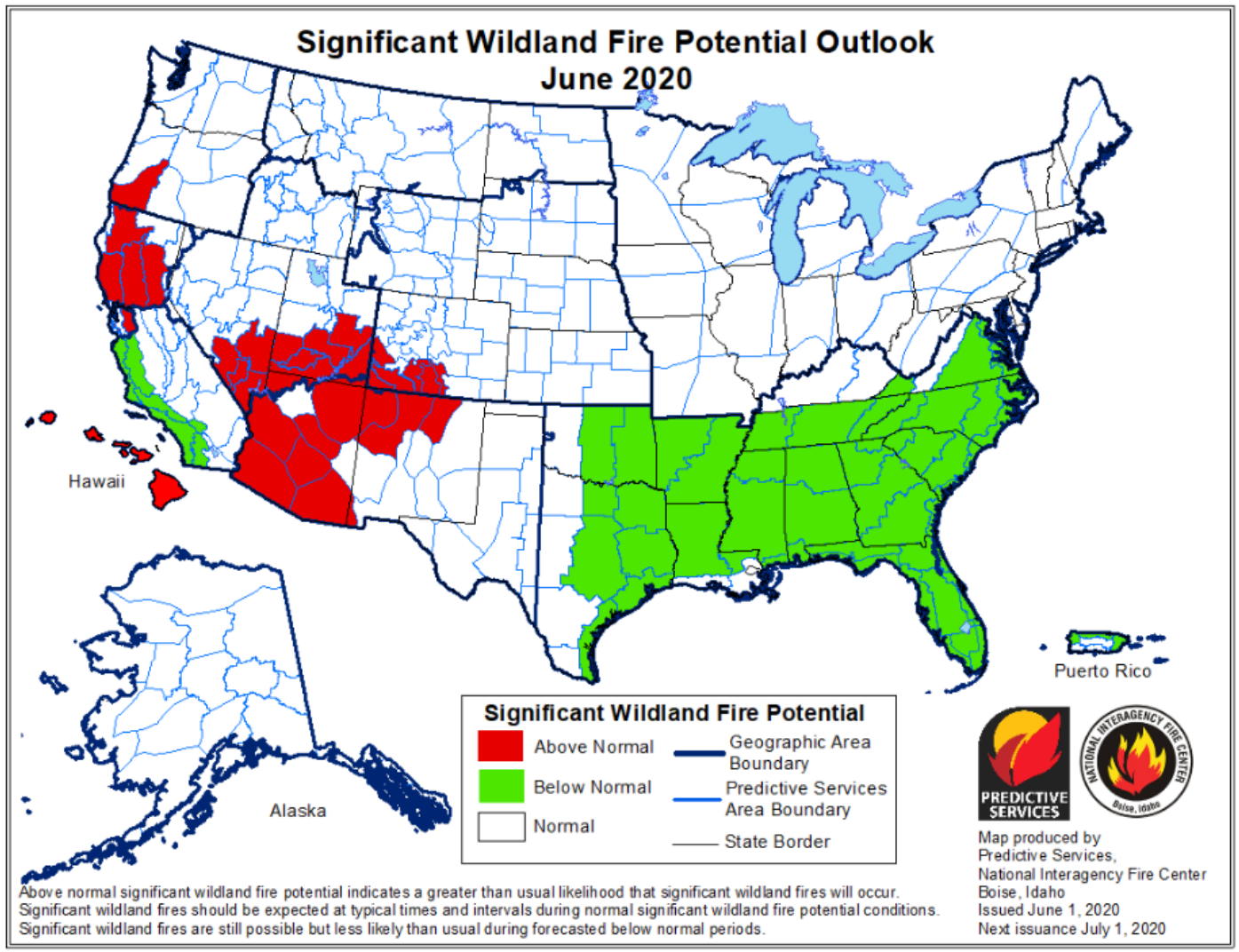
Preparedness Level:

