

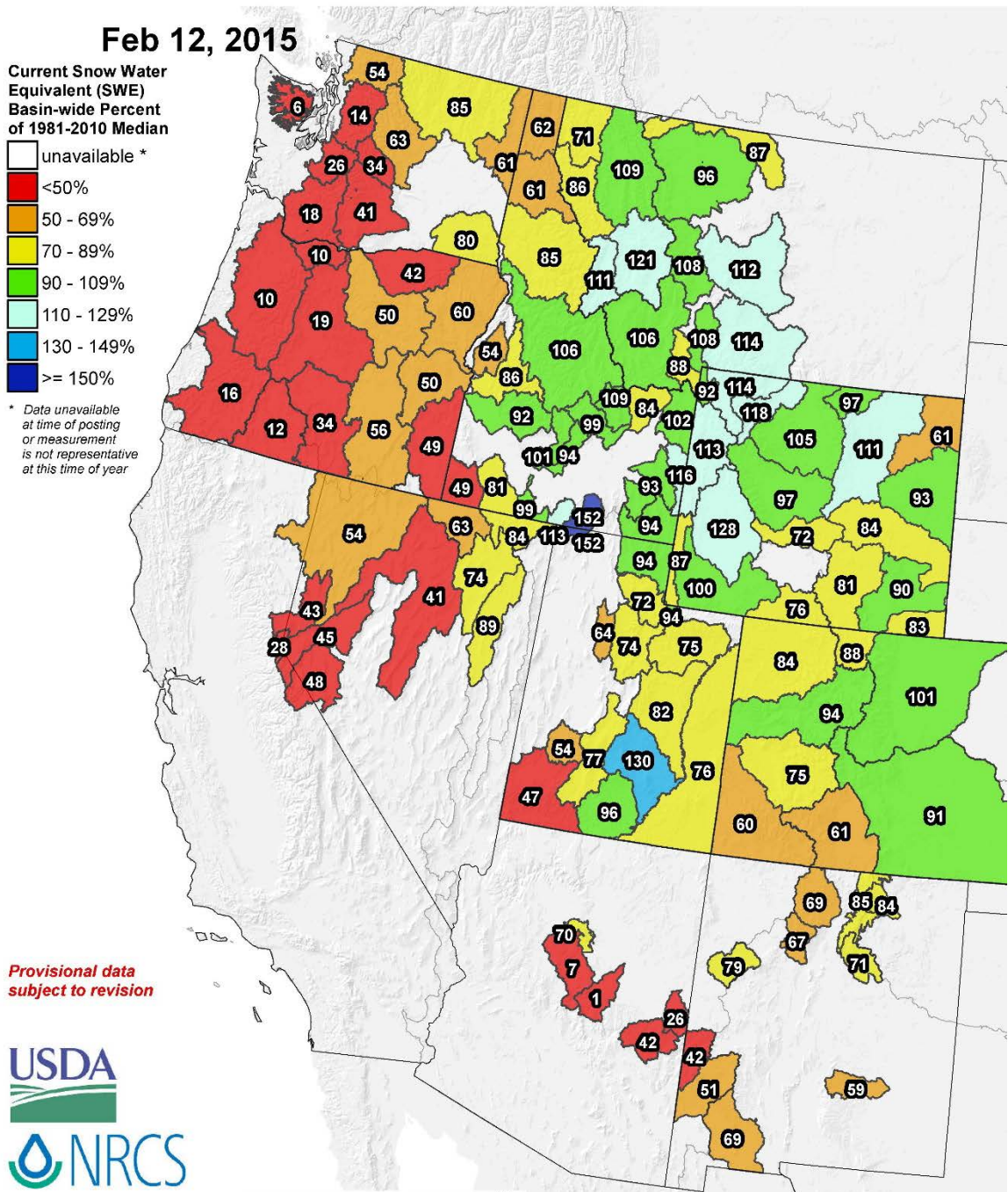


IDWR State Water Supply Meeting Feb 13, 2015

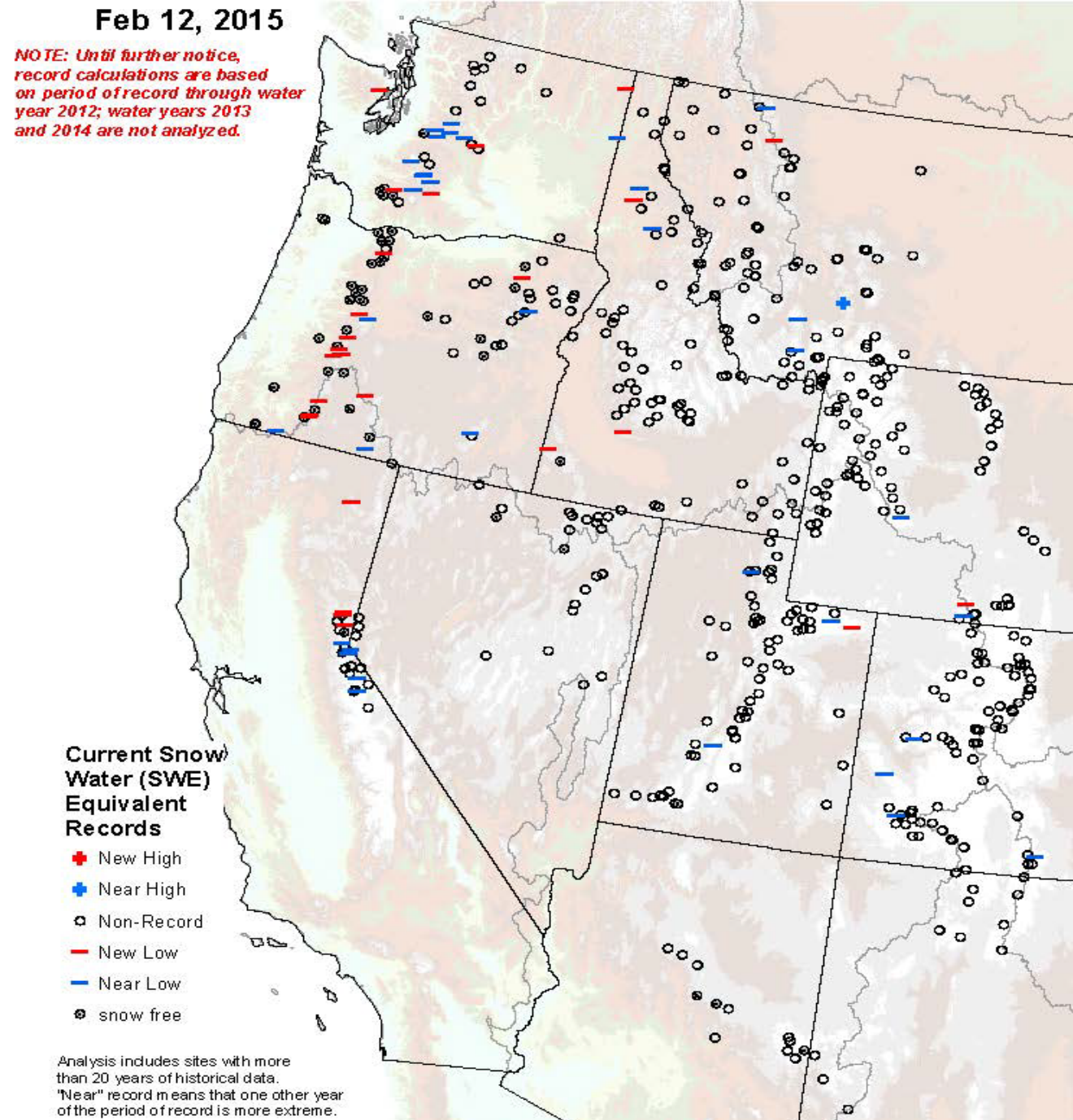
**Rain on Snow up to
7,000 - 8,000 feet
in Clearwater Basin
above Dworshak
Reservoir
Jan 26, 2015**

**Ron Abramovich
Water Supply Specialist
USDA NRCS Snow Survey
Boise, Idaho**

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



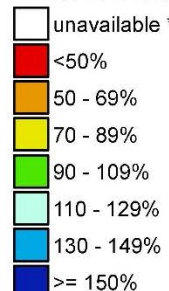
SNOTEL Current Snow Water Equivalent (SWE) Records



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

Feb 12, 2015

Water Year (Oct 1)
to Date Precipitation
Basin-wide Percent
of 1981-2010 Average



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

Provisional data
subject to revision



SNOTEL Water Year (Oct 1) to Date Precipitation Records

Feb 12, 2015

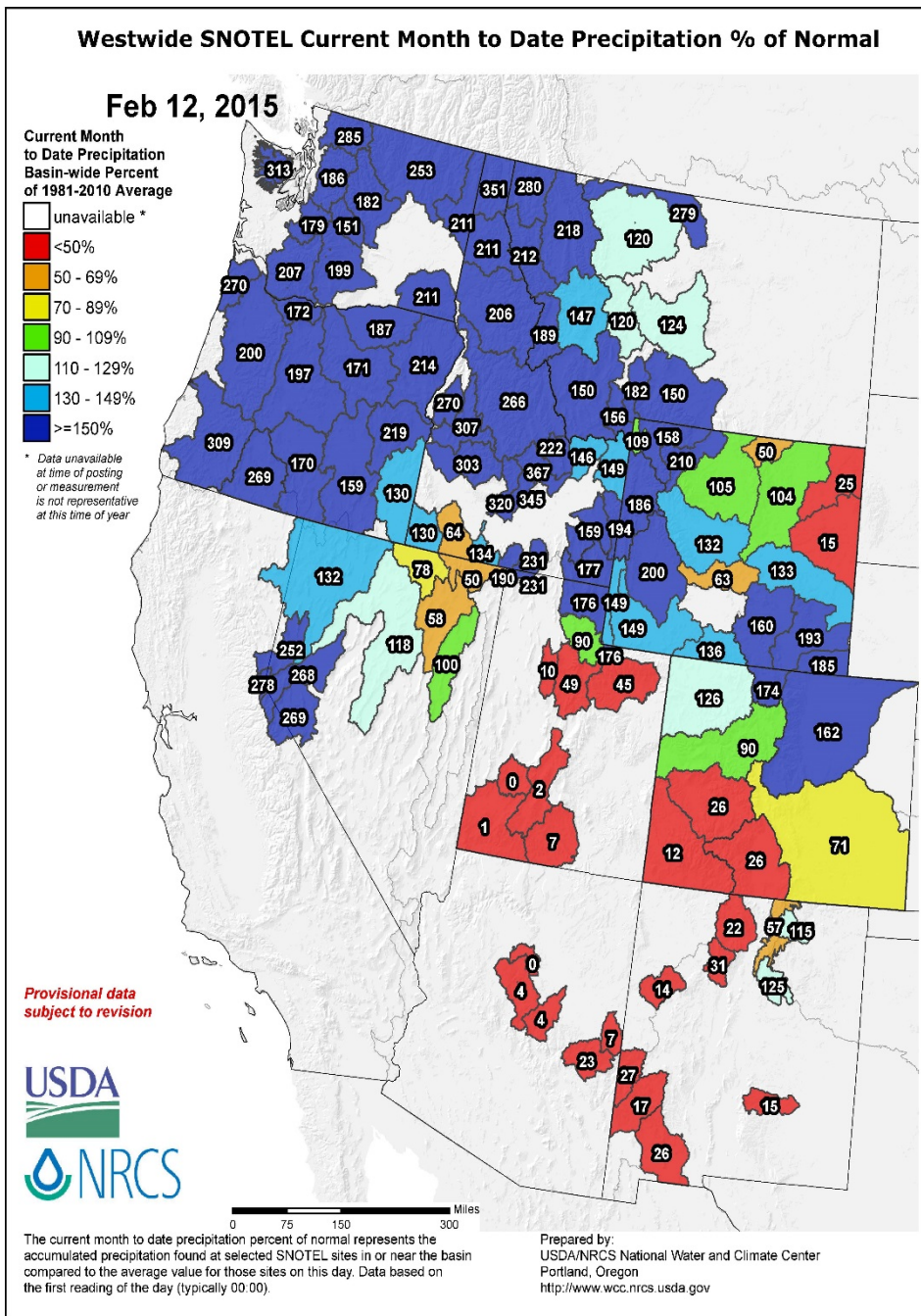
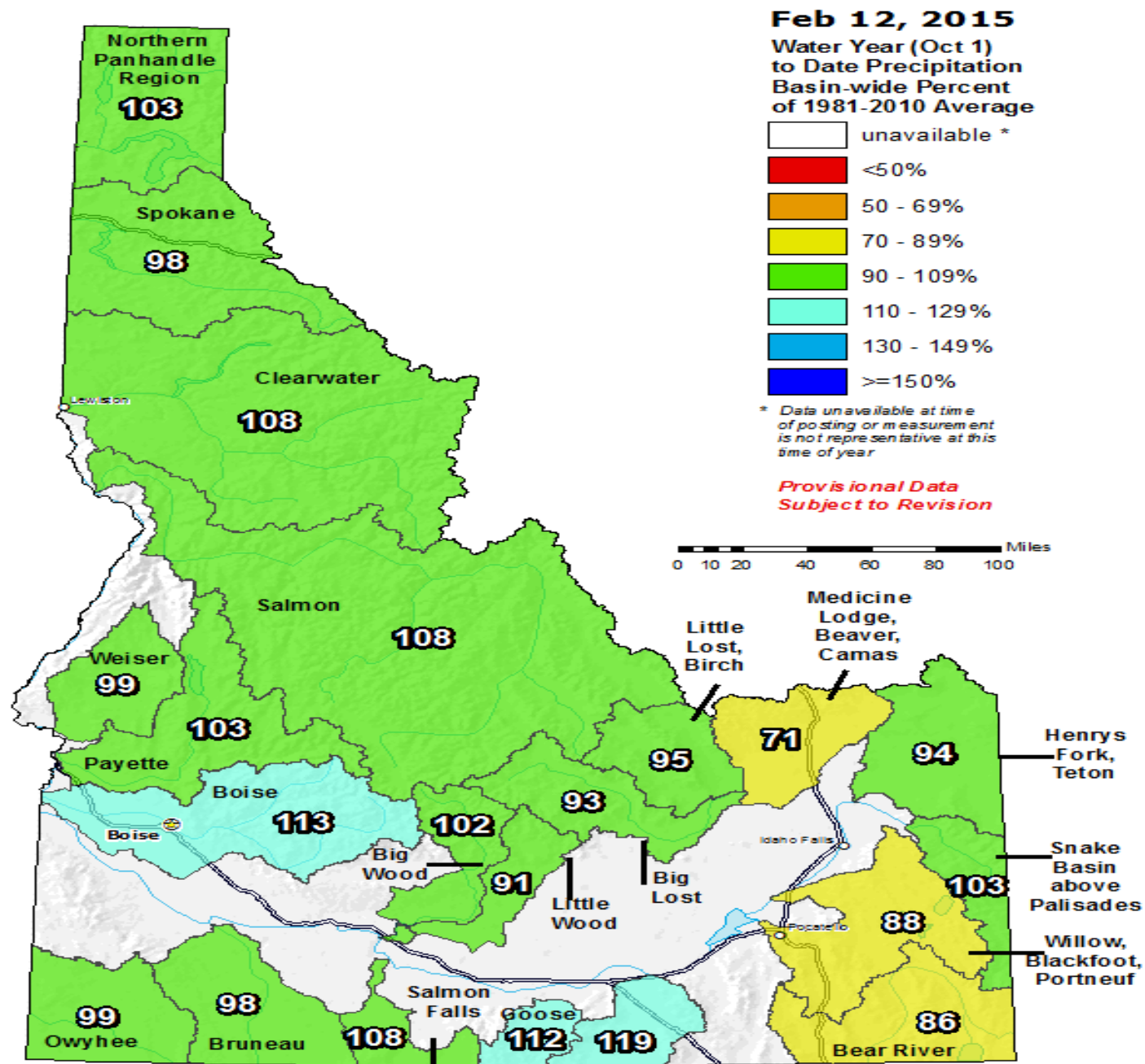
NOTE: Until further notice,
record calculations are based
on period of record through water
year 2012; water years 2013
and 2014 are not analyzed.

Water Year
(Oct 1) to Date
Precipitation
Records



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.

