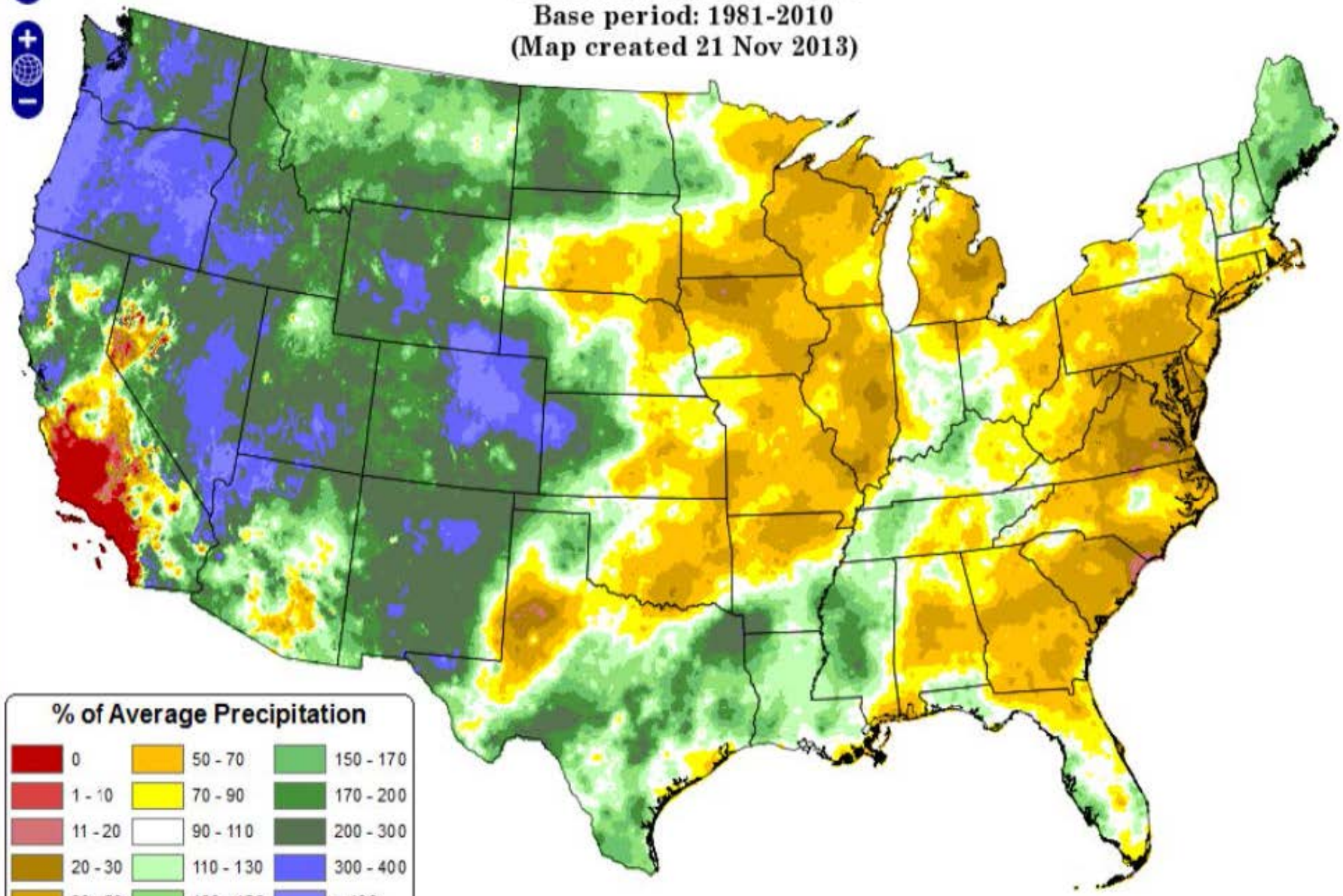
United States Department of Agriculture
Natural Resources Conservation Service

Idaho Water Supply Outlook Report
January 1, 2014

The views in Idaho's Sawtooth Mountains remain breathtaking even though this year's snowpack is lacking. This photo was taken by Abbie Abramovich January 2, 2014 at approximately 9,000 feet in elevation.

Total Precipitation Anomaly: September 2013

Period ending 30 Sep 2013
Base period: 1981-2010
(Map created 21 Nov 2013)



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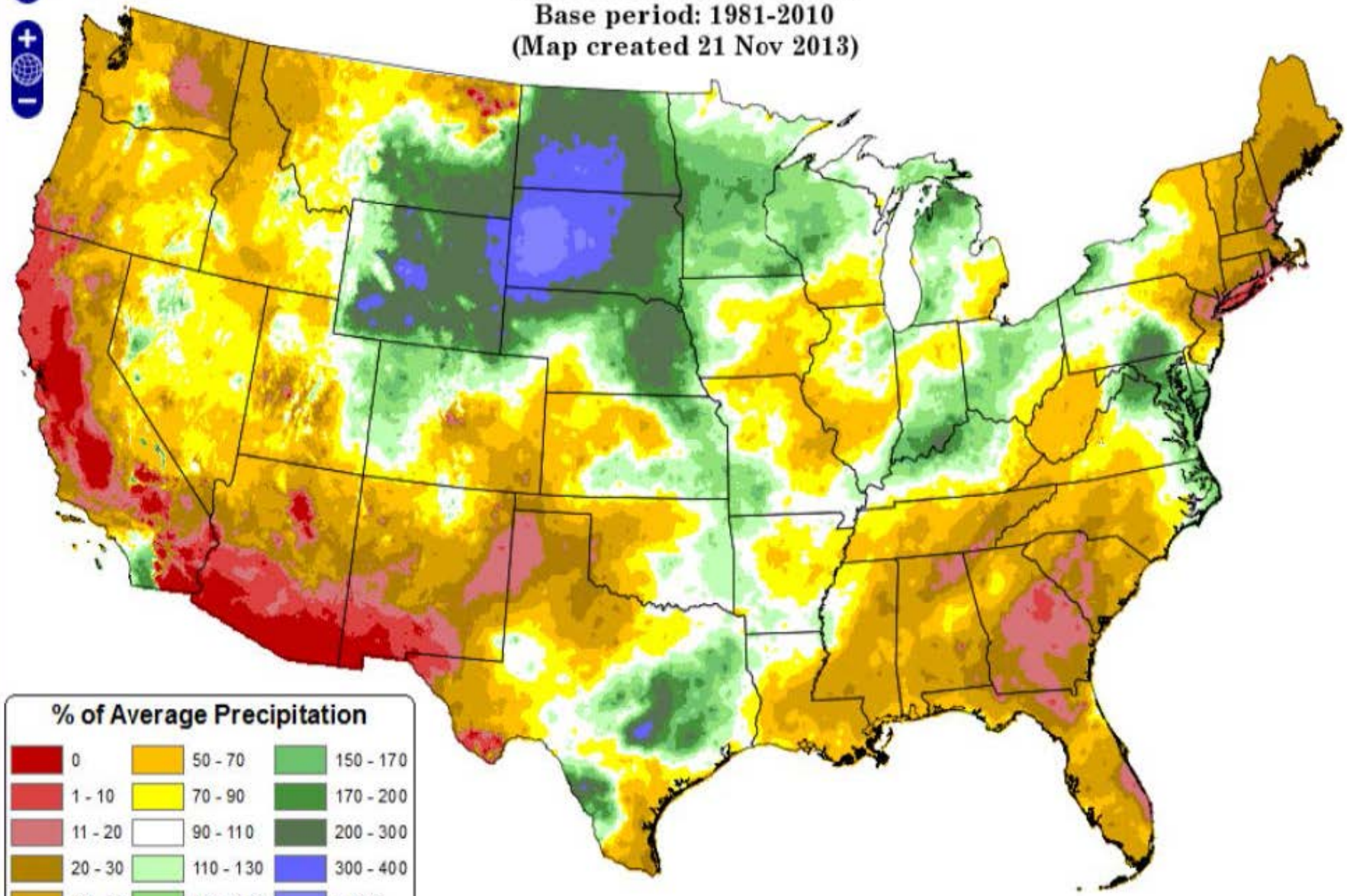
Total Precipitation Anomaly: October 2013

Period ending 31 Oct 2013
Base period: 1981-2010
(Map created 21 Nov 2013)



