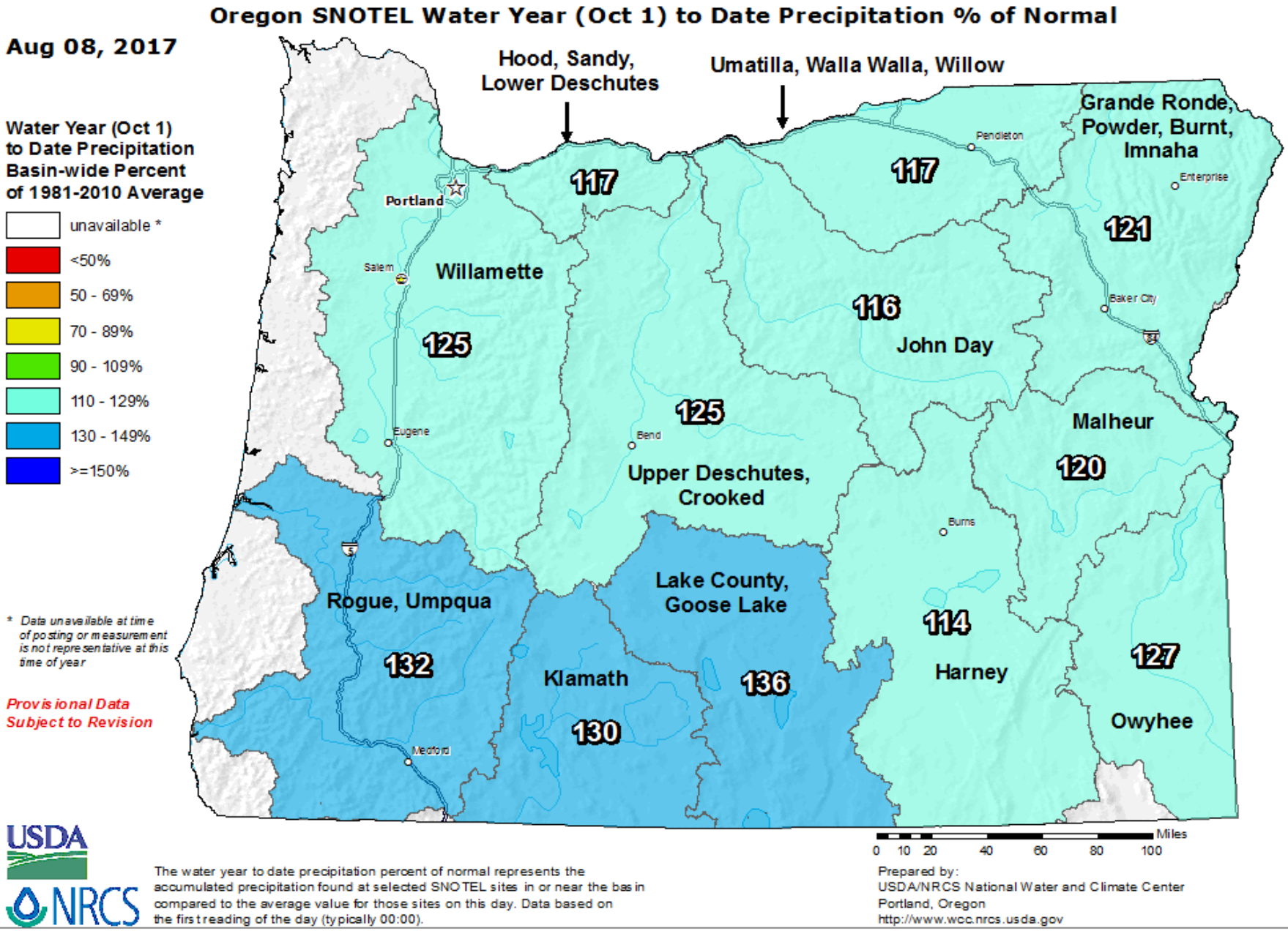
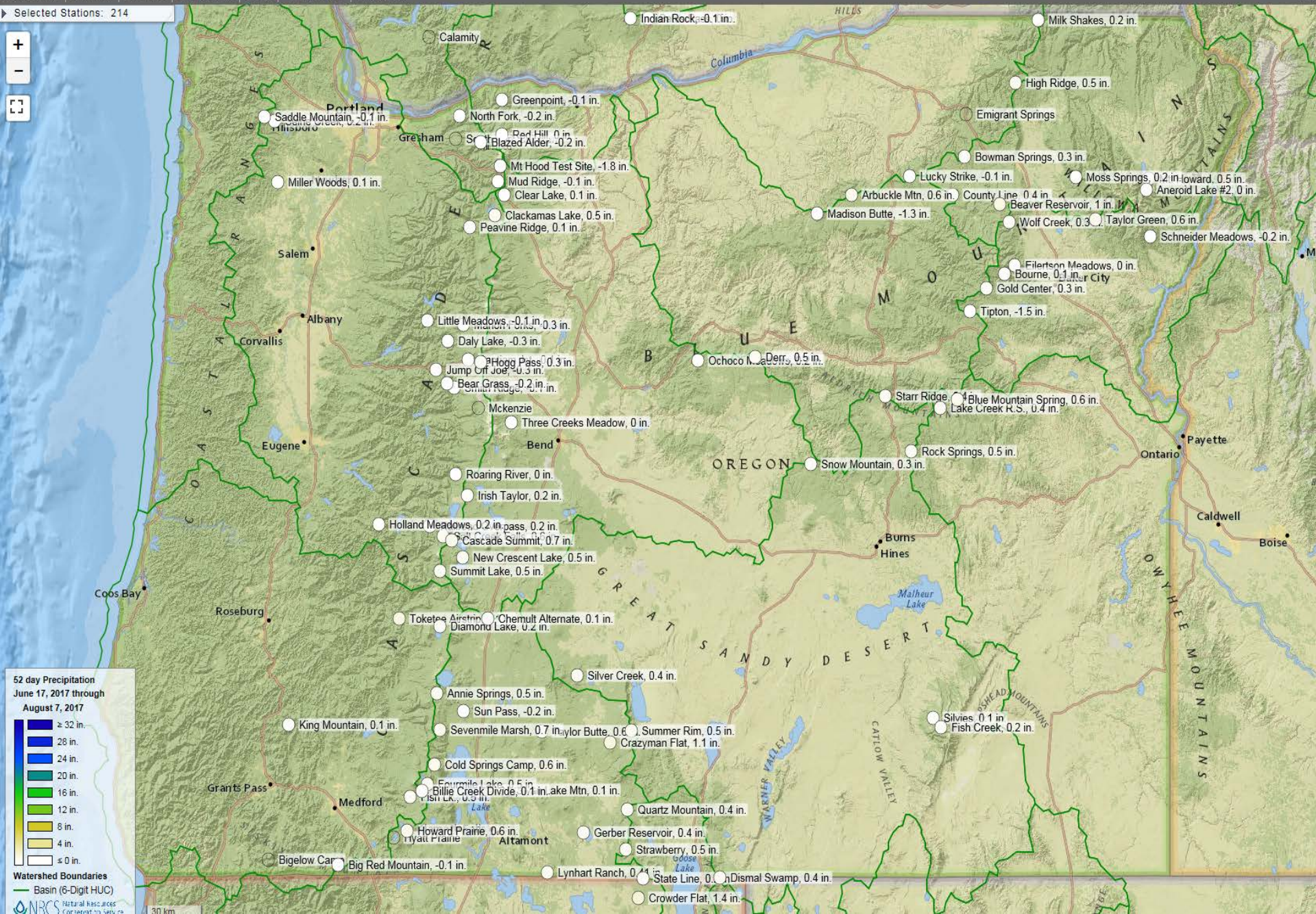
Statewide SNOTEL Precipitation is 124% of normal

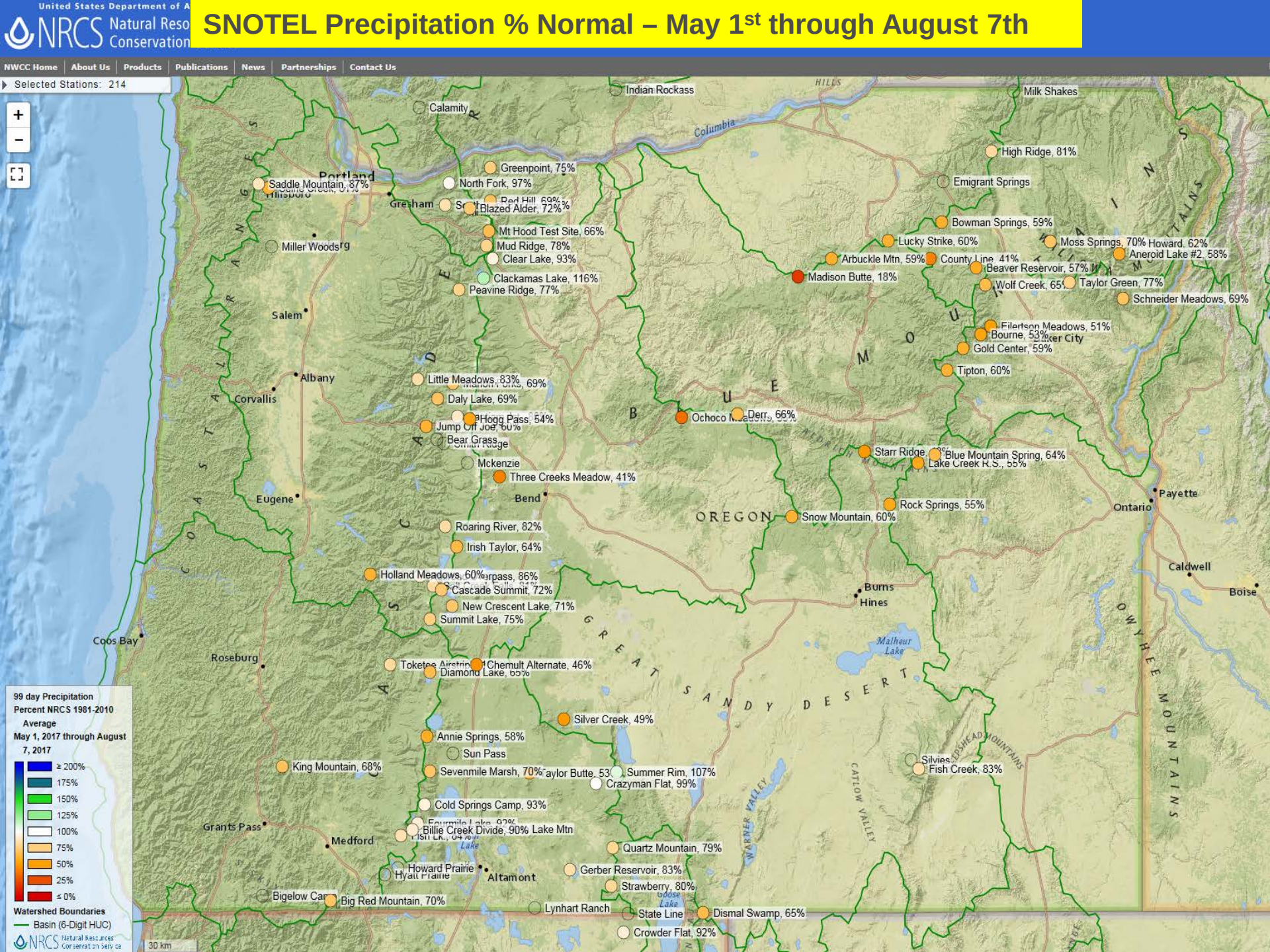


United States Department of Agriculture
NRCS Natural Resources Conservation Service
National Water and Climate Center