Northwest: 2
National: 2

- Eric Wise

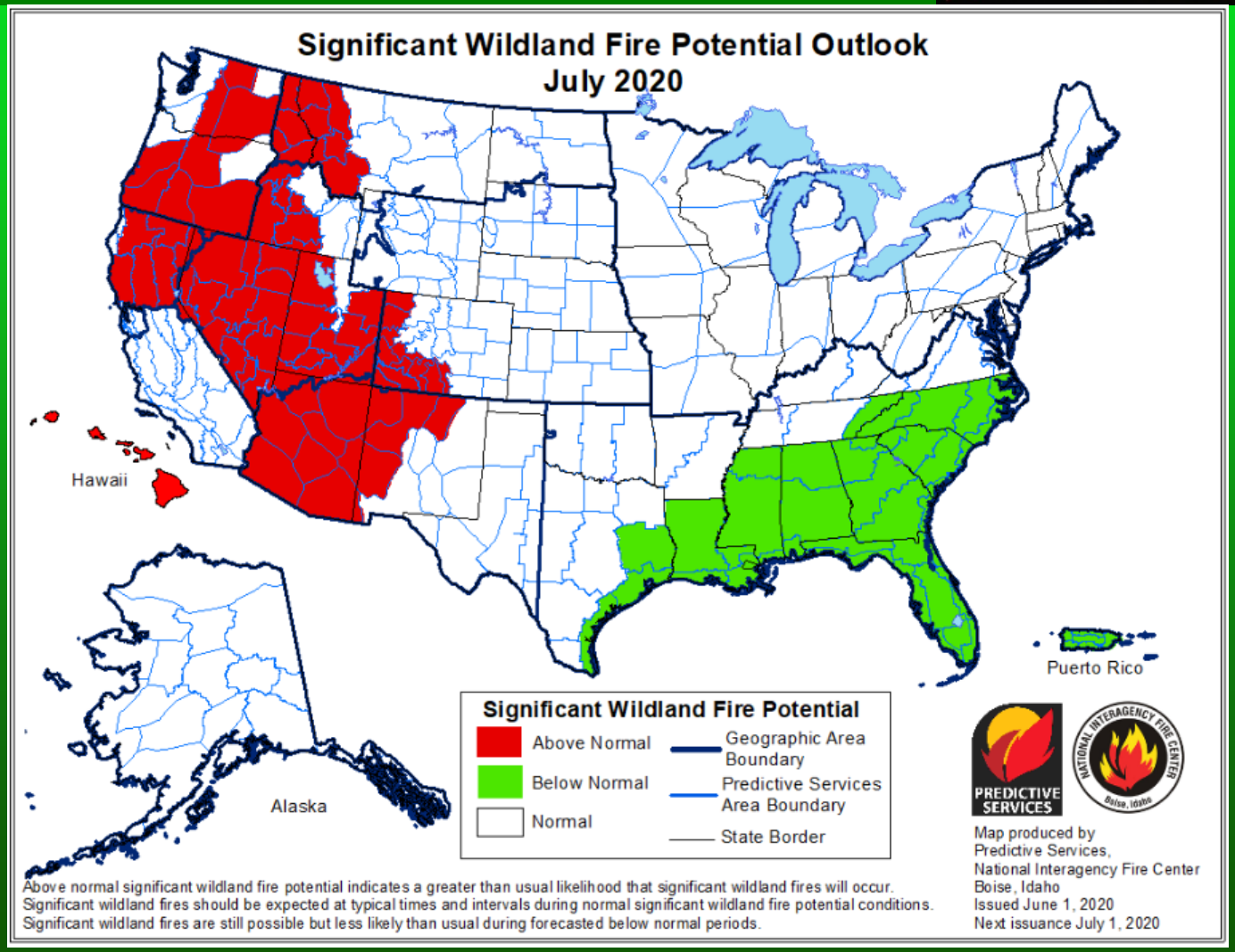
Significant Fire Potential Outlook

June



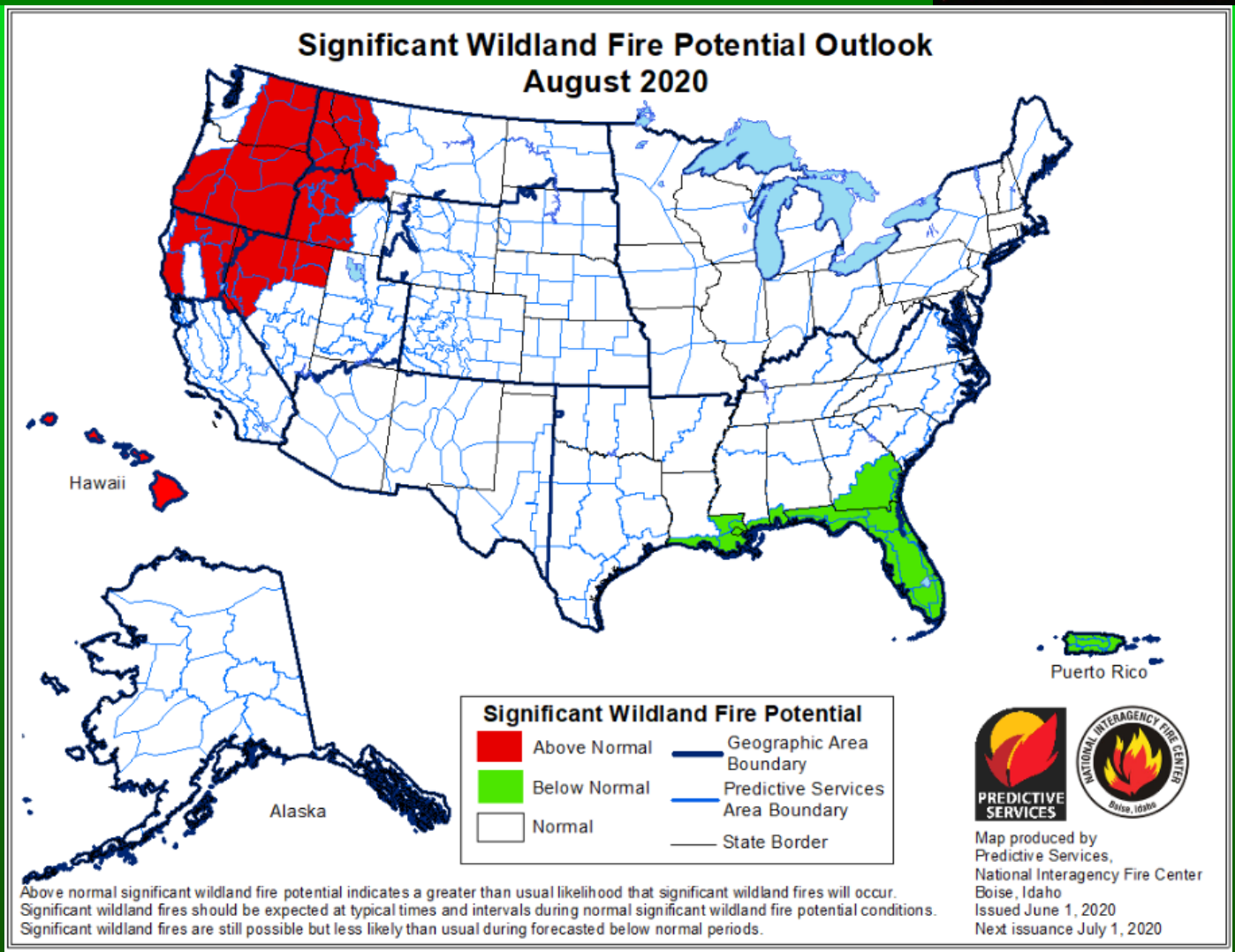
Significant Fire Potential Outlook

July



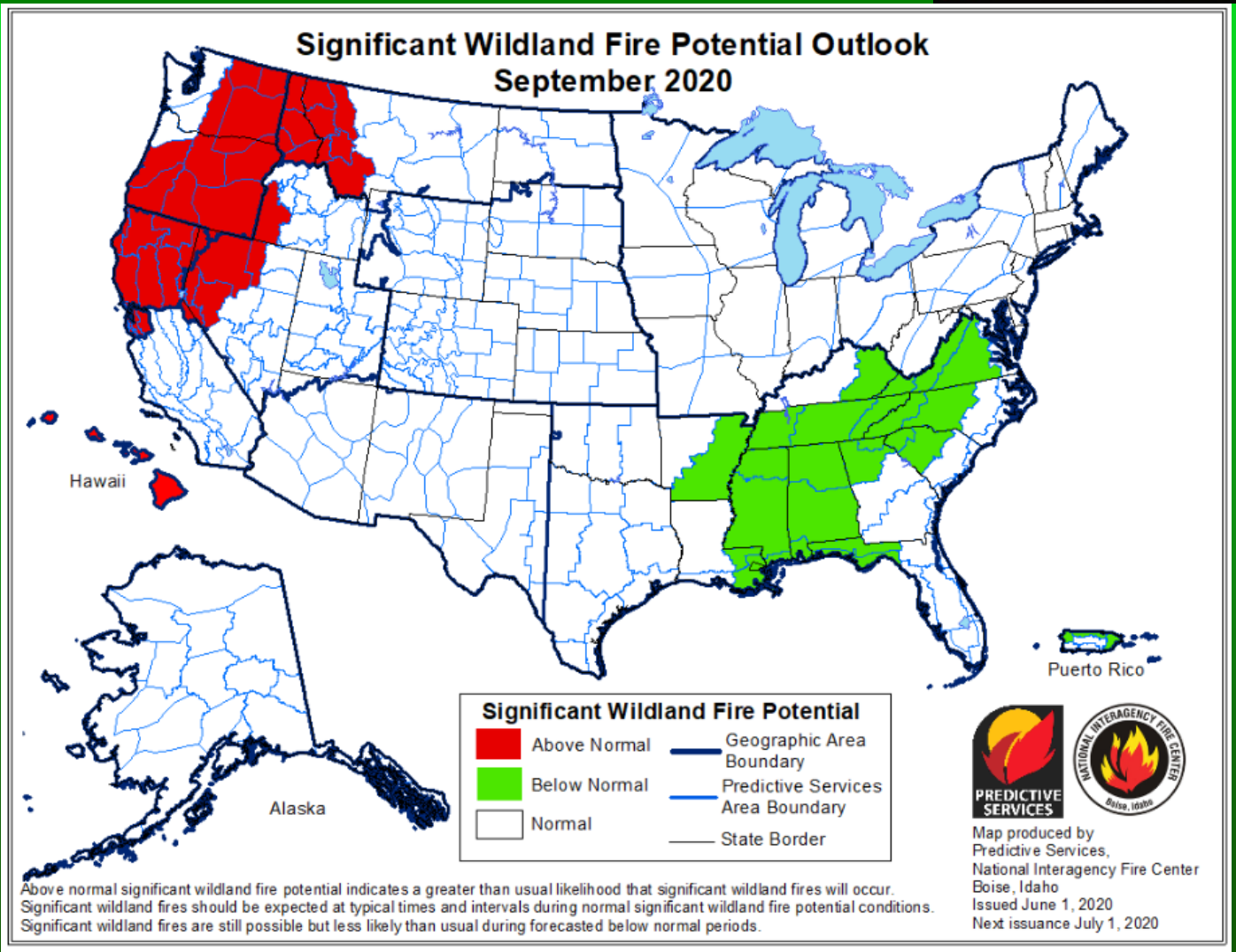
Significant Fire Potential Outlook

August



Significant Fire Potential Outlook

September



WSAC Wildfire Update

Nick.J.Yonker@Oregon.gov