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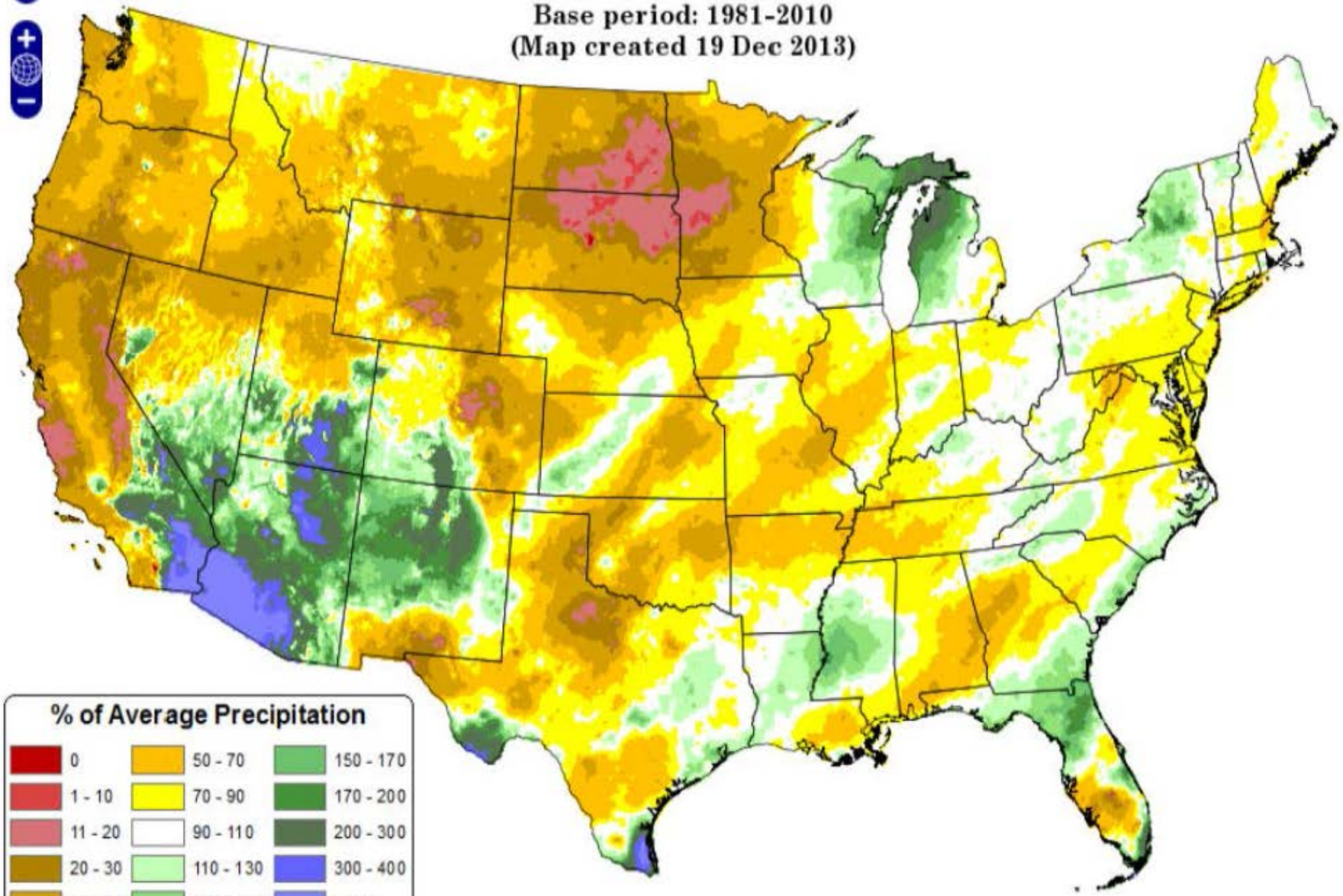
Total Precipitation Anomaly: November 2013

Period ending 30 Nov 2013
Base period: 1981-2010
(Map created 19 Dec 2013)



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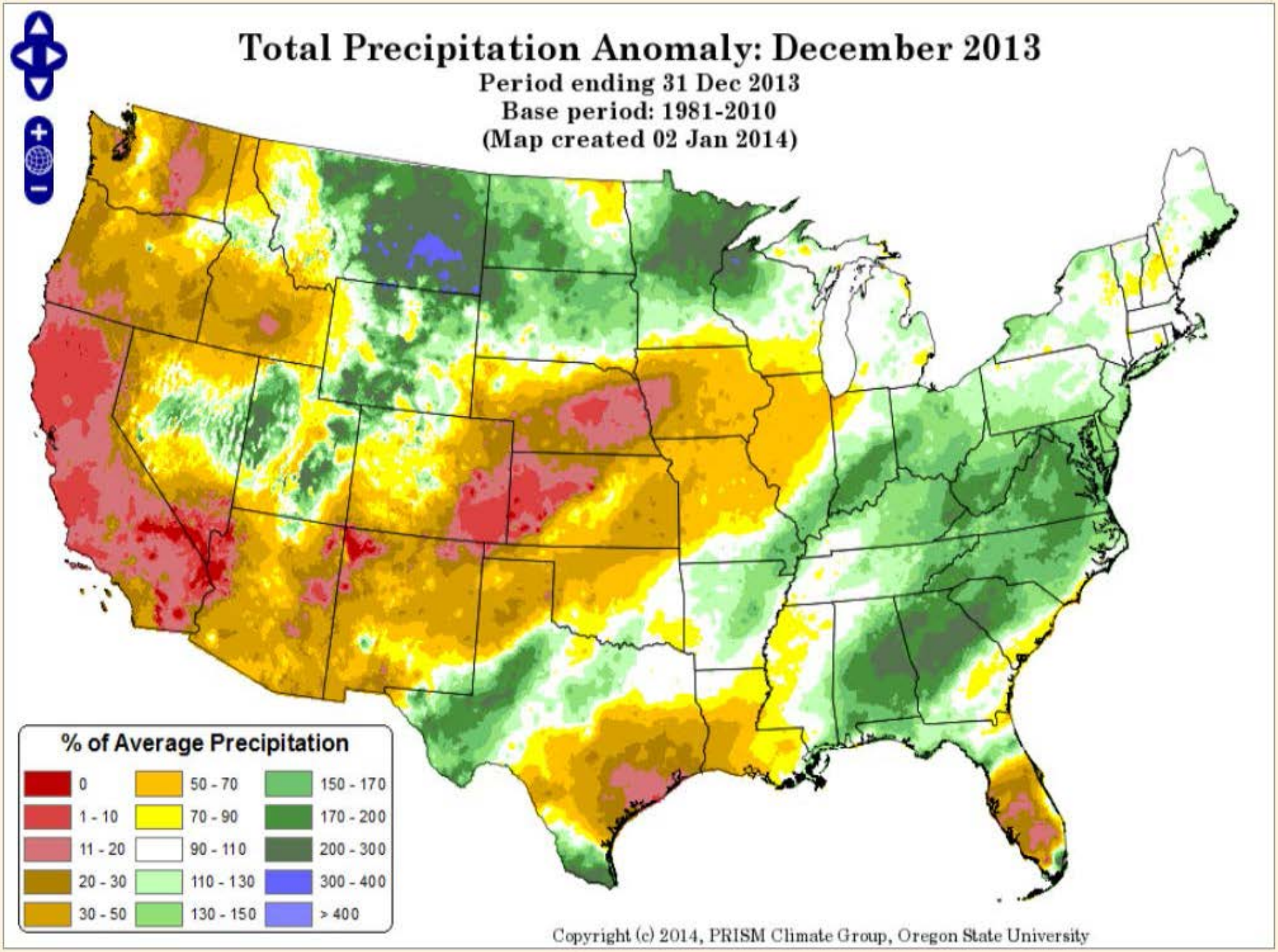
Total Precipitation Anomaly: December 2013

Period ending 31 Dec 2013
Base period: 1981-2010
(Map created 02 Jan 2014)