SNOTEL Precipitation past 52 days

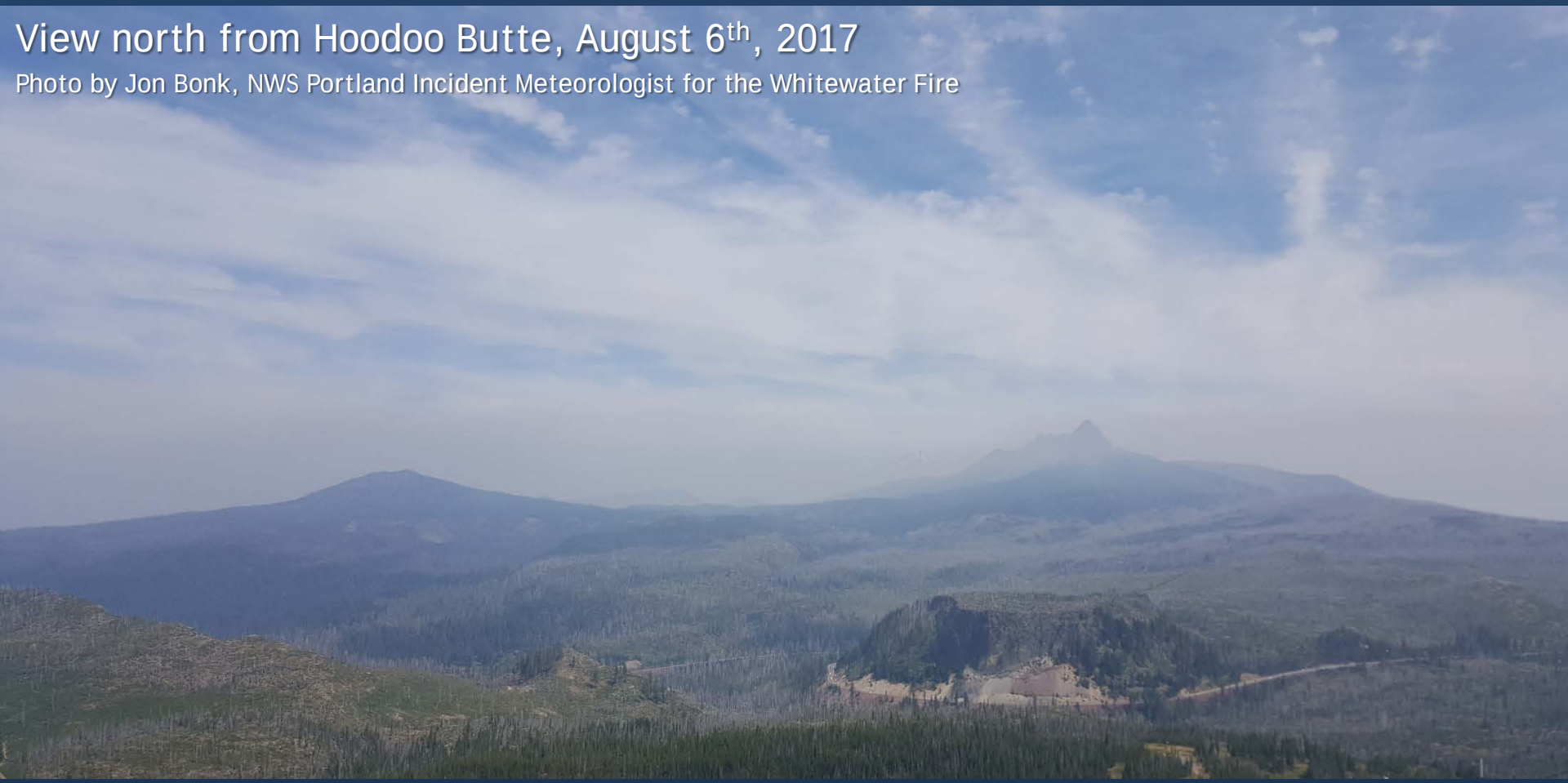
NWCC Home | About Us | Products | Publications | News | Partnerships | Contact Us | Map




United States Department of A
NRCS Natural Reso
Conservation
SNOTEL Precipitation % Normal – May 1st through August 7th
NWCC Home | About Us | Products | Publications | News | Partnerships | Contact Us
Selected Stations: 214
Indian Rockass
Calamity
Milk Shakes
High Ridge, 81%
Columbia
Greenpoint, 75%
Saddle Mountain, 87%
North Fork, 97%
Emigrant Springs
Portland
Gresham
Blazed Alder, 72%
Bowman Springs, 59%
Mt Hood Test Site, 66%
Lucky Strike, 60%
Moss Springs, 70%
Howard, 62%
Miller Woods
Mud Ridge, 78%
Aneroid Lake #2, 58%
Arbuckle Mtn, 59%
County Line, 41%
Clear Lake, 93%
Beaver Reservoir, 57%
Madison Butte, 18%
Clackamas Lake, 116%
Wolf Creek, 65%
Taylor Green, 77%
Peavine Ridge, 77%
Schneider Meadows, 69%
Salem
Filertson Meadows, 51%
Bourne, 53%
Gold Center, 59%
Albany
Little Meadows, 83%
Tipton, 60%
Corvallis
Daly Lake, 69%
Ochoco
Derr, 66%
Hogg Pass, 54%
Jump Off Joe, 60%
Bear Grass
Starr Ridge
Blue Mountain Spring, 64%
Lake Creek R.S., 55%
Mckenzie
Three Creeks Meadow, 41%
Eugene
Bend
Payette
Ontario
Rock Springs, 55%
OREGON
Snow Mountain, 60%
Roaring River, 82%
Irish Taylor, 64%
Holland Meadows, 60%
Cascade Summit, 72%
Caldwell
Boise
Burns
Hines
New Crescent Lake, 71%
Summit Lake, 75%
Coos Bay
Malheur Lake
Roseburg
Chemult Alternate, 46%
Diamond Lake, 65%
Silver Creek, 49%
Annie Springs, 58%
Sun Pass
Silvies
King Mountain, 68%
Fish Creek, 83%
Sevenmile Marsh, 70%
Summer Rim, 107%
Crazyman Flat, 99%
Cold Springs Camp, 93%
Grants Pass
Billie Creek Divide, 90%
Lake Mtn
Medford
Quartz Mountain, 79%
Howard Prairie
Gerber Reservoir, 83%
Altamont
Strawberry, 80%
Big Red Mountain, 70%
Lynhart Ranch
State Line
Dismal Swamp, 65%
Crowder Flat, 92%
99 day Precipitation
Percent NRCS 1981-2010 Average
May 1, 2017 through August 7, 2017
≥ 200%
175%
150%
125%
100%
75%
50%
25%
≤ 0%
Watershed Boundaries
Basin (6-Digit HUC)
30 km

Oregon Water Supply Availability

August 8, 2017 NWS Update



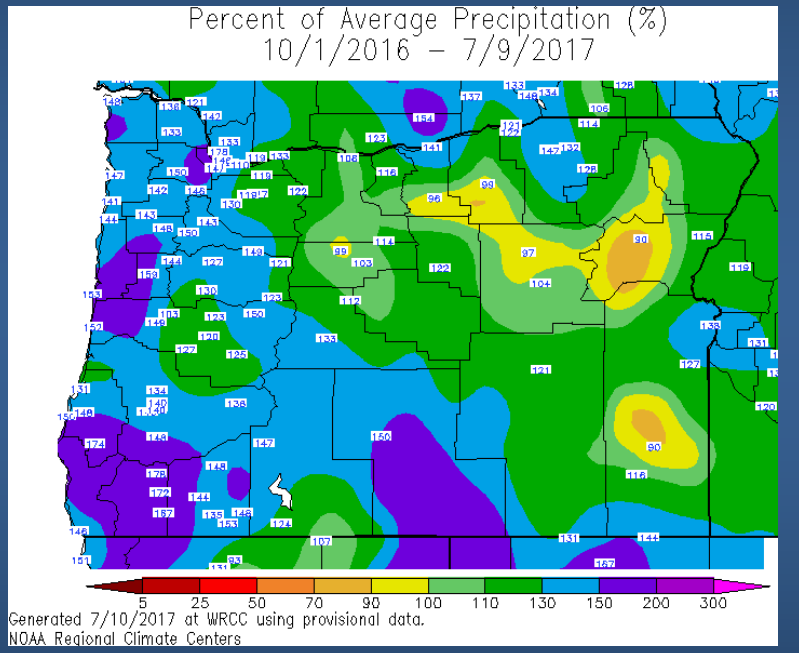
View north from Hoodoo Butte, August 6th, 2017

Photo by Jon Bonk, NWS Portland Incident Meteorologist for the Whitewater Fire

Andy Bryant, NWS Portland

Seasonal Precipitation

Water Year - Percent of Average from 1-month ago



Water Year Precipitation - Percent of Average

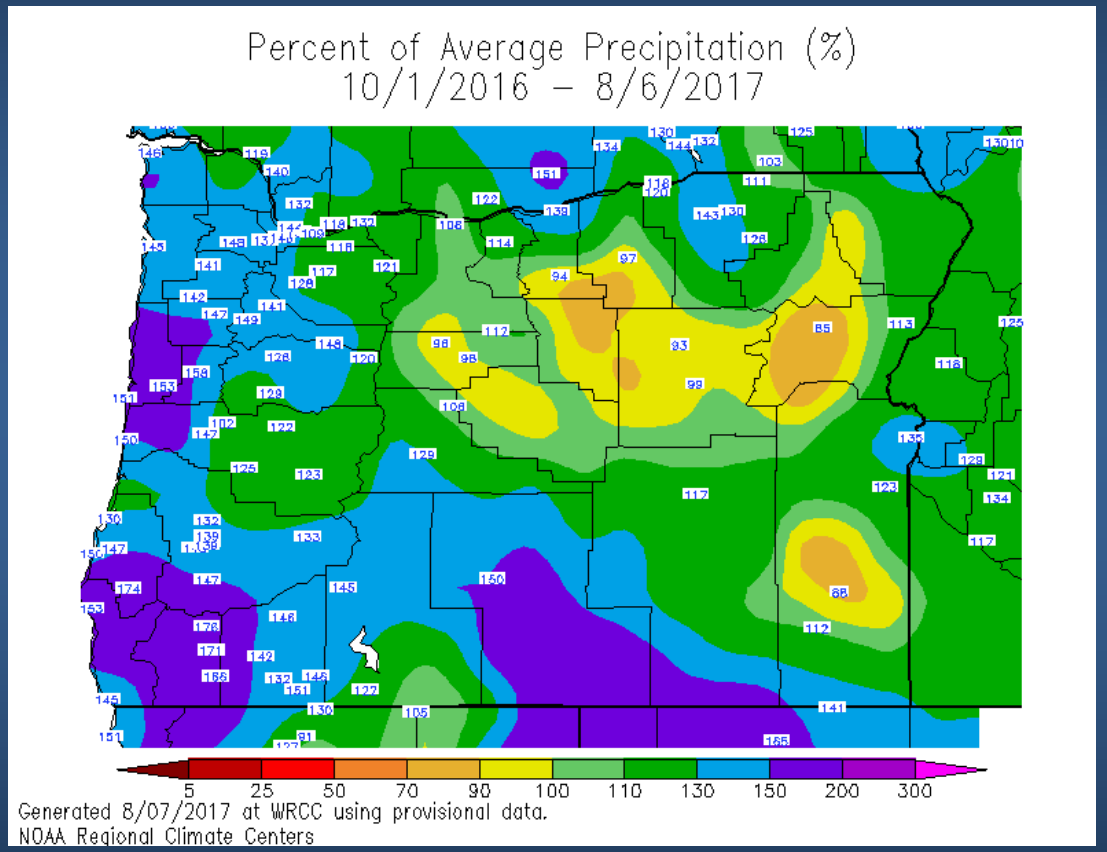
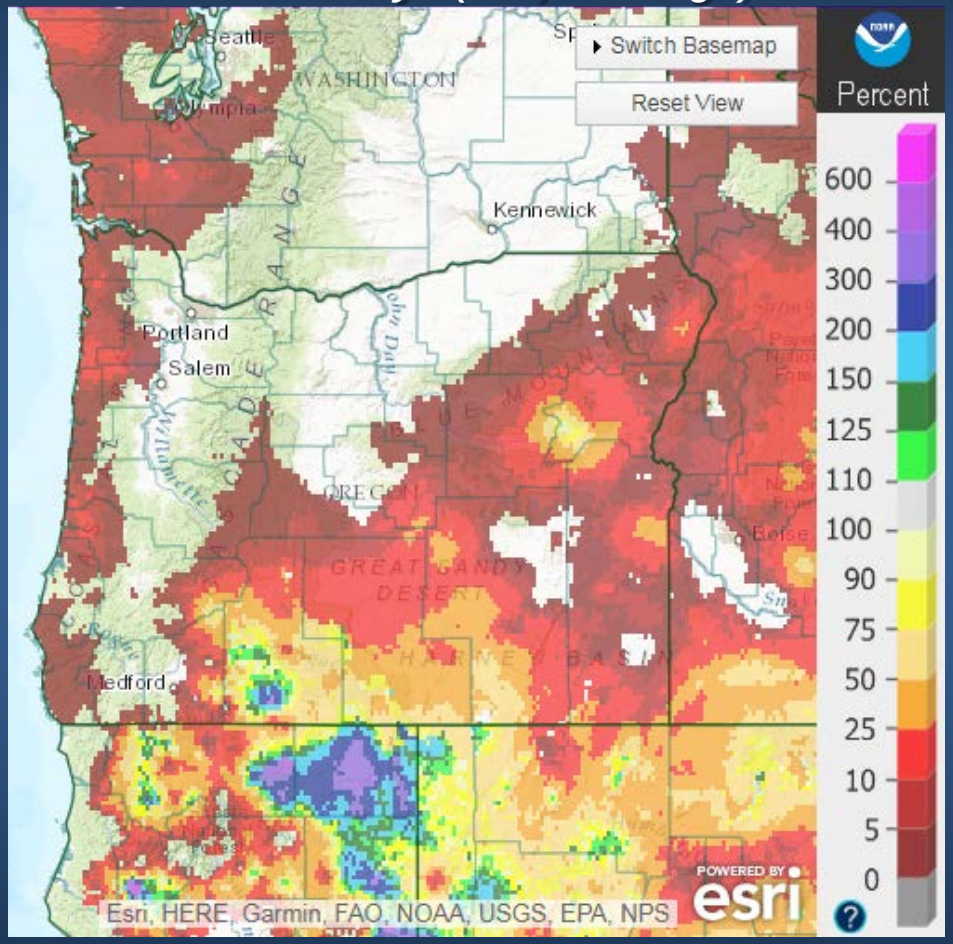