Condition Monitoring Observer Reports (CMOR) on Drought: "See More Drought"

Kelly Helm Smith

NDMC
NATIONAL DROUGHT MITIGATION CENTER
UNIVERSITY OF NEBRASKA

Oregon Water Supply Availability Committee & Drought Readiness Council

June 10, 2020

Condition Monitoring Observer Reports (CMOR): go.unl.edu/CMOR_drought

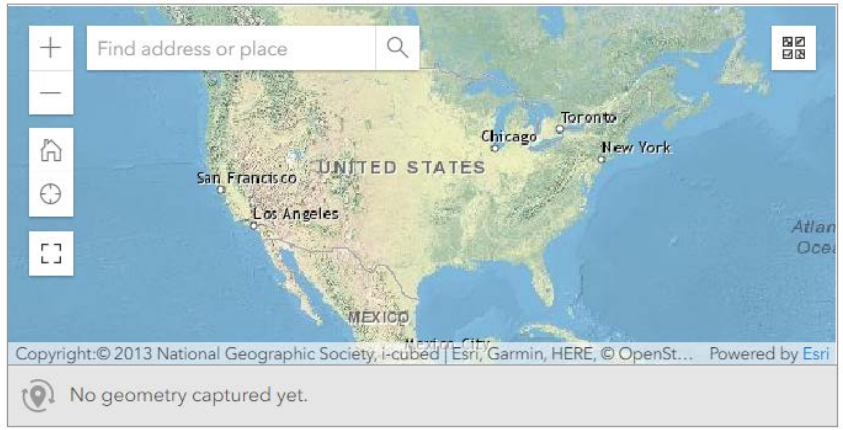
Drought Condition Monitoring Observations and Reports