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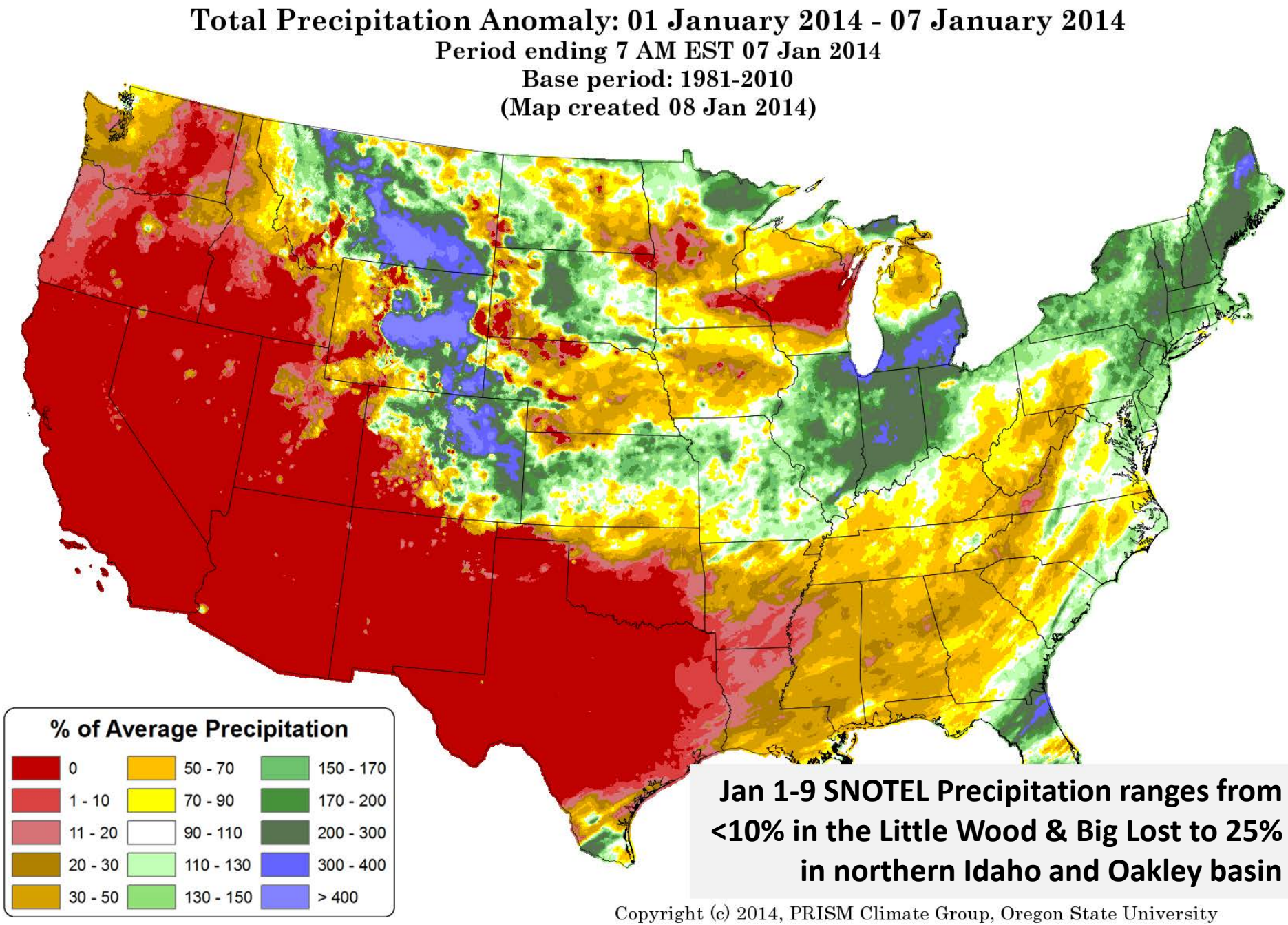
Total Precipitation Anomaly: 01 January 2014 - 07 January 2014
Period ending 7 AM EST 07 Jan 2014
Base period: 1981-2010
(Map created 08 Jan 2014)
% of Average Precipitation
0
1 - 10
11 - 20
20 - 30
30 - 50
50 - 70
70 - 90
90 - 110
110 - 130
130 - 150
150 - 170
170 - 200
200 - 300
300 - 400
> 400
Jan 1-9 SNOTEL Precipitation ranges from <10% in the Little Wood & Big Lost to 25% in northern Idaho and Oakley basin
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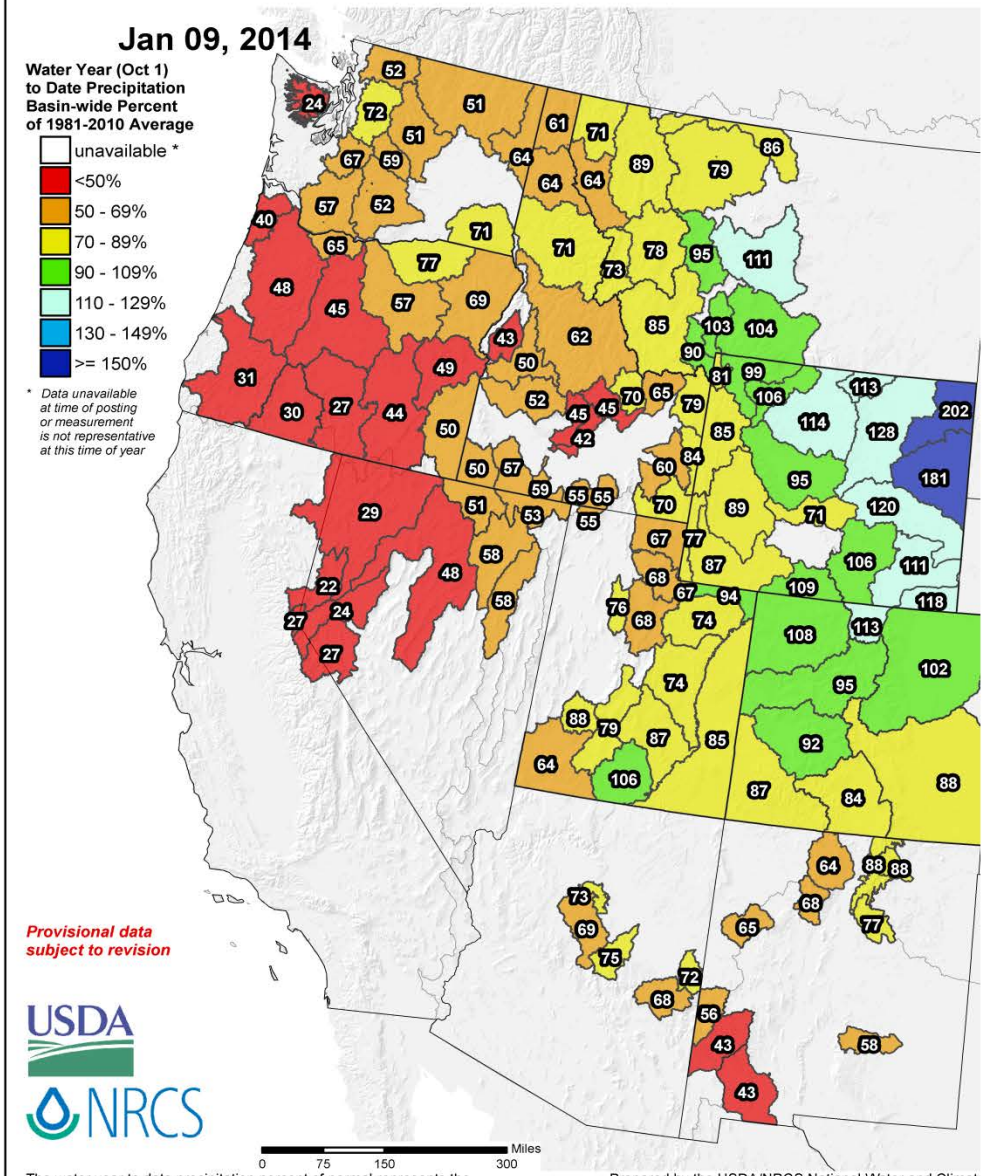
PRISM Maps

Maps were produced by Oregon State University's PRISM Climate Group. Data and website development are funded by USDA Risk Management Agency (RMA) for crop insurance verification, and quality control of SNOTEL data is funded by NRCS. The maps include all SNOTEL stations and many other national and regional networks.