Image sources: www.wrcc.dri.edu

Precipitation for Past 30/60 days

Past 30 days (% of Average)



Past 60 days (% of Average)

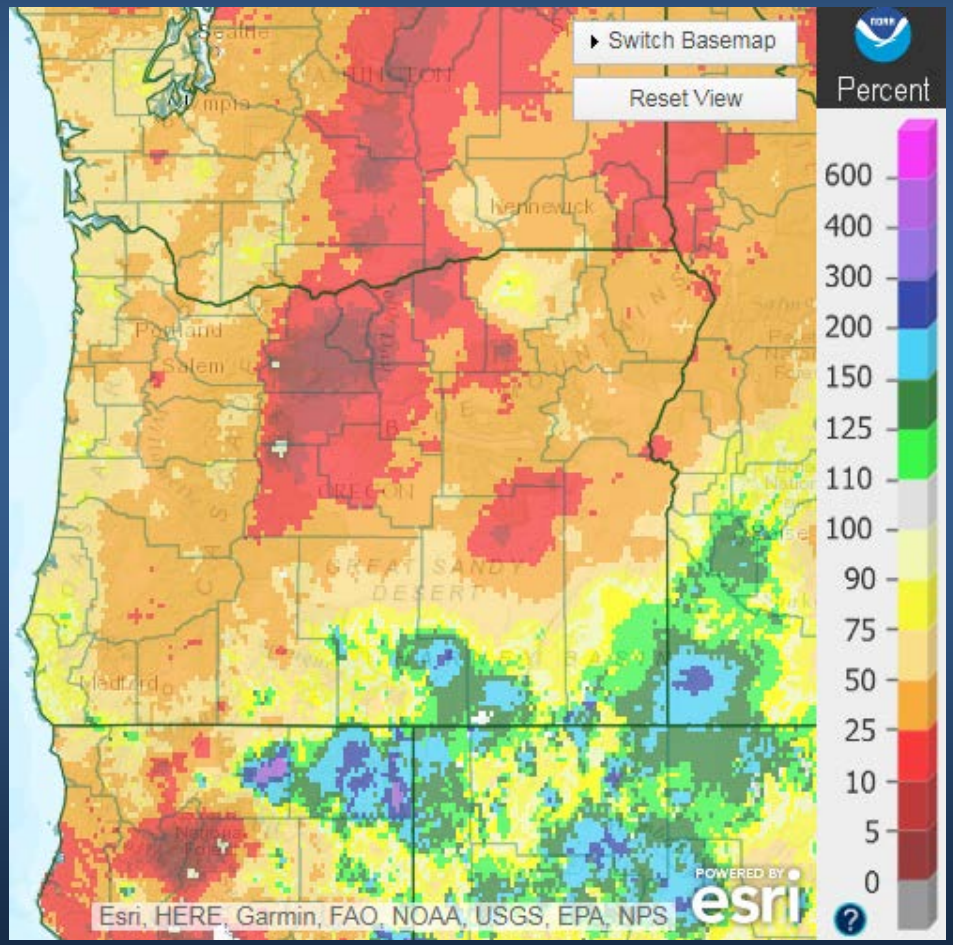
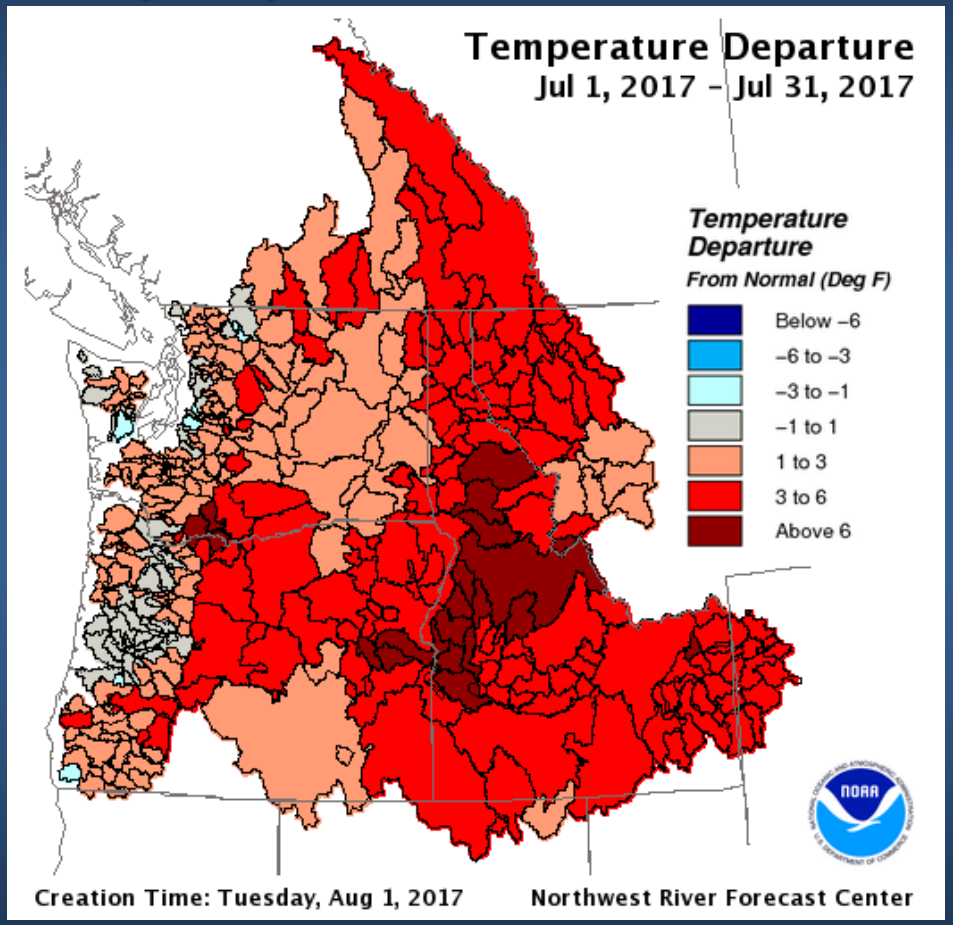


Image source: water.weather.gov/precip/index.php?location_type=wfo&location_name=pqr

Seasonal Temperatures

July Temperatures in Columbia Basin



August 1 – 7, 2017

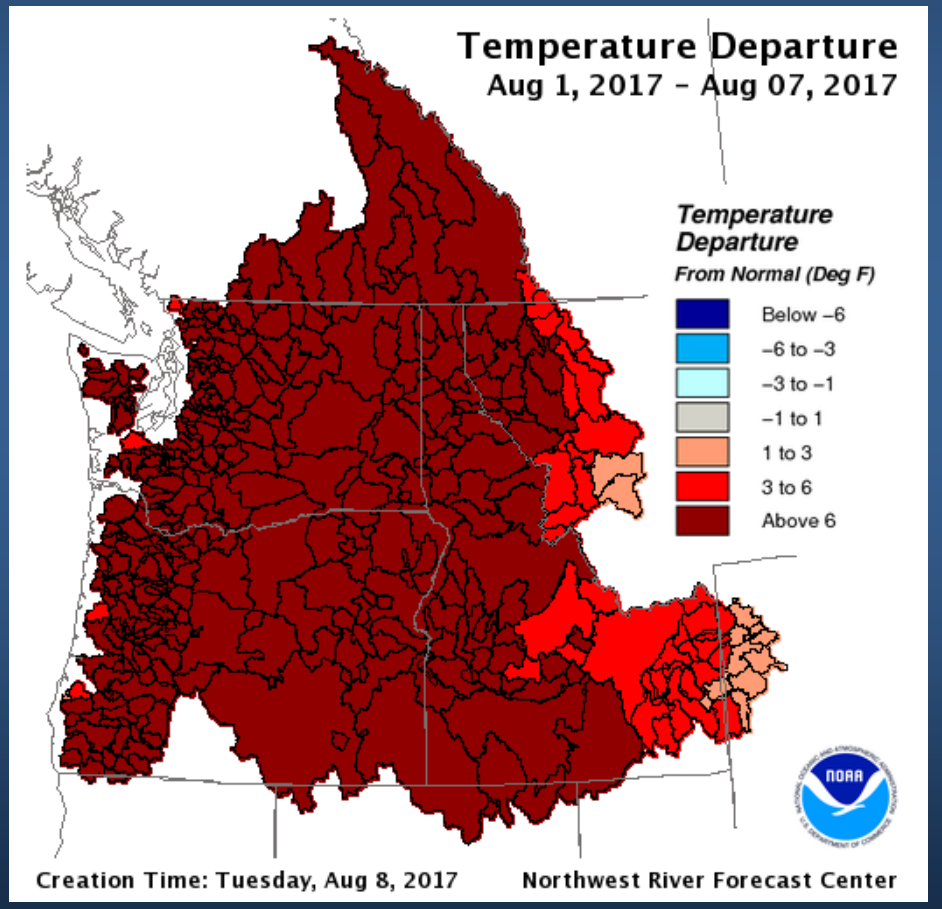


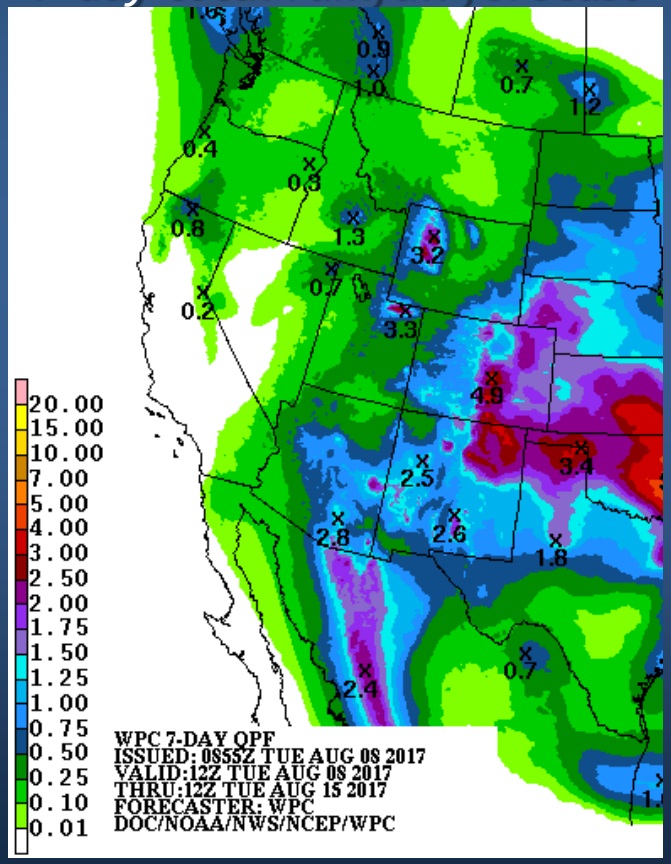
Image source: www.nwrfc.noaa.gov

August Outlook

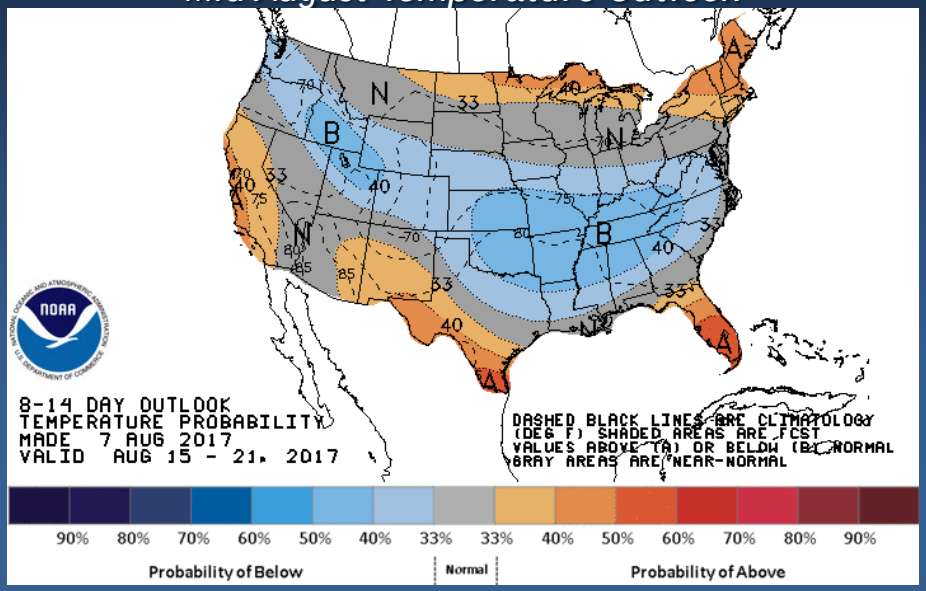
Slight cooling trend next 7 days, with a slight chance of rain starting Sunday

