

<b>NWS Form E-5</b> U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE  <b>MONTHLY REPORT OF HYDROLOGIC CONDITIONS</b>	<b>HYDROLOGIC SERVICE AREA:</b> Pocatello, Idaho
	<b>REPORT FOR:</b>  <b>MONTH:</b> April <b>YEAR:</b> 2013
<b>TO:</b> Hydrologic Operations Division, W/OH2 National Weather Service National Oceanic and Atmospheric Administration Silver Spring, Maryland 20910	<b>SIGNATURE</b>  Corey Loveland Service Hydrologist
<b>DATE:</b> May 10, 2013	
When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (NWS Instruction 10-924).	



An X in this box indicates that no flooding has occurred for the month within this hydrologic service area.

### Overview:

Below normal precipitation has continued throughout eastern Idaho for the month of April (with the exception of the Bear River basin; which was above normal, which needed the moisture as they have been lacking the past few months. It appears that only 0.25 to 1.5 inches of precipitation has fallen in the mountainous regions of the Hydrologic Service Area (HSA) last month. The highlight of the month is the upper Snake basin, which received upwards of five inches of precipitation near the Idaho-Wyoming border. It appears we are upwards of three inches in deficit (with near normal precipitation in southeast Idaho) and about 5-10 percent of normal in the central mountains (which is the area that did not do well last month). The Little Wood and Big Lost River basins received the least amount of precipitation; only 30% of average. Above normal precipitation in the basins south of the Snake River and in the Bear basin has brought needed relief, but has not made any major improvements on water supply. Most SNOTEL sites within the HSA did not accumulate snow, with many areas decreasing its snowpack. The area that did the best-just like last month, was the Howell Canyon site (Cassia County) accumulating 4.9 inches of swe over the month. Cooler than normal temperatures have helped keep the snow in the higher elevations which has helped retain the averages. The forecast does not look that great as the El Niño neutral pattern is forecast to continue through at least the end of the year.

With the additional snow in the Henrys Fork basin, the highest stream volume forecast in the HSA has become the Falls River at Chester which is at 87% of average for the Apr-Sep forecast (ranked 25 out of 42 years). The lowest streamflow forecast is now the Bear River below Stewart Dam currently at 25% of average for April through July. The SNOTEL site having the greatest amount of swe is the Meadow Lake site (elevation 9150 ft) at 84% of average (it was Galena Summit previously at 88%). The site with the lowest swe value (that is not melted out) is Crab Creek (elevation 6860 ft) at 4% of avg. Melted out sites are: Island Park, Pine Creek Pass, Sheep Mountain, Giveout, Slug Creek Divide, Oxford Springs, Moonshine, Bear Canyon, Hyndman, Soldier Ranger Station and Garfield Ranger Station. SNOTEL swe value changes during April included about 38 sites (including western WY) that did not accumulate snow during the month. In the Bear River basin, the SNOTEL having the most swe is Sedgwick Peak keeping at 71%; elevation 7850 ft. As far as the one-month Climate Prediction Center outlook is concerned, we stand to have a 33-40% chance of both above normal temperatures and below normal precipitation in eastern Idaho.

Of the data available for the month, the highest 24-hour precipitation total was 1.08 inches on the 9<sup>th</sup> day of the month at the Lifton Pumping station. The station reaching the highest temperature was the Howe station at 77°F

on the 28<sup>th</sup>. The station with the lowest recorded temperature was at the Island Park station at a cold 3°F on April 18<sup>th</sup>.

During April, reservoirs increased capacity overall by around 1% (reservoirs did not gain much inflow this month as compared to the past winter months due to colder temperatures not melting the snowpack) in the upper Snake River basin system (an increase of only about 25 KAF occurred over the month and is sitting at 74% of capacity overall). Compared to last year at this time, it was about 88% of capacity. Most notable change were the Ririe and Little Wood Reservoirs increasing 14% and 13% of capacity respectively. Jackson Lake and Bear Lake are currently at 146 and 125 percent of average capacity, respectively, according to NRCS data. Henrys Lake is full. American Falls and Lake Walcott only added 1% to their capacity this past month. The Big wood Canal Company is expecting a 129 KAF shortage for irrigation this season. Currently, it is forecast for the Jackson Lake and Palisades system to be about 100 KAF short this season. Oakley reservoir is looking at about a 2 KAF shortage with Bear Lake seeming to have adequate water supply from the recent wet and cool conditions in the basin.

The May-July streamflow forecast for the Wood and Lost River basins ranges from 38-68% of average which has reduced significantly from the beginning of the calendar year. The Bear River basin has improved a little bit since the April 1 forecast, but lacks the mid-elevation snow making the runoff season short. Below Stewart Dam, the May-July streamflow forecast is about 19% of average. The upper Snake River basin has fared the best as the May-July forecast ranges from 75-98% of average due to the recent snowpack accumulation and colder weather; reducing the snowmelt rate.

Drought categories have changed significantly this past month for the reasons identified above. The state has increased 30% more in drought intensity in the abnormally dry category. The U.S. Seasonal Drought Outlook continues to forecast a persistence of drought conditions throughout most of eastern Idaho. Looking at the long-term climate forecast, it appears the trend of warmer and drier than normal conditions should persist.

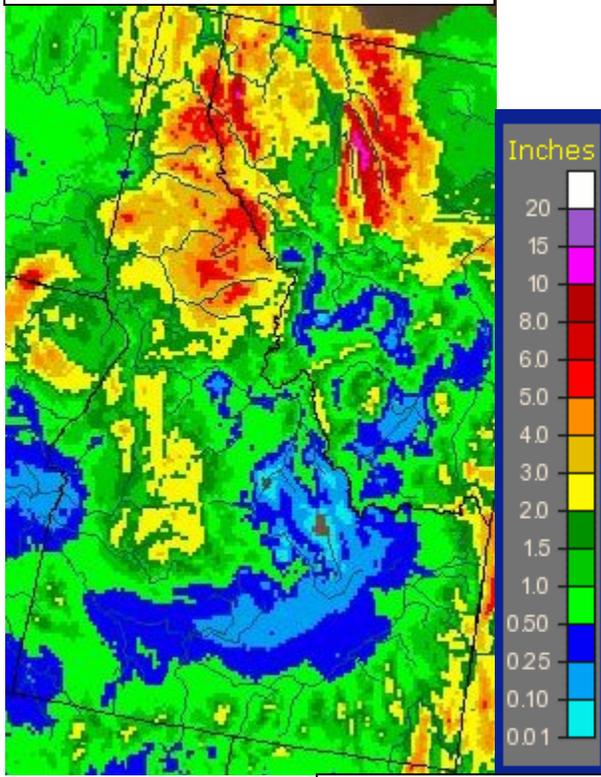
According to the Idaho NRCS Snow Survey May 1<sup>st</sup> Idaho Surface Water Supply Index (SWSI); combining streamflow volume forecasts and reservoir storage (where appropriate), rates the greatest valued basin for water supply within the HSA as being the Bear River basin. This basin was given a SWSI value of 0.5 [near normal water supply and a slight improvement from last month]. The lowest ranked basins within the HSA are the Big Wood and Little Lost basins which are rated at -2.3 and -2.2 (below normal water supply), respectively. The Teton basin was ranked worse the past two months. From a water supply stance, the hydrologic basins within the HSA are currently tracking below normal for mountain snowpack conditions.