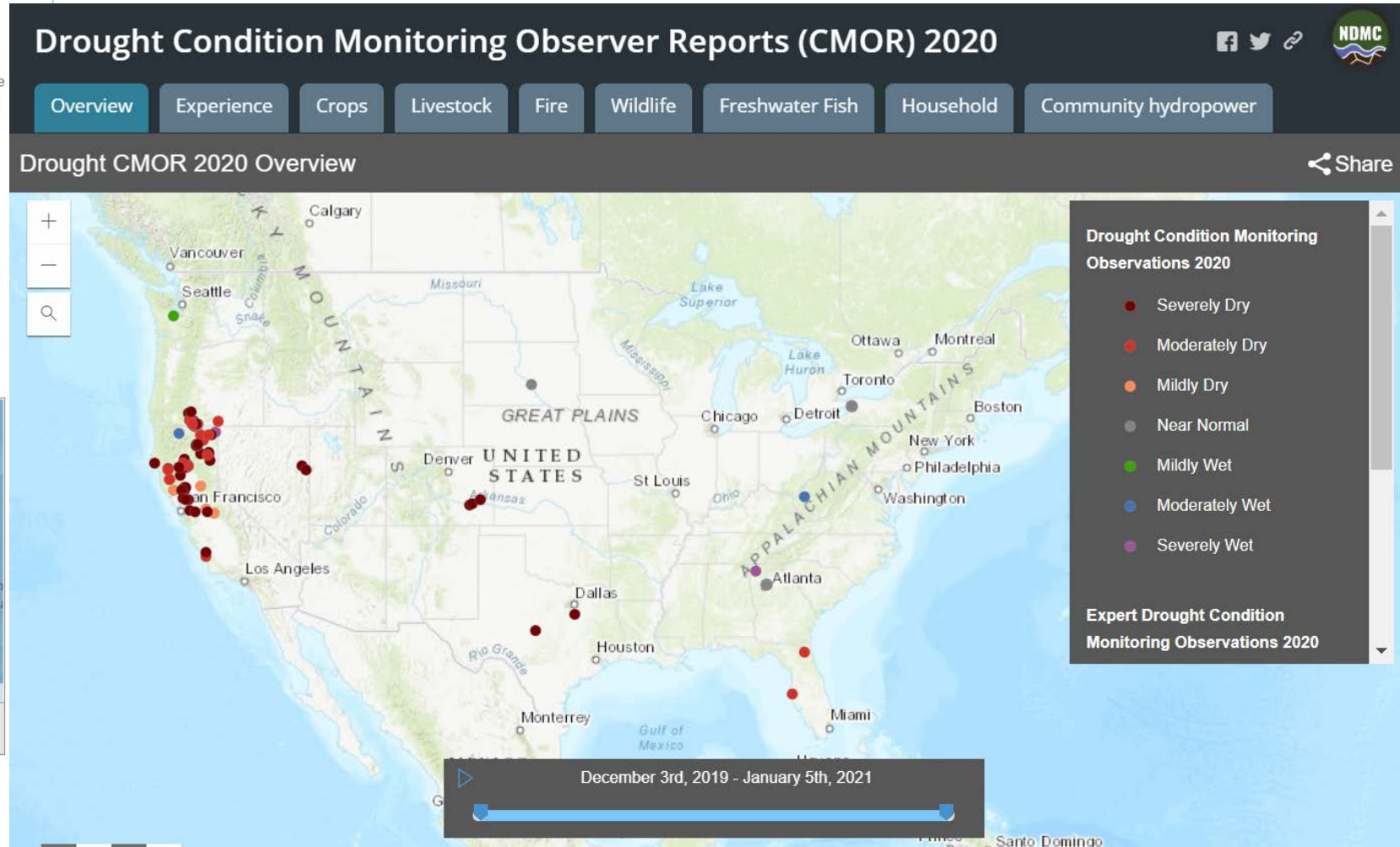
Introduction

Report drought-related conditions and impacts within the U.S. This is a nation-wide service provided by the National Drought Mitigation Center, based at the University of Nebraska, in partnership with the National Integrated Drought Information System. Information submitted by this form appears on this map and becomes part of a permanent public record. Please note that this form is not part of the process to apply for assistance. To participate, you must legally be an adult, at least 18 years old in most states, 19 in Nebraska or Alabama, or 21 in Mississippi. By submitting information, you agree that it may be used in drought monitoring research. Questions? Please email DIRinfo@unl.edu.

Where are you?*

Position the marker on the map for your location using one of three methods: 1) Click on the round compass icon and allow access to your location. 2) Enter an address or the name of a place in the search window. 3) Drag the map until the marker points to the correct location. *Use the plus or minus if you want to zoom in or out after you have placed the marker. Scrolling will move the marker.*





go.unl.edu/CMOR_drought_2020
Step 1: Geolocation

And then don't scroll!
It will move your marker!
Use the plus or minus buttons if you want to zoom after you have used the map widget to place your marker in the right spot.

Select your jurisdiction:

Select a state/territory:

This will help us spot wrong locations but does not position your rep
Use the marker on the map above to make sure your report shows u

-Please Select-

Select a local jurisdiction:

This will help us spot wrong locations but does not position your report correctly on the map.
Use the marker on the map above to make sure your report shows up in the right place.