Weather Prediction Center

7-day total rainfall forecast



Mid August Temperature Outlook



Mid August Precipitation Outlook

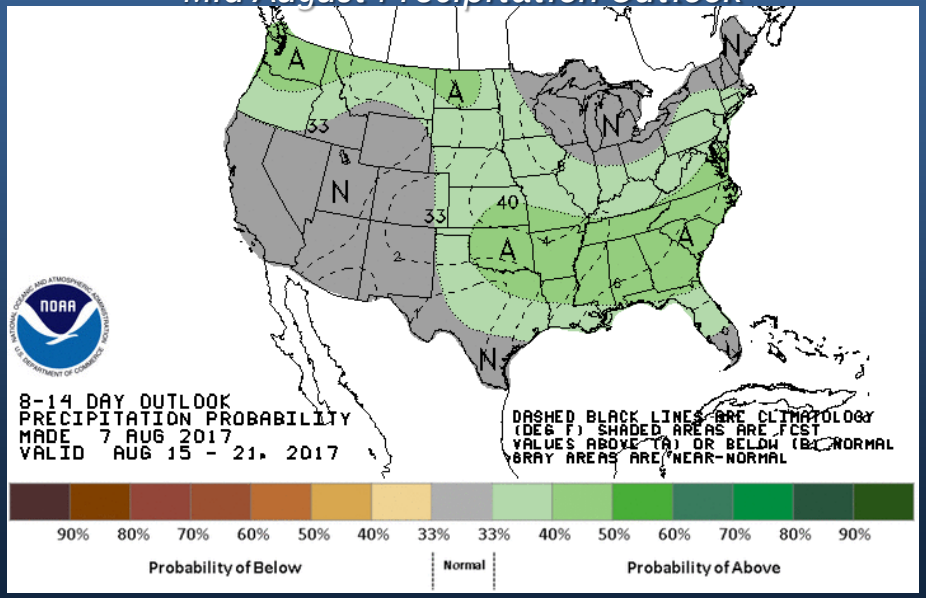
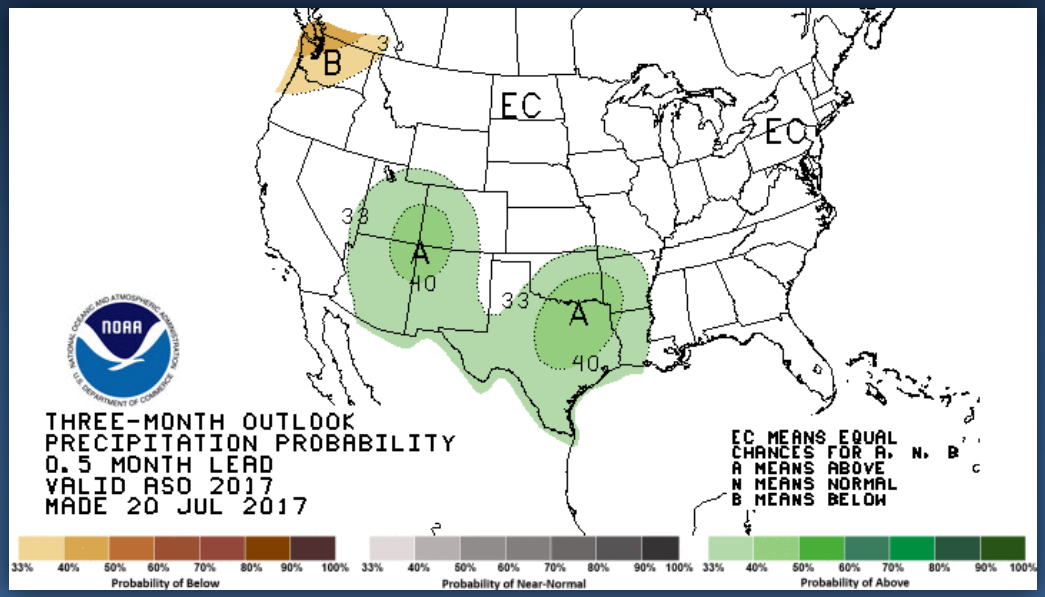


Image sources: www.nwrfc.noaa.gov & www.cpc.ncep.noaa.gov

Outlook for August-September-October



Precipitation

Temperatures

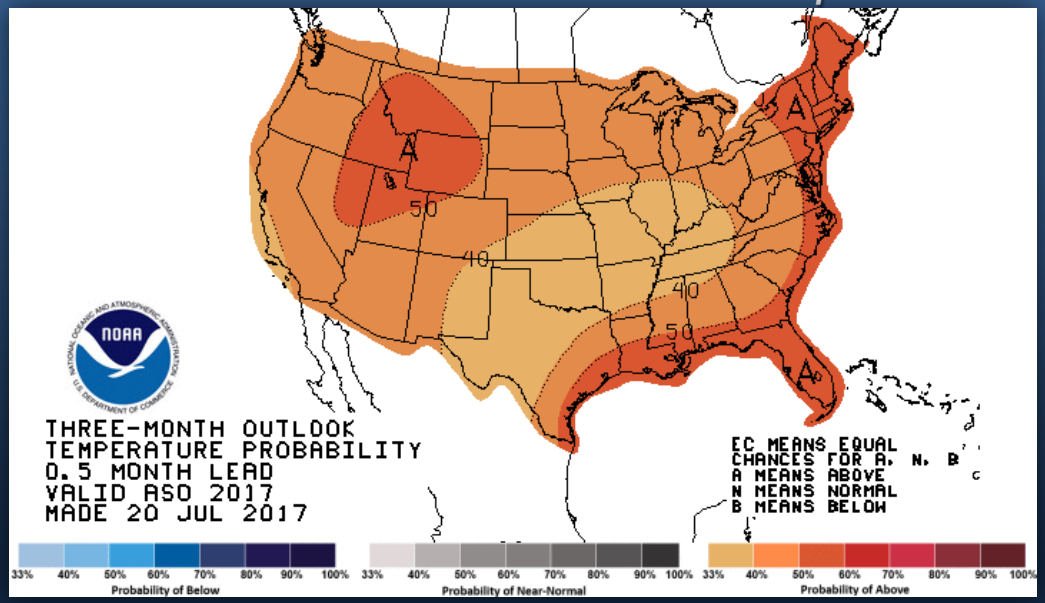


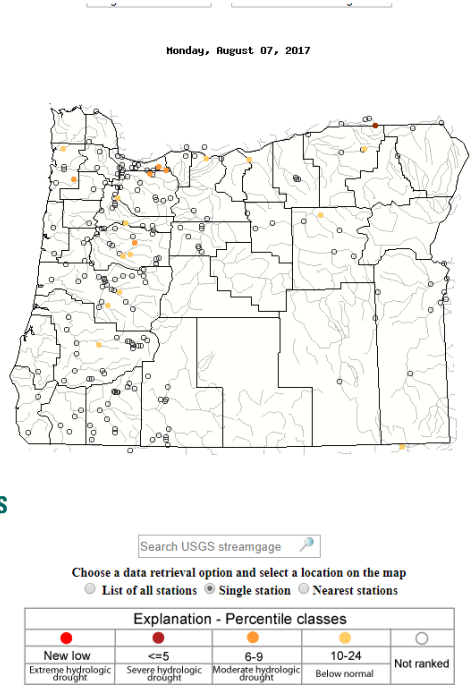
Image source: www.cpc.ncep.noaa.gov

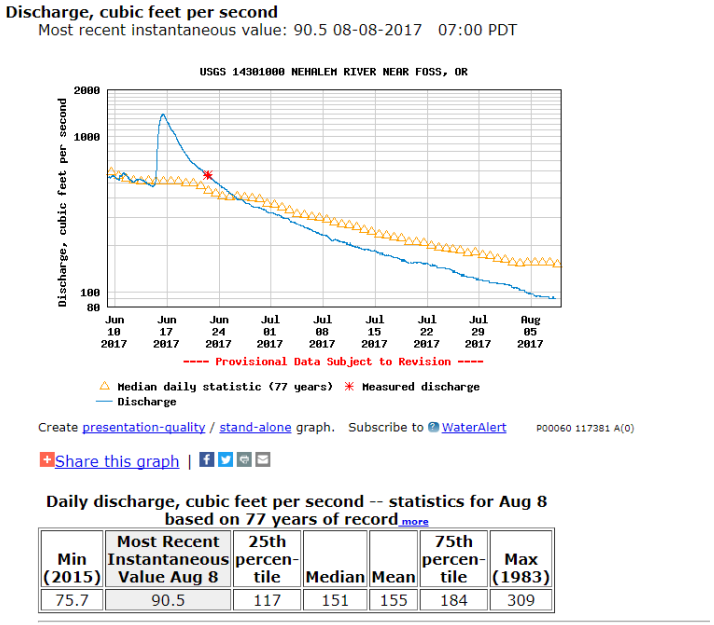
NOTES for WAC meeting

A few sites in North and NW Oregon streamflow trends are below normal. Below on the left is a screen capture of the 14 day average below **normal** –yellowish circles are below normal.

https://waterwatch.usgs.gov/index.php?m=pa14d_dry&r=or&w=map

https://waterdata.usgs.gov/nwis/uv?cb_00045=on&cb_00060=on&cb_00065=on&cb_70969=on&format=gif_default&site_no=14301000&period=60&begin_date=2017-08-01&end_date=2017-08-08





Min (2015)	Most Recent Instantaneous Value Aug 8	25th percen-tile	Median	Mean	75th percen-tile	Max (1983)
75.7	90.5	117	151	155	184	309

The above real time plot (right) has trended below normal the past month while that could be the correct trend it could also be a low water scour on the control for the gage pool and when the next measurement is made it a correction to discharge will need to be applied.

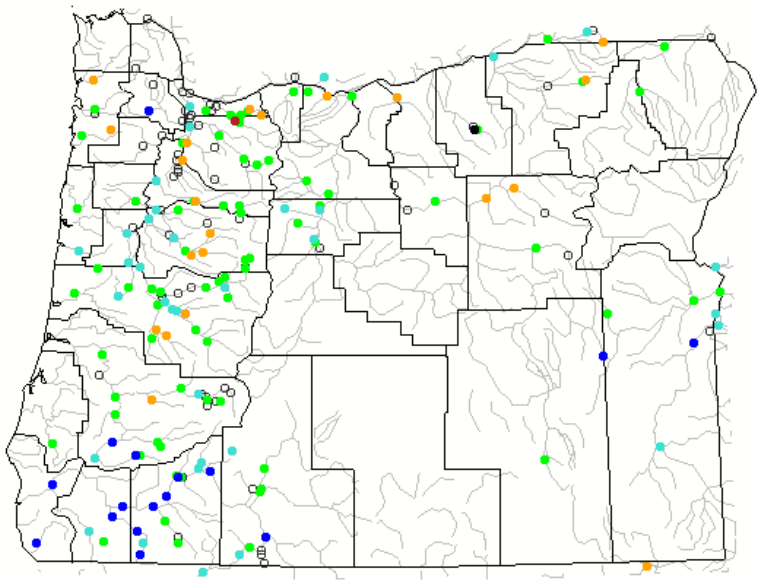
Below is a screen capture of the 28-day average streamflow

https://waterwatch.usgs.gov/index.php?m=pa28d&r=or&w=map

Map of 28-day average streamflow compared to historical streamflow for the day of the year (Oregon)

Oregon ▾ or Water-Resources Regions ▾

Monday, August 07, 2017



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	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

OR USGS water summary table by NRCS SWSI Basin.

https://or.water.usgs.gov/data_dir/war_dir/war1604.html

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 Apr.: Percent of average
Donner Und Blitzen nr Frenchglen	Harney	188	84	44	86
(*)Deep Creek above Adel	Lake County	319	86	6	94
(*)Chewaucan River near Paisley	Lake County	525	147	68	118
Williamson River near Chiloquin	Klamath	1,500	83	-23	89
Owyhee River near Rome	Owyhee	1,372	51	-55	93
(*)NF Malheur River near Beulah	Malheur	374	101	0	107
Grande Ronde R at Troy	Grande Ronde Powder/Burnt	5,931	97	7	103
Umatilla River nr Gibbon	Umatilla Lower John Day	410	76	-30	109
John Day River at Service Crk	Upper John Day	4,812	91	-7	106
(*)Little Deschutes River nr LaPine	Upper Deschutes	359	132	14	110
Hood River nr Hood River	Lower Deschutes Mt.Hood	1,502	121	-22	131
Willamette River at Salem	Willamette	18,640	79	-55	110
Wilson River near Tillamook	North Coast	614	52	-76	145
Umpqua River near Elkton	Rogue/Umpqua	7,088	77	-61	132
Rogue River near Agness	Rogue/Umpqua	6,630	103	-61	136
SF Coquille River at Powers	South Coast	537	58	-75	124
Chetco River near Brookings	South Coast	1,325	53	-81	118