For more information on the May 1<sup>st</sup> Idaho Water Supply Outlook, please go to:  
<ftp://ftp-fc.sc.egov.usda.gov/ID/snow/watersupply/bor/2013/borid513.pdf>

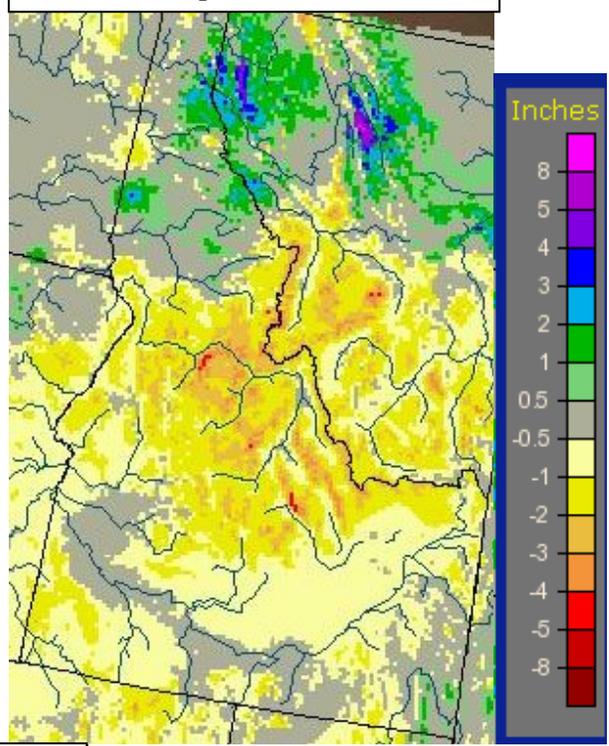
See NWRFC, CBRFC, and NRCS water supply stream volume forecasts below.

**Precipitation:**

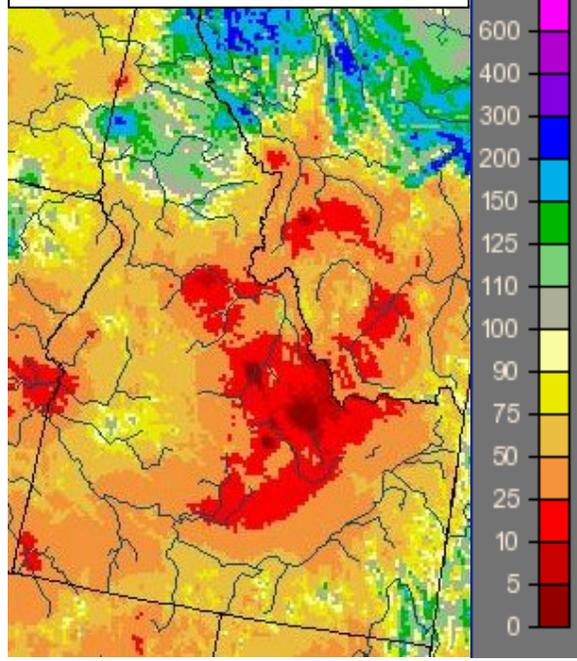
April 2013, Observed Precipitation



April 2013, Departure from Normal Precipitation

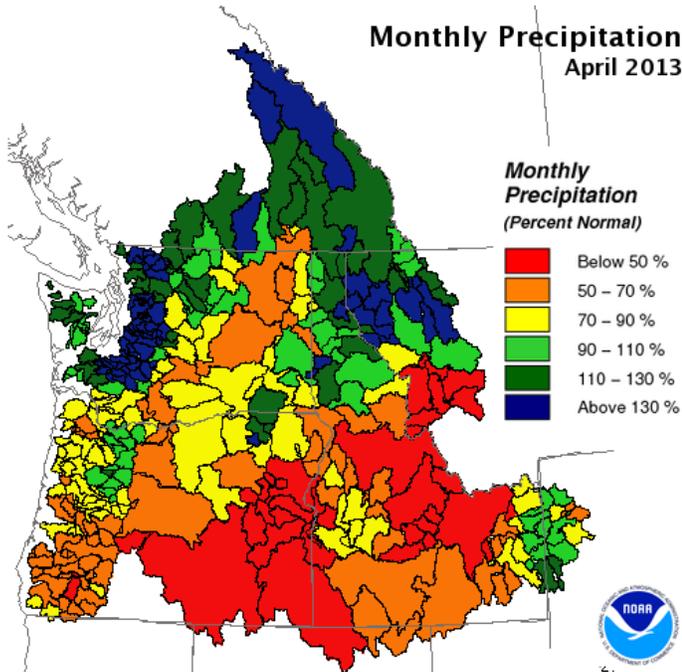


April 2013, Percent of Normal Precipitation



[www.water.weather.gov/precip/index.php](http://www.water.weather.gov/precip/index.php)