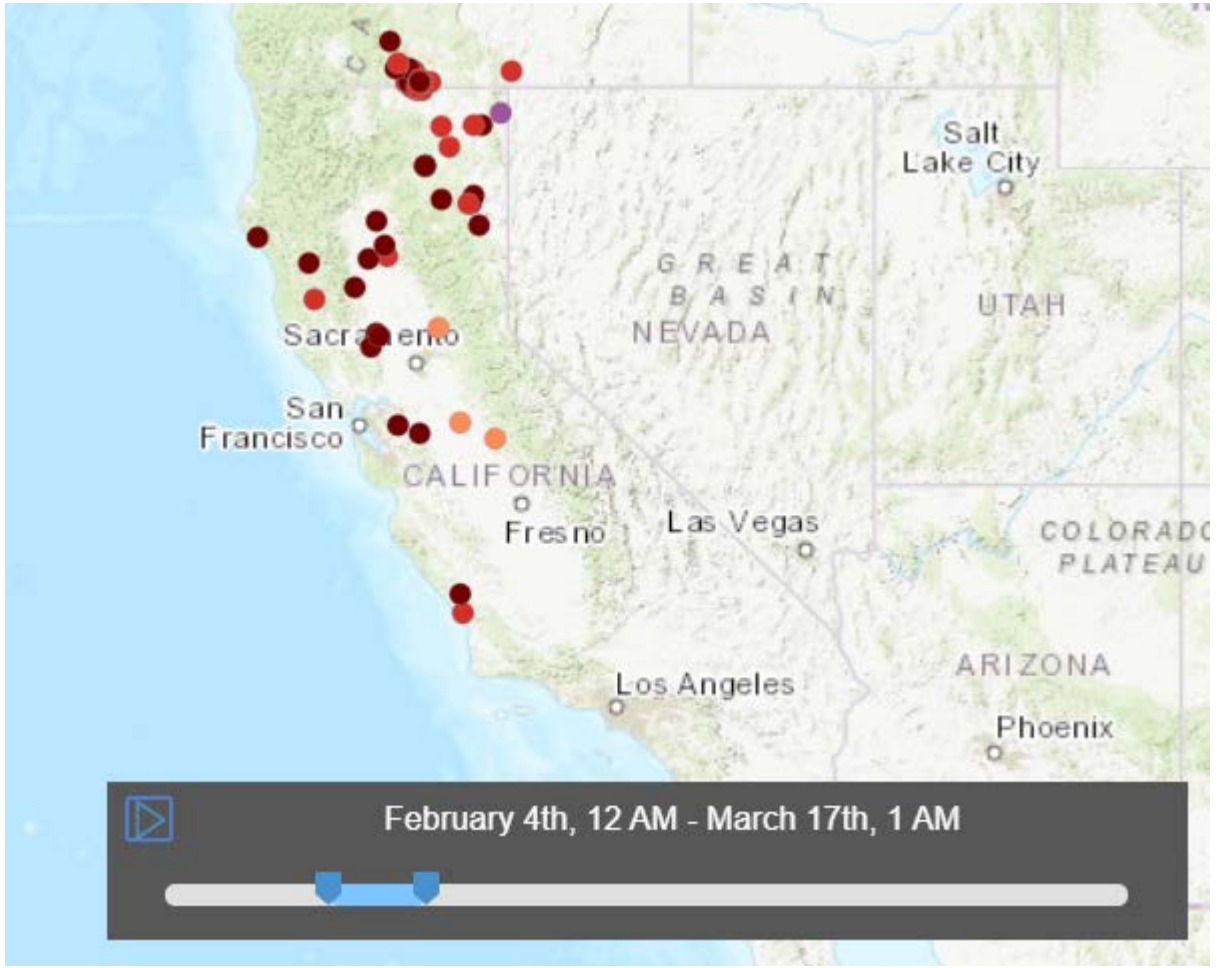
-Please Select-

Time-sensitive mapping

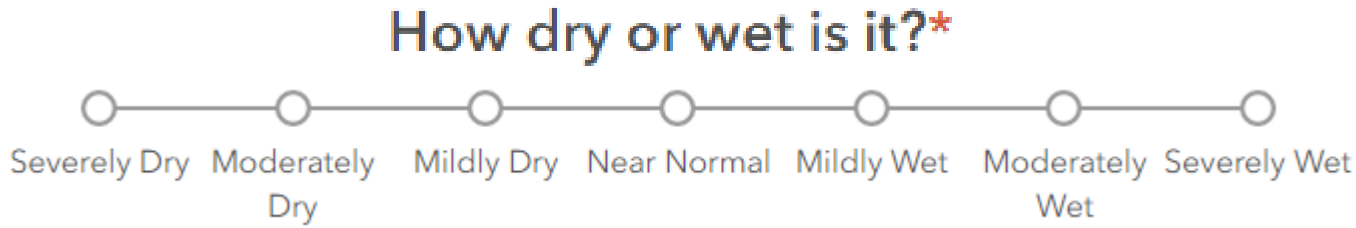
What is the date?

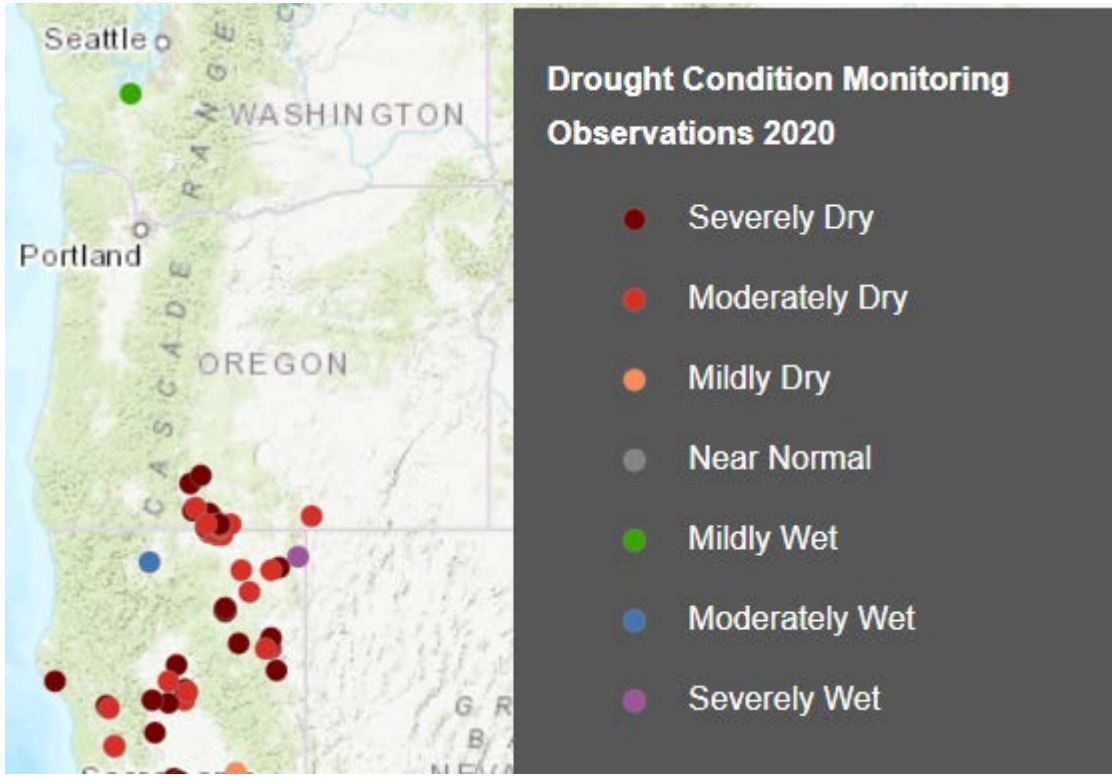
Please use the calendar to select the date of your observation, if it is other than today.