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

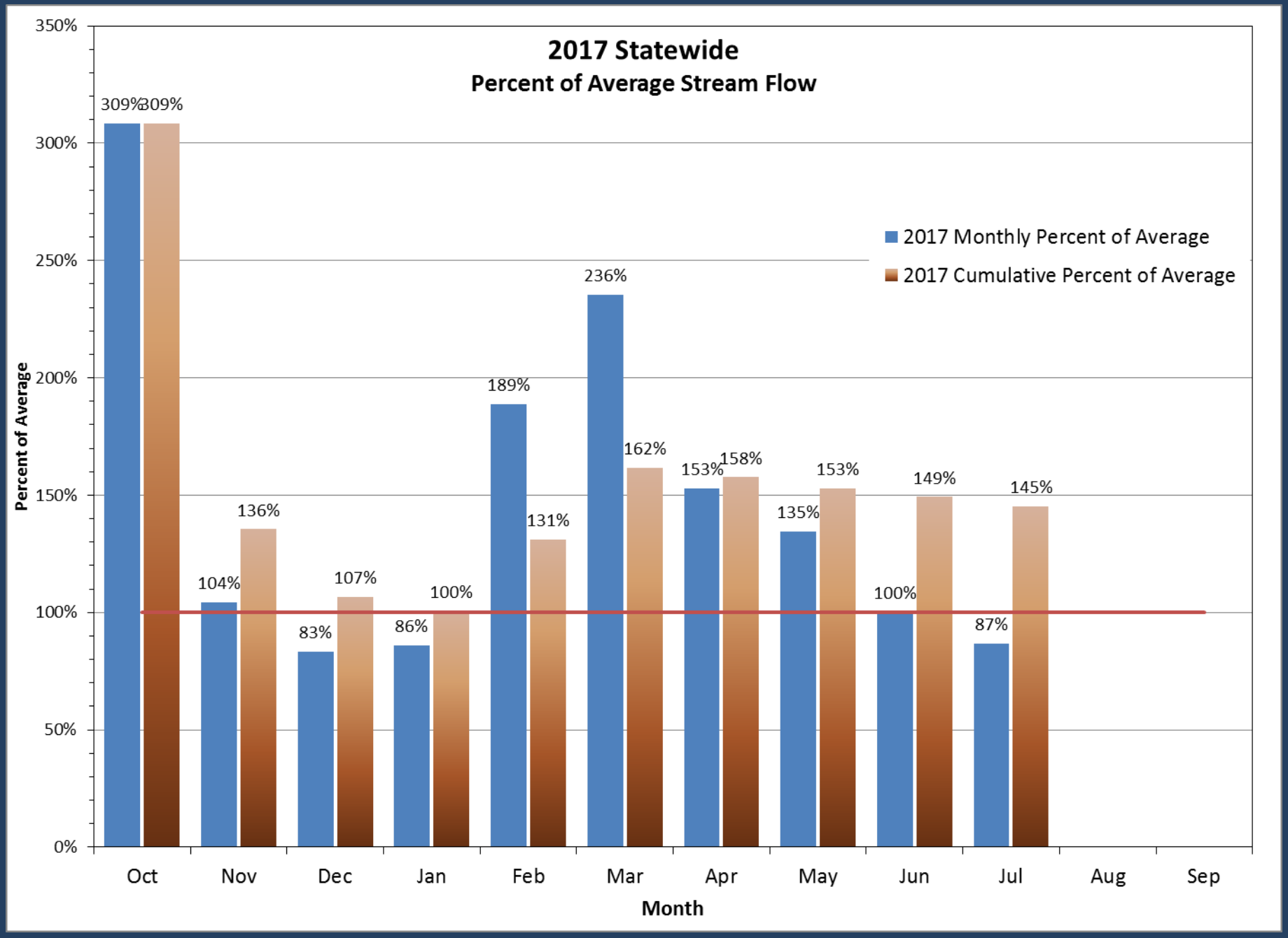
5/3/2016

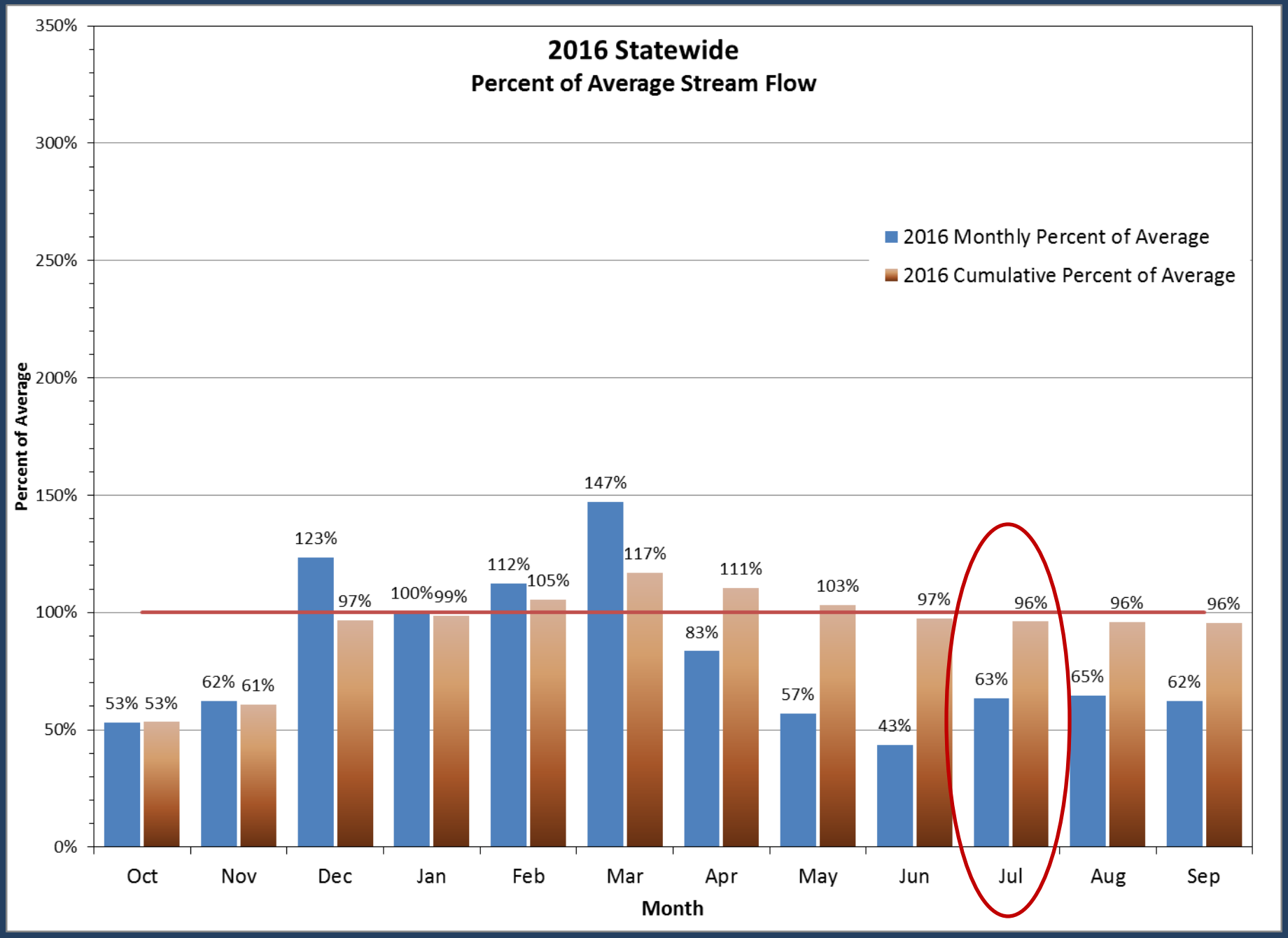
Surface Water Conditions Report

Water Supply Availability Committee

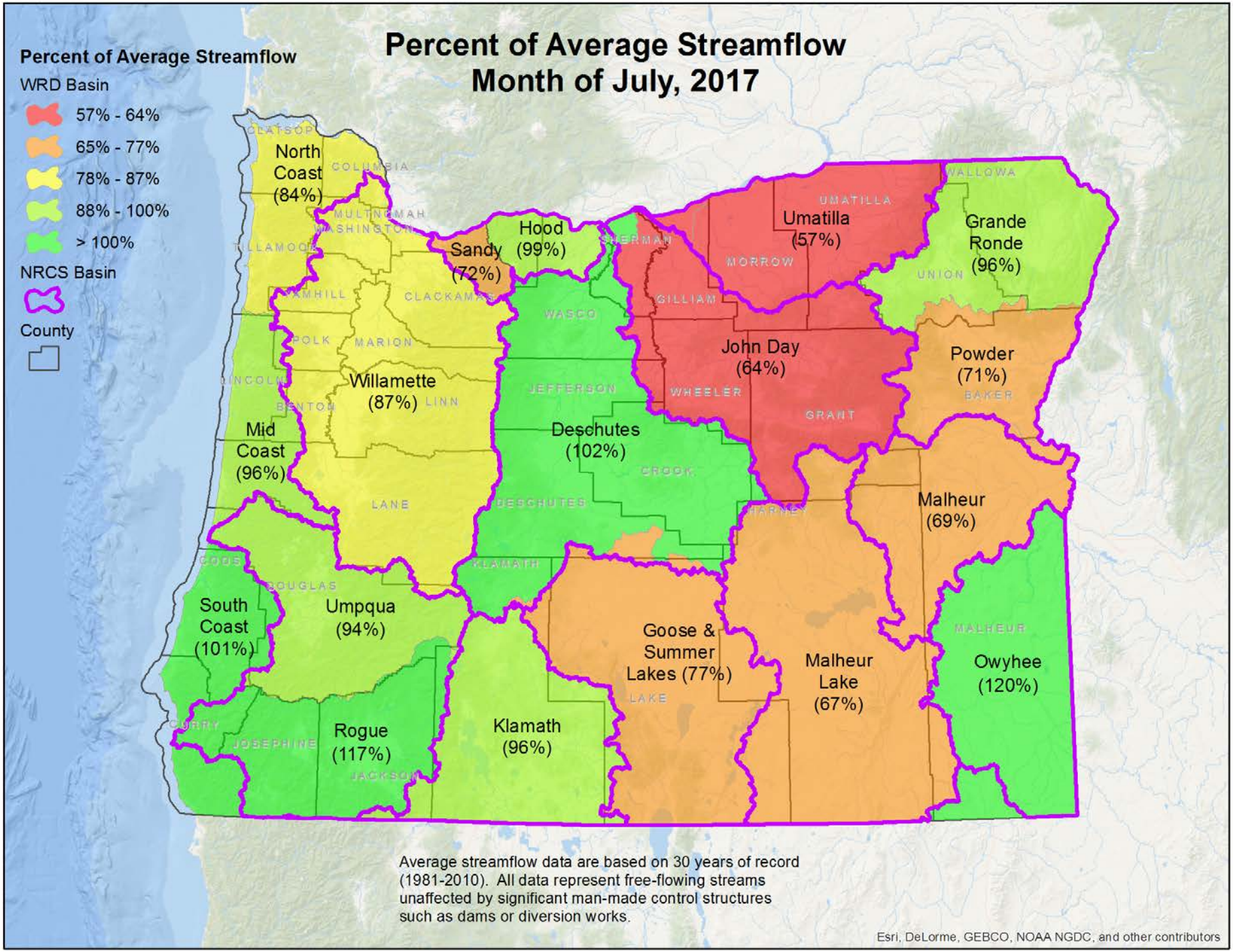
Ken Stahr
Oregon Water Resources Department

August 8, 2017


2017 Statewide
Percent of Average Stream Flow
2017 Monthly Percent of Average
2017 Cumulative Percent of Average
Percent of Average
Month
350%
300%
250%
200%
150%
100%
50%
0%
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
309%
309%
104%
136%
83%
107%
86%
100%
189%
131%
236%
162%
153%
158%
135%
153%
100%
149%
87%
145%