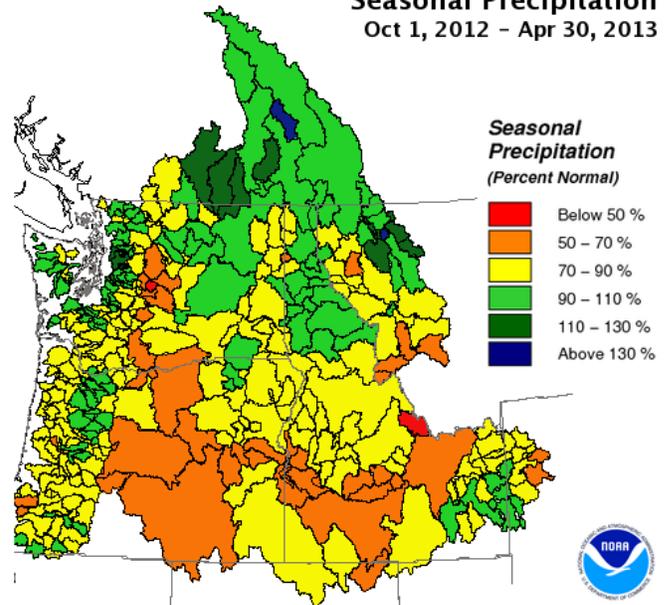
### Monthly Precipitation April 2013



Creation Time: Sunday, May 5, 2013

Northwest River Forecast Center

### Seasonal Precipitation Oct 1, 2012 - Apr 30, 2013



Creation Time: Wednesday, May 1, 2013

Northwest River Forecast Center

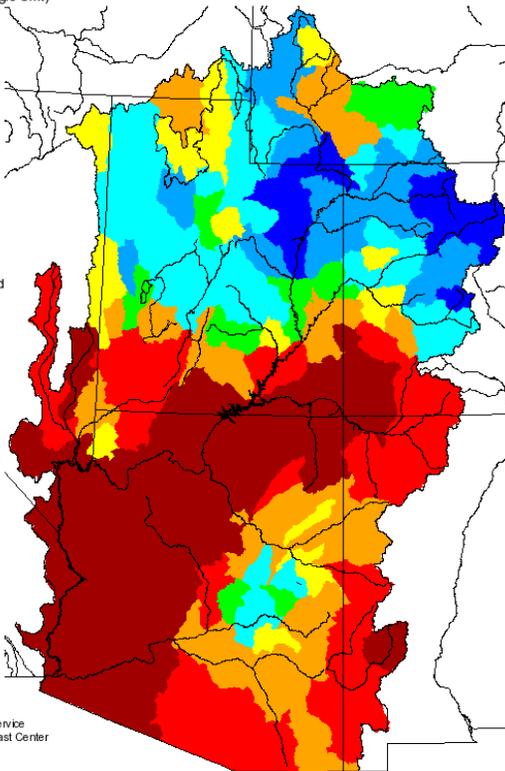
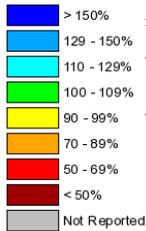
[www.nwrfc.noaa.gov/WAT\\_RES\\_wy\\_summary/20130506/MonthMAP\\_2013Apr\\_2013050617.png](http://www.nwrfc.noaa.gov/WAT_RES_wy_summary/20130506/MonthMAP_2013Apr_2013050617.png)

[www.nwrfc.noaa.gov/WAT\\_RES\\_wy\\_summary/20130506/SeasonalMAP\\_WY2013\\_OCT\\_APR.2013050617.png](http://www.nwrfc.noaa.gov/WAT_RES_wy_summary/20130506/SeasonalMAP_WY2013_OCT_APR.2013050617.png)

### Monthly Precipitation for April 2013

(Averaged by Hydrologic Unit)

#### % Average

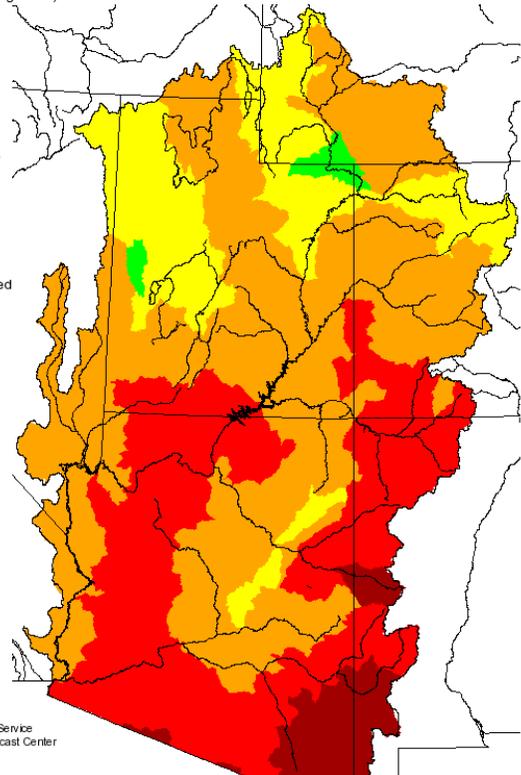
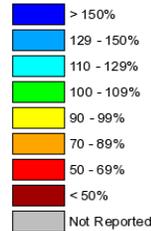


Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

### Seasonal Precipitation, October 2012 - April 2013

(Averaged by Hydrologic Unit)

#### % Average



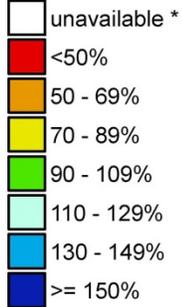
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

[www.cbrfc.noaa.gov/wsup/pub2/outlook3.php?region=sl&month=5&year=2013#precip](http://www.cbrfc.noaa.gov/wsup/pub2/outlook3.php?region=sl&month=5&year=2013#precip)

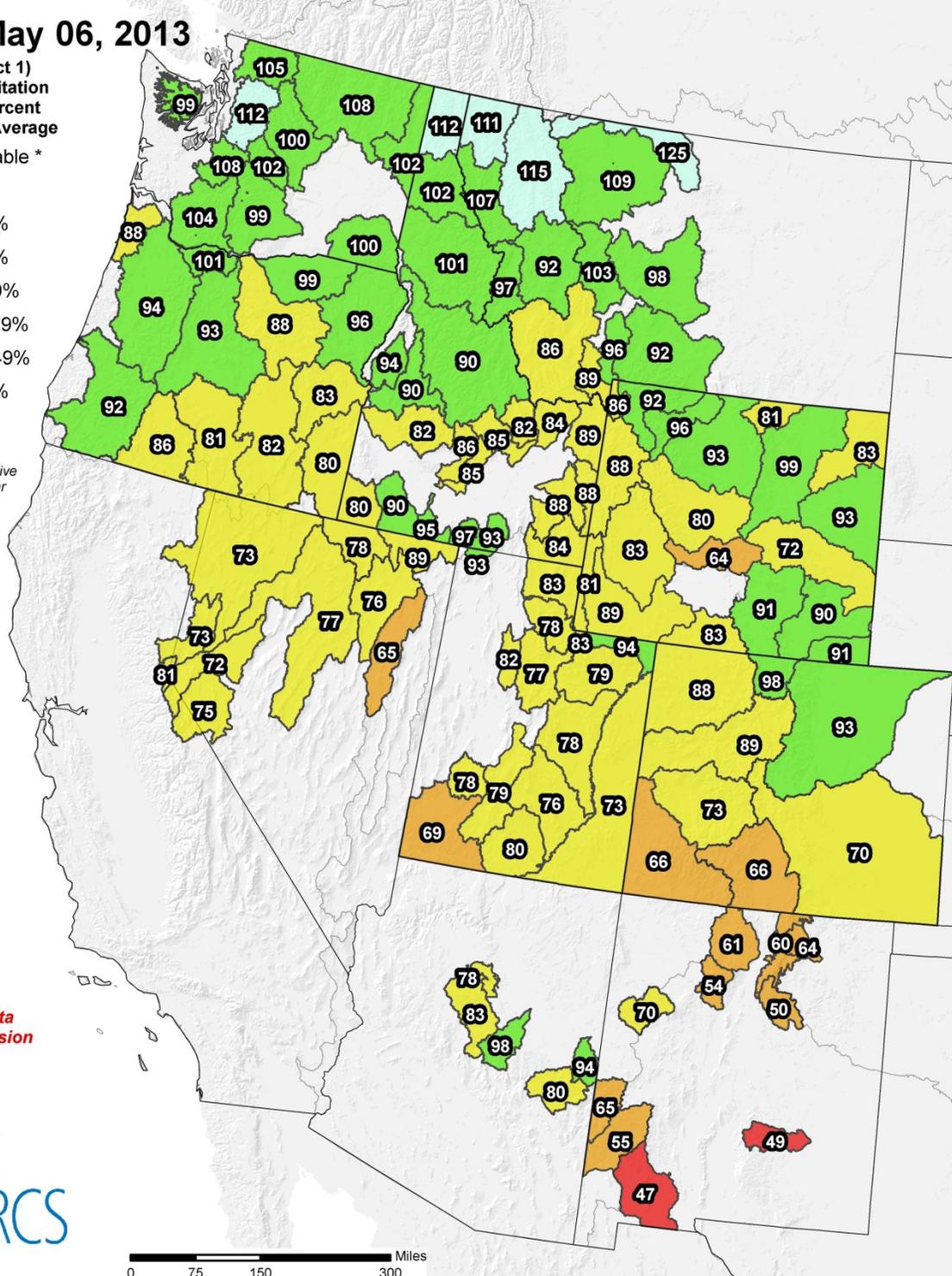
# Westwide SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal

May 06, 2013

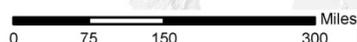
Water Year (Oct 1) to Date Precipitation Basin-wide Percent of 1981-2010 Average



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



Provisional data subject to revision



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 Center 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

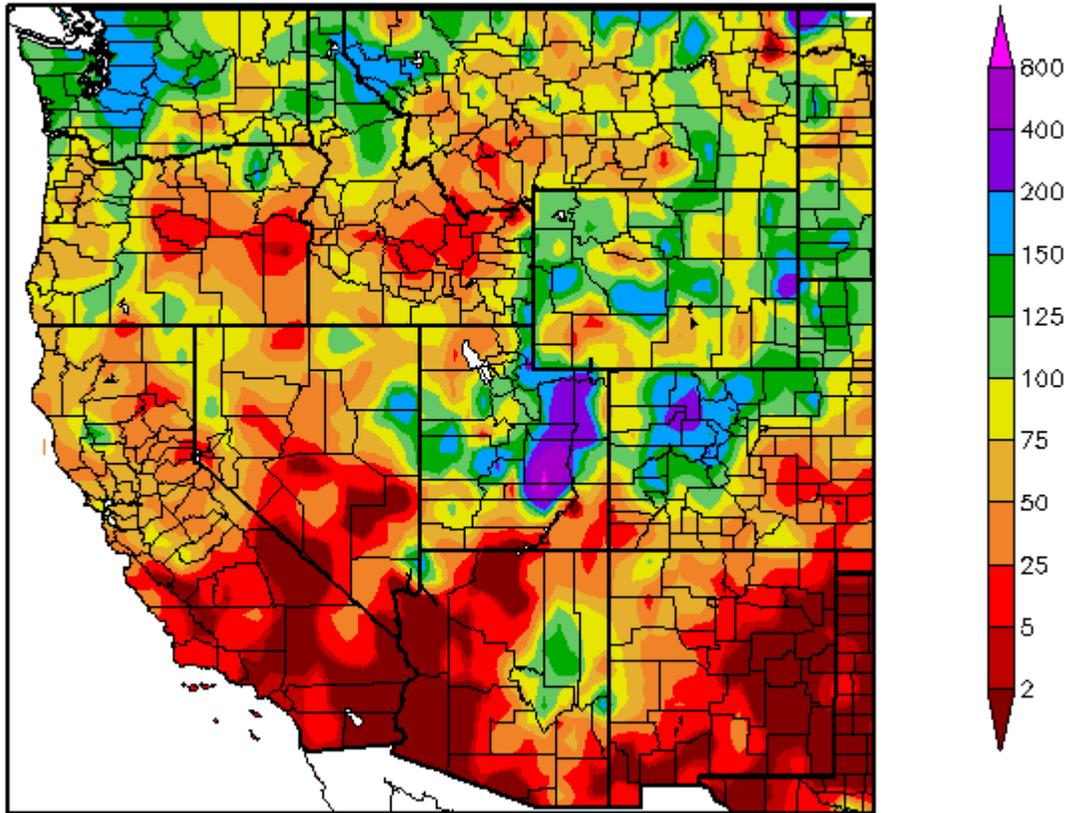
[www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/west\\_wytdprecpcnormal\\_update.pdf](http://www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/west_wytdprecpcnormal_update.pdf)



**Note:** The ENSO Neutral climate pattern is forecast to continue through the end of the year. (see below graphic on page 13).

Again, April's overall precipitation was disappointing, as we look at last month's Percent of Normal precipitation graphic below, the area receiving the least amount of precipitation was the central mountains including the Big and Little Lost and Wood and parts of the Henrys Fork.

### Percent of Normal Precipitation (%) 4/1/2013 - 4/30/2013



Generated 5/5/2013 at HPRCC using provisional data.

Regional Climate Centers

[www.hprcc.unl.edu/maps/current/index.php?action=update\\_type&map\\_type=](http://www.hprcc.unl.edu/maps/current/index.php?action=update_type&map_type=)