- **Maps are http://www.prism.oregonstate.edu/**

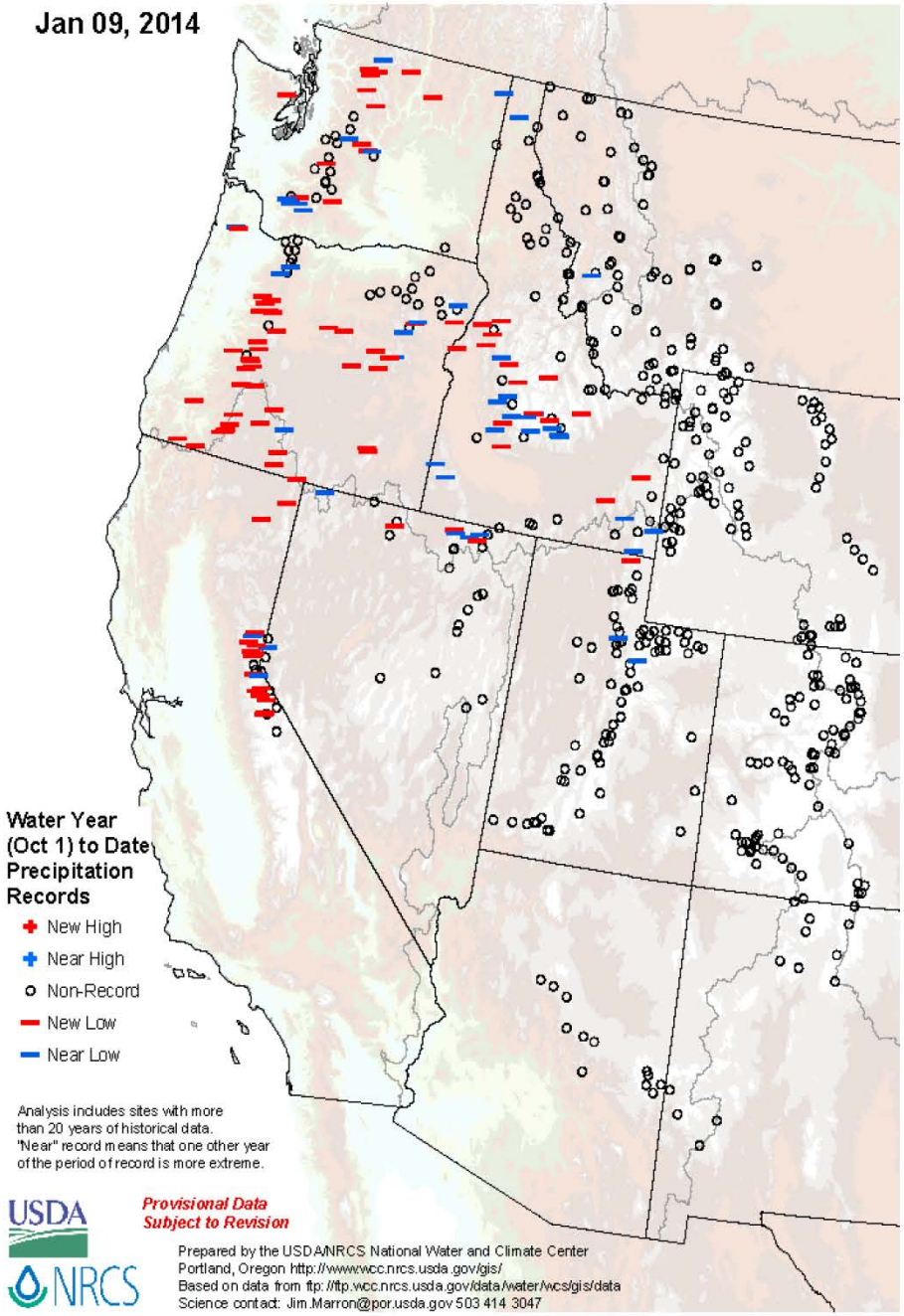
Westwide SNOTEL Water Year (Oct 1) to Date Precipitation % of Norr



The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by the USDA/NRCS National Water and Climate
Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/
Based on data from http://www.wcc.nrcs.usda.gov/reports
Science contact: Jim.Marron@por.usda.gov 503 414 3047

SNOTEL Water Year (Oct 1) to Date Precipitation Records



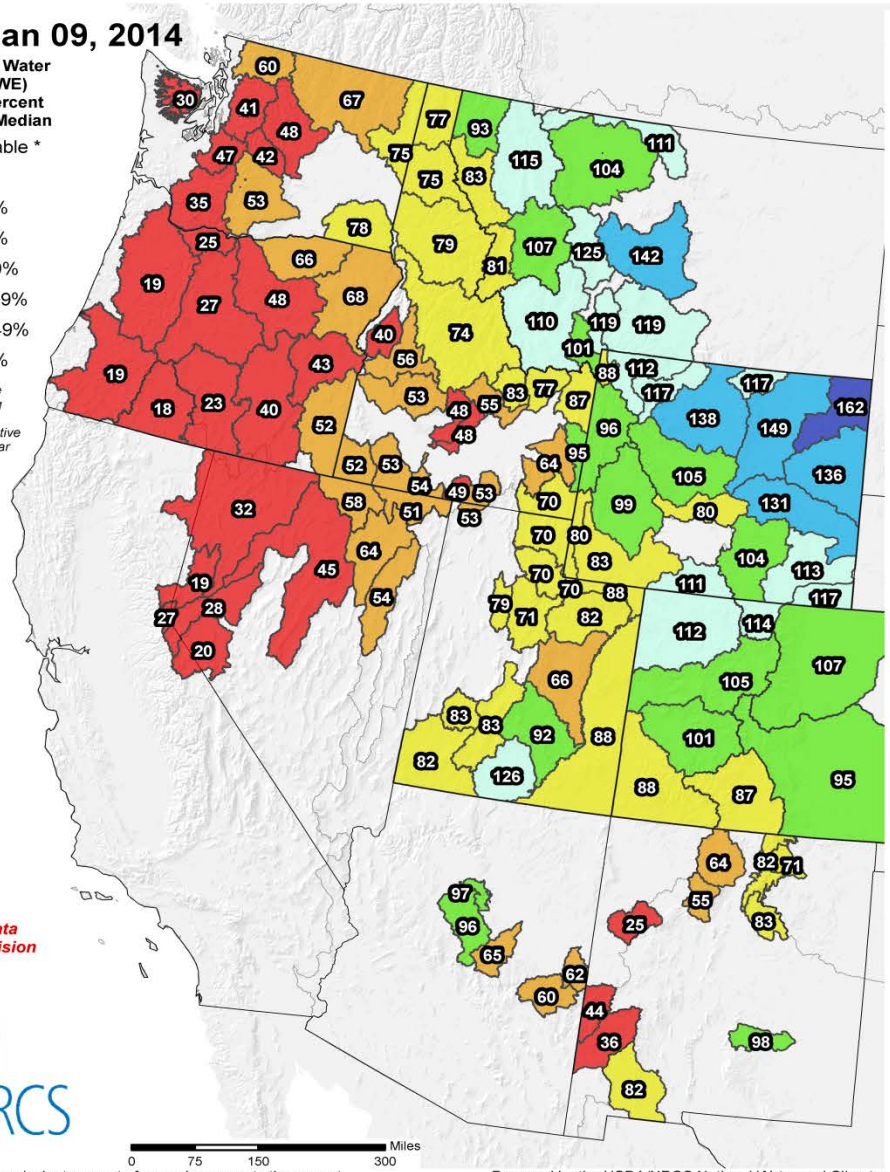
Westwide SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Jan 09, 2014

Current Snow Water Equivalent (SWE) Basin-wide Percent of 1981-2010 Median

- unavailable *
- <50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- >= 150%

* *Data unavailable at time of posting or measurement is not representative at this time of year*