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



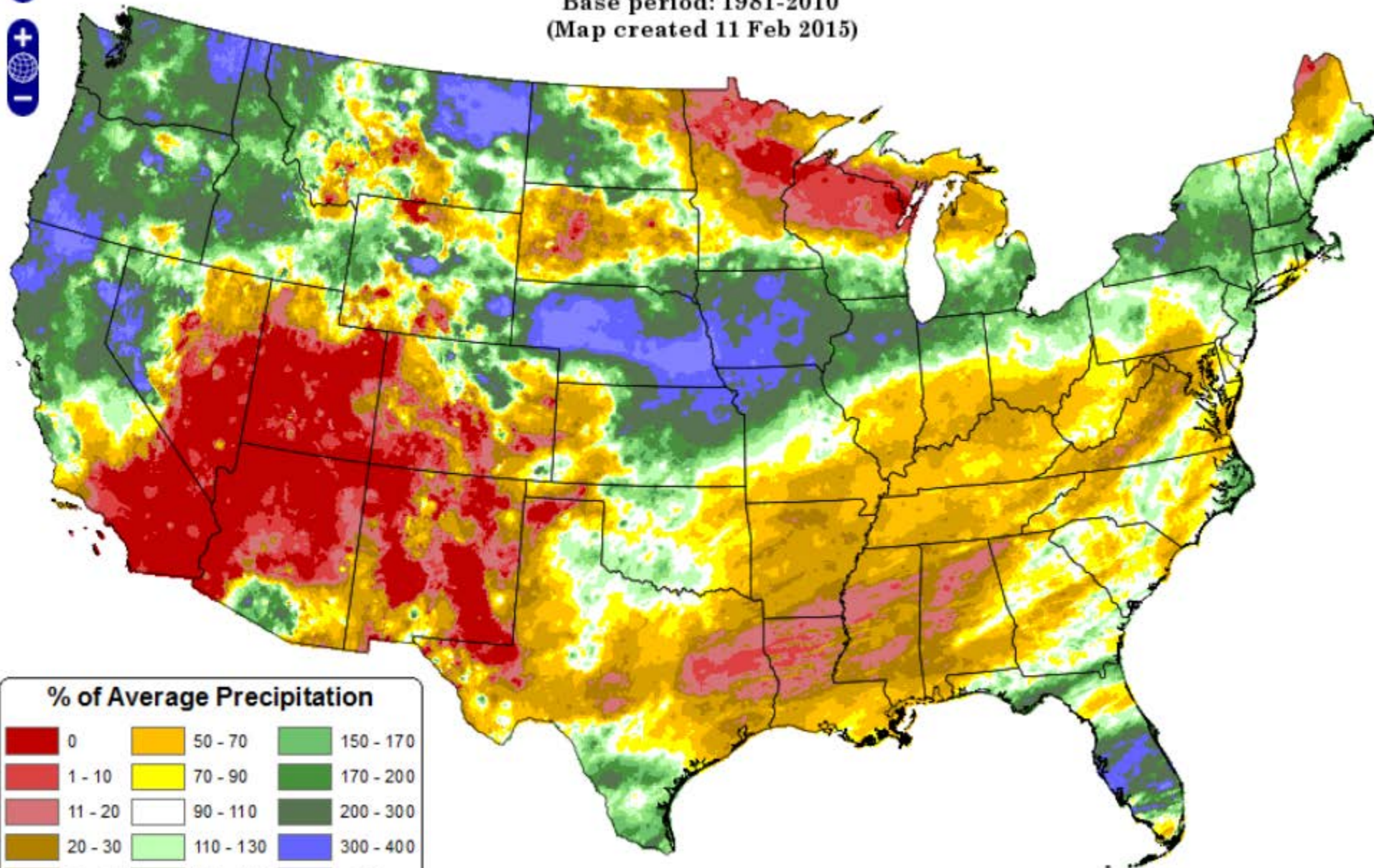


Total Precipitation Anomaly: 01 February 2015 - 10 February 2015

Period ending 7 AM EST 10 Feb 2015

Base period: 1981-2010

(Map created 11 Feb 2015)



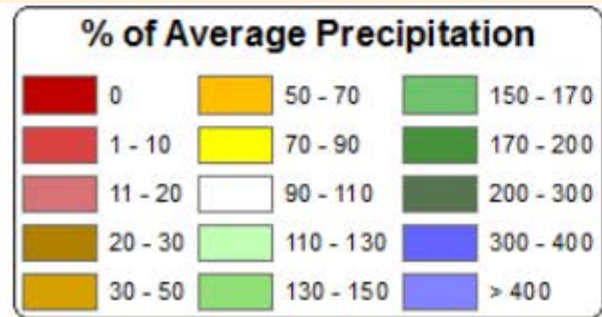
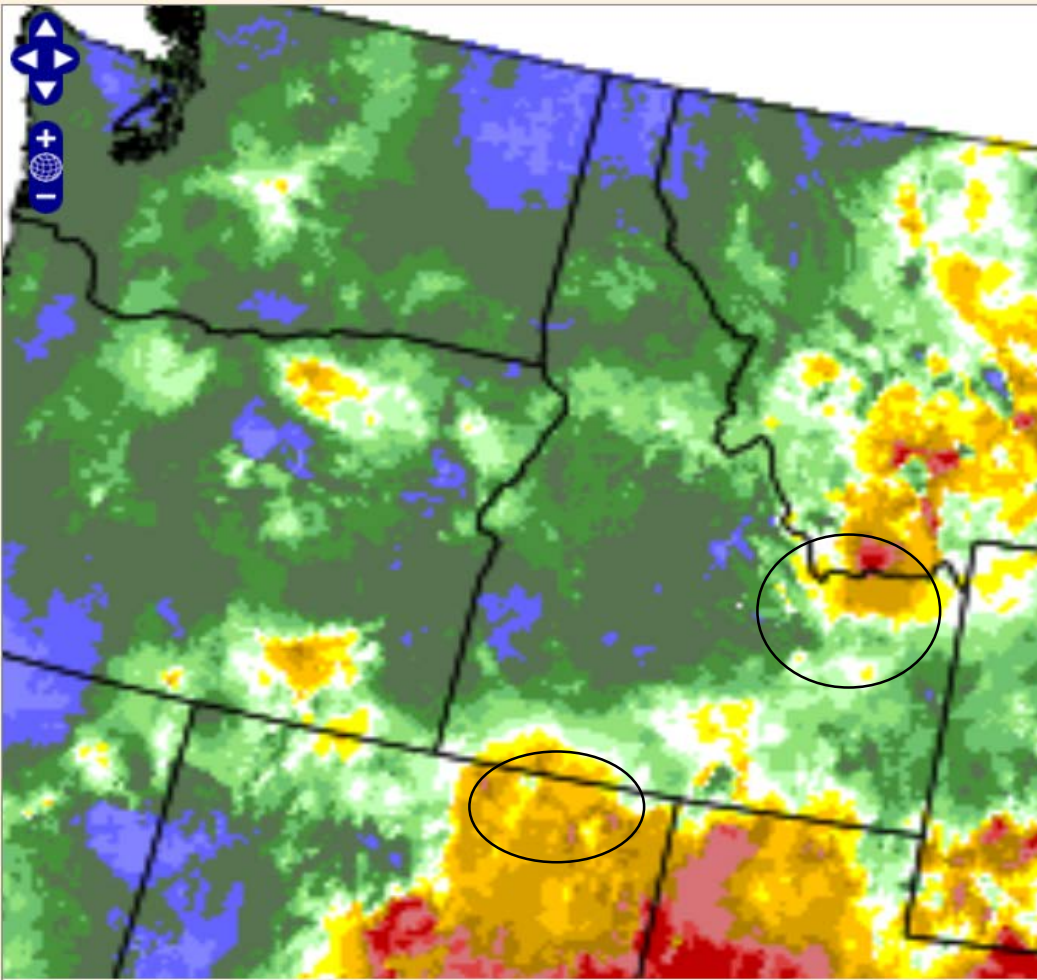
% of Average Precipitation

0	50 - 70	150 - 170
1 - 10	70 - 90	170 - 200
11 - 20	90 - 110	200 - 300
20 - 30	110 - 130	300 - 400
30 - 50	130 - 150	> 400



Total Precipitation Anomaly: 01 February 2015 - 10 February 2015

15



Feb 1 – 13 Precipitation as % of Feb Monthly Total

Panhandle	121%
Spokane & Clearwater	74%
Salmon & Weiser	82%
Payette, Boise Big Wood	93%
Little Wood & Big Lost	90%
Little Lost & Birch	67%
Mud Lake & Henrys Fork	45%
SNAKE abv Palisades	62%
Raft & Goose	70%
Willow, Blackfoot & Portneuf	49%
Bear	55%
Salmon Falls & Owyhee	47%
Bruneau	22%

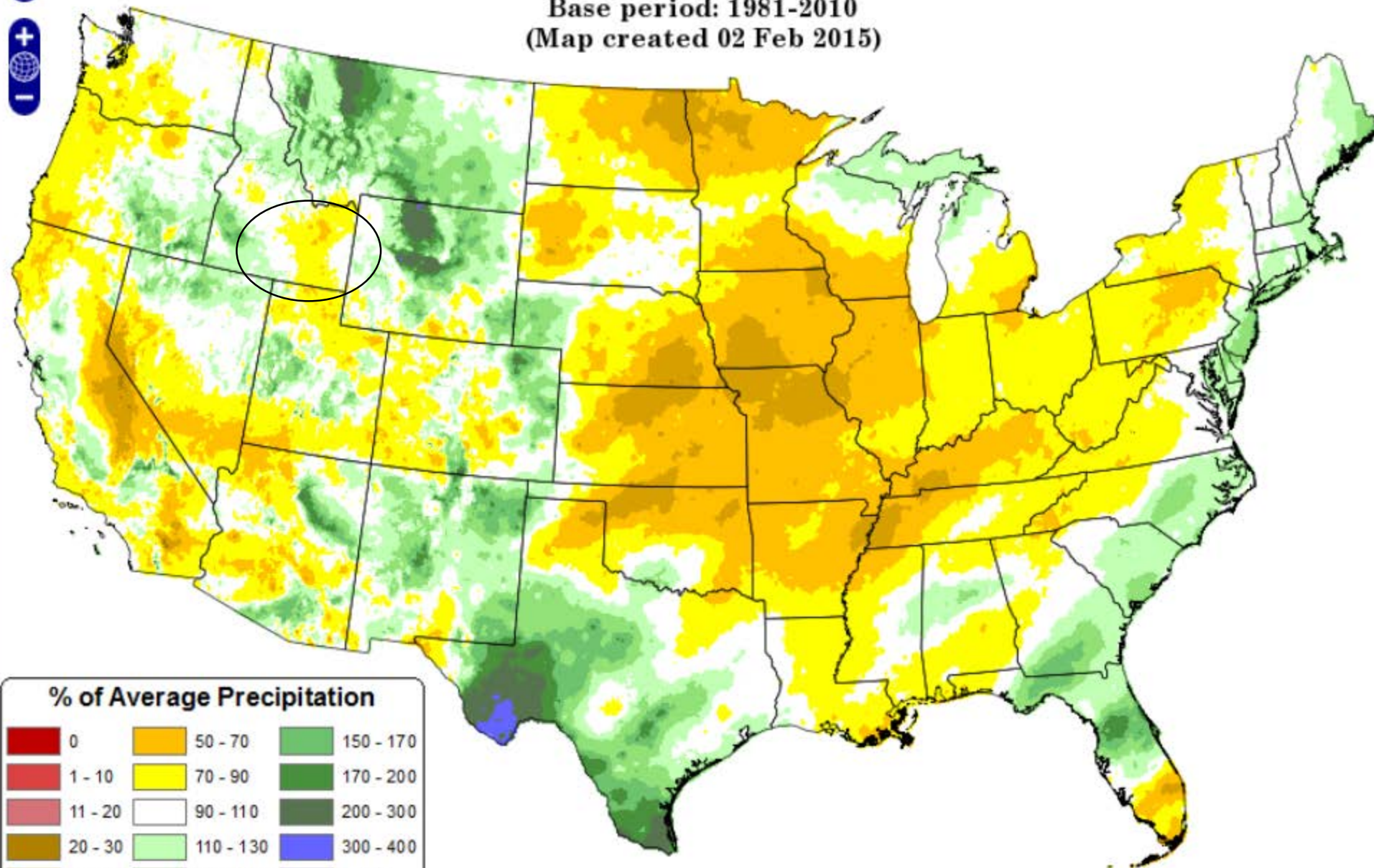


Total Precipitation Anomaly: November 2014 - January 2015

Period ending 7 AM EST 31 Jan 2015

Base period: 1981-2010

(Map created 02 Feb 2015)



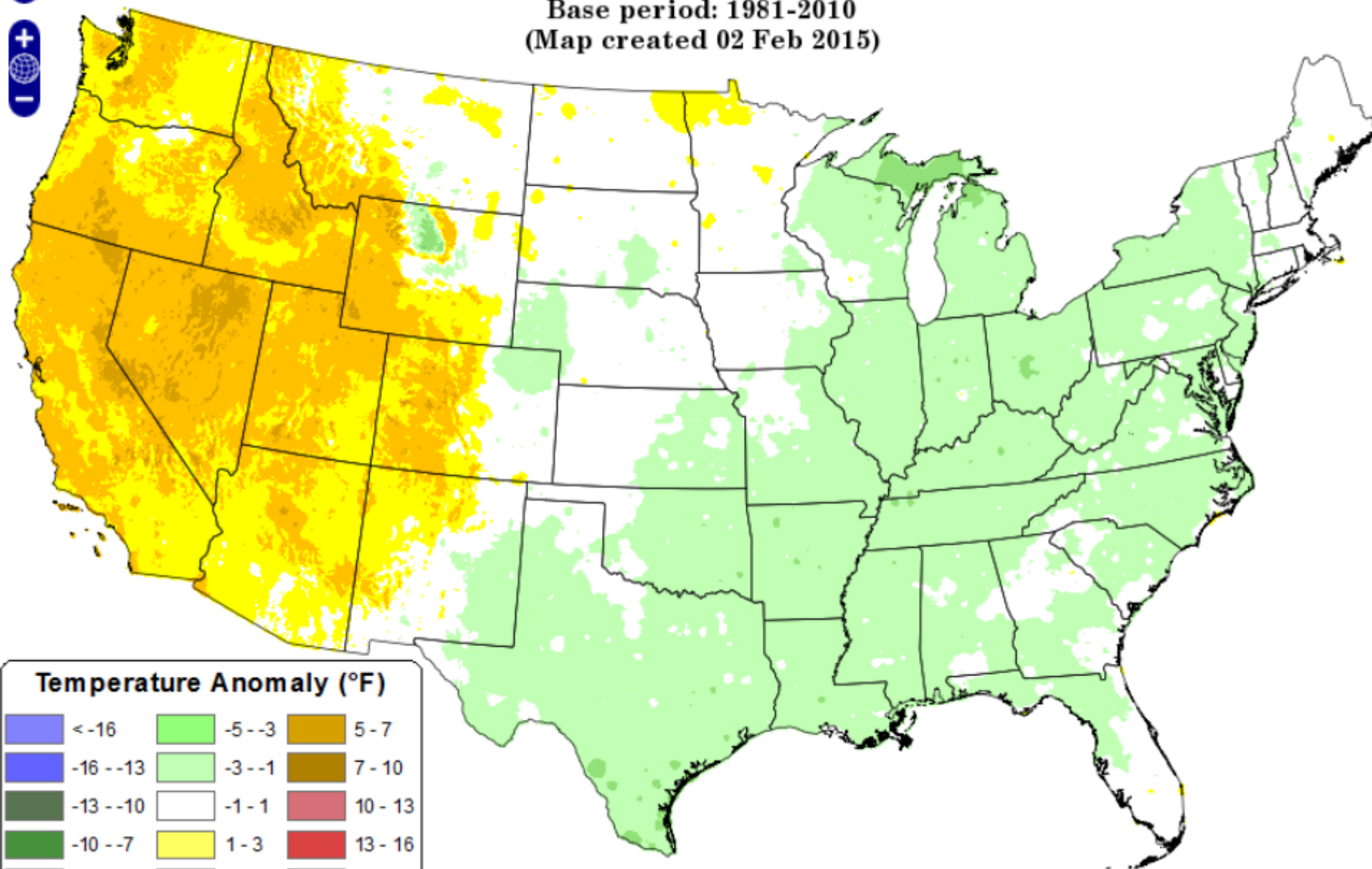


Daily Mean Temperature Anomaly: November 2014 - January 2015

Period ending 7 AM EST 31 Jan 2015

Base period: 1981-2010

(Map created 02 Feb 2015)



Temperature Anomaly (°F)

< -16	-5 - -3	5 - 7
-16 - -13	-3 - -1	7 - 10
-13 - -10	-1 - 1	10 - 13
-10 - -7	1 - 3	13 - 16
-7 - -5	3 - 5	> 16