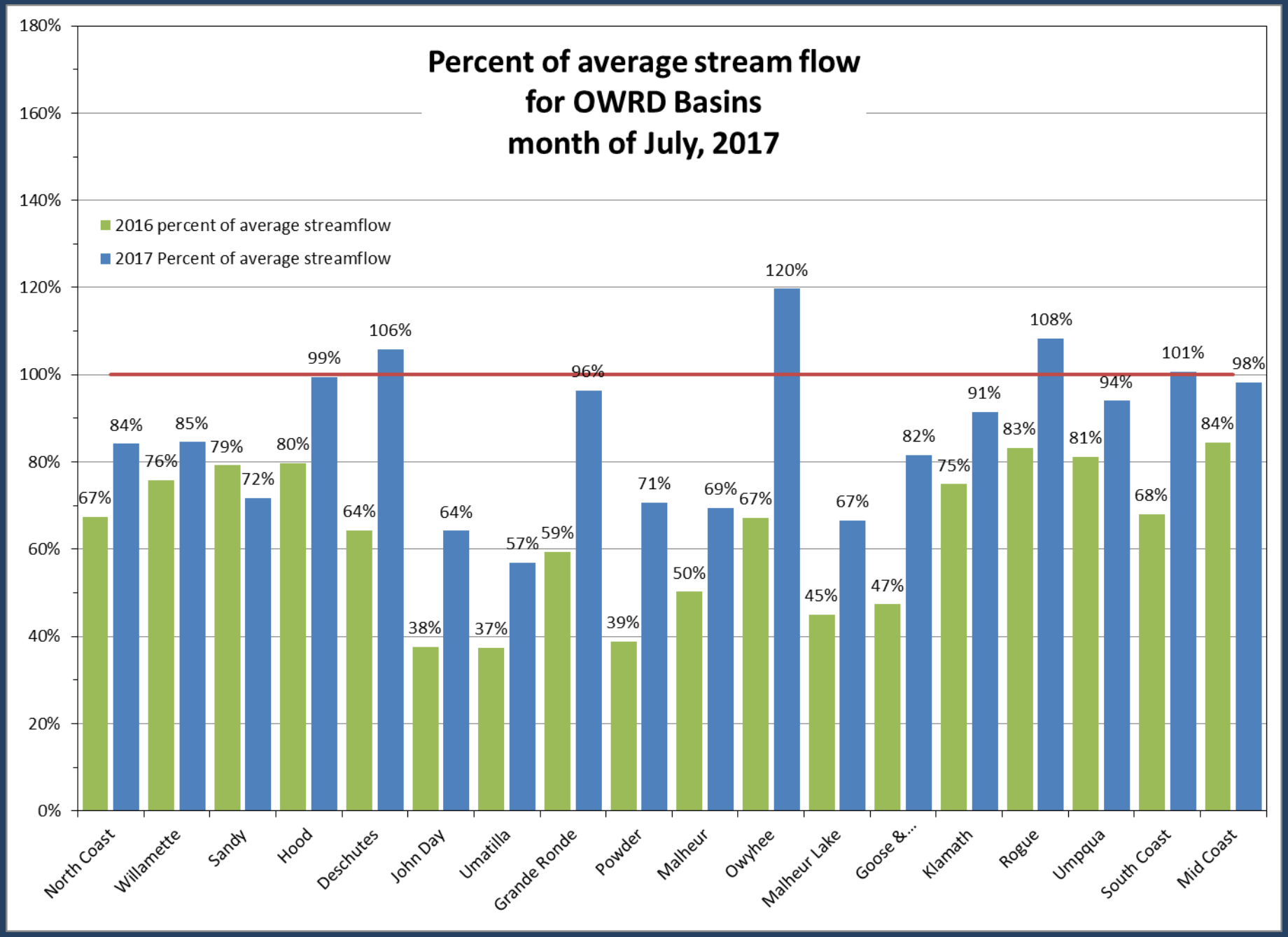

2016 Statewide
Percent of Average Stream Flow
2016 Monthly Percent of Average
2016 Cumulative Percent of Average
Percent of Average
Month
350%
300%
250%
200%
150%
100%
50%
0%
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
53% 53%
62% 61%
123% 97%
100% 99%
112% 105%
147% 117%
83% 111%
57% 103%
43% 97%
63% 96%
65% 96%
62% 96%

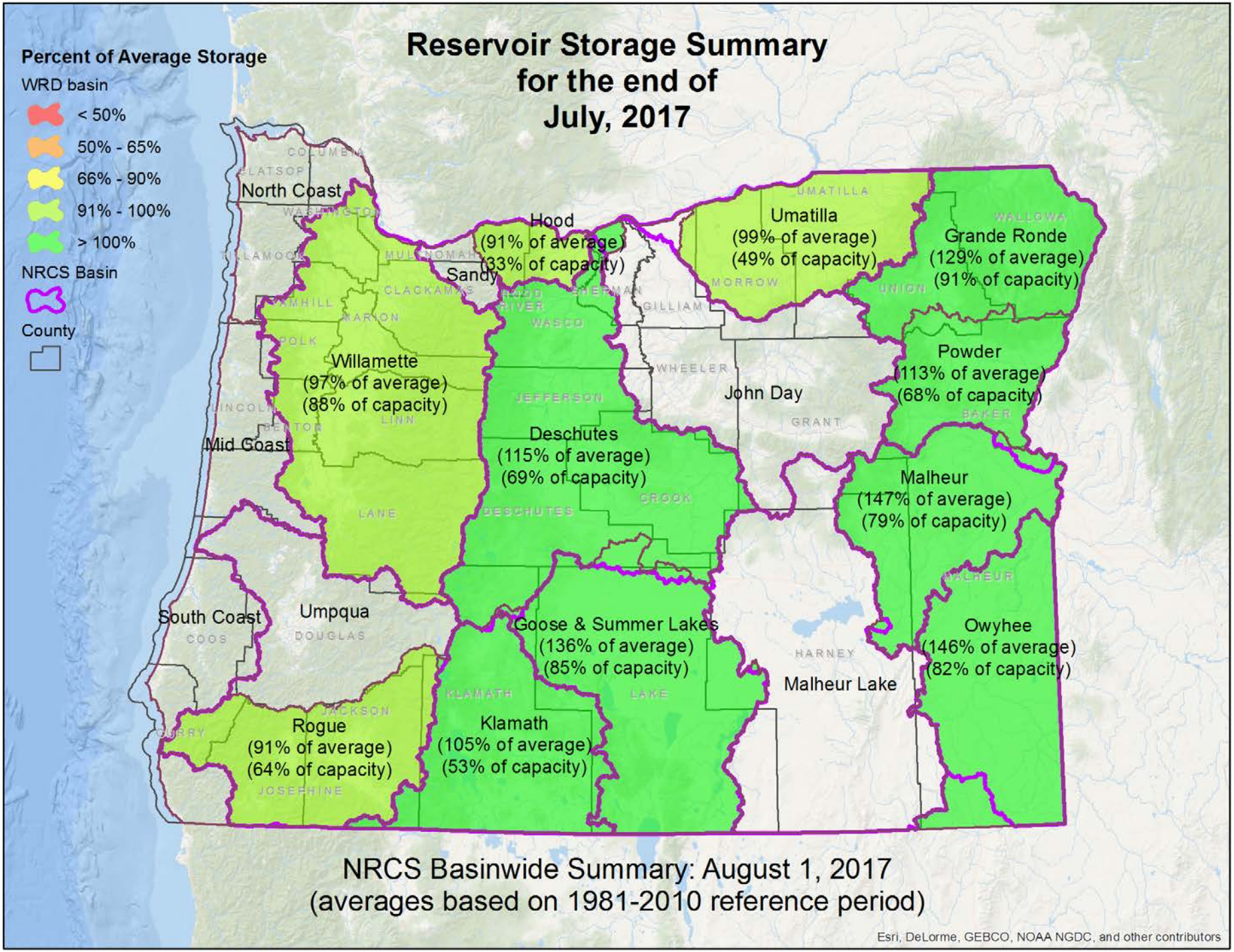
Percent of Average Streamflow
Month of July, 2017



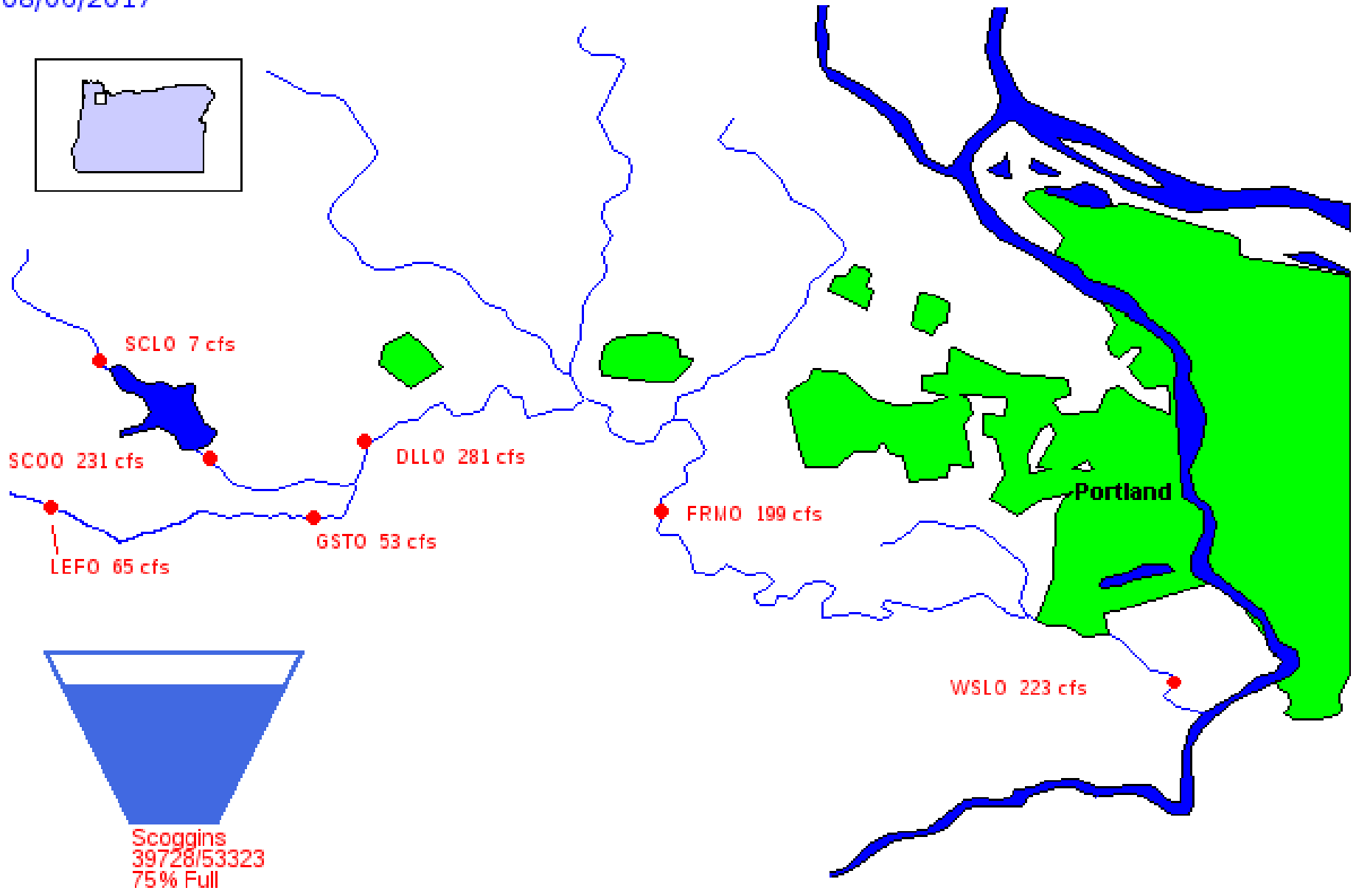
Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

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

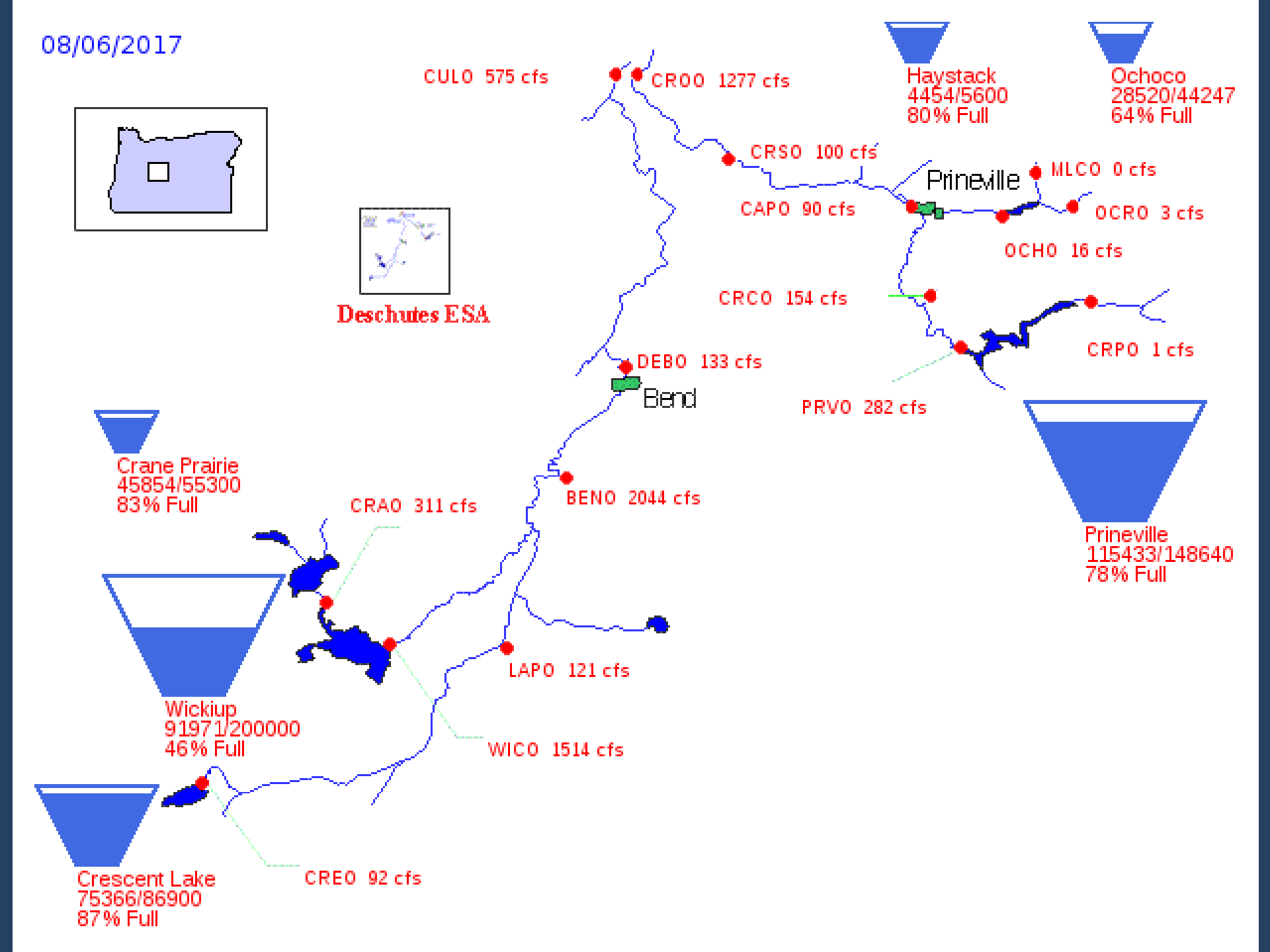

Percent of average stream flow
for OWRD Basins
month of July, 2017
2016 percent of average streamflow
2017 Percent of average streamflow
180%
160%
140%
120%
100%
80%
60%
40%
20%
0%
67%
84%
76%
85%
79%
72%
80%
99%
64%
106%
38%
64%
37%
57%
59%
96%
39%
71%
50%
69%
67%
120%
45%
67%
47%
82%
75%
91%
83%
108%
81%
94%
68%
101%
84%
98%
North Coast
Willamette
Sandy
Hood
Deschutes
John Day
Umatilla
Grande Ronde
Powder
Malheur
Owyhee
Malheur Lake
Goose &...
Klamath
Rogue
Umpqua
South Coast
Mid Coast