Provisional data subject to revision

The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by the USDA/NRCS National Water and Climate Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/
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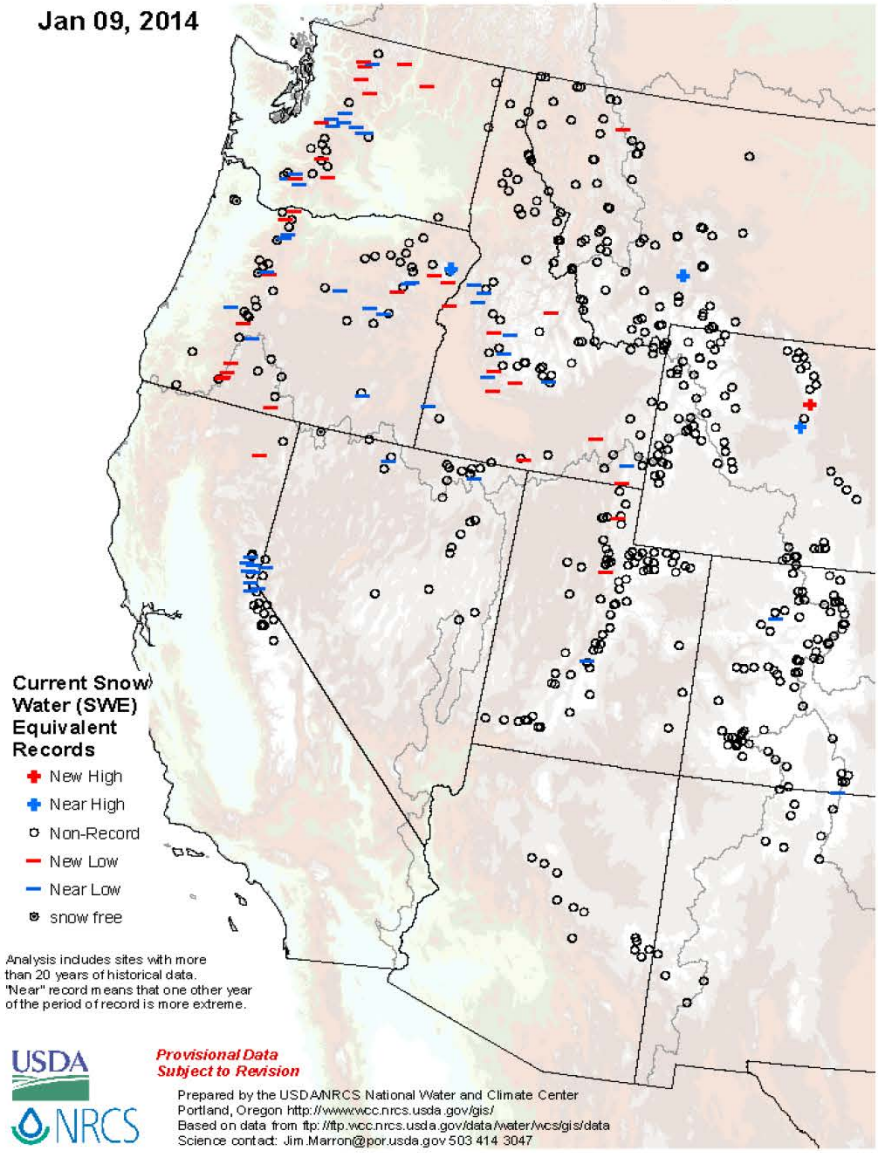
SNOTEL Current Snow Water Equivalent (SWE) Records

Jan 09, 2014



Current Snow Water (SWE) Equivalent Records

- New High
- Near High
- Non-Record
- New Low
- Near Low
- snow free

Analysis includes sites with more than 20 years of historical data.
"Near" record means that one other year of the period of record is more extreme.

Provisional Data Subject to Revision

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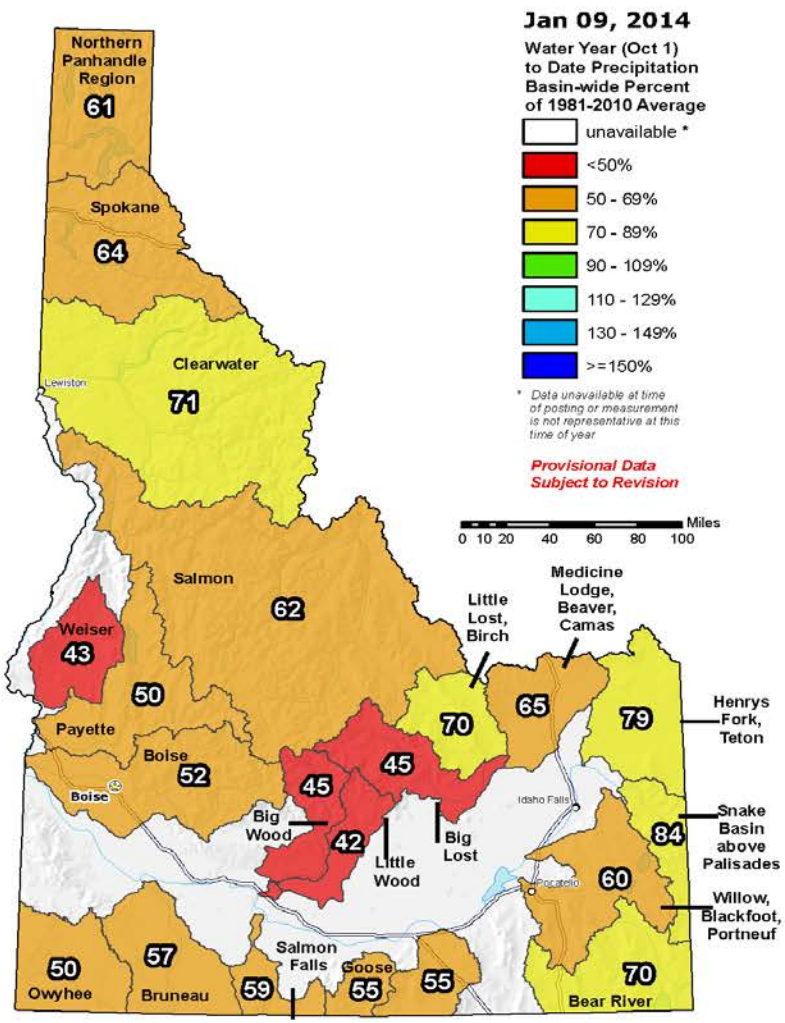
Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/
Based on data from ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/gis/data
Science contact: Jim.Marron@por.usda.gov 503 414 3047

Idaho SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Idaho SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal



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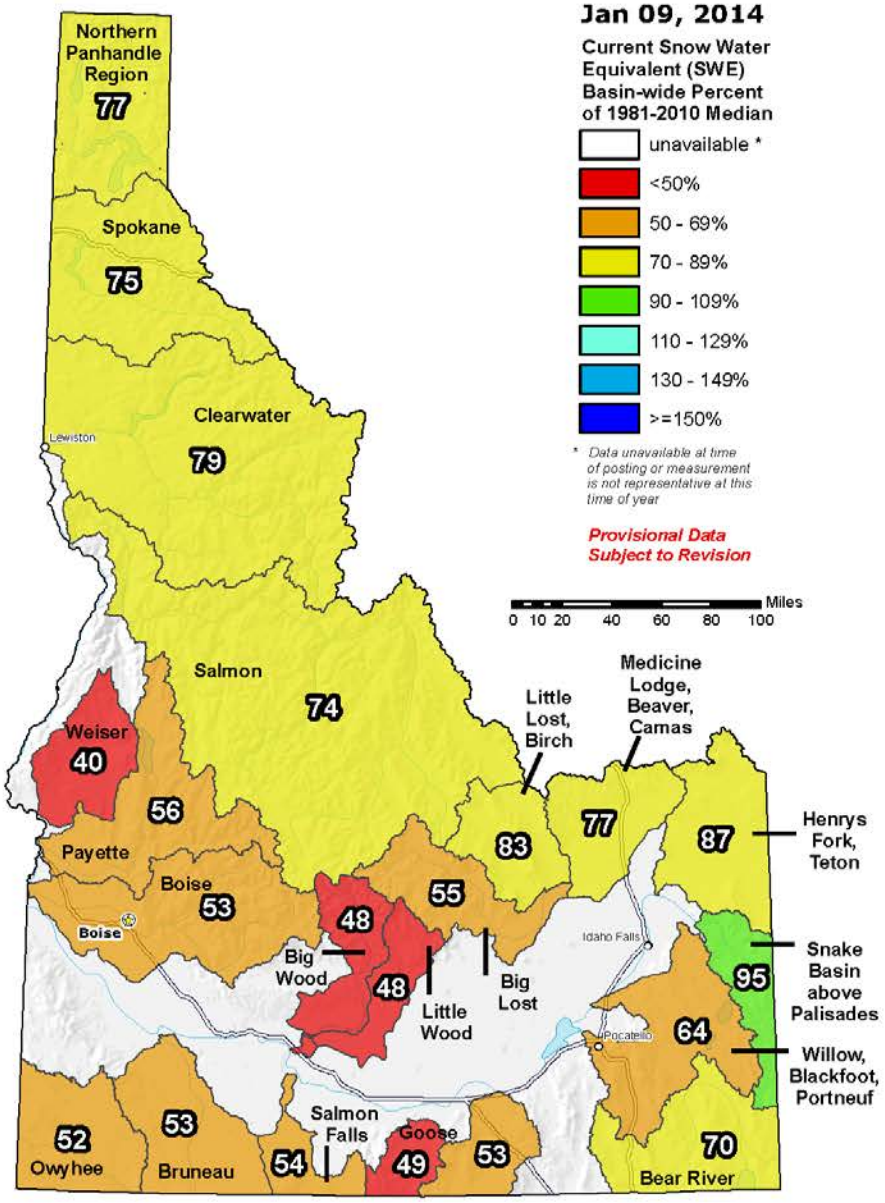