# Idaho

## SNOTEL Snow Water Equivalent (SWE) % of Normal

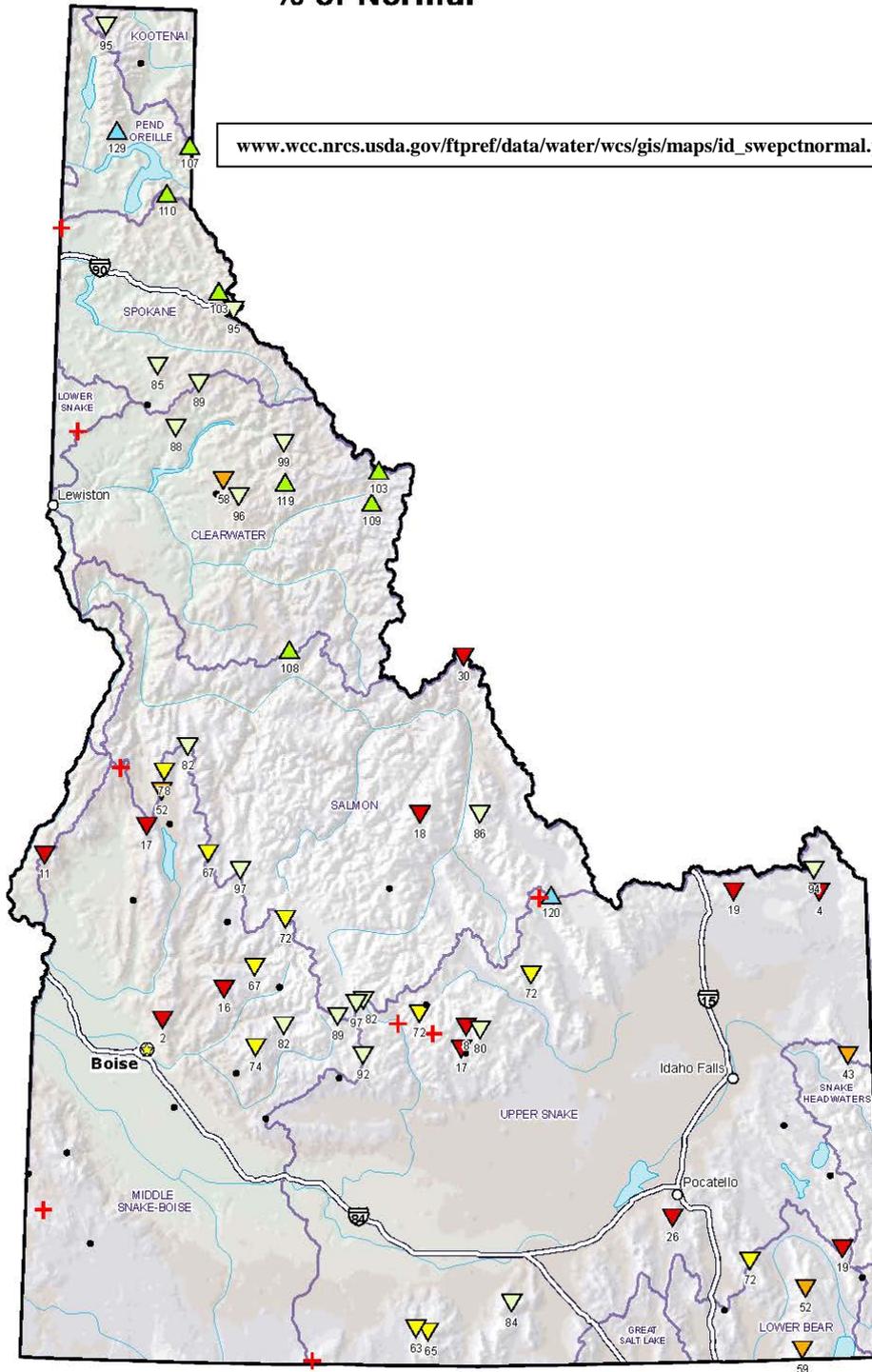
**May 06, 2013**

[www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/id\\_swepctnormal.pdf](http://www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/id_swepctnormal.pdf)

**Current SWE  
% of 1981-2010  
Median**

- ▲ > 160%
- ▲ 140-160%
- ▲ 120-139%
- ▲ 100-119%
- ▼ 80-99%
- ▼ 60-79%
- ▼ 40-59%
- ▼ 1-39%
- + 0%
- Unavailable\*

*Provisional Data  
Subject to Revision*

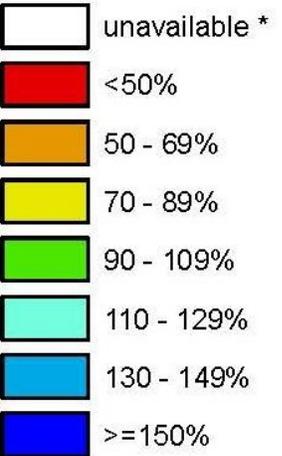


Prepared by the  
USDA/NRCS National Water and Climate Center  
Portland, Oregon  
<http://www.wcc.nrcs.usda.gov/gis/>

*\* Data unavailable at time of posting or  
unavailable long-term normal.*

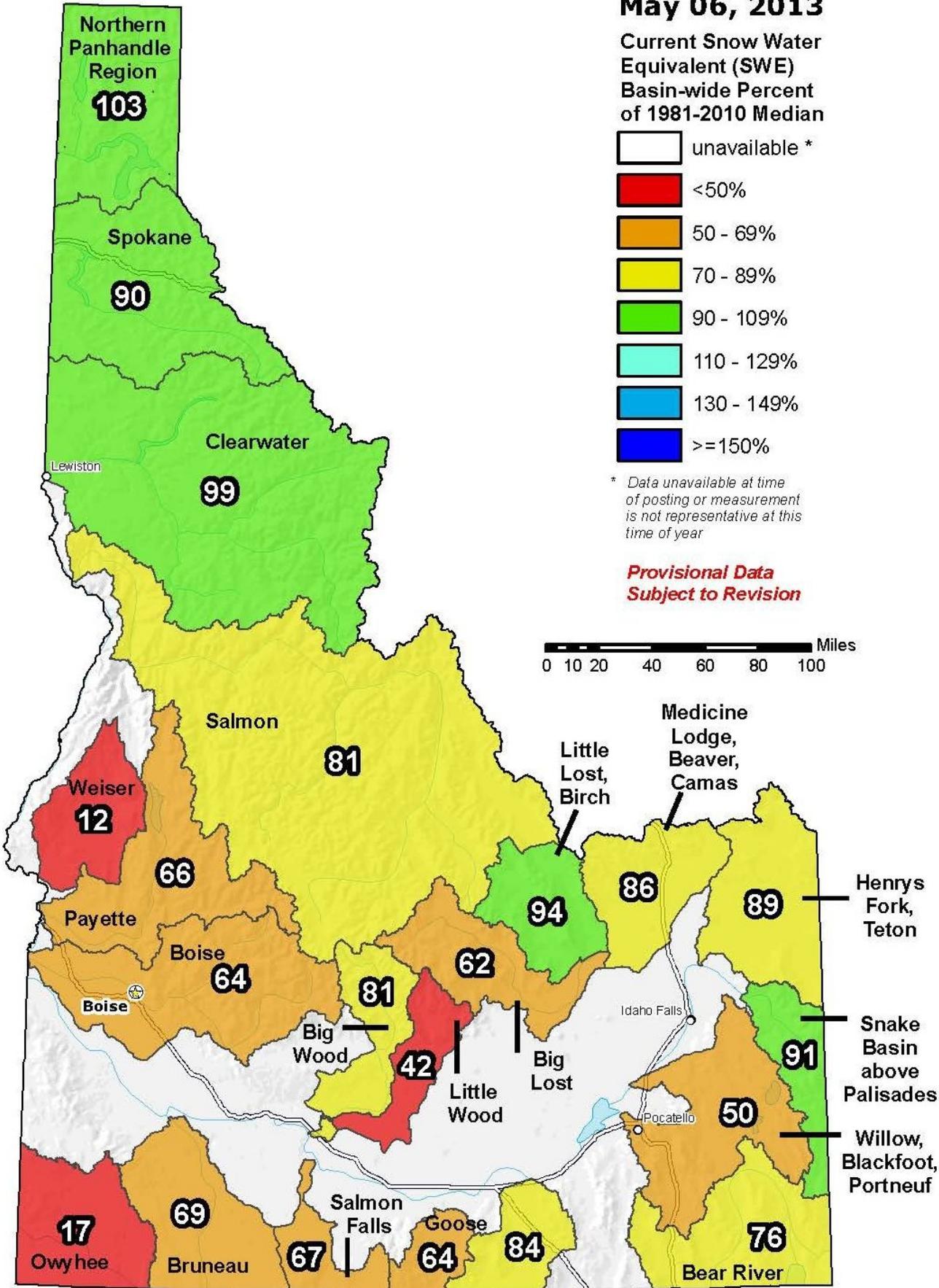
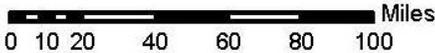
**May 06, 2013**