Reservoir Storage Summary
for the end of
July, 2017
Percent of Average Storage
WRD basin
< 50%
50% - 65%
66% - 90%
91% - 100%
> 100%
NRCS Basin
County
North Coast
Hood
(91% of average)
(33% of capacity)
Sandy
Umatilla
(99% of average)
(49% of capacity)
Grande Ronde
(129% of average)
(91% of capacity)
Willamette
(97% of average)
(88% of capacity)
Mid Coast
Deschutes
(115% of average)
(69% of capacity)
John Day
Powder
(113% of average)
(68% of capacity)
Malheur
(147% of average)
(79% of capacity)
South Coast
Umpqua
Goose & Summer Lakes
(136% of average)
(85% of capacity)
Malheur Lake
Owyhee
(146% of average)
(82% of capacity)
Rogue
(91% of average)
(64% of capacity)
Klamath
(105% of average)
(53% of capacity)
NRCS Basinwide Summary: August 1, 2017
(averages based on 1981-2010 reference period)
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

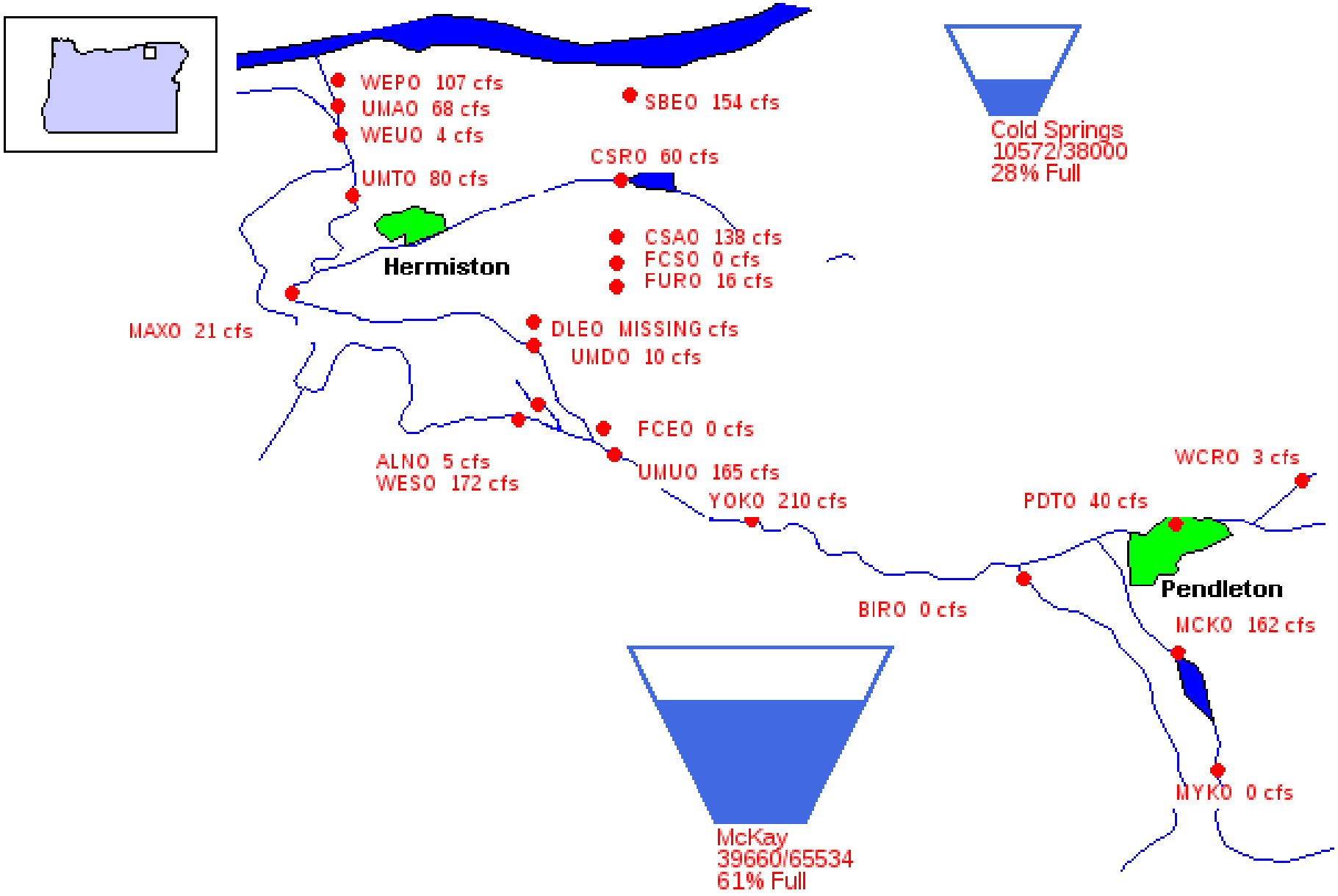
08/06/2017


SCLO 7 cfs
SCOO 231 cfs
DLLO 281 cfs
FRMO 199 cfs
GSTO 53 cfs
LEFO 65 cfs
Portland
WSLO 223 cfs
Scoggins
39728/53323
75% Full

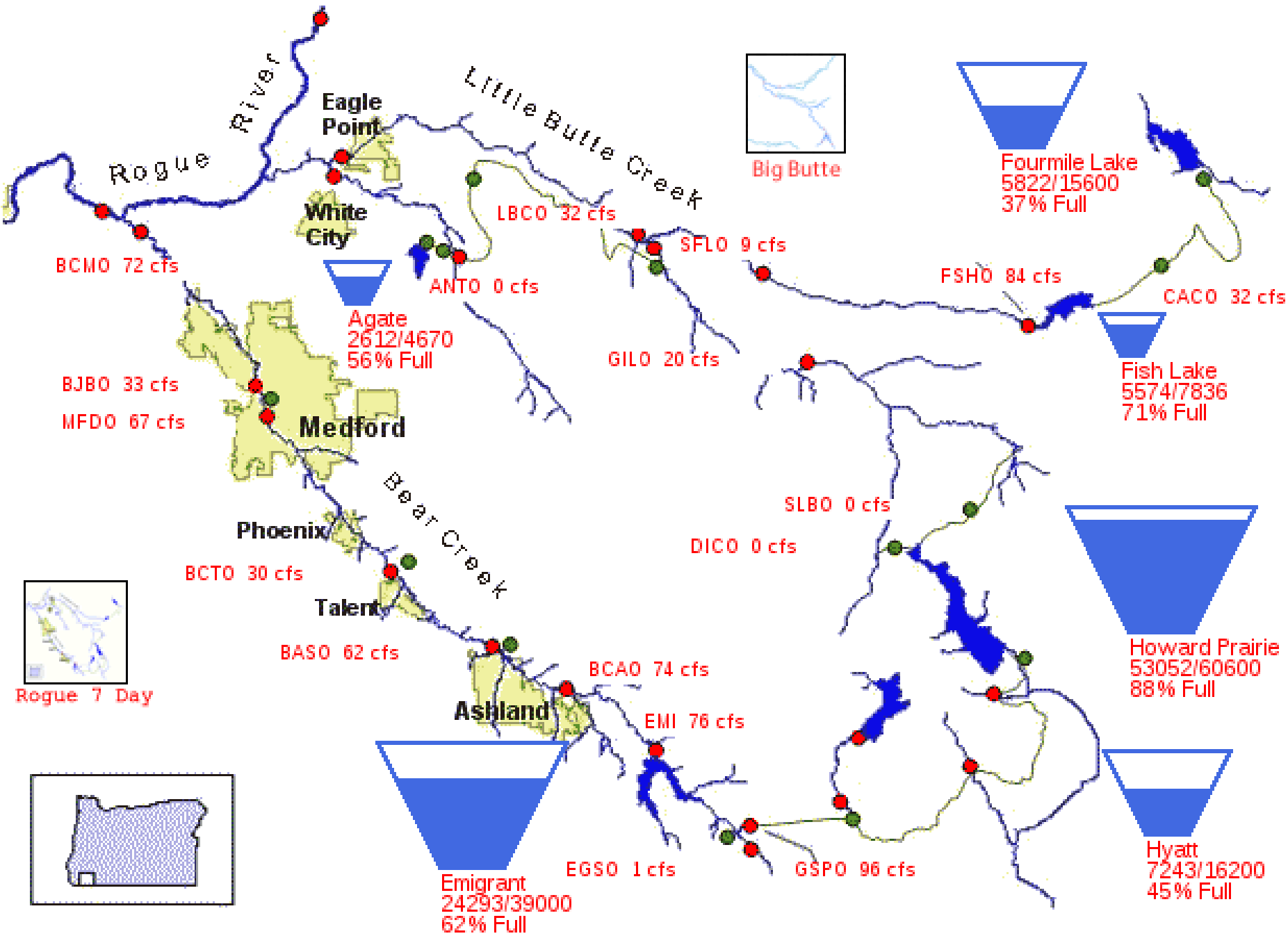
Created: Mon Aug 7 13:22:59 2017

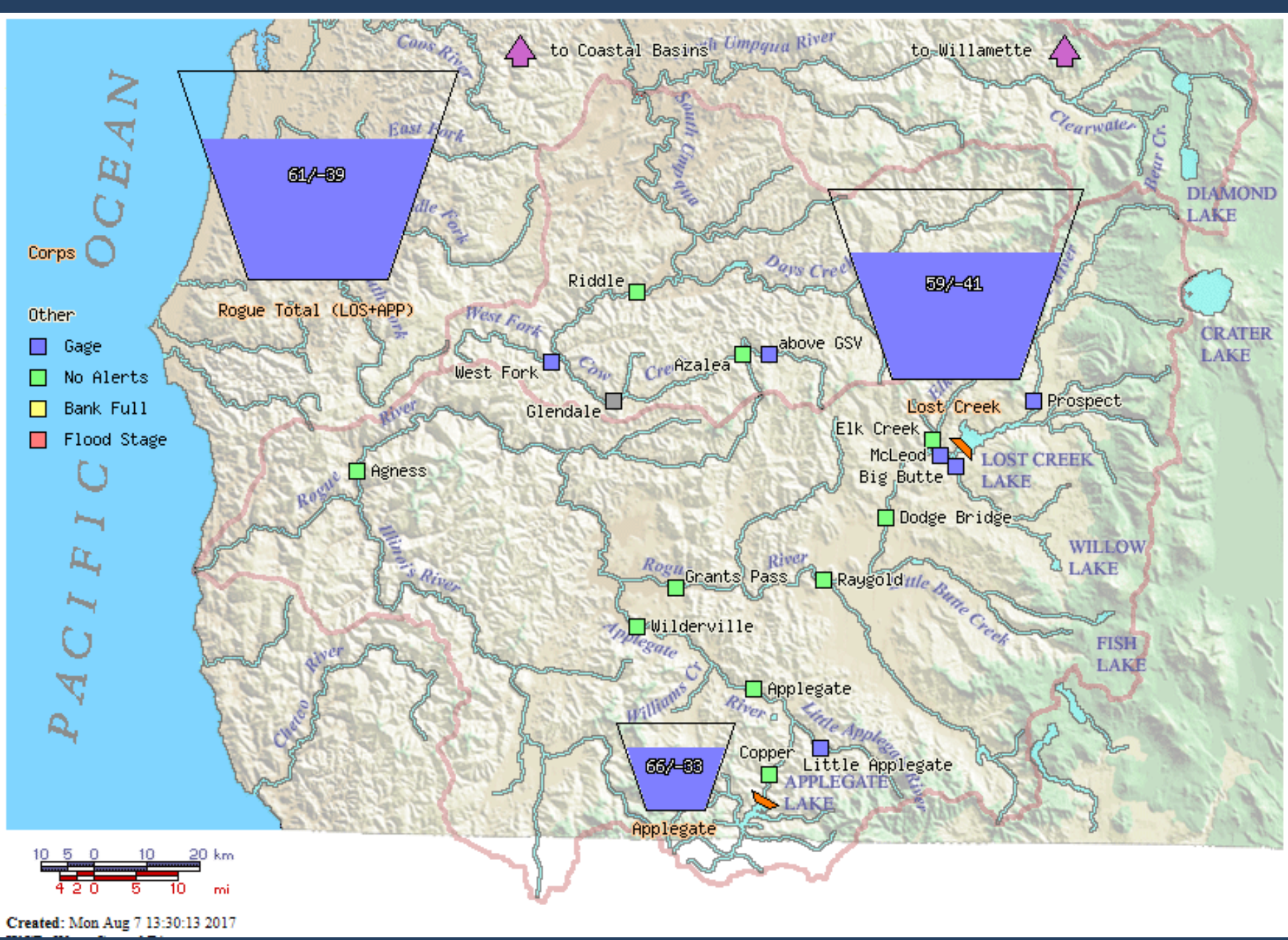

08/06/2017
CULO 575 cfs
CROO 1277 cfs
Haystack
4454/5600
80% Full
Ochoco
28520/44247
64% Full
CRSO 100 cfs
Prineville
MLCO 0 cfs
CAPO 90 cfs
OCRO 3 cfs
OCHO 16 cfs
Deschutes ESA
CRCO 154 cfs
CRPO 1 cfs
DEBO 133 cfs
Bend
PRVO 282 cfs
Crane Prairie
45854/55300
83% Full
BENO 2044 cfs
CRAO 311 cfs
Prineville
115433/148640
78% Full
LAPO 121 cfs
Wickiup
91971/200000
46% Full
WICO 1514 cfs
Crescent Lake
75366/86900
87% Full
CREO 92 cfs