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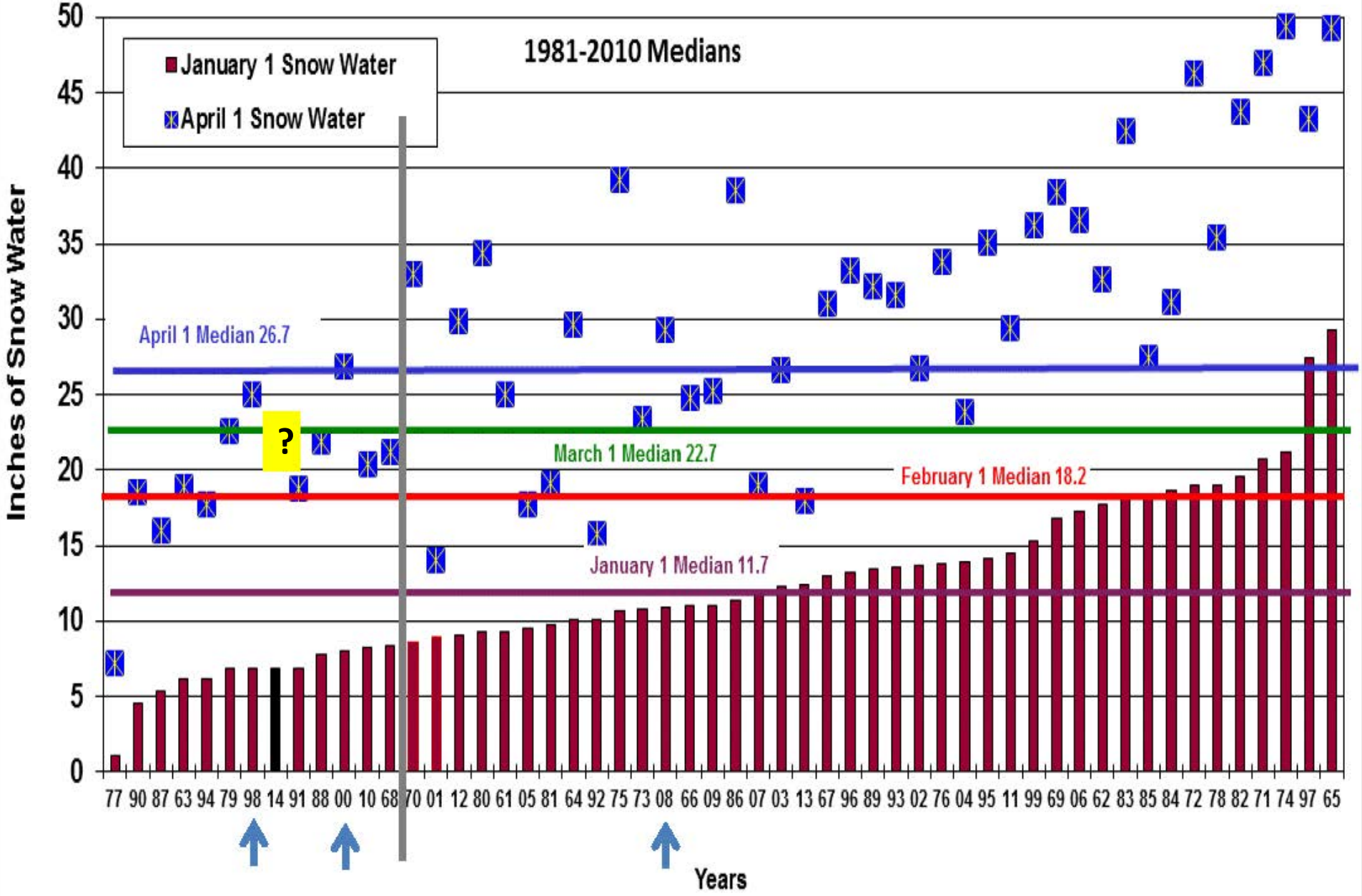
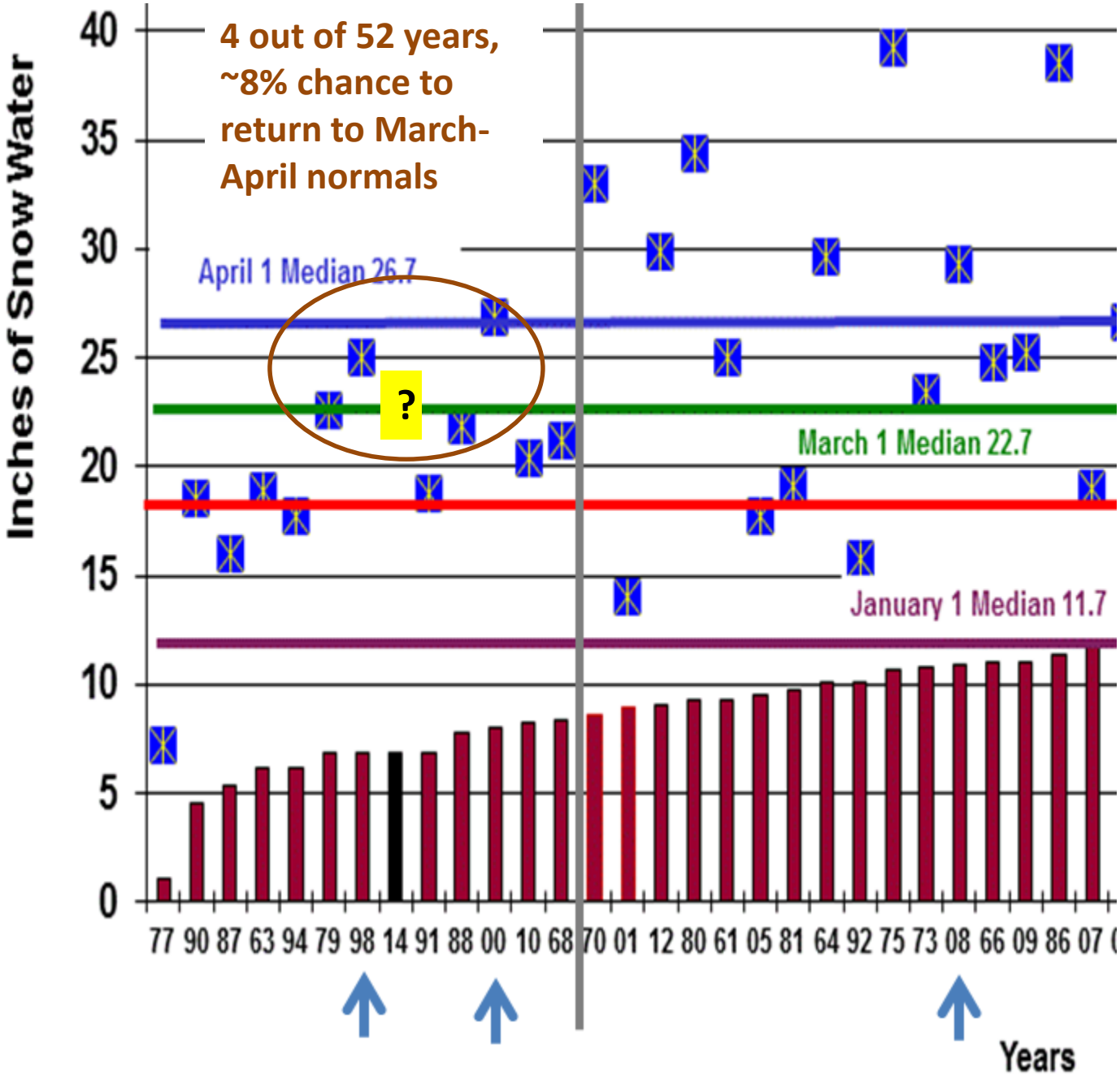
Boise Basin 7 Station Snow Index for Years 1961 - Jan 2014

Atlanta, Dollarhide, Graham, Jackson, Mores Creek, Trinity Mountain, Vienna Mine





Boise Basin:
Of the lowest 12 years:

1963, 1998, 2000, 2010 & 1968 had a cool PDO signal like 2014.