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

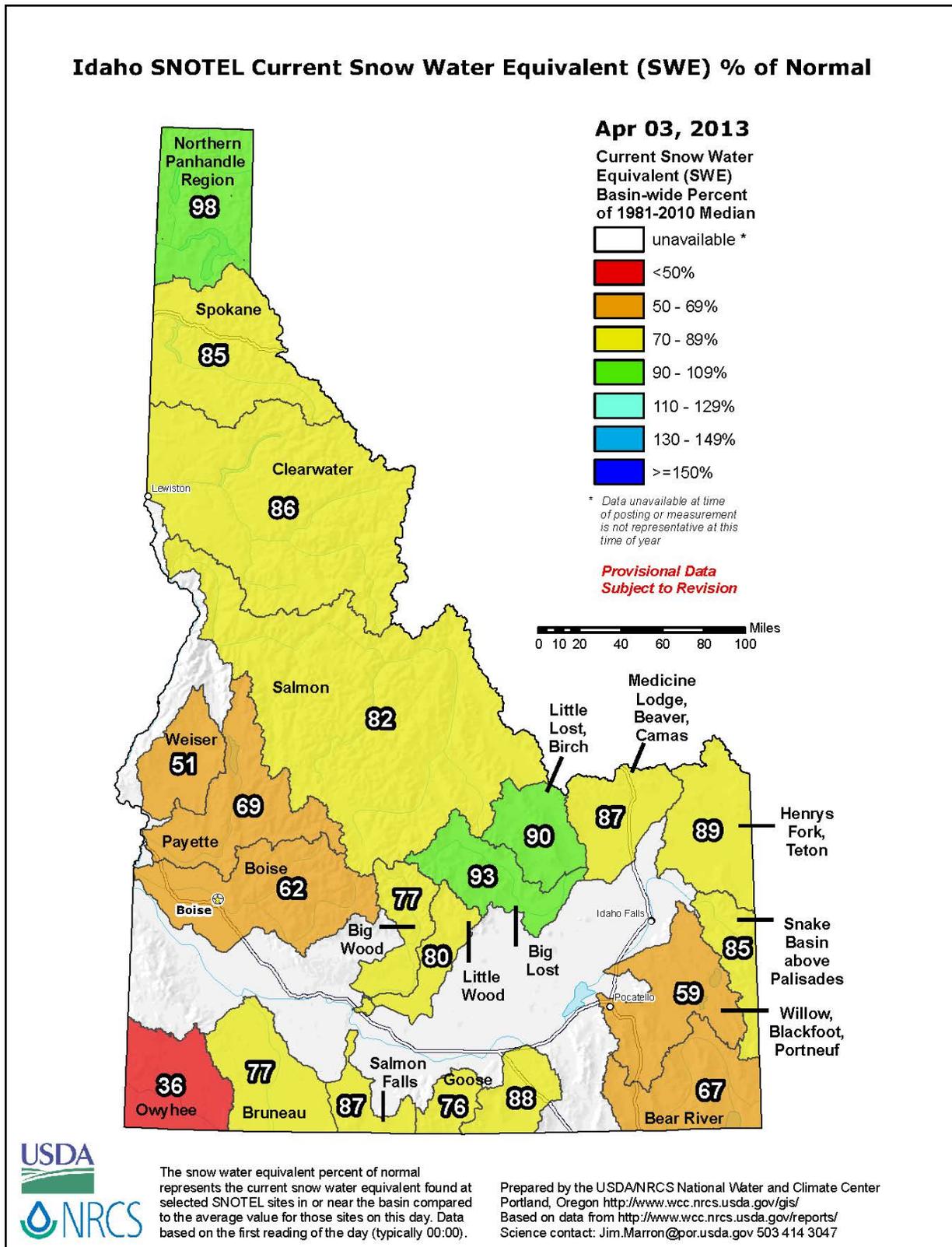


*\* Data unavailable at time of posting or measurement is not representative at this time of year*

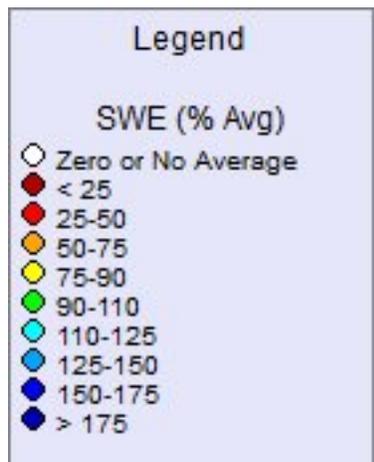
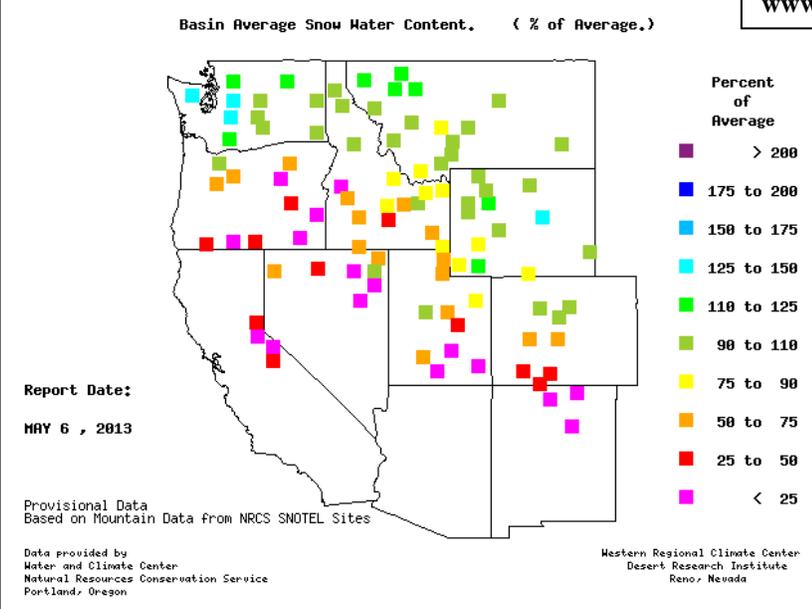
**Provisional Data  
Subject to Revision**



With April cool and wet, some snowpack improvement came in the Snake above Palisades, Bear, Little Lost/Birch, and Big Wood Basins. Elsewhere, reduction in swe percents of normal (basin filled) continued compared to last month (see below):