SNOTEL Yesterday's Minimum Temperature Records

Feb 12, 2015

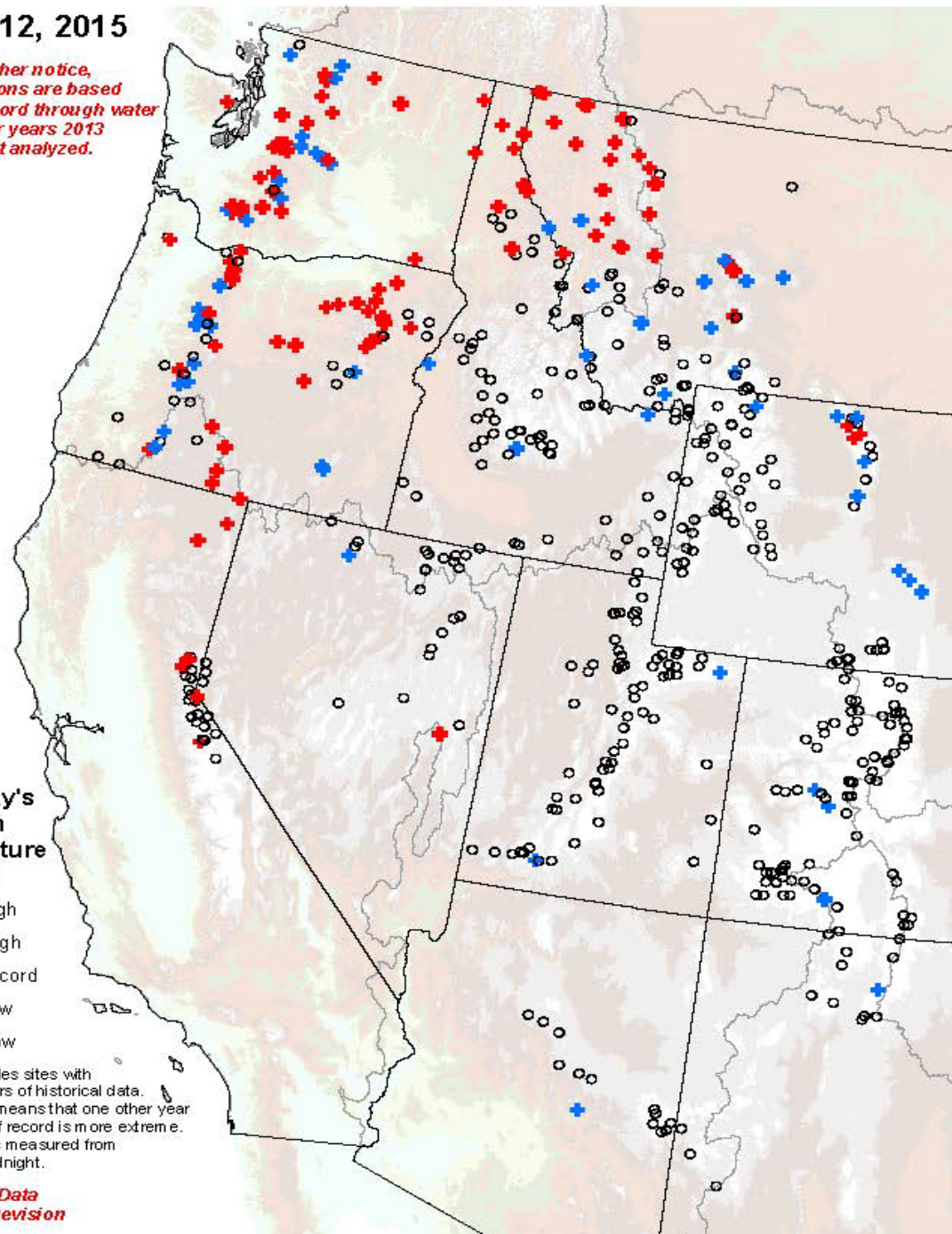
NOTE: Until further notice, record calculations are based on period of record through water year 2012; water years 2013 and 2014 are not analyzed.

Yesterday's Minimum Temperature Records

- + New High
- + Near High
- o Non Record
- New Low
- Near Low

Analysis includes sites with at least 15 years of historical data. "Near" record means that one other year of the period of record is more extreme. Temperature is measured from midnight to midnight.

*Provisional Data
Subject to Revision*



SNOTEL Yesterday's Maximum Temperature Records

Feb 12, 2015

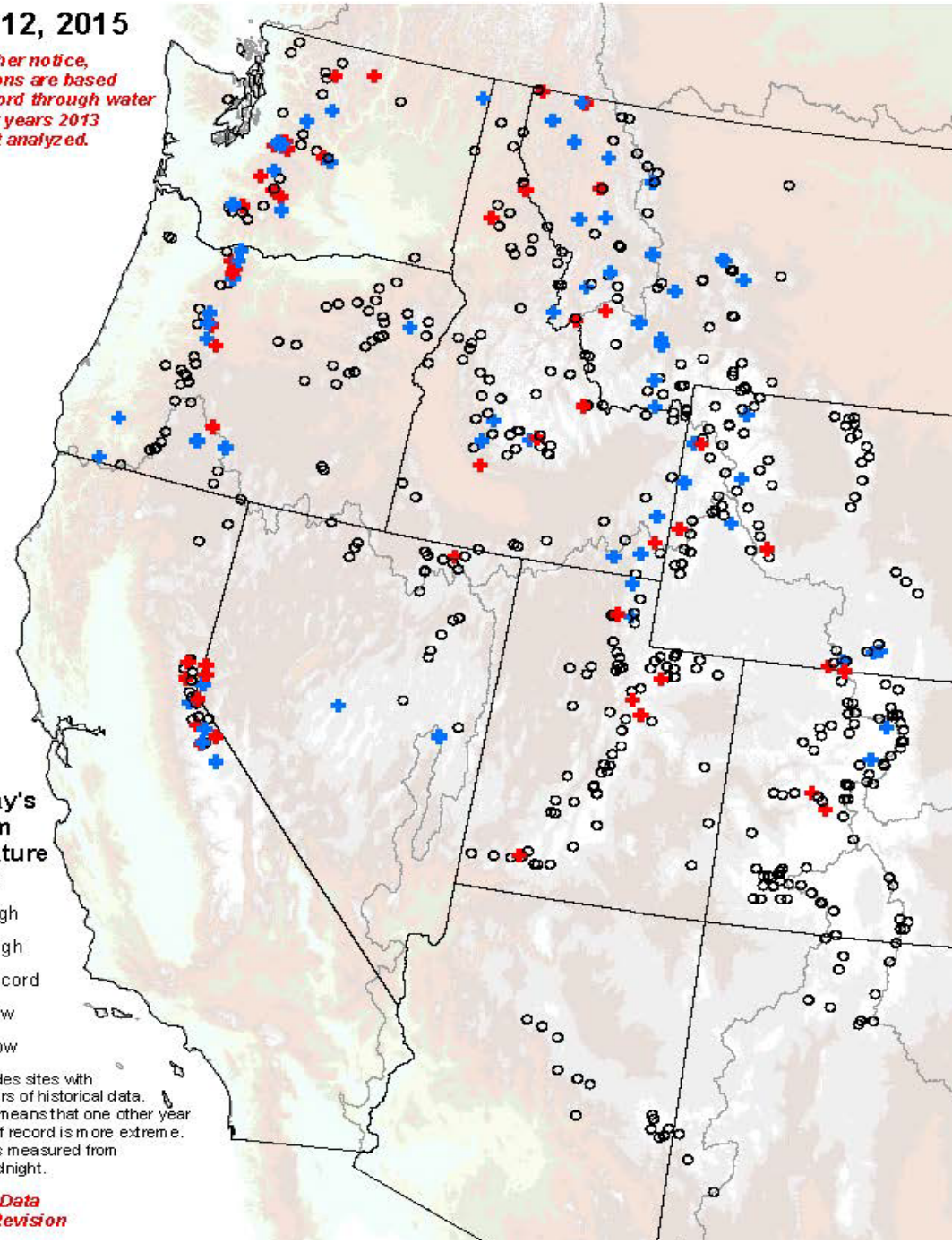
NOTE: Until further notice, record calculations are based on period of record through water year 2012; water years 2013 and 2014 are not analyzed.

Yesterday's Maximum Temperature Records

- + New High
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- o Non Record
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Analysis includes sites with at least 15 years of historical data. "Near" record means that one other year of the period of record is more extreme. Temperature is measured from midnight to midnight.

*Provisional Data
Subject to Revision*



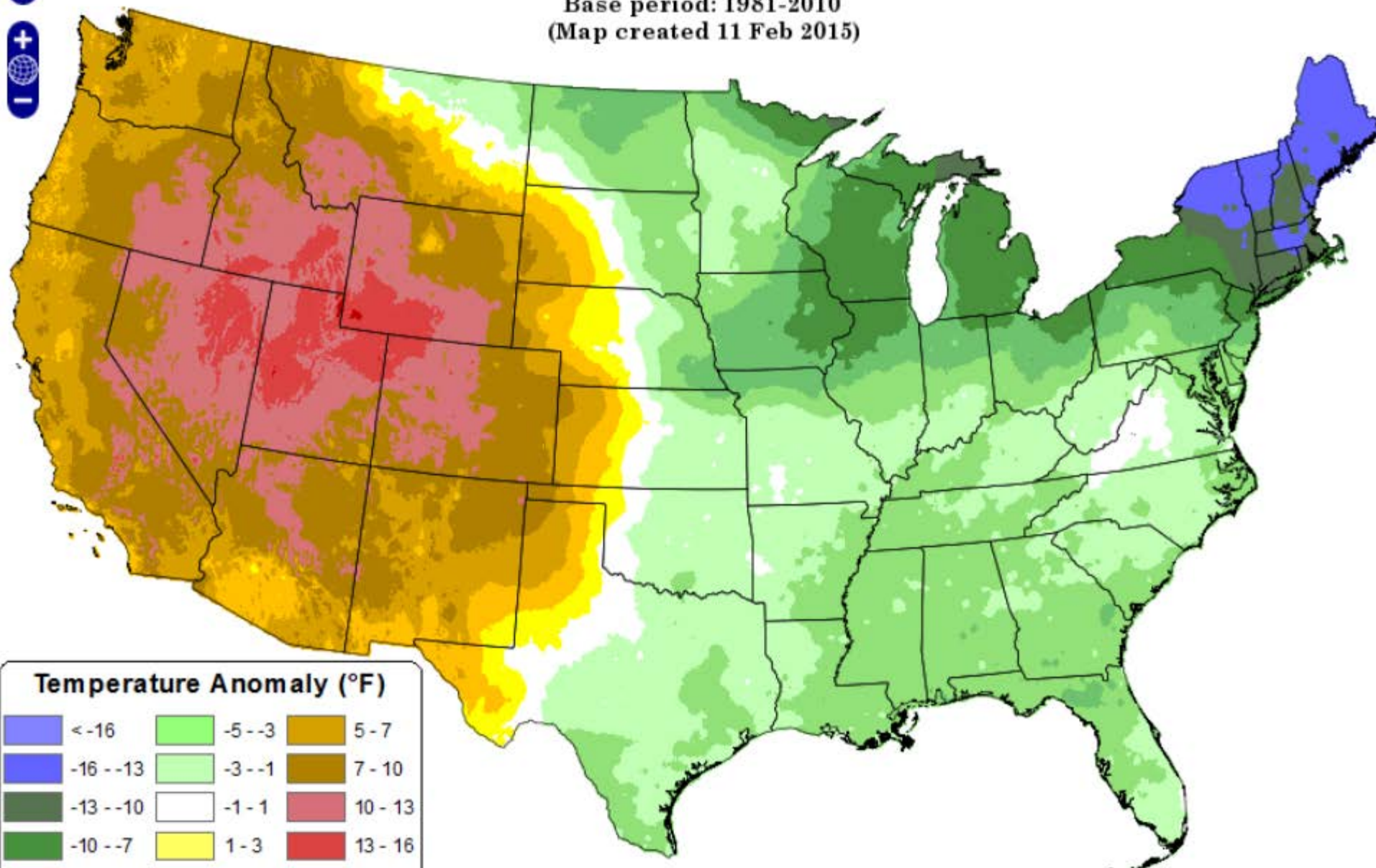


Daily Mean Temperature Anomaly: 01 February 2015 - 10 February 2015

Period ending 7 AM EST 10 Feb 2015

Base period: 1981-2010

(Map created 11 Feb 2015)



Temperature Anomaly (°F)

< -16	-5 -- -3	5 - 7
-16 -- -13	-3 -- -1	7 - 10
-13 -- -10	-1 - 1	10 - 13
-10 -- -7	1 - 3	13 - 16
-7 -- -5	3 - 5	> 16

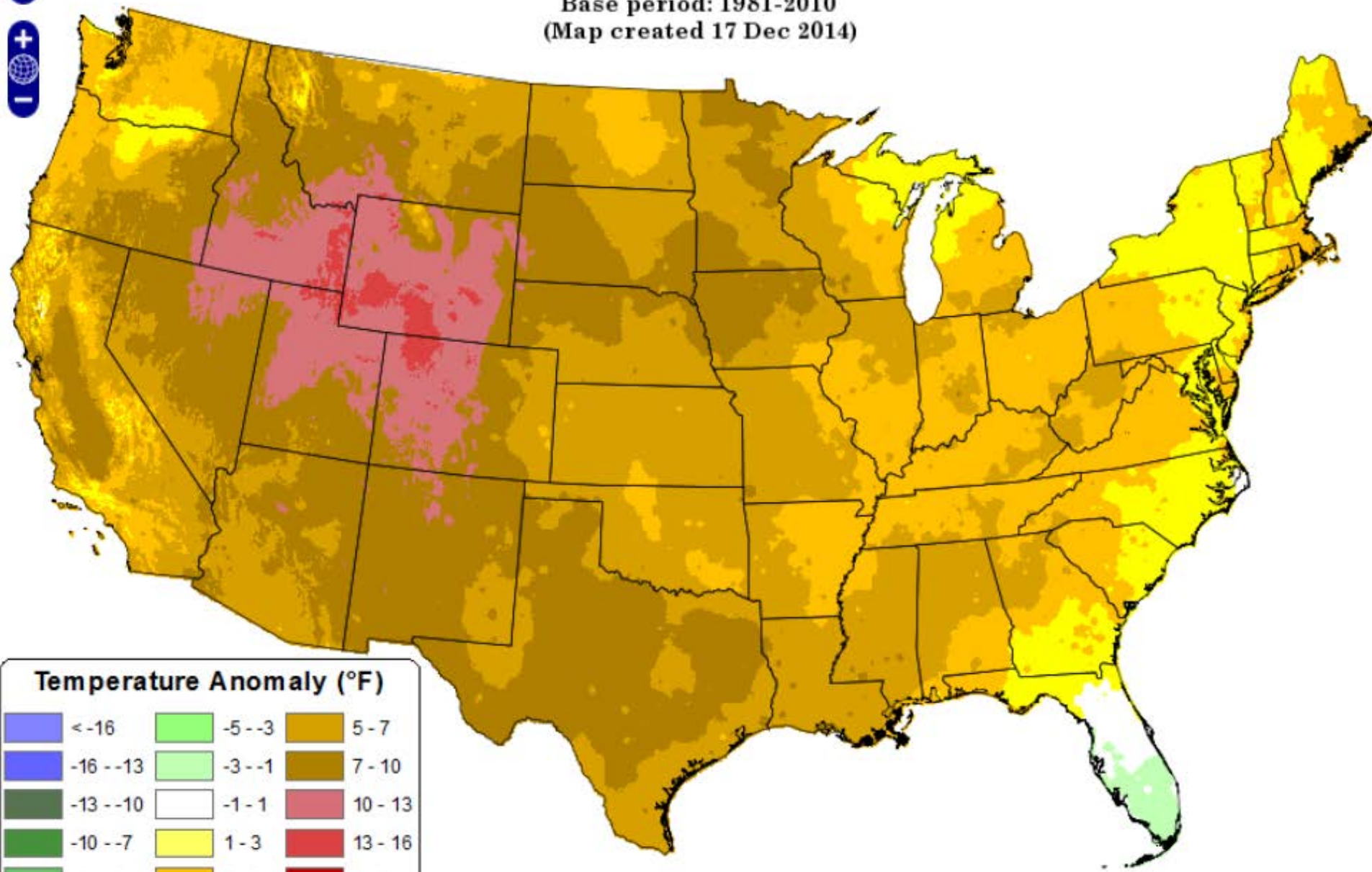


Daily Mean Temperature Anomaly: 01 December 2014 - 16 December 2014

Period ending 7 AM EST 16 Dec 2014

Base period: 1981-2010

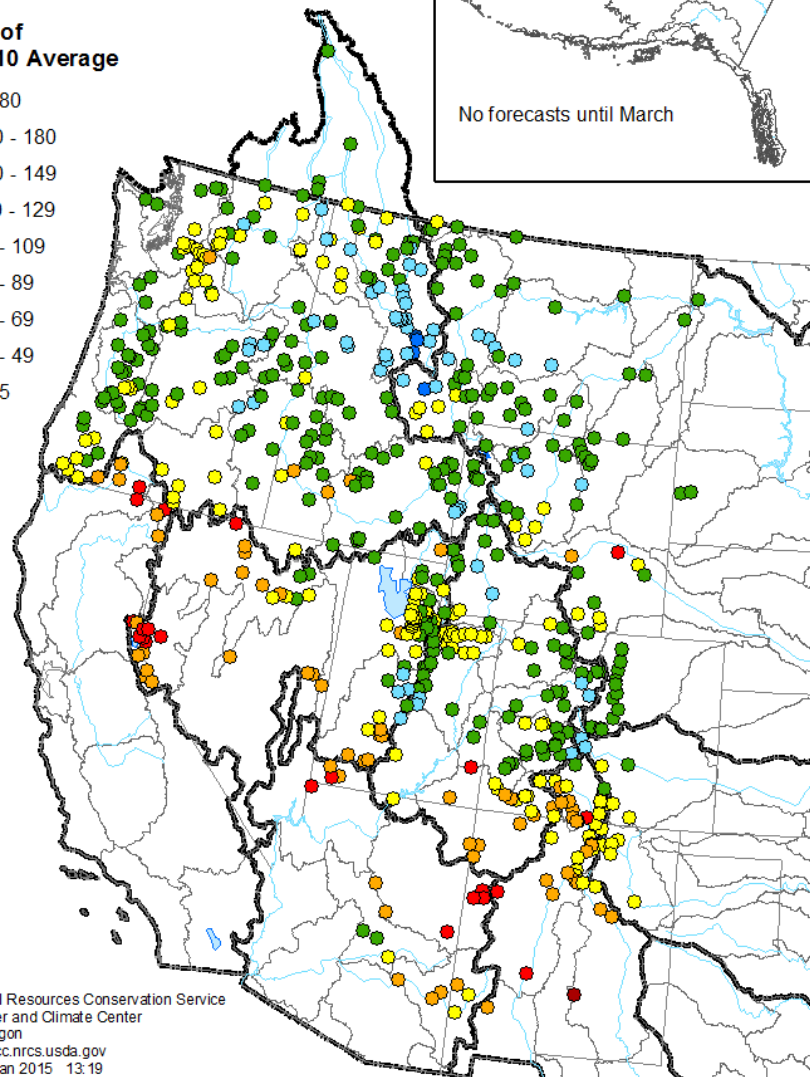
(Map created 17 Dec 2014)