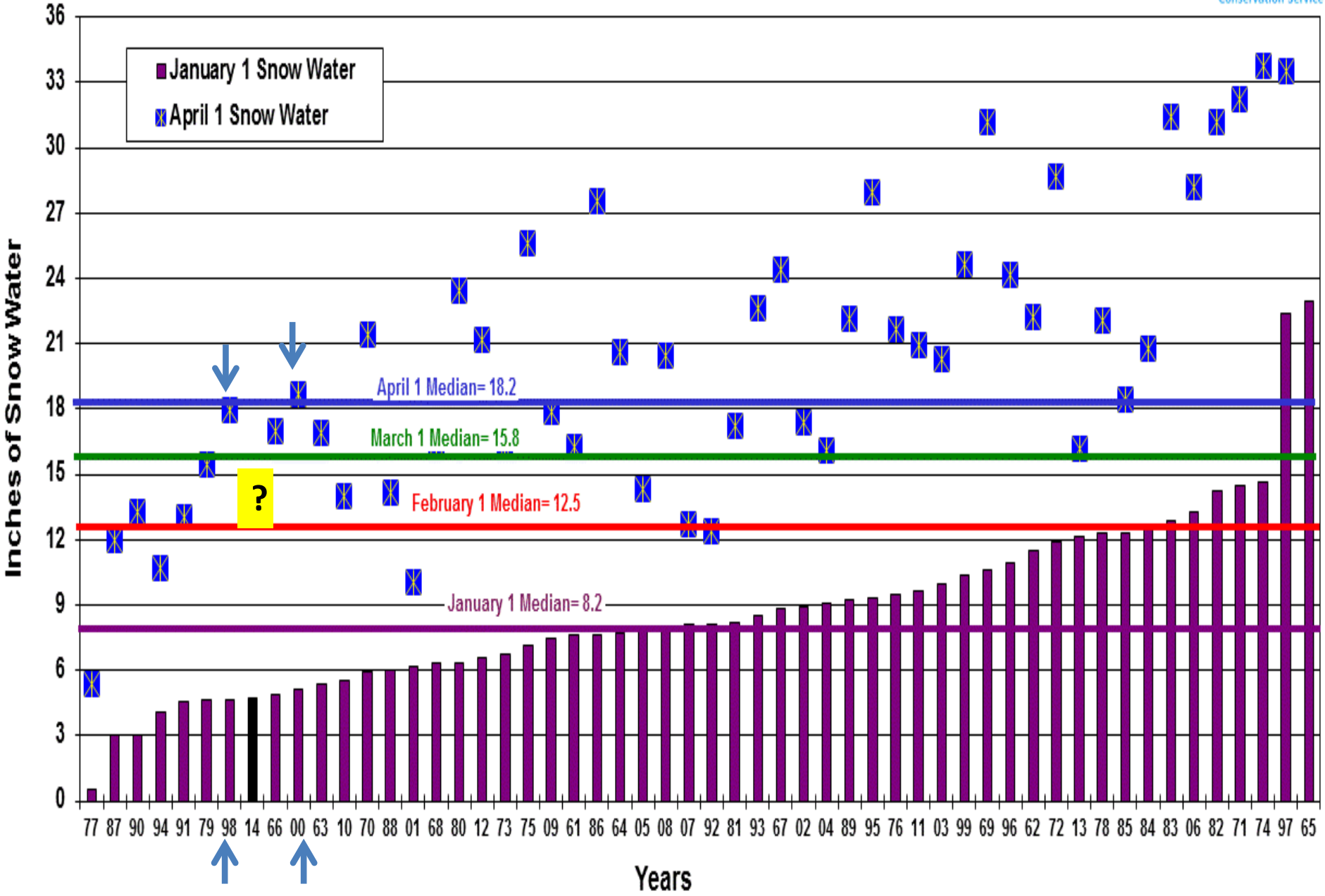
Neutral years include: 1990, 1987,1963, 1979, 1991, 2000 & 1968 like 2014.

Weather is more variable today than historically, and UofI analysis shows storms are bigger, so just takes a few storms to get us back in the game for 2nd of winter.

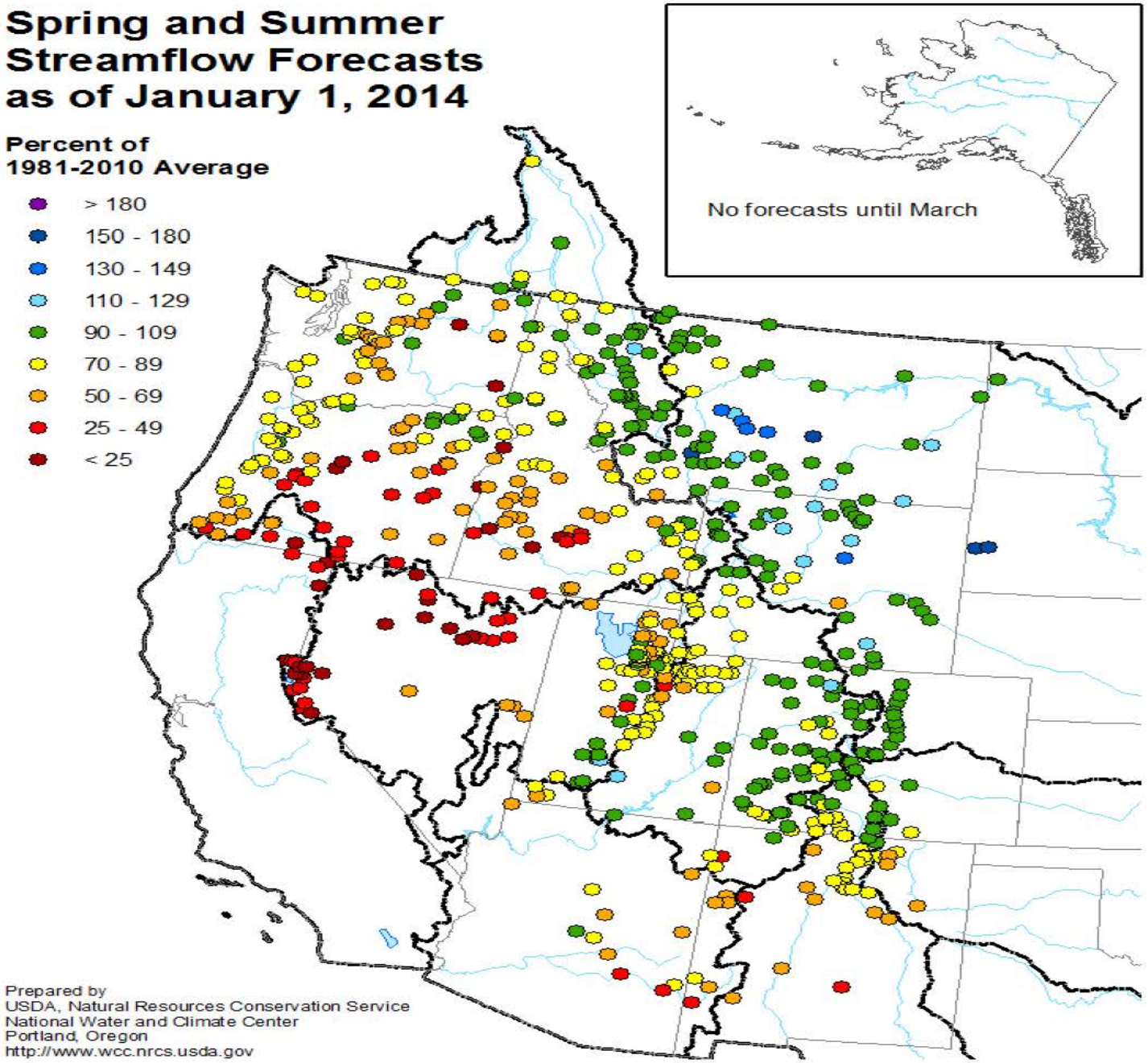
Big Wood Basin above Hailey 7 Station Snow Index for Years 1961 - Jan 2014