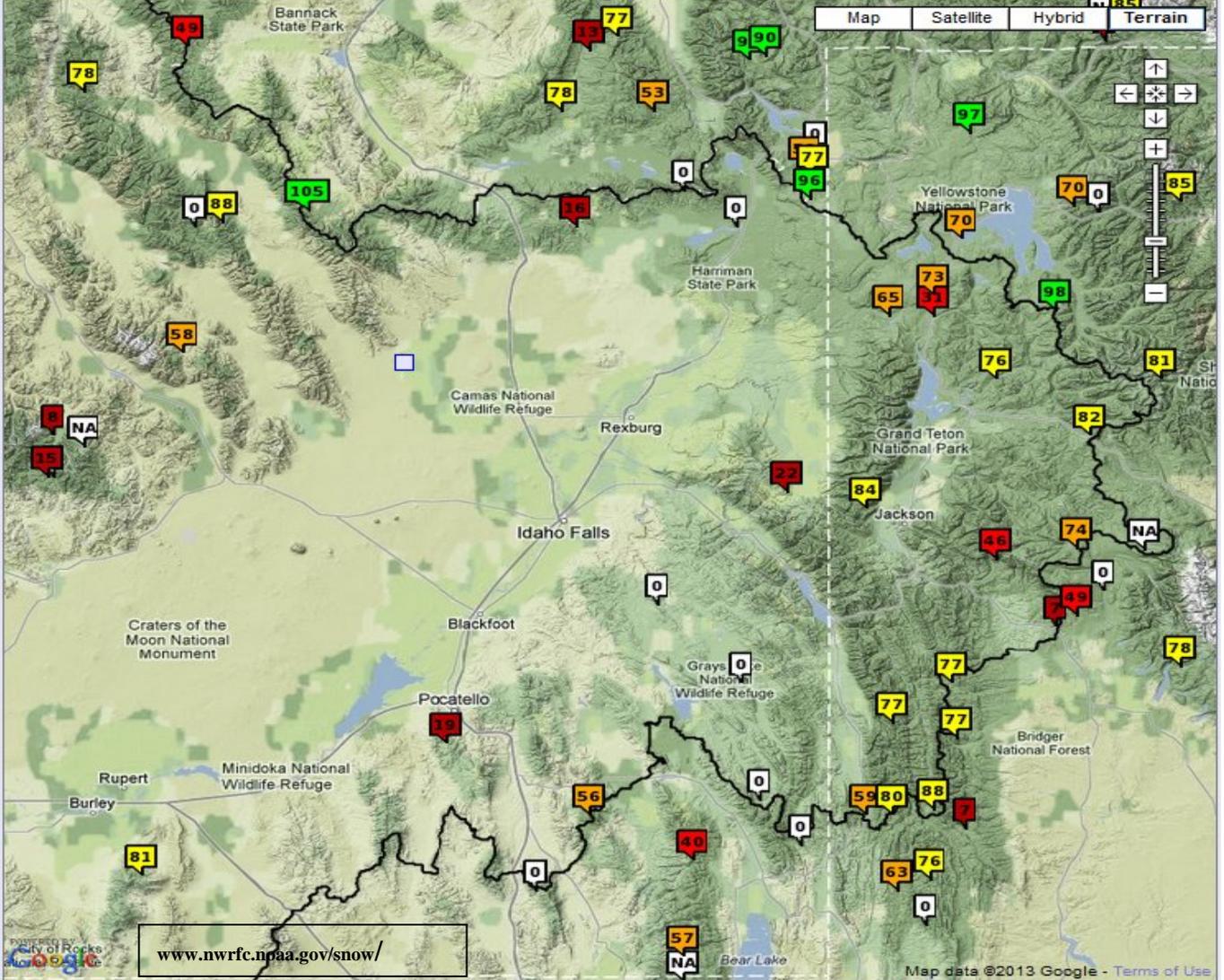


[www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/id\\_swepctnormal\\_update.pdf](http://www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/id_swepctnormal_update.pdf)