4/22/20



Common context: Dry-to-wet scale, from CoCoRaHS citizen science network

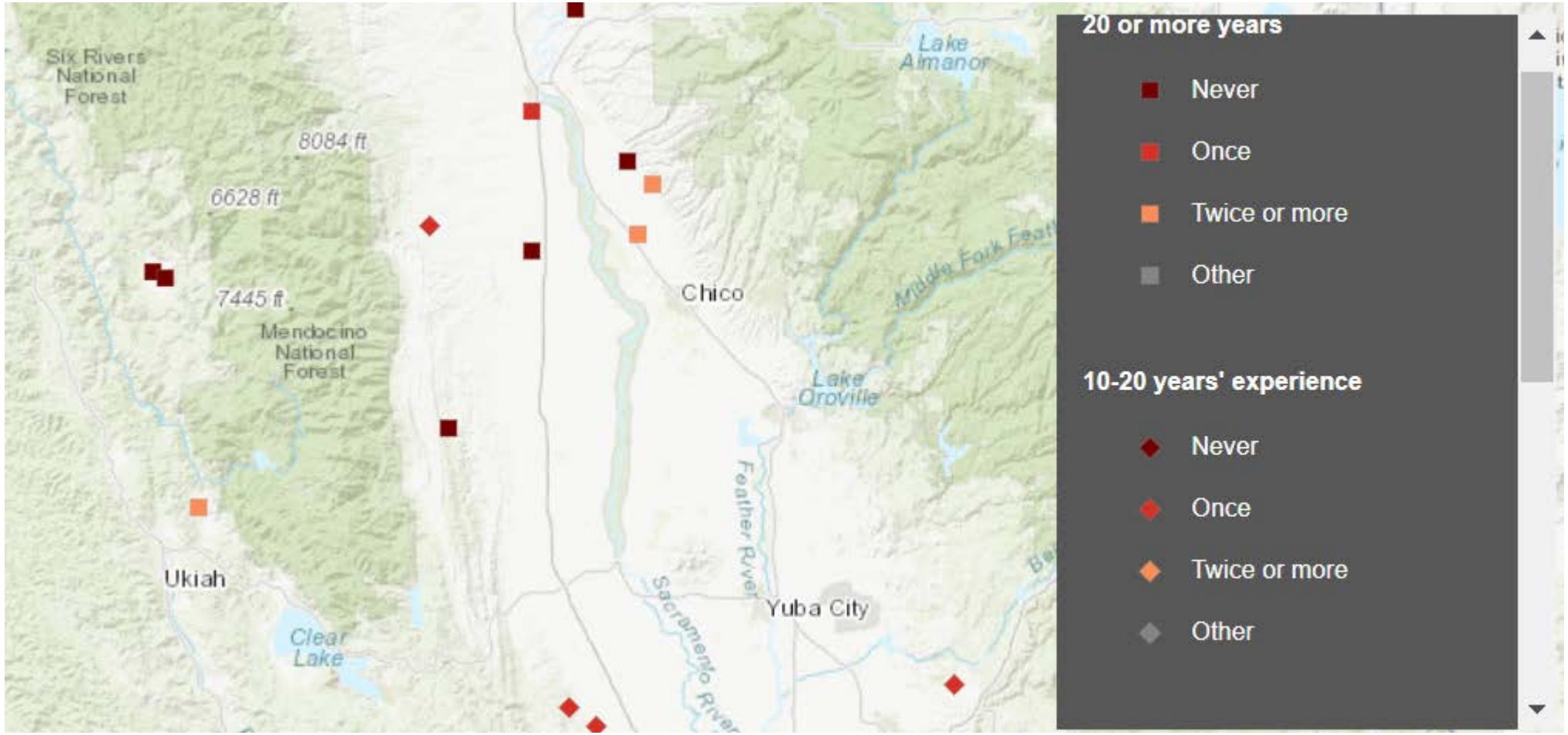




USDM context: 1 in 10? 1 in 20?

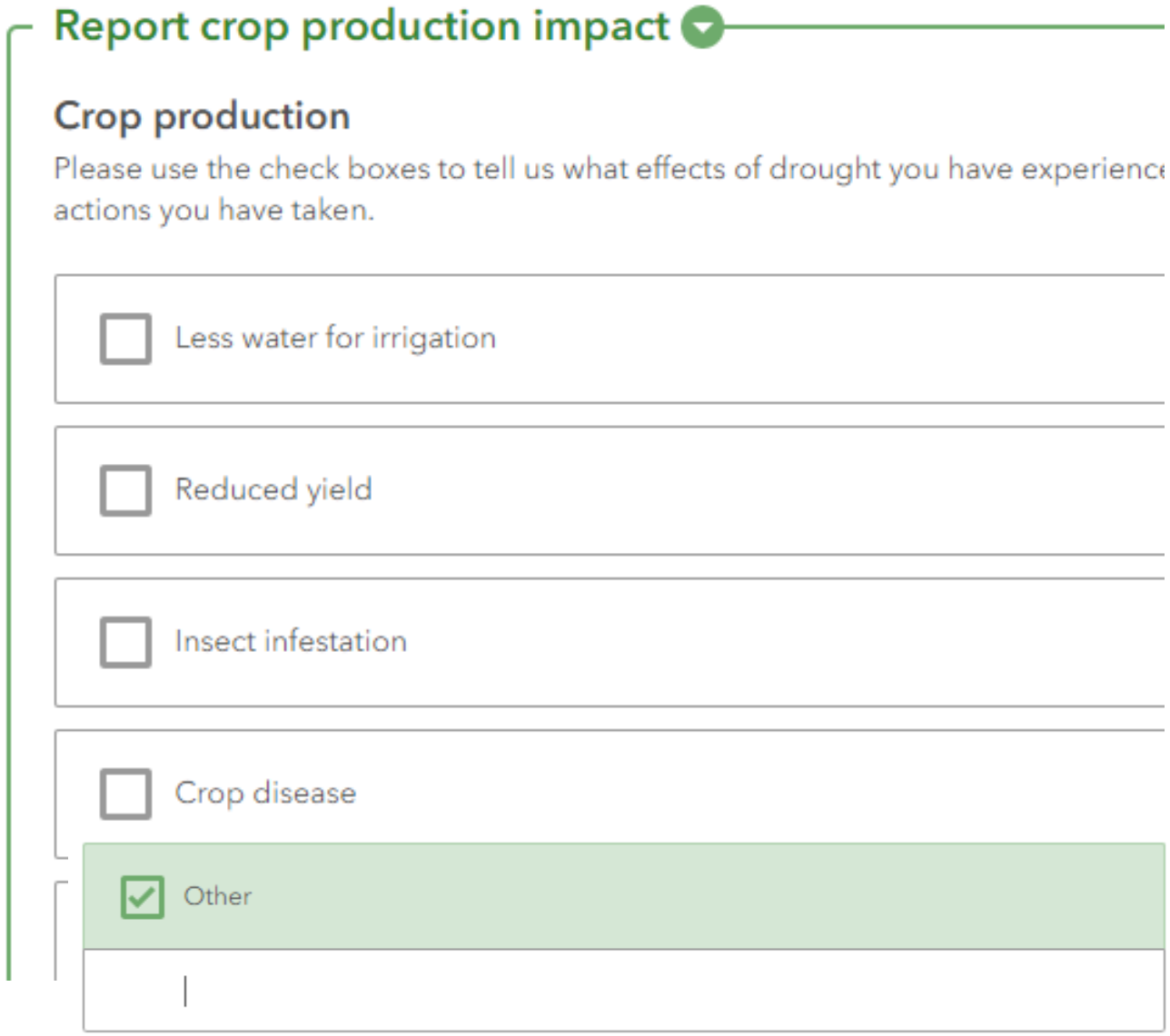
How much experience do you have with conditions there?