Chocolate Gulch, Dollarhide, Galena, Galena Summit, Hyndman, Lost-Wood Divide, Vienna Mine

NRCS Natural Resources Conservation Service



Spring and Summer Streamflow Forecasts as of January 1, 2014



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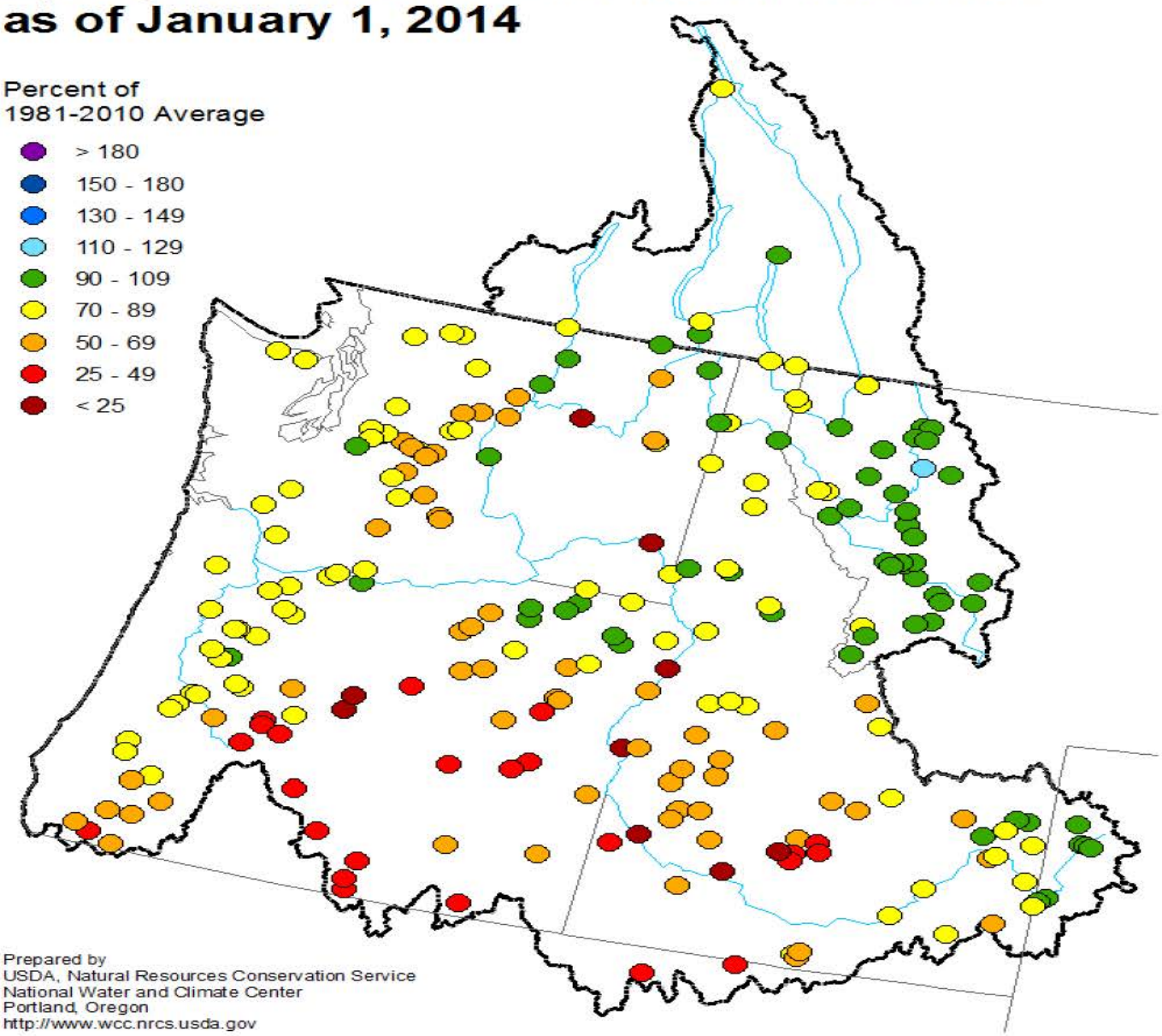
Columbia River and Pacific Coastal Basins Spring and Summer Streamflow Forecasts as of January 1, 2014



Prepared by
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http://www.wcc.nrcs.usda.gov

IDAHO RESERVOIR STORAGE Usable Contents		
Reservoir (s)	Percent of Capacity December 31, 2013	Percent of Average December 31, 2013
Salmon Falls	6	29
Owyhee	8	19
Coeur d' Alene	15	39
Oakley	17	65
Magic	20	60
Palisades & Jackson	26	47
Little Wood	33	71
Blackfoot	42	86
Boise (3)	42	83
American Falls	42	74
Mackay	42	86
Bear Lake	46	93
Payette (2)	59	70
Dworshak	66	96

IDAHO SURFACE WATER SUPPLY INDEX (SWSI) January 1, 2014

BASIN or REGION	*SWSI Value*	*Most Recent Year With Similar SWSI Value*	*Agricultural Water Supply Shortage May Occur When SWSI is Less Than*
Northern Panhandle	-1.8	2010	NA
Spokane	-1.6	2004	NA
Clearwater	-1.1	2003	NA
Salmon	-1.6	2013	NA
Weiser	-2.1	2013	NA
Payette	-2.6	2007	NA
Boise	-2.6	2013	-1.5
Big Wood	-2.1	2002	0.5
Little Wood	-2.1	2013	-1.5
Big Lost	-1.6	2000	0.5
Little Lost	-1.6	2000	1.2
Teton	-0.6	2005	-3.9
Henrys Fork	-0.8	2010	-3.4
Snake (Heise)	-1.6	1994/2013	-1.5
Oakley	-2.3	2002	0.5
Salmon Falls	-3.3	2003	-0.7
Bruneau	-1.8	2013	NA
Owyhee	-3.1	2013	-3.4
Bear River	-0.3	1989/2001	-3.4

Water Supply Forecasts, Amount Needed & Exeedance Forecasts

BASIN or REGION	*Adequate Irrigation Water Supply (KAF)*	*Projected March 31 Reservoir Storage (KAF)*	*Streamflow Volume Needed for Adequate Water Supply (KAF) (% of Ave.)*	*90% Chance of Exceedance Streamflow Forecast Apr-Sep (KAF)*	*70% Chance of Exceedance Streamflow Forecast Apr-Sep (KAF)*	*50% Chance of Exceedance Streamflow Forecast Apr-Sep (KAF)*	*30% Chance of Exceedance Streamflow Forecast Apr-Sep (KAF)*	*10% Chance of Exceedance Streamflow Forecast Apr-Sep (KAF)*
Big Wood	275	40	235 (89%)	7 (-228)	18 -(217)	82 (-153)	160 (-75)	265 (+30)
Salmon Falls	110	20	90 (122%)	14 (-76)	28 (-62)	40 (-50)	54 (-36)	79 (-11)
Oakley	50	20	30 (115%)	1 (-29)	11 (-19)	18 (-12)	25 (-5)	35 (+5)
Big Lost	180	30	150 (100%)	7 (-143)	58 (-92)	93 (-57)	128 (-22)	179 (+29)
Little Lost	40	0	40 (119%)	14 (-26)	21 (-19)	26 (-14)	32 (-8)	42 (+2)
Boise	1,500	480	1020 (75%)	205 (-815)	625 (-395)	815 (-205)	1010 (-10)	1420 (+400)
Snake (Heise)	4,400	684	3516 (93%)	2440 (-1076)	2980 (-536)	3350 (-166)	3720 (+204)	4260 (+744)
Little Wood	60	18	42 (51%)	7 (-35)	17 (-25)	42 (+ -0)	65 (+23)	100 (+58)
Owyhee	450	75	375 (93%)	145 (-230)	285 (-90)	405 (+30)	545 (+170)	795 (+420)
Teton	85	0	85 (44%)	88 (+3)	125 (+40)	154 (+69)	186 (+101)	240 (+155)
Bear River	400	670	0	3 (+3)	108 (+108)	160 (+160)	252 (+252)	357 (+357)

Questions / Comments / Corrections