08/06/2017

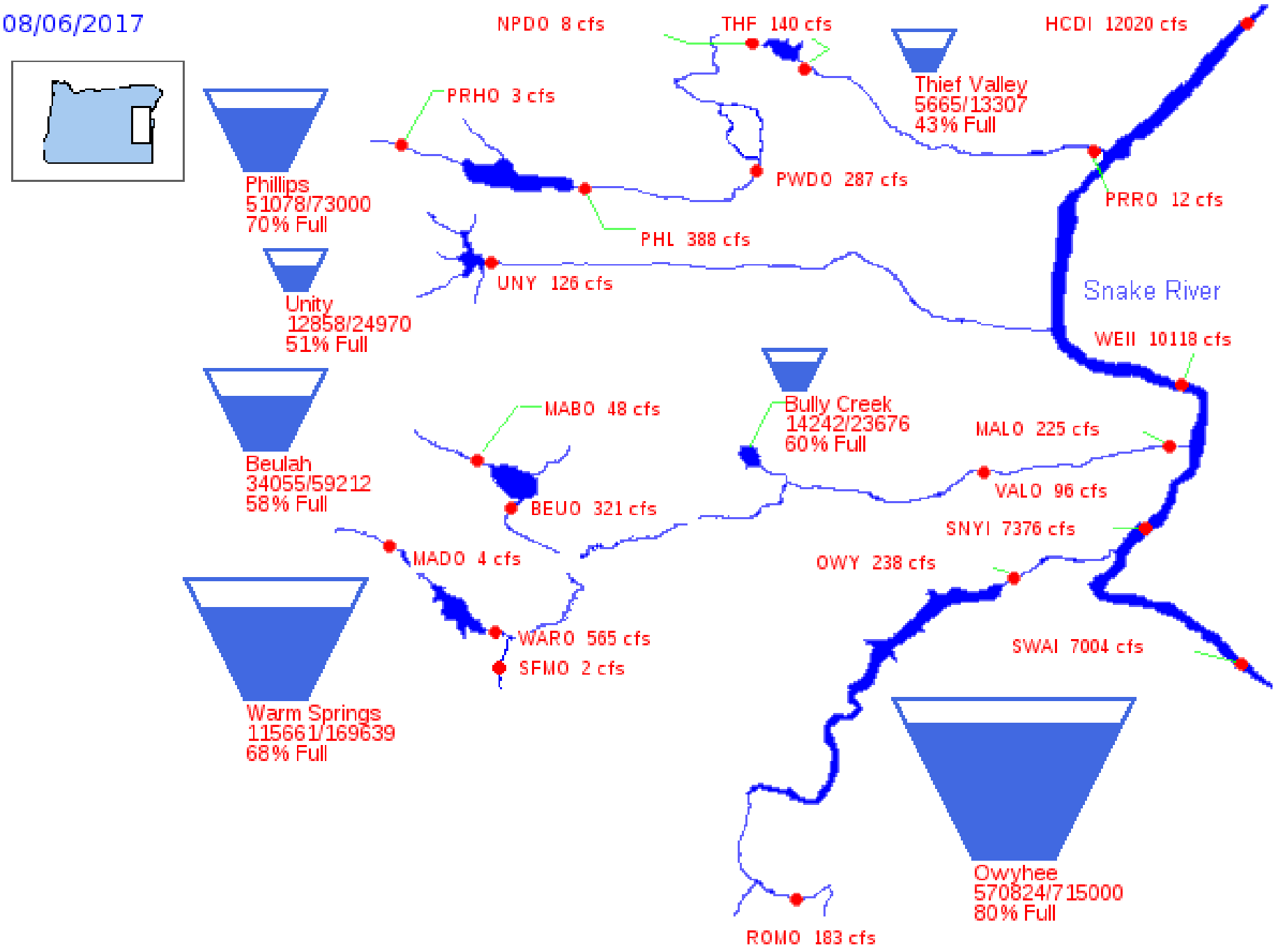

WEPO 107 cfs
UMAO 68 cfs
WEUO 4 cfs
SBEO 154 cfs
Cold Springs
10572/38000
28% Full
CSRO 60 cfs
UMTO 80 cfs
Hermiston
CSAO 138 cfs
FCSO 0 cfs
FURO 16 cfs
MAXO 21 cfs
DLEO MISSING cfs
UMDO 10 cfs
FCEO 0 cfs
ALNO 5 cfs
WESO 172 cfs
UMUO 165 cfs
YOKO 210 cfs
WCRO 3 cfs
PDTO 40 cfs
Pendleton
BIRO 0 cfs
MCKO 162 cfs
MYKO 0 cfs
McKay
39660/65534
61% Full

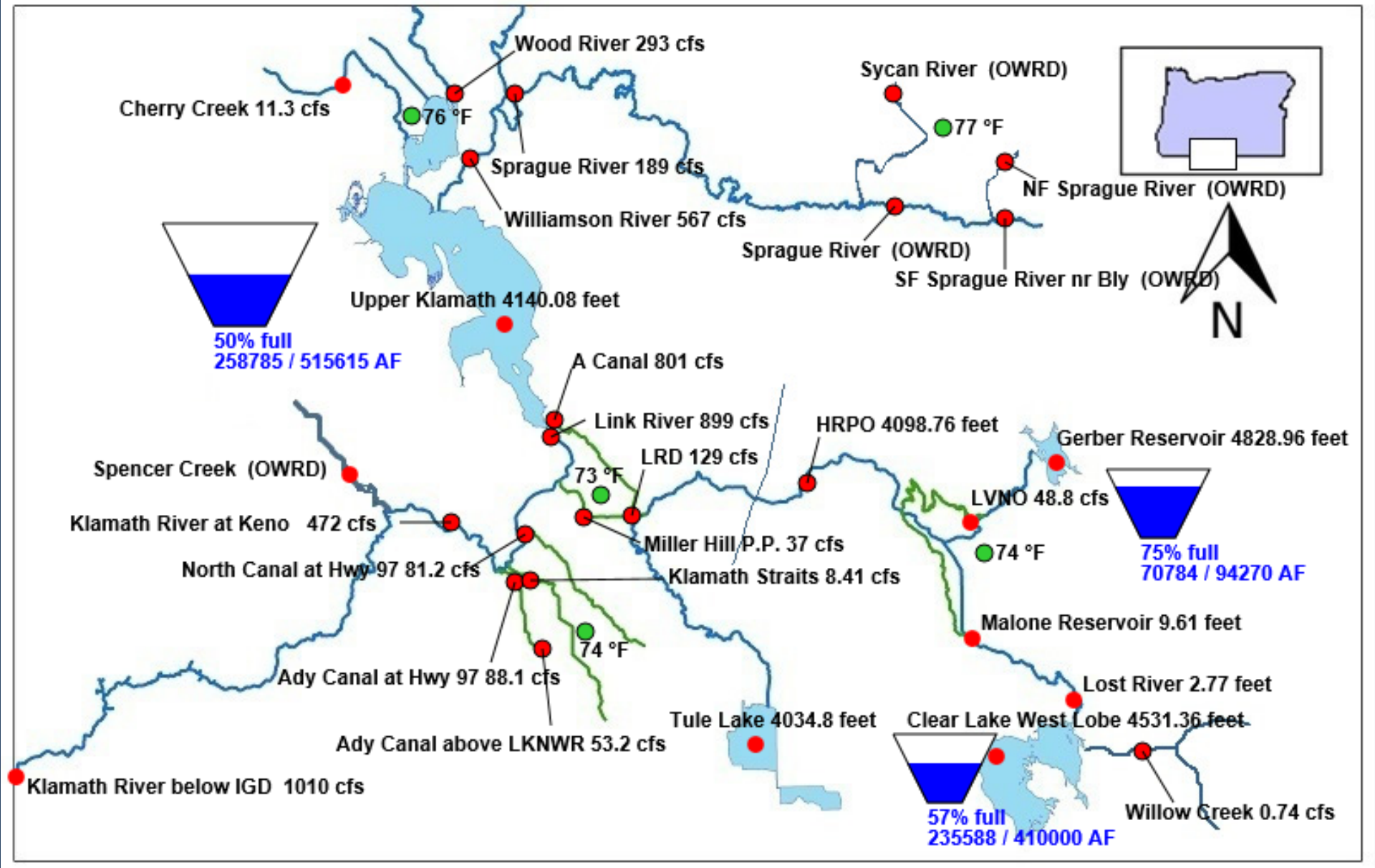
08/06/2017


Rogue River
Little Butte Creek
Bear Creek
Eagle Point
White City
Medford
Phoenix
Talent
Ashland
Big Butte
Fourmile Lake
5822/15600
37% Full
Agate
2612/4670
56% Full
Fish Lake
5574/7836
71% Full
Howard Prairie
53052/60600
88% Full
Hyatt
7243/16200
45% Full
Emigrant
24293/39000
62% Full
BCMO 72 cfs
ANTO 0 cfs
LBCO 32 cfs
SFLO 9 cfs
GILO 20 cfs
FSHO 84 cfs
CACO 32 cfs
BJBO 33 cfs
MFDO 67 cfs
SLBO 0 cfs
DICO 0 cfs
BCTO 30 cfs
BASO 62 cfs
BCAO 74 cfs
EMI 76 cfs
EGSO 1 cfs
GSPO 96 cfs
Rogue 7 Day



Created: Mon Aug 7 13:30:13 2017


08/06/2017
NPDO 8 cfs
THF 140 cfs
HCDI 12020 cfs
Thief Valley
5665/13307
43% Full
PRHO 3 cfs
Phillips
51078/73000
70% Full
PWDO 287 cfs
PRRO 12 cfs
PHL 388 cfs
UNY 126 cfs
Unity
12858/24970
51% Full
Snake River
WEII 10118 cfs
Bully Creek
14242/23676
60% Full
MABO 48 cfs
Beulah
34055/59212
58% Full
MALO 225 cfs
VALO 96 cfs
BEUO 321 cfs
SNYI 7376 cfs
MADO 4 cfs
OWY 238 cfs
WARO 565 cfs
SFMO 2 cfs
SWAI 7004 cfs
Warm Springs
115661/169639
68% Full
Owyhee
570824/715000
80% Full
ROMO 183 cfs


Wood River 293 cfs
Cherry Creek 11.3 cfs
76 °F
Sycan River (OWRD)
77 °F
Sprague River 189 cfs
NF Sprague River (OWRD)
Williamson River 567 cfs
Sprague River (OWRD)
SF Sprague River nr Bly (OWRD)
N
Upper Klamath 4140.08 feet
50% full
258785 / 515615 AF
A Canal 801 cfs
Link River 899 cfs
HRPO 4098.76 feet
Gerber Reservoir 4828.96 feet
Spencer Creek (OWRD)
LRD 129 cfs
73 °F
LVNO 48.8 cfs
Klamath River at Keno 472 cfs
Miller Hill P.P. 37 cfs
74 °F
75% full
70784 / 94270 AF
North Canal at Hwy 97 81.2 cfs
Klamath Straits 8.41 cfs
Malone Reservoir 9.61 feet
74 °F
Ady Canal at Hwy 97 88.1 cfs
Lost River 2.77 feet
Tule Lake 4034.8 feet
Clear Lake West Lobe 4531.36 feet
Ady Canal above LKNWR 53.2 cfs
Klamath River below IGD 1010 cfs
57% full
235588 / 410000 AF
Willow Creek 0.74 cfs

Thank You