Spring and Summer Streamflow Forecasts as of January 1, 2015

Percent of
1981-2010 Average

- > 180
- 150 - 180
- 130 - 149
- 110 - 129
- 90 - 109
- 70 - 89
- 50 - 69
- 25 - 49
- < 25

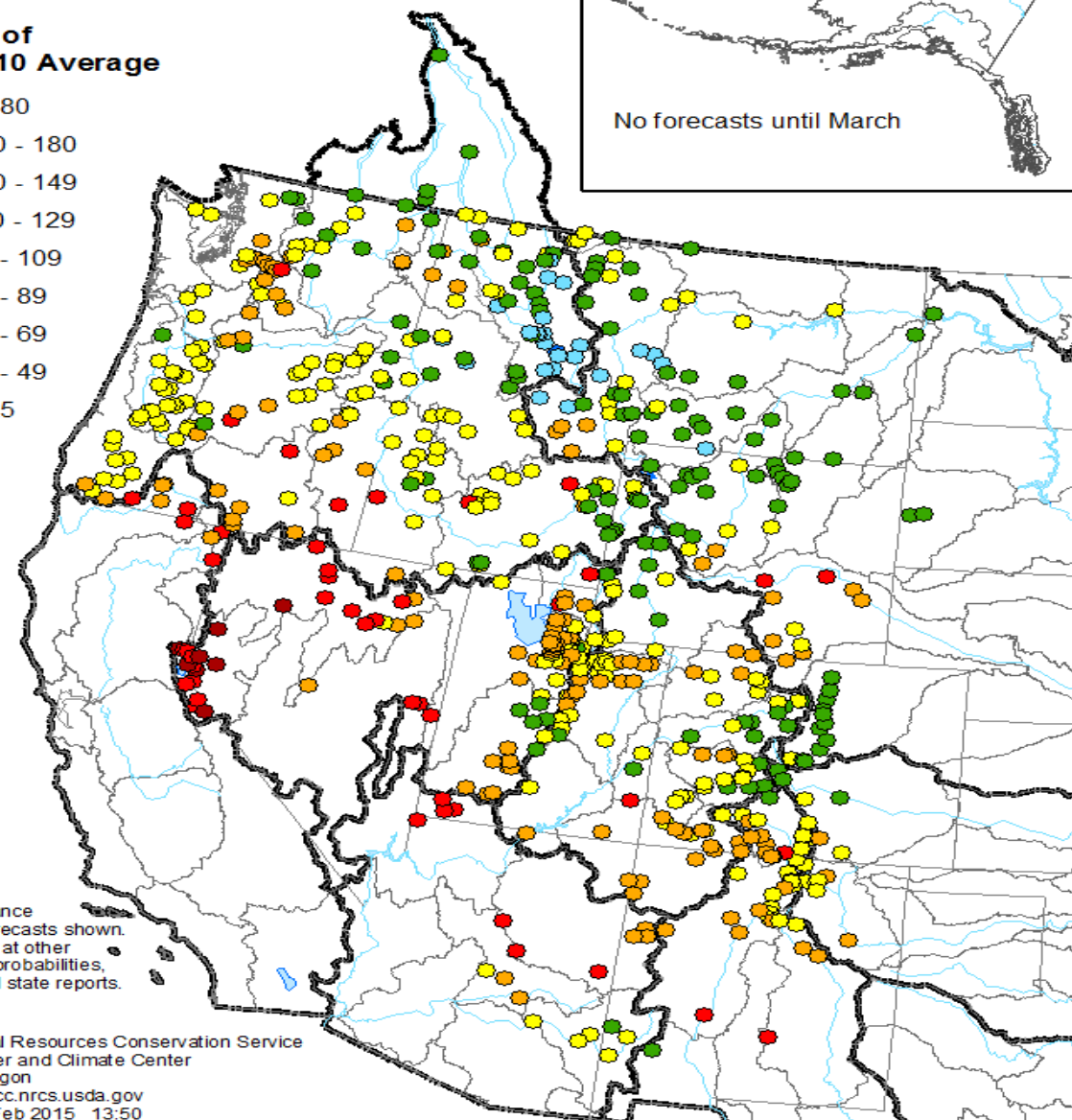


Prepared by:
USDA Natural Resources Conservation Service
National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>
Created: 7 Jan 2015 13:19

Spring and Summer Streamflow Forecasts as of February 1, 2015

Percent of
1981-2010 Average

- > 180
- 150 - 180
- 130 - 149
- 110 - 129
- 90 - 109
- 70 - 89
- 50 - 69
- 25 - 49
- < 25



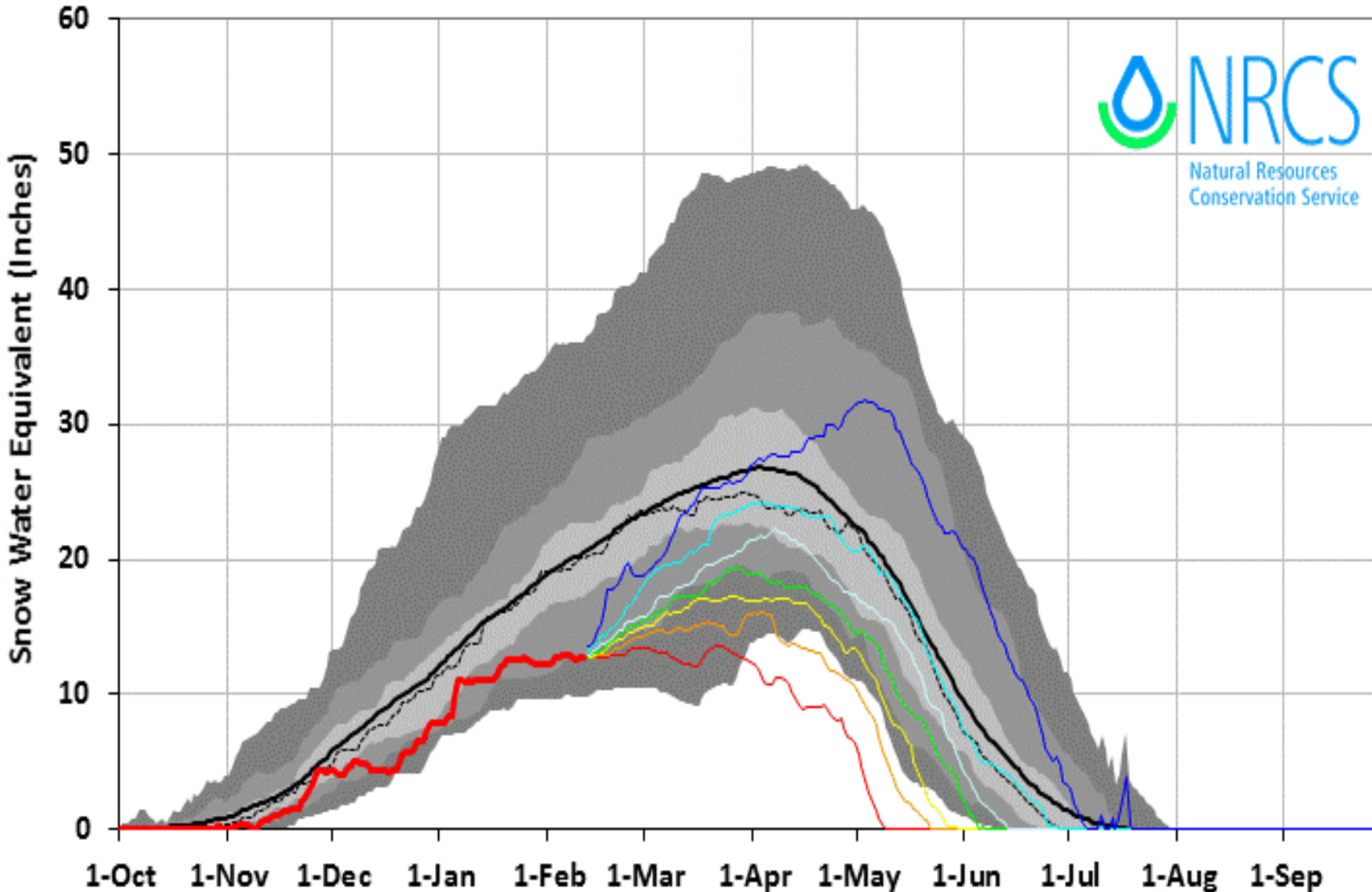
50% exceedance
probability forecasts shown.
For forecasts at other
exceedance probabilities,
see individual state reports.

Prepared by:
USDA Natural Resources Conservation Service
National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>
Created: 6 Feb 2015 13:50

Spokane Basin 2015 Snow Water with Non-Exceedence Projections (9 sites)

Based on Provisional SNOTEL data as of Feb 11, 2015

— Normal — WY2015 — Minimum — 10% — 30% — 50% — 70% — 90% — Maximum



Feb 1 Panhandle Snowpack varies with elevation, many snow courses in the lower 10%ile

Feb 1 CDA Snow Index (Lookout & Mosquito Ridge) shows the 26.1" which is lowest since 2005 & 5th lowest since record starts in 1961.

6.6 " of SWE at Benton Springs Snow Course, 4,920 feet, in Priest River is 5th lowest since record starts in 1937

Lowest years:

1977

2005

1942

1981

1979

1976 and 2015

SWE as of Feb 13

Clearwater Basin

Selway 115%

Locsha 96%

NF Clearwater 81%

Clearwater Basin 85%

Salmon abv Salmon 115%

Lemhi 115%

MF Salmon 101%

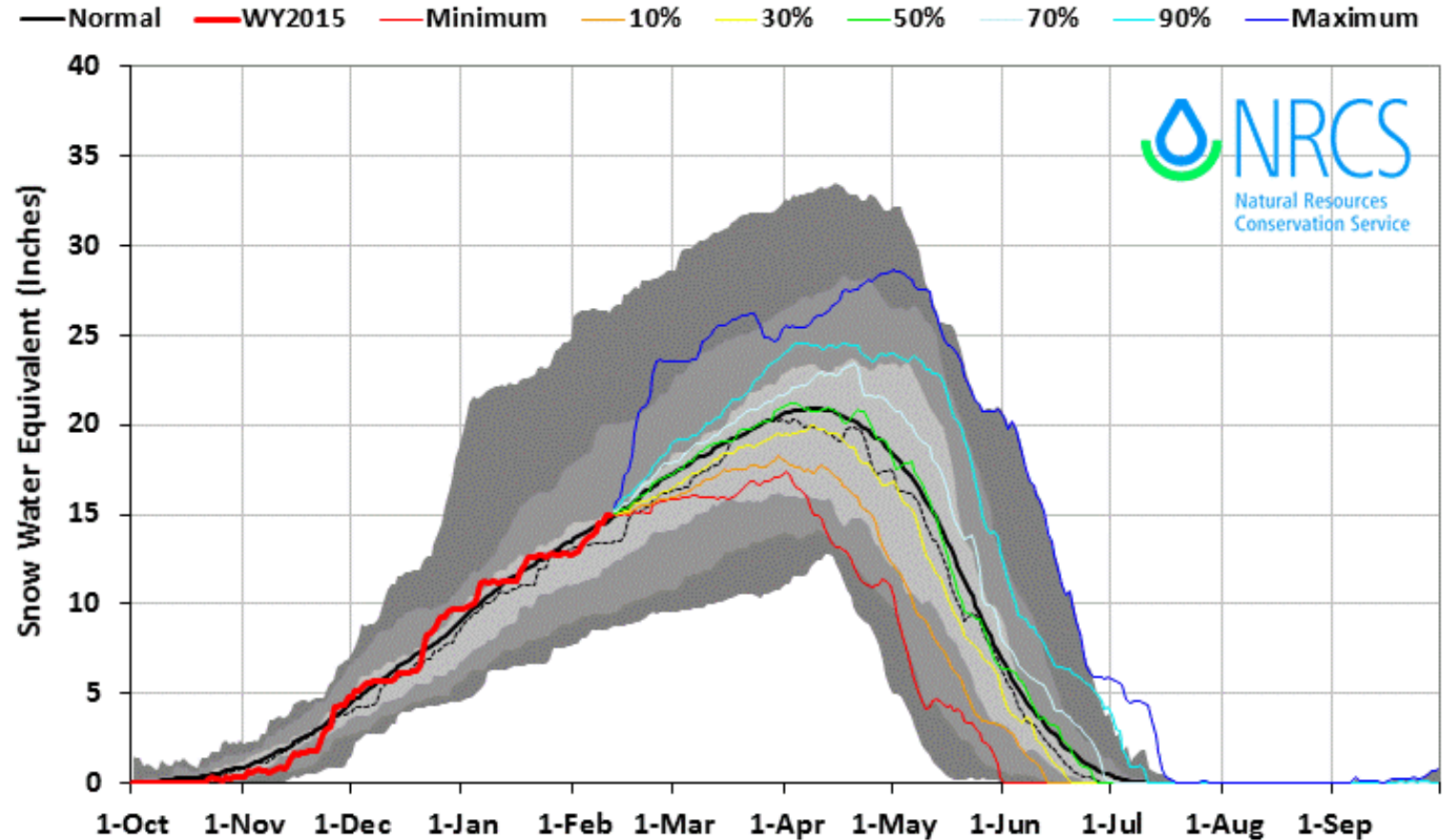
SF Salmon 94%

Little Salmon 81%

Salmon Basin 106%

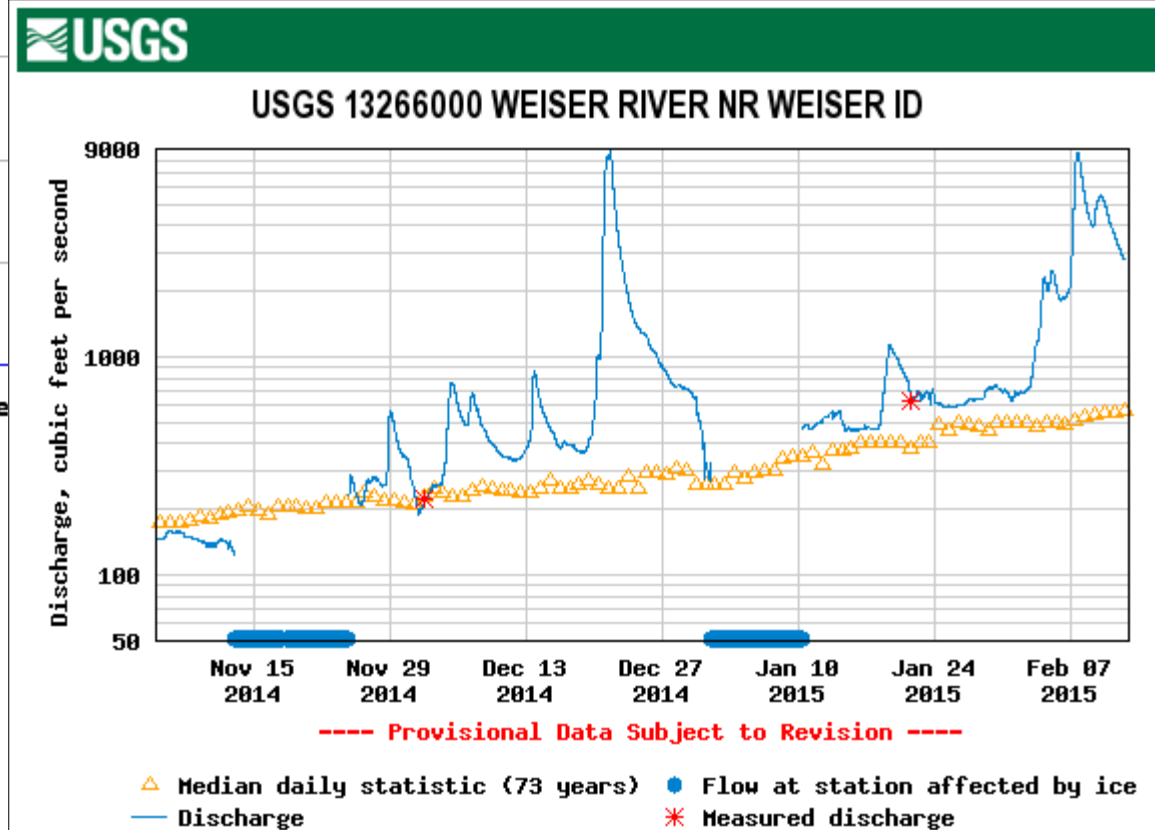
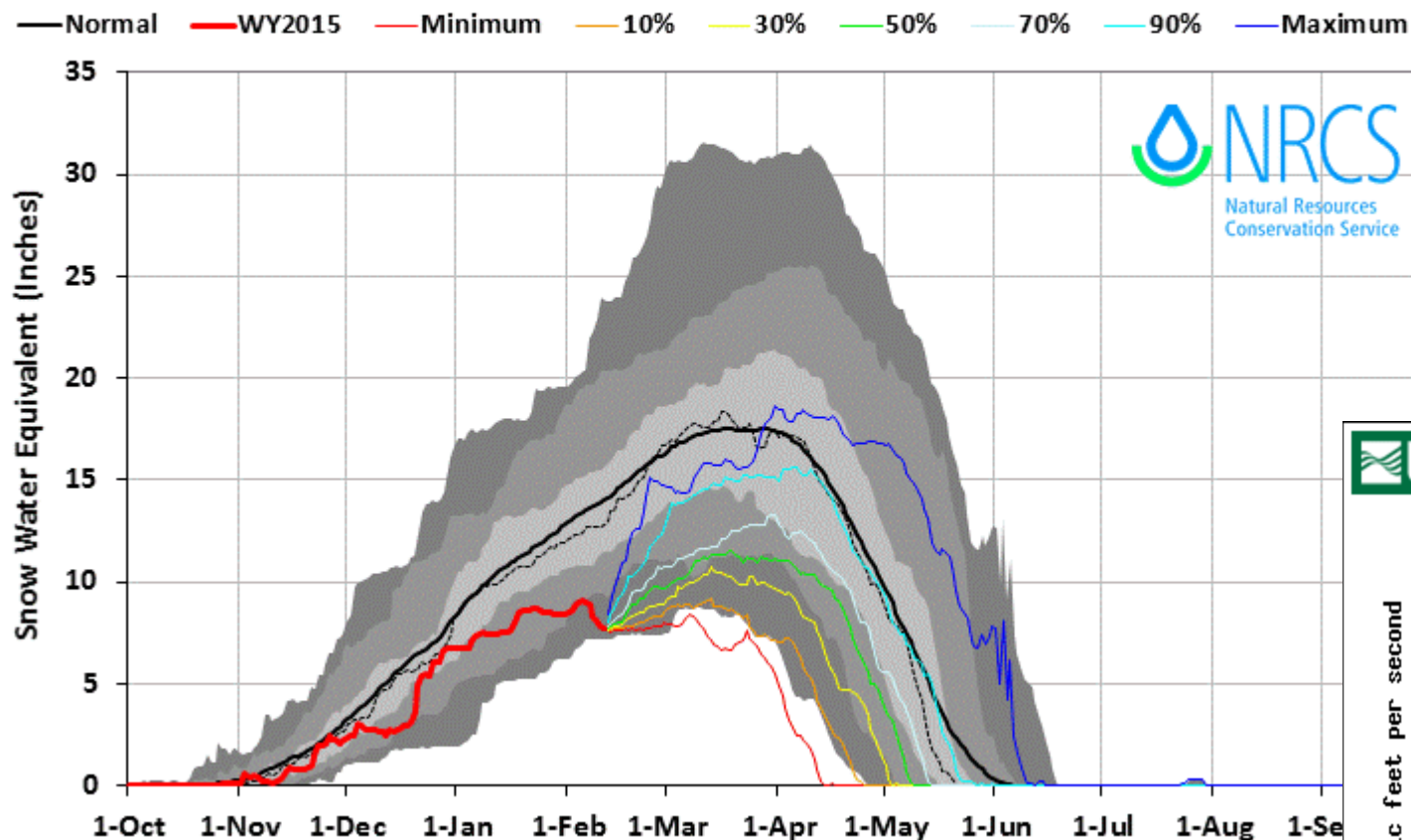
Salmon Basin 2015 Snow Water with Non-Exceedence Projections (22 sites)

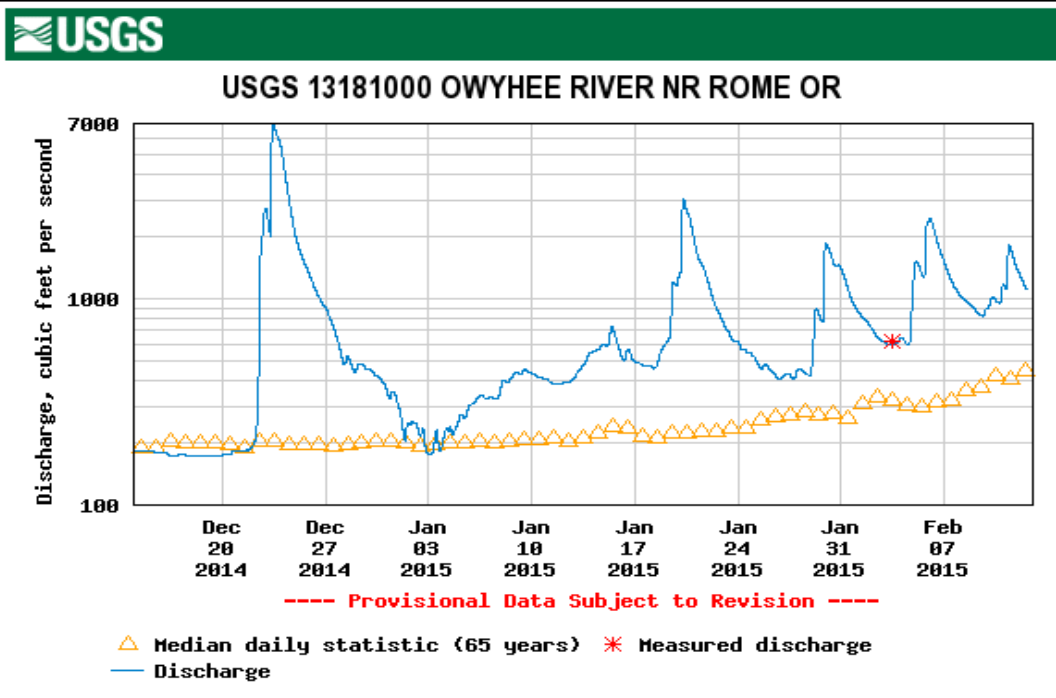
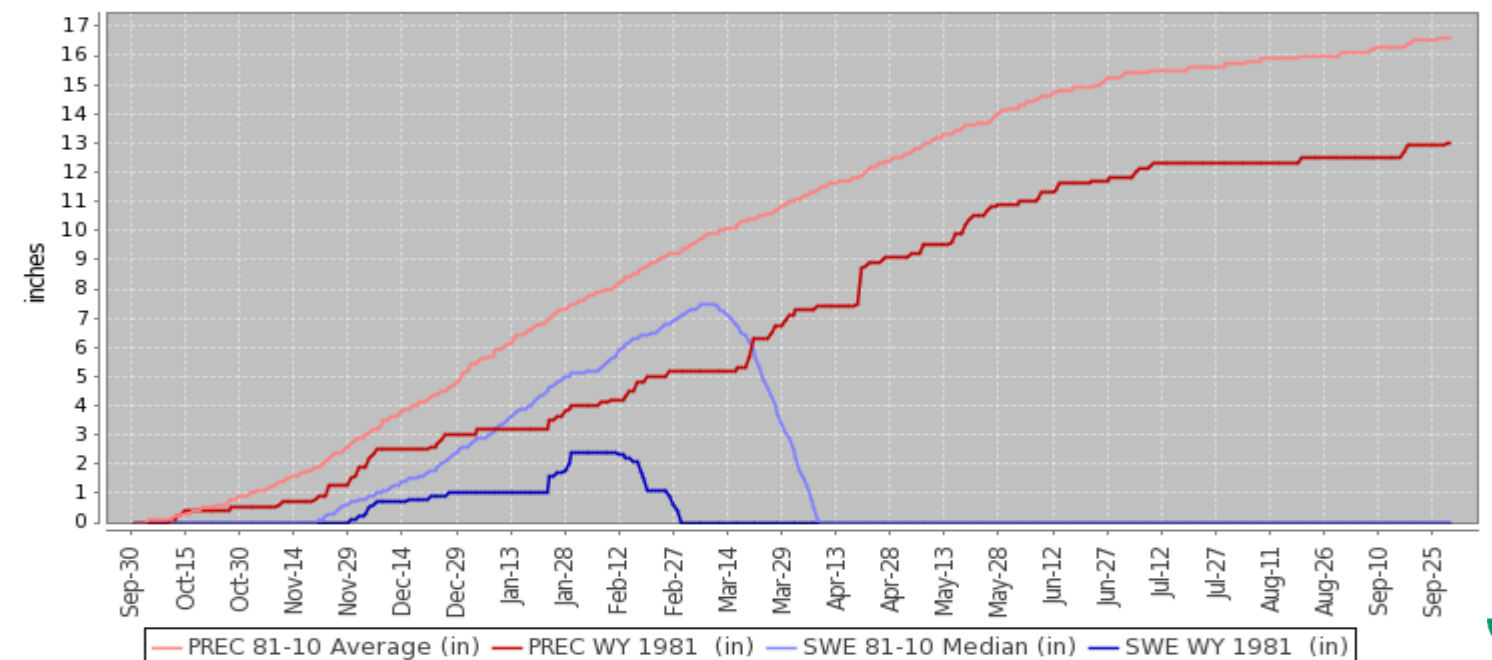
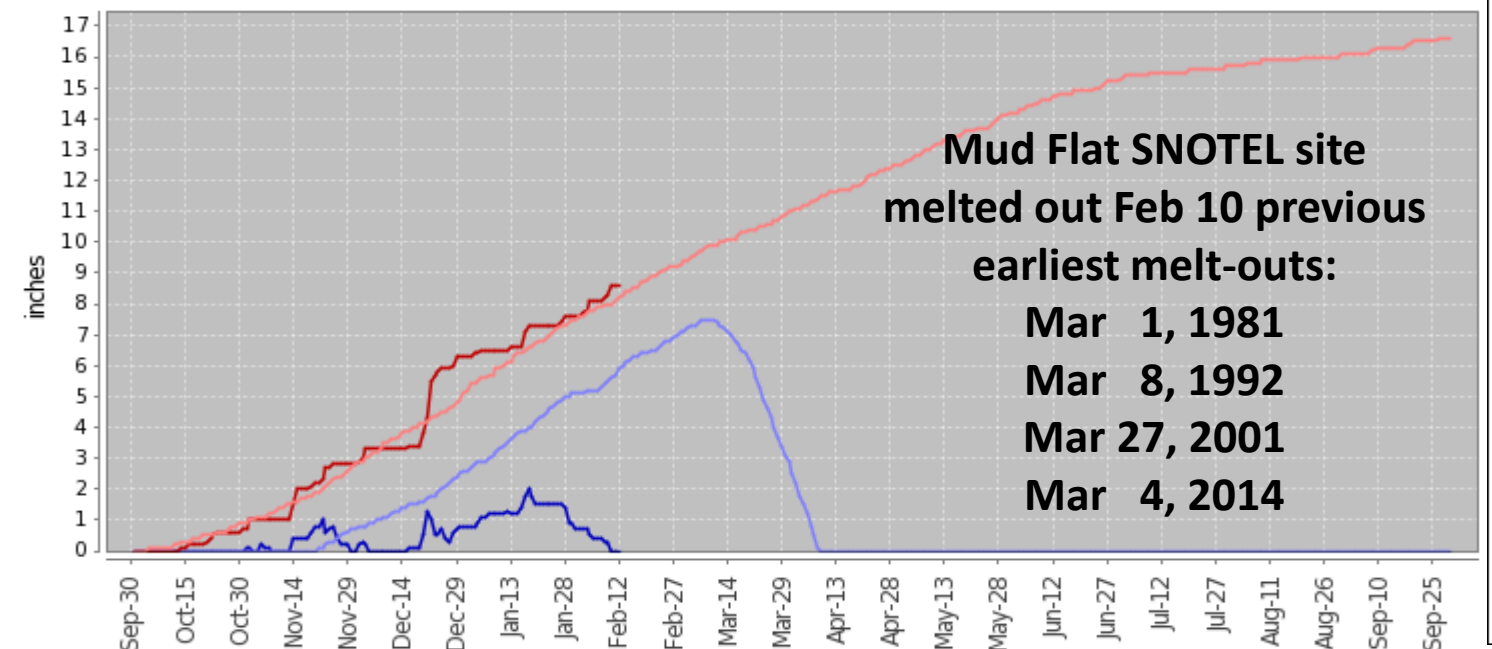
Based on Provisional SNOTEL data as of Feb 11, 2015



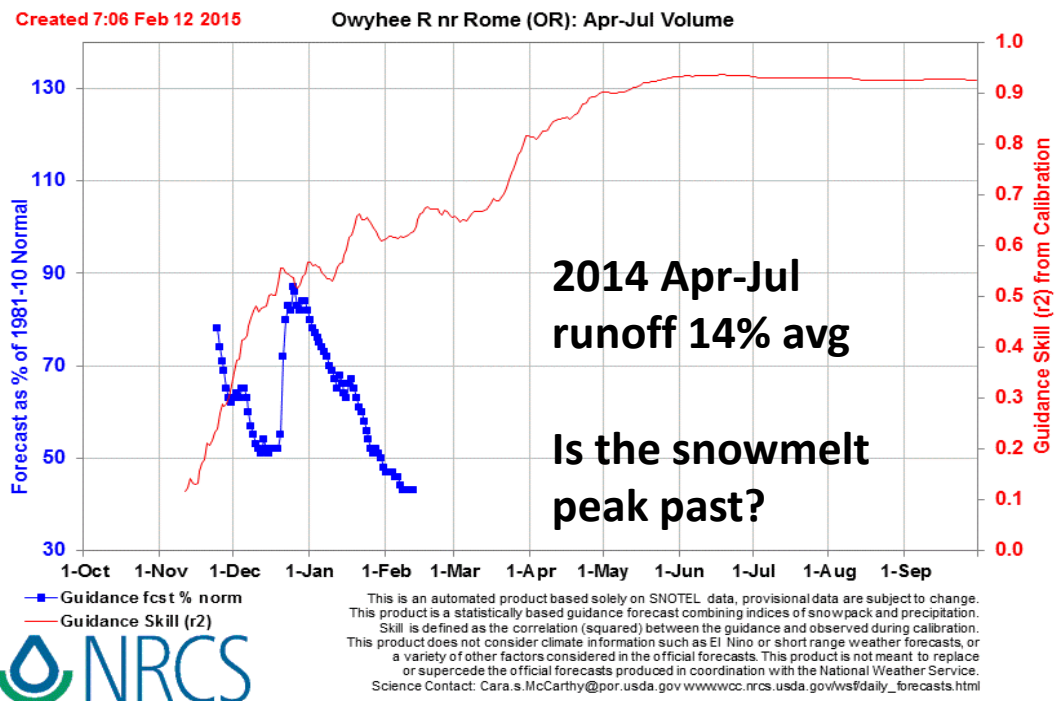
Weiser Basin 2015 Snow Water with Non-Exceedence Projections (4 sites)