How many times in the past have you seen it like this?



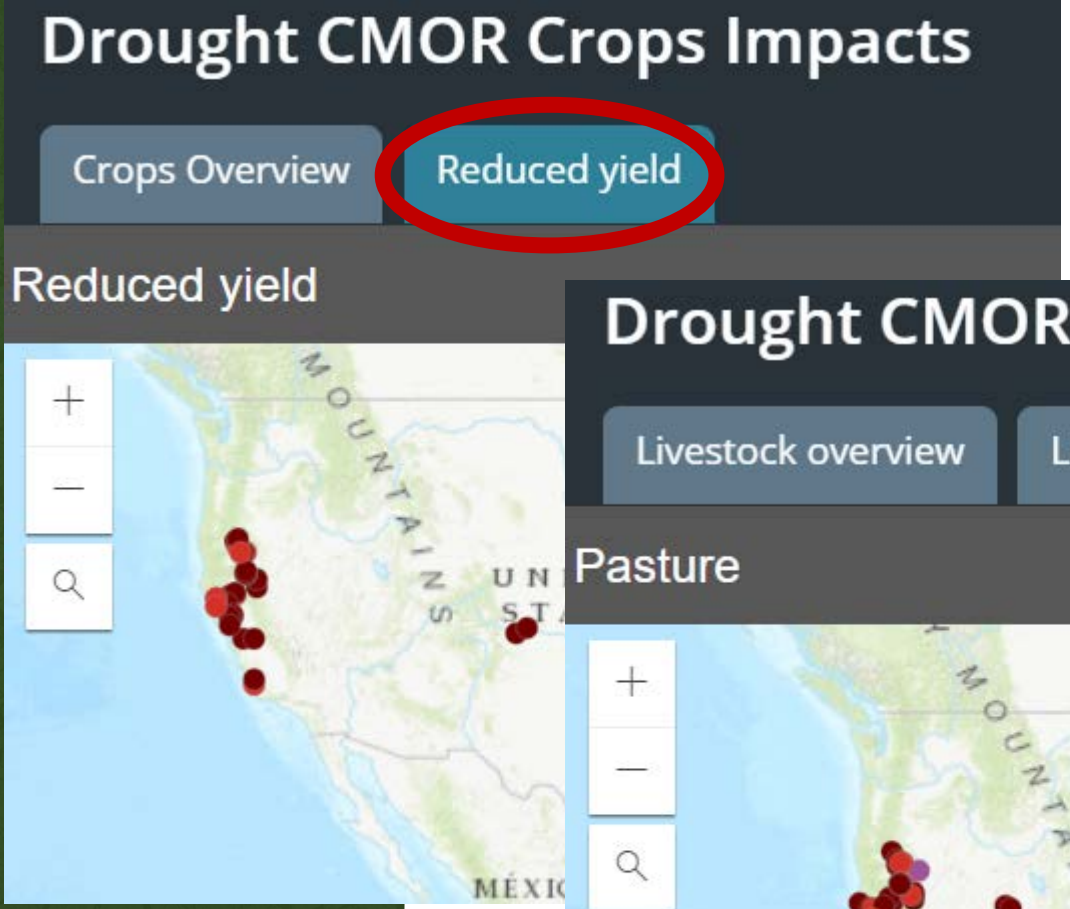
- Report crop production impact
- Report livestock production impact
- Report municipal water supply impact
- Report community hydropower impact
- Report health impact
- Report household impact
- Report recreation or tourism impact
- Report other business or industry impact
- Report fire impact
- Report forest impact
- Report wildlife impact
- Report freshwater fish impact
- Report spawning fish impact