Based on Provisional SNOTEL data as of Feb 11, 2015





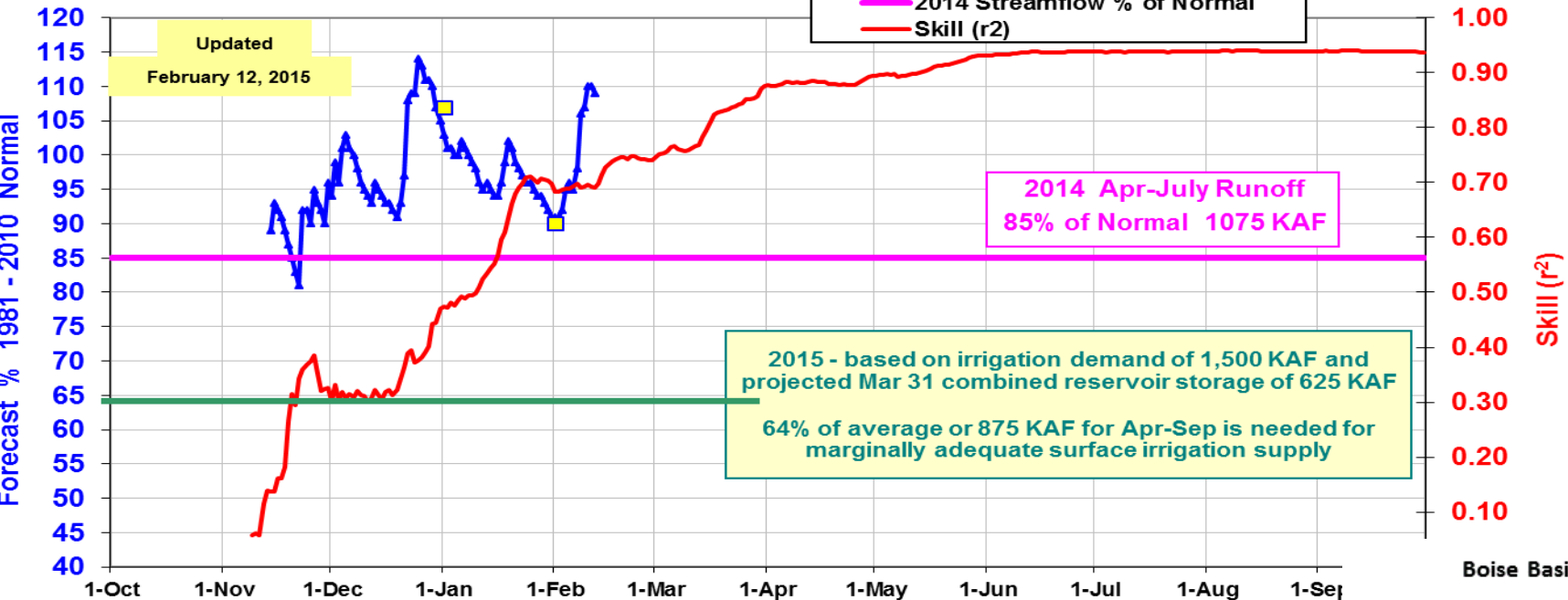
Created 7:06 Feb 12 2015



2015 Boise River near Boise: Apr - Jul Volume NRCS Monthly / mid-Monthly Forecasts are Squares



- Daily Guidance Forecast
- Monthly Forecasts
- 2014 Streamflow % of Normal
- Skill (r²)

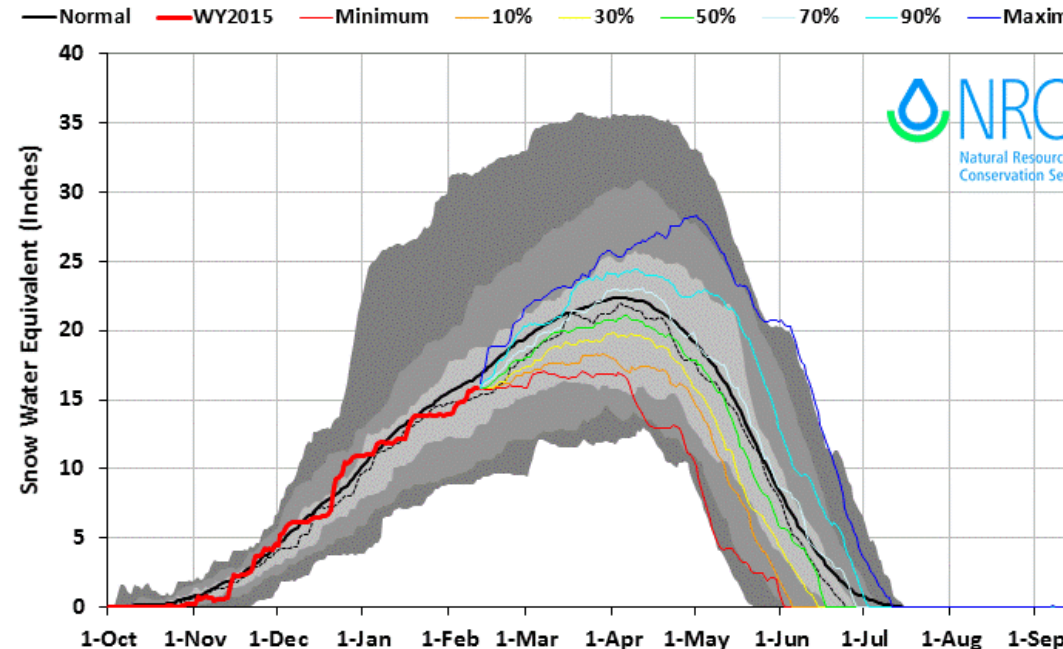


Jan 31 combined storage is 602 AKF

SNOTEL Sites used: Atlanta Summit, Trinity Mountain, Dollarhide Summit, Vienna Mine, Galena and Galena Summi

Boise Basin 2015 Snow Water with Non-Exceedence Projections (10 sites)

Based on Provisional SNOTEL data as of Feb 11, 2015

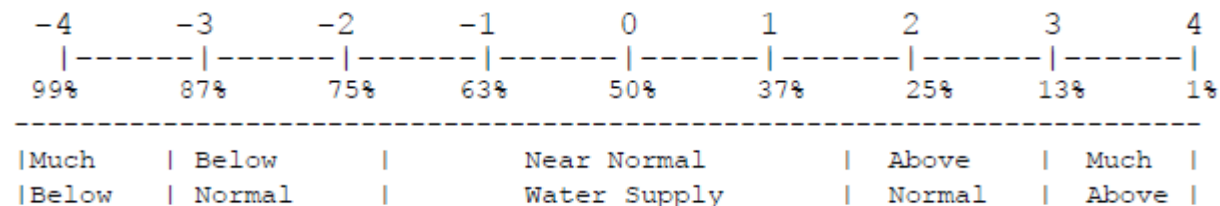


Idaho Surface Water Supply Index February 1, 2015

Based on
2014 SWSI
tables

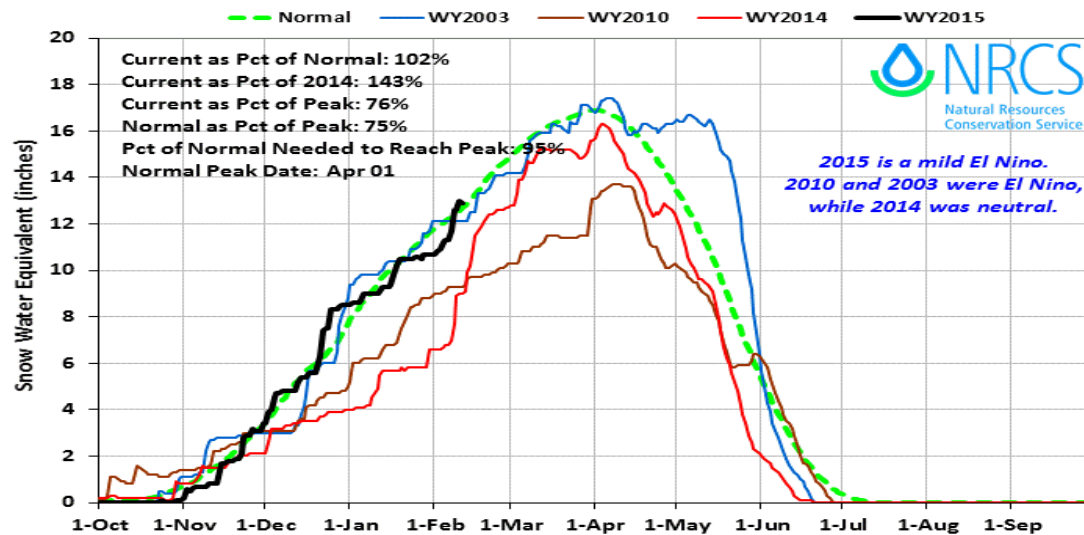
<i>BASIN or REGION</i>	<i>SWSI Value</i>	<i>Most Recent Year With Similar SWSI Value</i>	<i>Agricultural Water Supply Shortage May Occur When SWSI is Less Than</i>
Northern Panhandle	Not Available	---	---
Spokane	-1.8	1995	NA
Clearwater	1.3	2006	NA
Salmon	2.3	2009	NA
Weiser	-1.6	2004	NA
Payette	-0.9	2000	NA
Boise	0.7	2008	-1.5
Big Wood	-0.2	2010	0.6
Little Wood	-0.2	2010	-1.3
Big Lost	-0.2	2008	0.6
Little Lost	-0.5	2008	1.3
Teton	0.2	2010	-3.9
Henrys Fork	-0.8	2010	-3.2
Snow (Heise)	1.6	2006	-1.5
Oakley	-0.2	2000	0.4
Salmon Falls	-1.0	2008	-0.8
Bruneau	0.0	2008	NA
Owyhee	-3.3	2013	-3.2
Bear River	-0.5	2014	-3.7

SWSI SCALE, PERCENT CHANCE OF EXCEEDANCE, AND INTERPRETATION

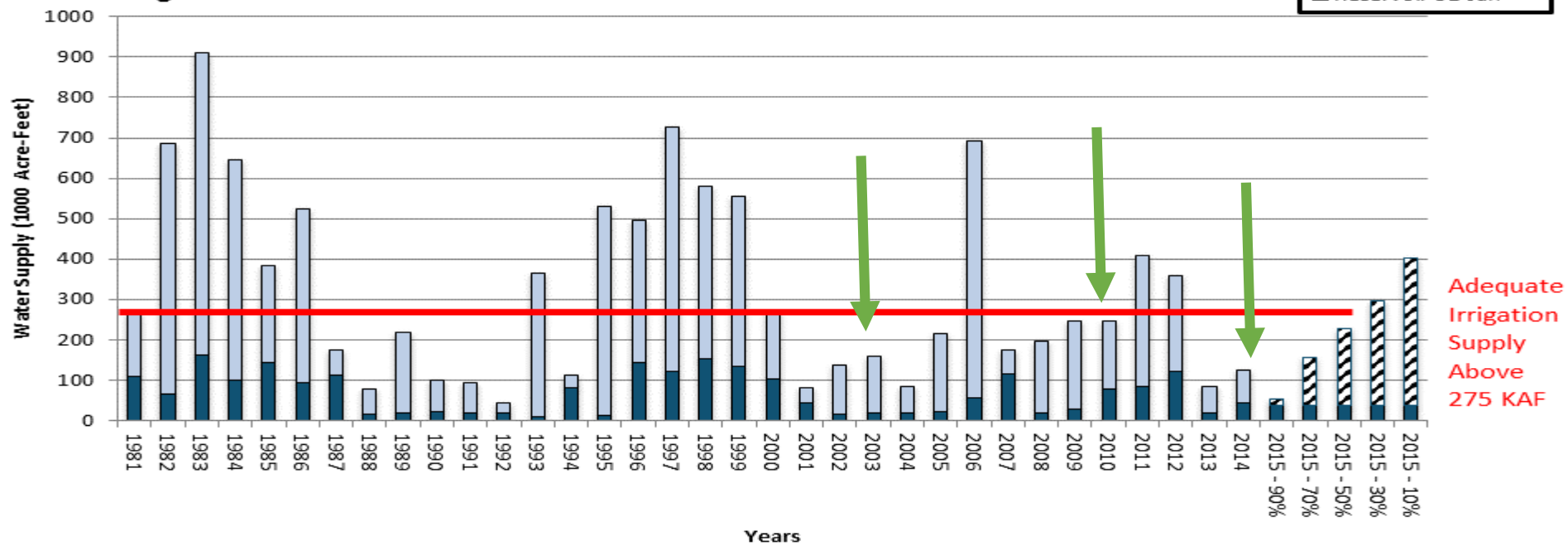


Big Wood Basin 2015 Snowpack Comparison Graph (9 sites)

Based on Provisional SNOTEL data as of Feb 11, 2015

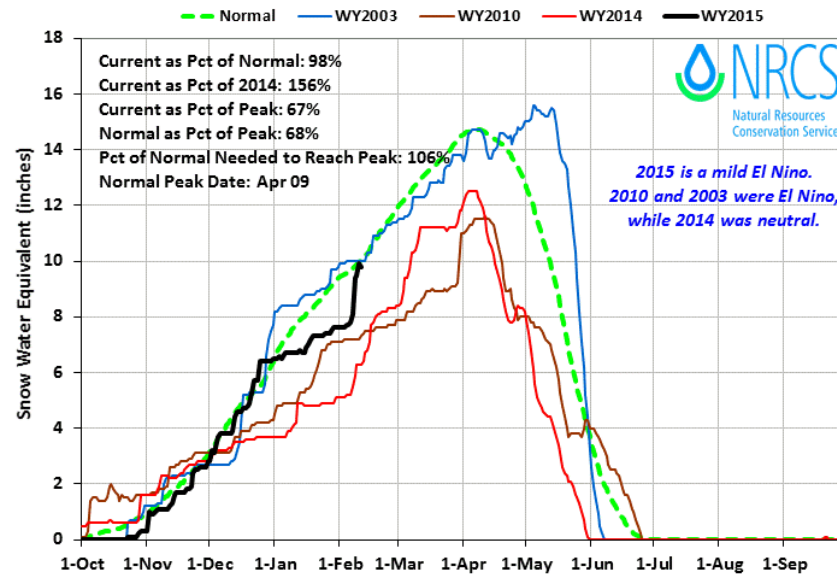


Feb 1 Historic and Forecasted Surface Water Supply Big Wood River Basin

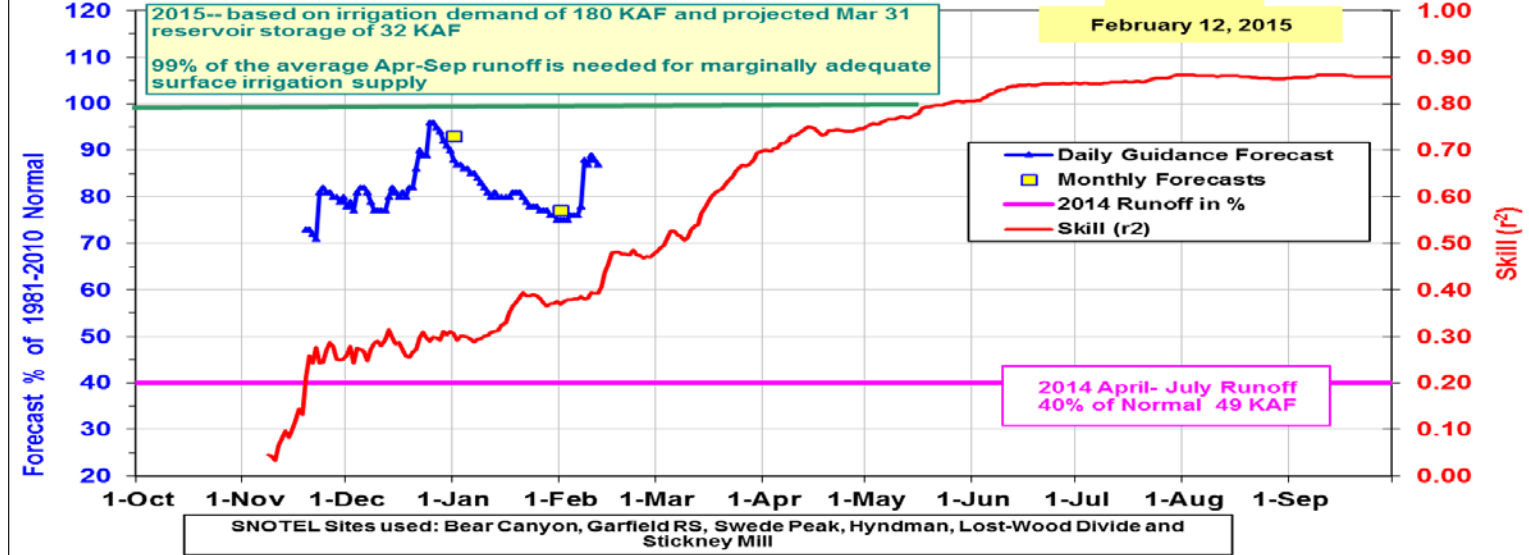


Big Lost Basin 2015 Snowpack Comparison Graph (5 sites)

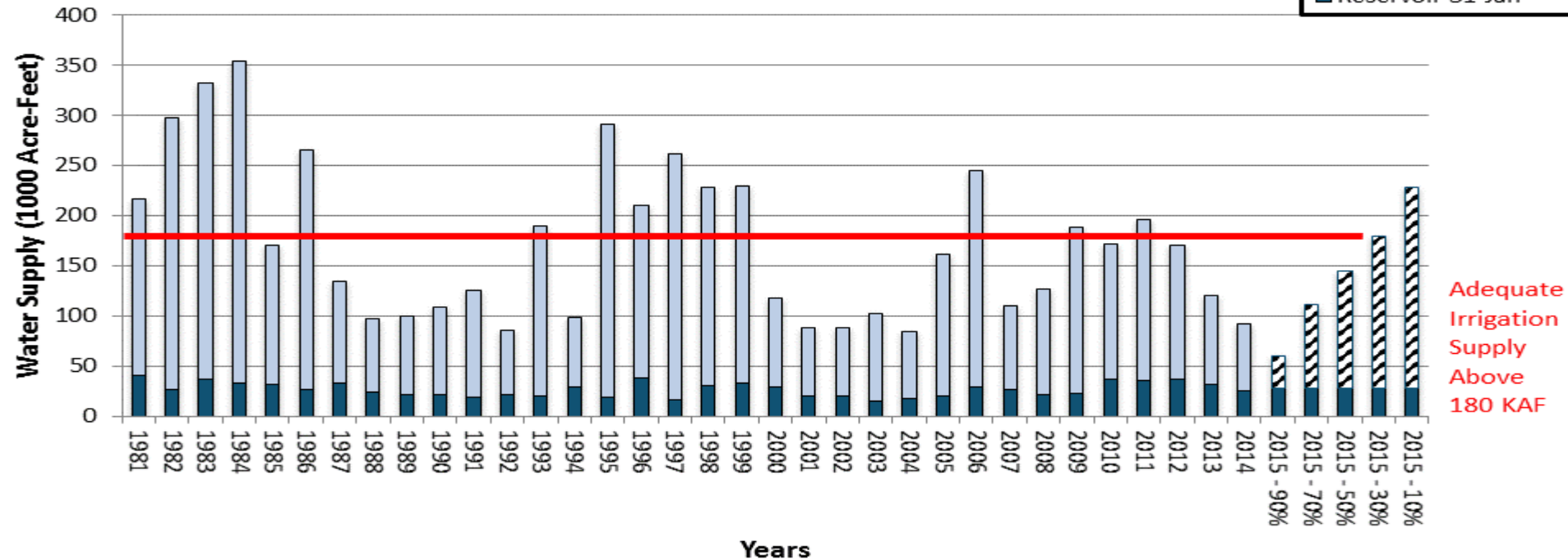
Based on Provisional SNOTEL data as of Feb 11, 2015



2015 Big Lost River below Mackay Resv: Apr-Jul Percent of Normal
 NRCS Monthly Forecasts are Squares

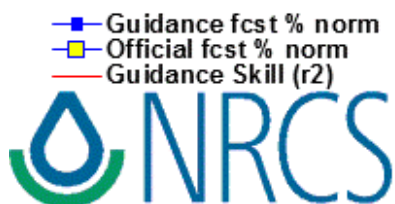
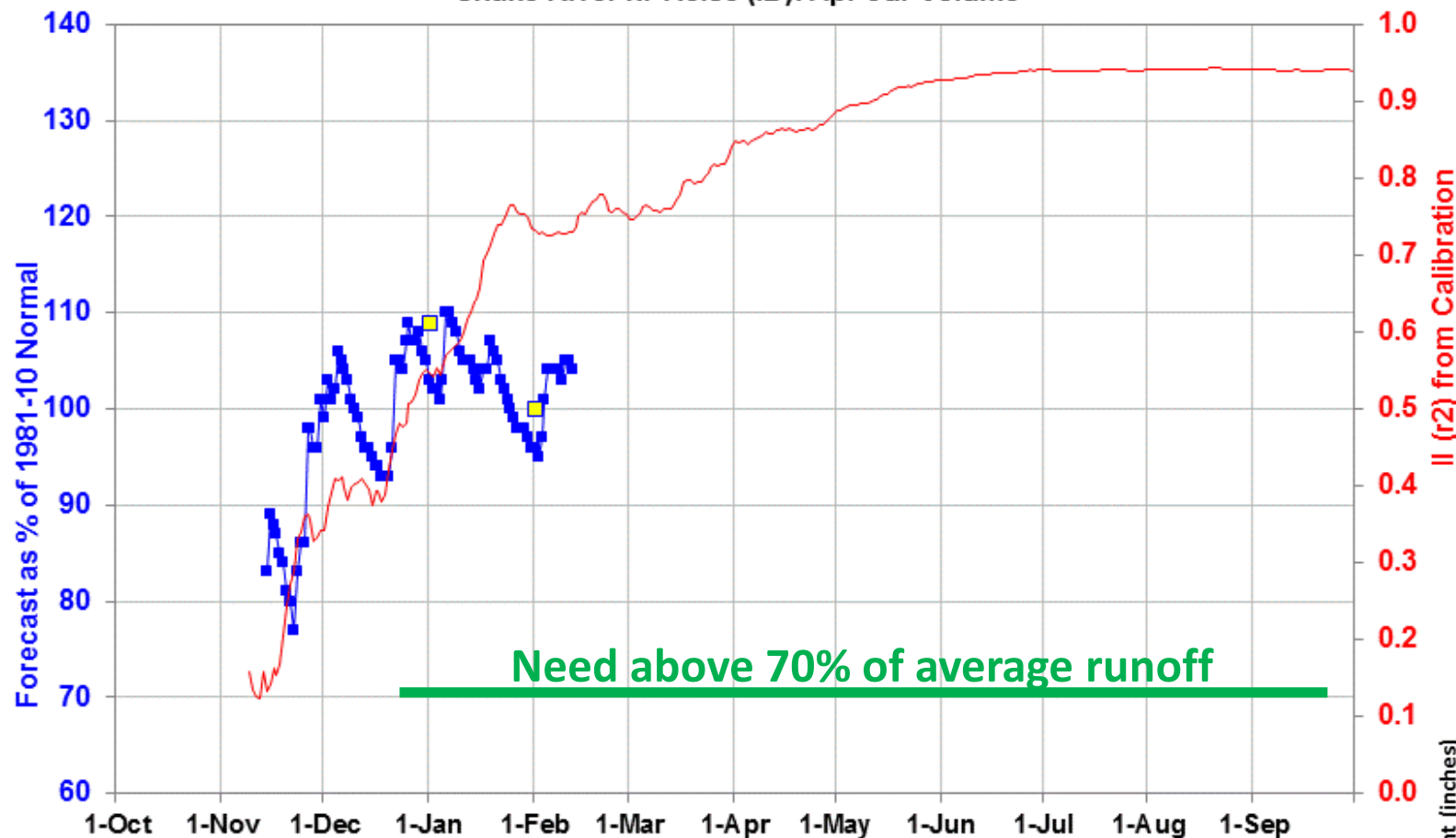


Big Lost River Basin



Created 7:05 Feb 12 2015

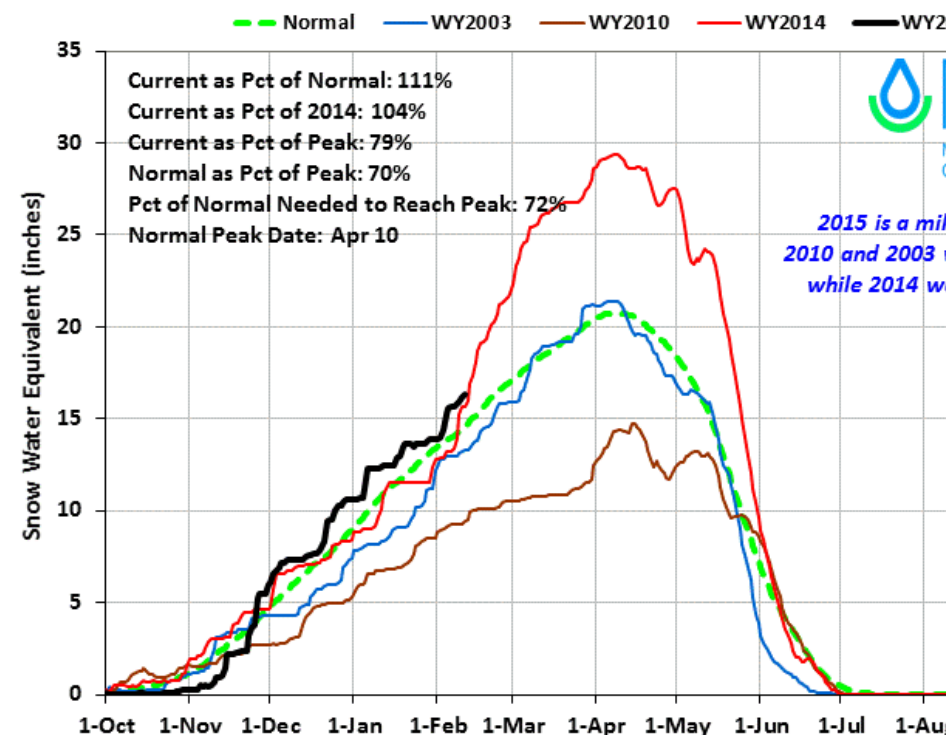
Snake River nr Heise (ID): Apr-Jul Volume



This is an automated product based solely on SNOTEL data, provisional data are subject to change. This product is a statistically based guidance forecast combining indices of snowpack and precipitation. Skill is defined as the correlation (squared) between the guidance and observed during calibration. This product does not consider climate information such as El Nino or short range weather forecasts, or a variety of other factors considered in the official forecasts. This product is not meant to replace or supercede the official forecasts produced in coordination with the National Weather Service. Science Contact: Cara.s.McCarthy@por.usda.gov www.wcc.nrcs.usda.gov/vsf/daily_forecasts.html

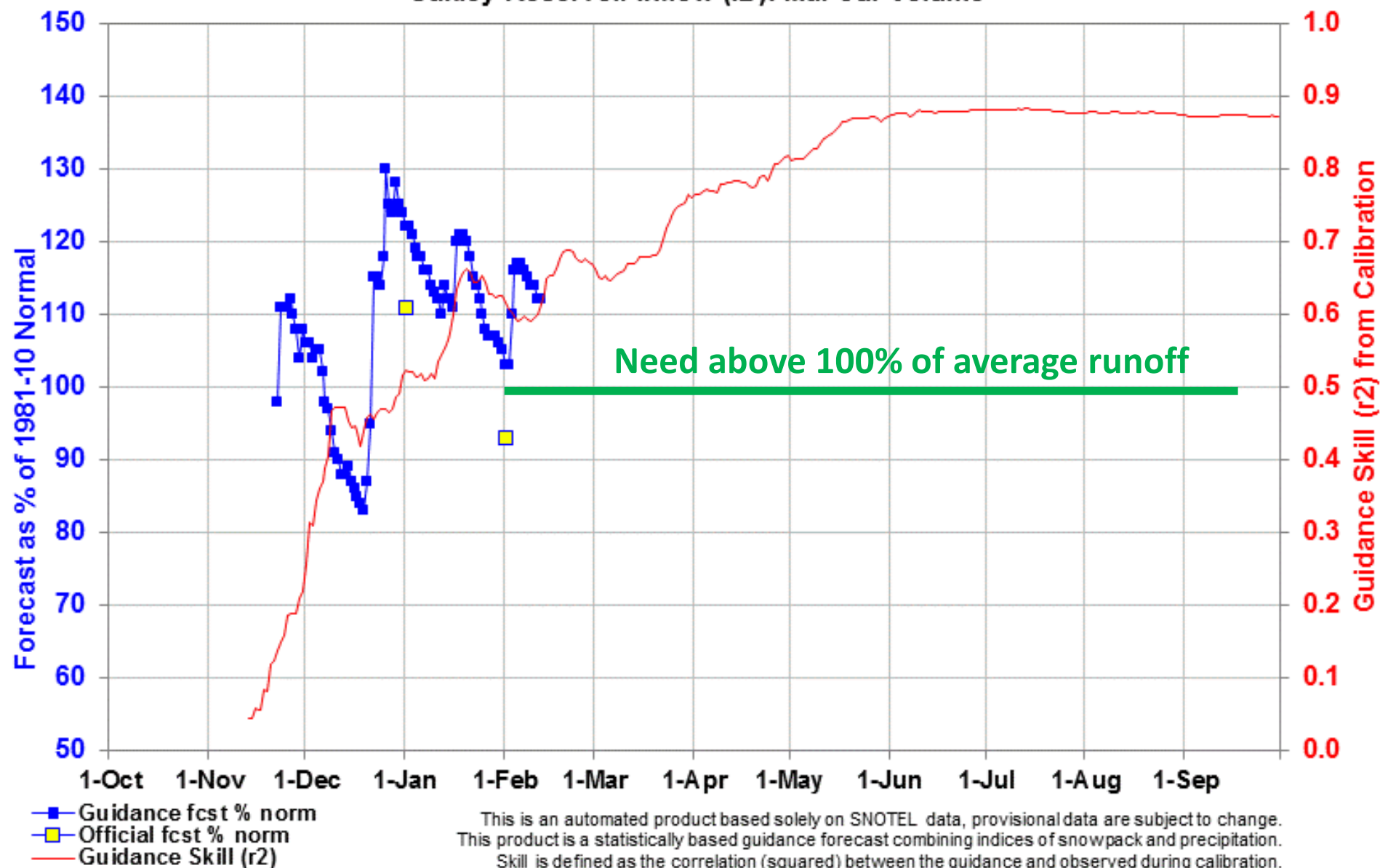
Snake Basin above Palisades 2015 Snowpack Comparison Graph (18 s

Based on Provisional SNOTEL data as of Feb 11, 2015



Created 7:05 Feb 12 2015

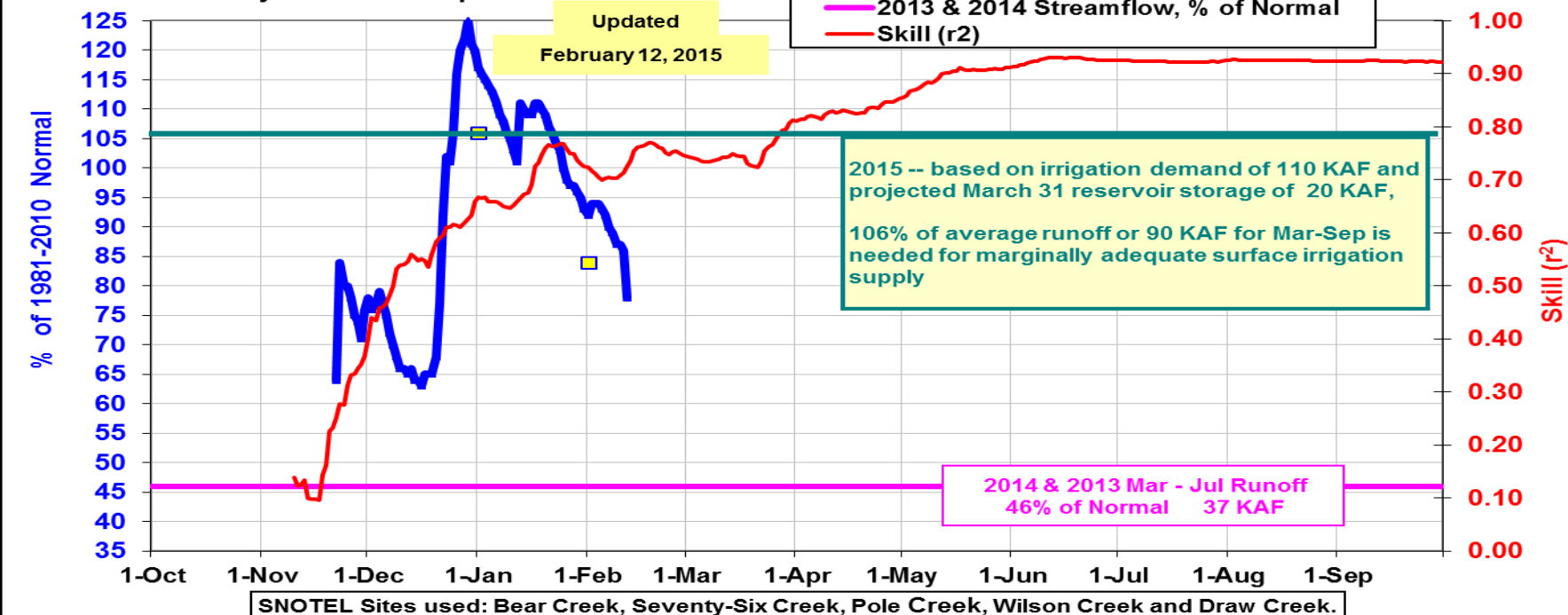
Oakley Reservoir Inflow (ID): Mar-Jul Volume