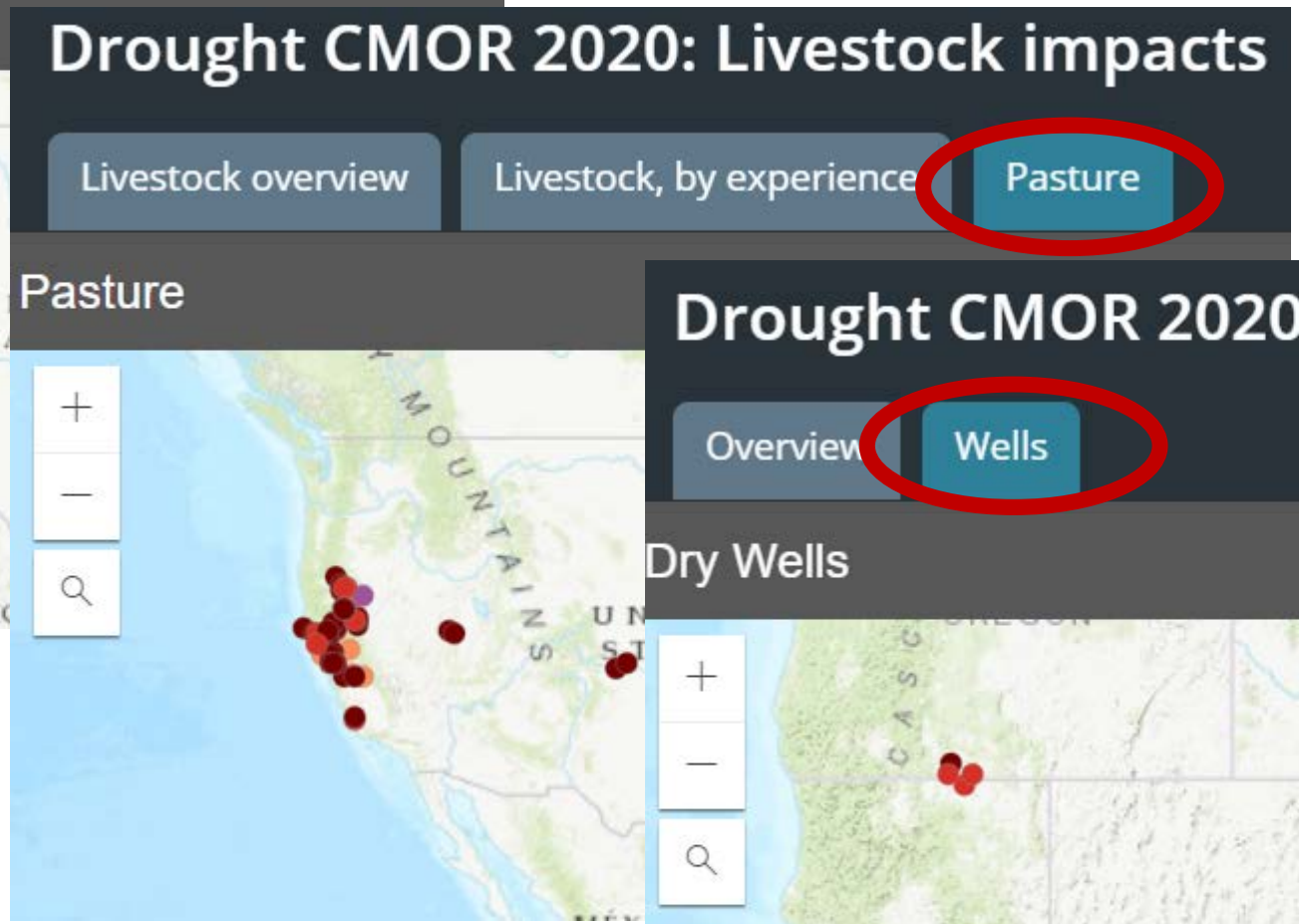
Impact checklists



Sector-specific tabs

Impact-specific tabs





Photos

Upload photo

You can upload a photo of up to 10 MB, if you are the photographer or have permission to share the photo. It will be visible on the web. Please be sure to use the description field below for credit and caption information: Who took the photo, what is the location, what is the date, and what is it showing us? By uploading the photo, you agree that it may be used and shared for educational and management purposes.

Press here to choose image file. (<10MB)

Description and/or caption information

Did you upload a photo? If so please tell us how we should credit the photo, and what it is showing us.
Please provide any other description that will help us understand the drought impact or conditions that you checked, for example: What kind of crops do you grow? What kind of animals do you raise? Do you rely on your own well or are you part of a municipal system?

1000

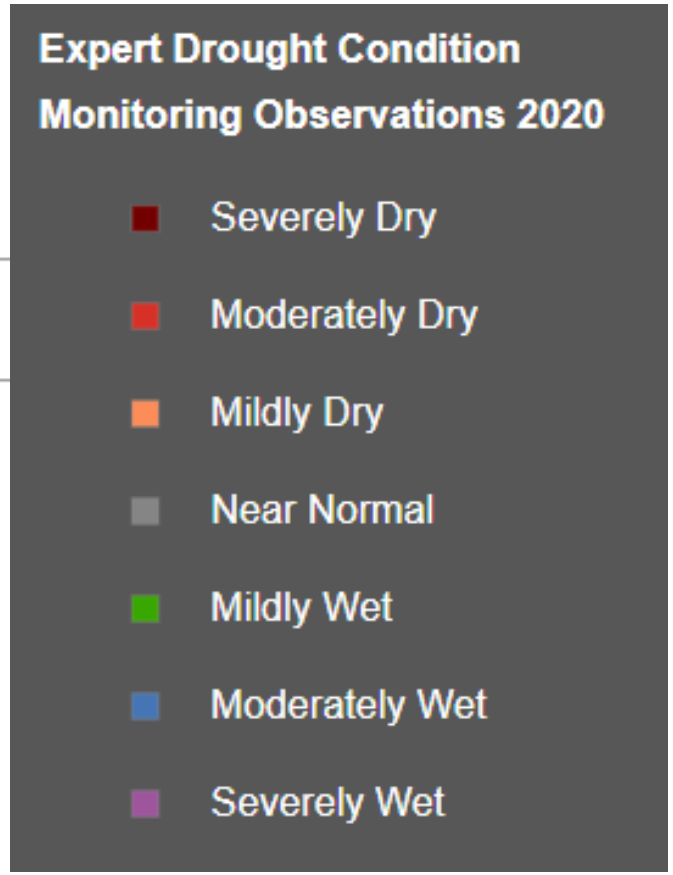
Contact info & observer code

- Contact information, in case we need to follow up, but we don't display or share it

Identification code

Please enter your observer code if one has been provided to you.

Request the expert code:
ksmith2@unl.edu



Drill into points for detail

(1 of 2)

How much experience do you have with conditions there?	20 or more years
How many times in the past have you seen it like this?	Twice or more
Other	
When was it like this in the past?	
When was it most recently like this?	2011
Livestock production	reduced_pasture_forage, decreased_stock_weights,animal_stress,reduced_grazing_on_public_lands,less_water,sold_livestock
Other	
Report household impact	low_or_dry_well
Other	

Description and/or caption information	Severely dry conditions and no rainfall has led to having to heavily supplement pasture cow/calf operations with hay

Attachments:

D4BEE002-2CF1-4EE5-8512-1A60ED4F405A.jpeg

Quick Links

- Condition Monitoring landing page: go.unl.edu/CMOR_drought
- 2020 survey form: go.unl.edu/CMOR_drought_2020

- Questions? Need the expert code? Email: ksmith2@unl.edu

And remember: Consistency counts!