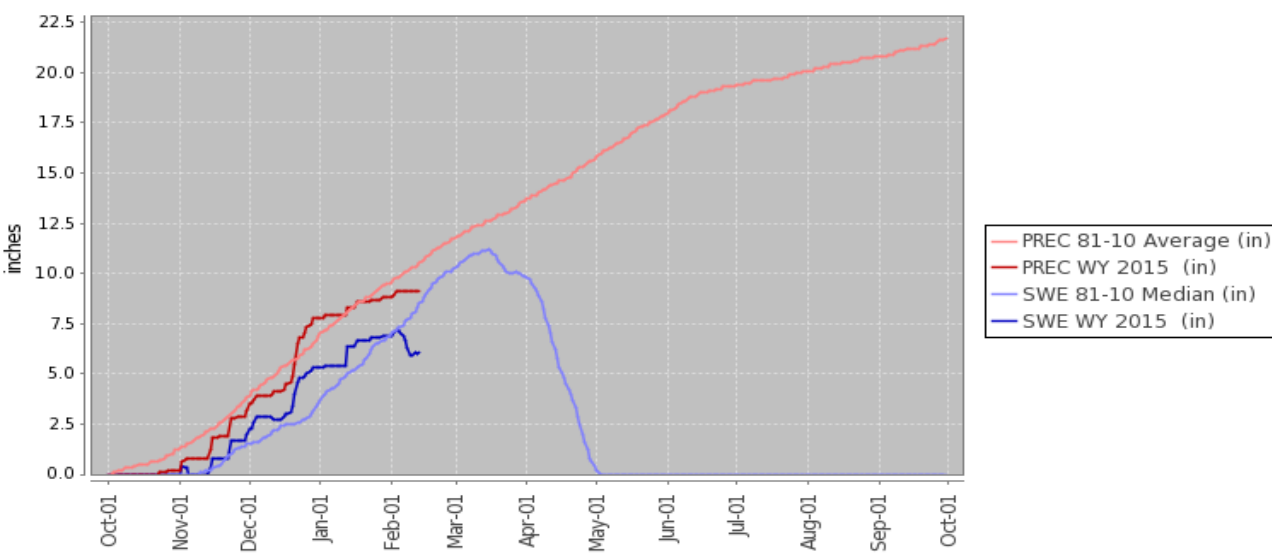
This is an automated product based solely on SNOTEL data, provisional data are subject to change. This product is a statistically based guidance forecast combining indices of snowpack and precipitation. Skill is defined as the correlation (squared) between the guidance and observed during calibration. This product does not consider climate information such as El Nino or short range weather forecasts, or a variety of other factors considered in the official forecasts. This product is not meant to replace or supersede the official forecasts produced in coordination with the National Weather Service. Science Contact: Cara.s.McCarthy@por.usda.gov www.wcc.nrcs.usda.gov/ws/daily_forecasts.html

2015 Salmon Falls Creek: Mar - Jul Volume

NRCS Monthly are Yellow Squares

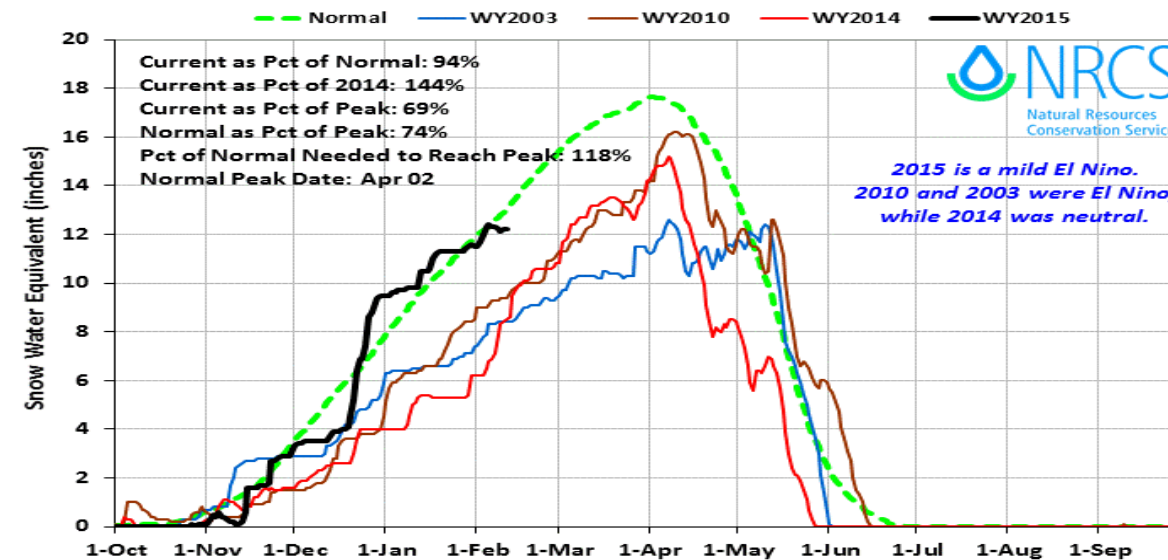


Station (746) WATERYEAR=2015 (Daily) NRCS National Water and Climate Center - Provisional Data - subject to revision Fri Feb 13 07:18:54 PST 2015

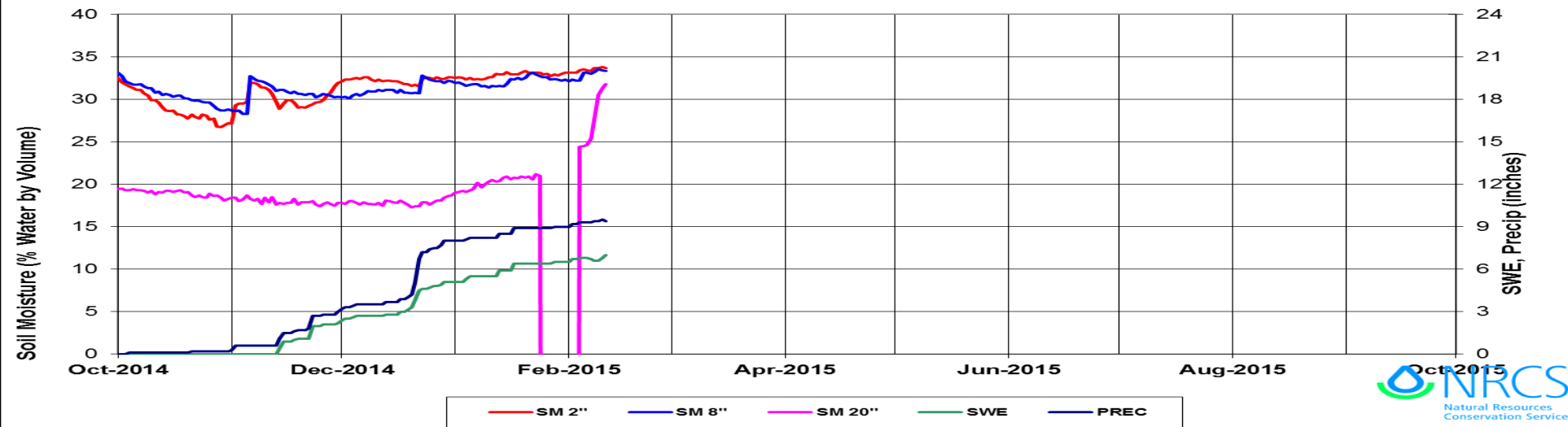


Salmon Falls Basin 2015 Snowpack Comparison Graph (5 sites)

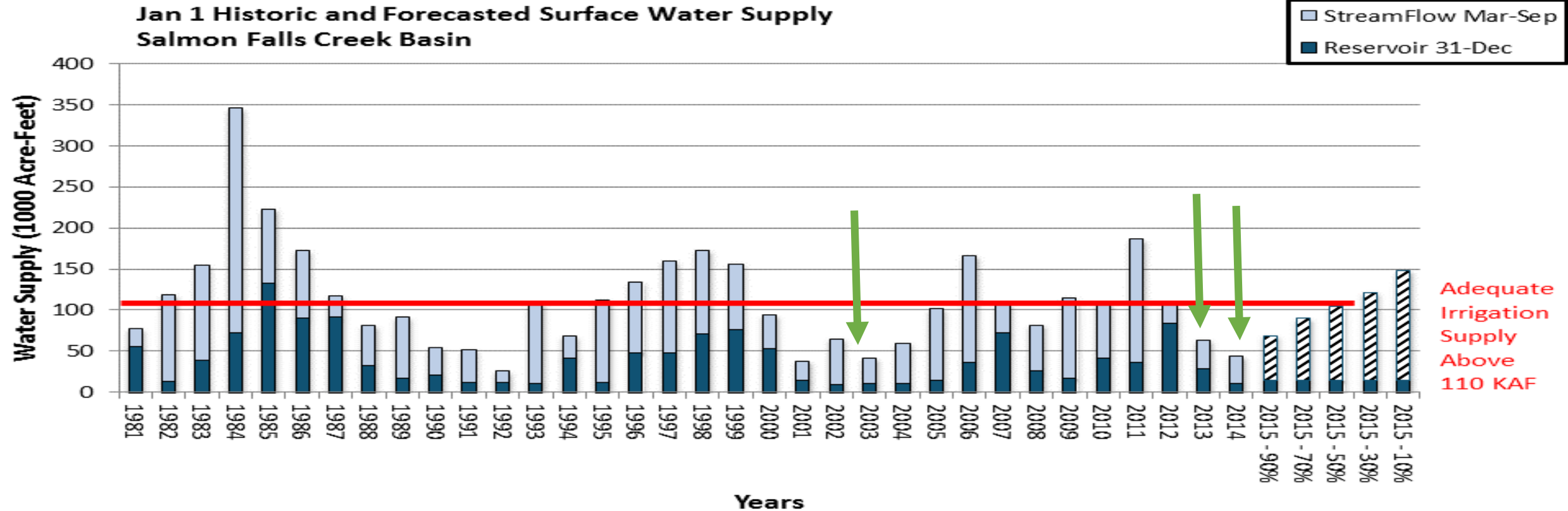
Based on Provisional SNOTEL data as of Feb 11, 2015



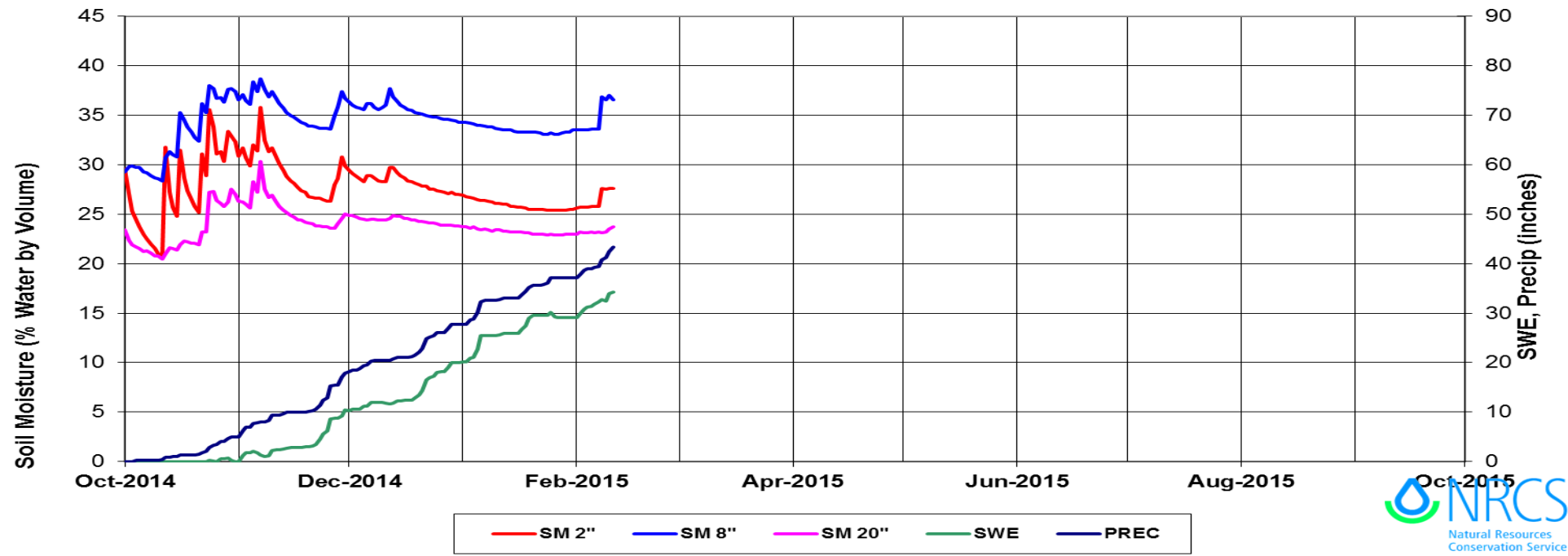
Draw Creek Soil Moisture - Water Year 2015



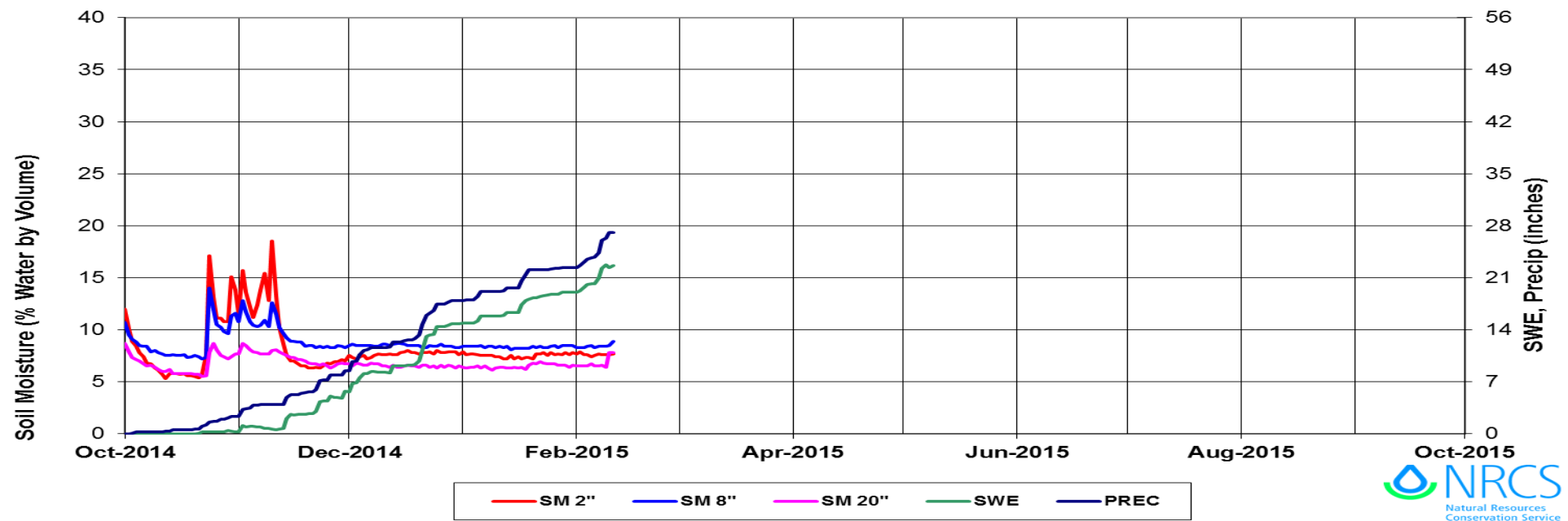
Jan 1 Historic and Forecasted Surface Water Supply Salmon Falls Creek Basin



Crater Meadows Soil Moisture - Water Year 2015



Atlanta Summit Soil Moisture - Water Year 2015





**Trinity and
the road to
Trinity
Mountain
SNOTEL site
Feb 11, 2015**

Questions?

THANKS For
Fixing the
Snow Reader!
We appreciate
your Hard Work!