**Current SWE Conditions: % of Avg (5/6/13) (SNOTEL):**

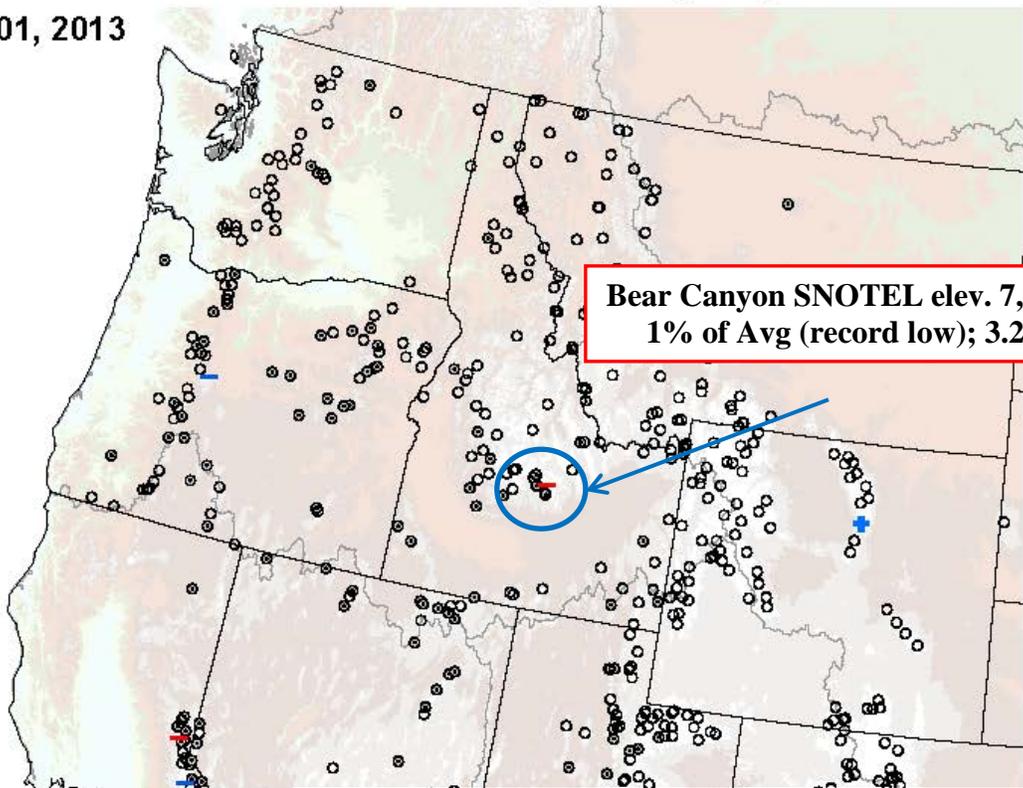
**(NWRFC)**



**SWE Record Low:**

**SNOTEL Current Snow Water Equivalent (SWE) Records**

May 01, 2013

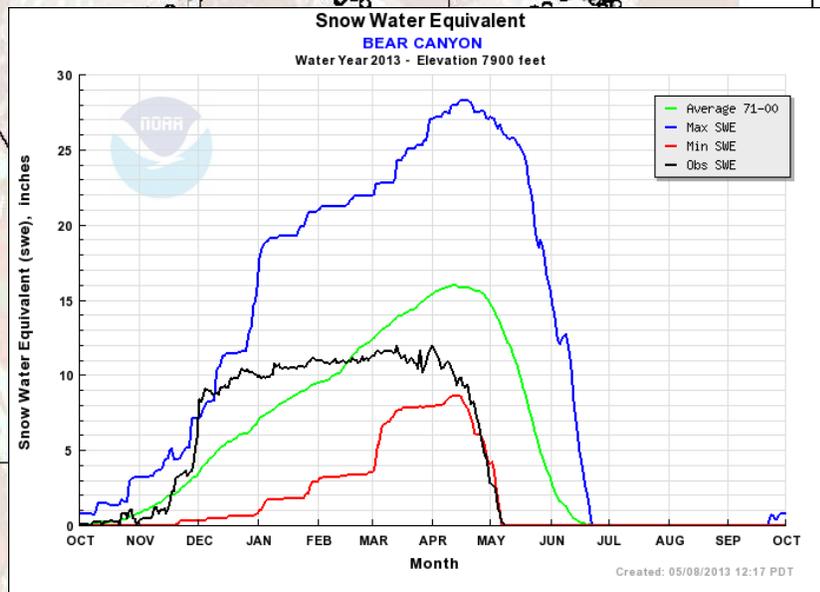


**Bear Canyon SNOTEL elev. 7,900 ft.  
1% of Avg (record low); 3.2" on Apr 30**

**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.

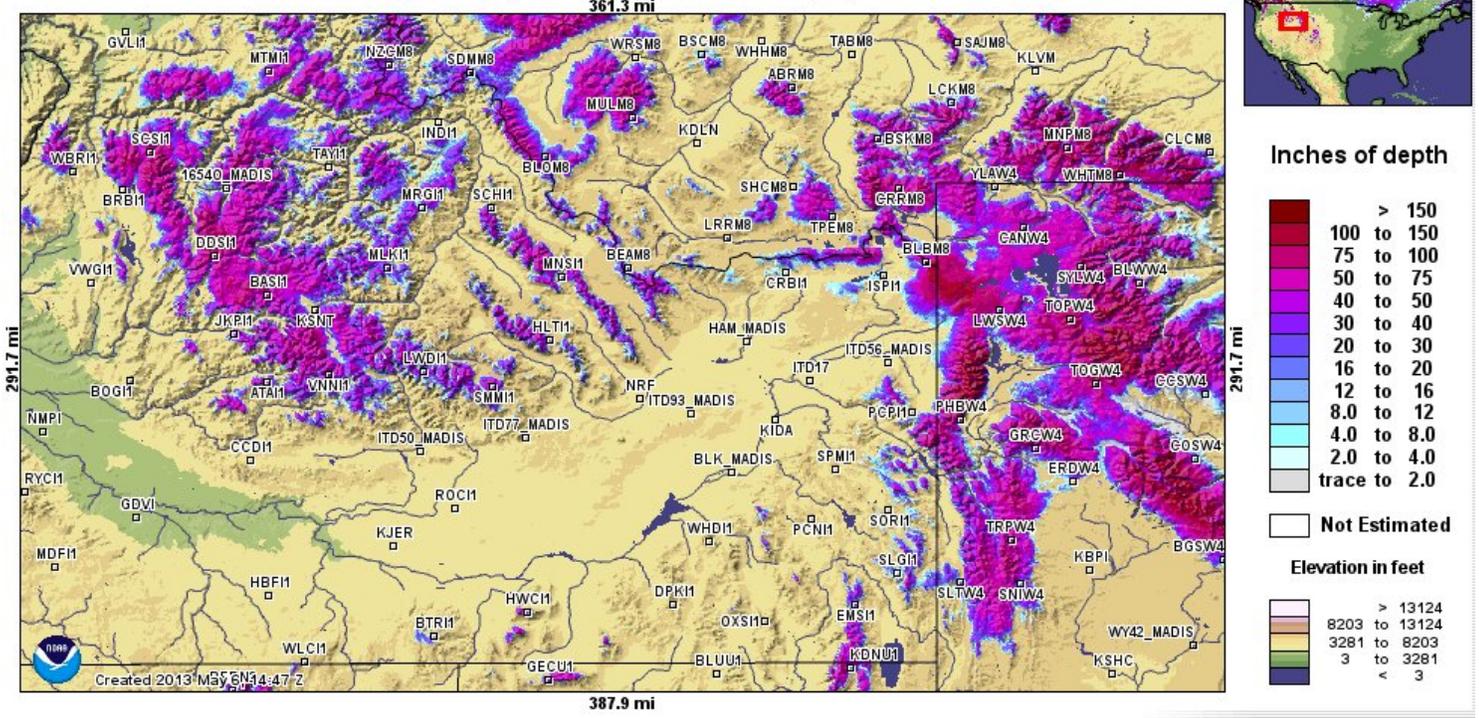


*Provisional Data  
Subject to Revision*

Prepared by the USDA NRCS National Water and Climate Center  
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

Created: 05/08/2013 12:17 PDT

Modeled Snow Depth forecasted for 2013 May 6, 15:00 Z



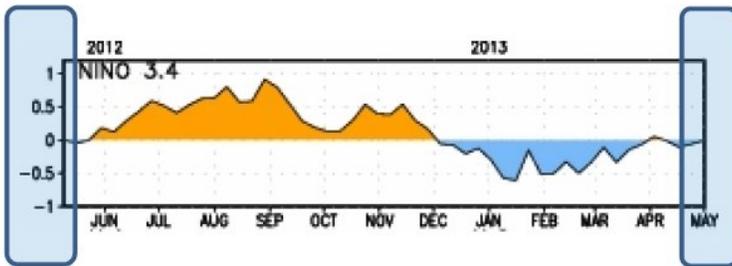
[www.nohrsc.noaa.gov/interactive/html/map.html](http://www.nohrsc.noaa.gov/interactive/html/map.html)

**ENSO Update:**

**Latest Observed SST Departure: Niño 3.4 ~ 0.0 Deg C**

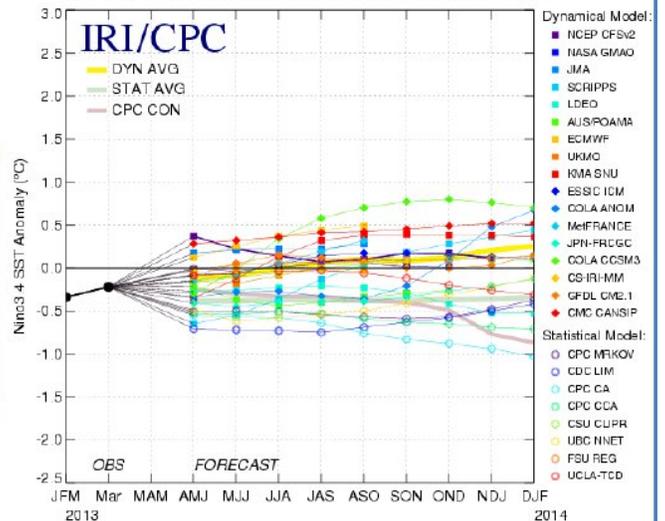
Latest observed: SST 3.4 ~ -0.0 Deg C

Latest calculated ONI 3.4 = -0.4 Deg C  
 ONI = 3 month running mean of SST (Nov-Jan)



[cpc.ncep.noaa.gov](http://cpc.ncep.noaa.gov) and [iri.columbia.edu/climate/ENSO](http://iri.columbia.edu/climate/ENSO)

Mid-Apr 2013 Plume of Model ENSO Predictions



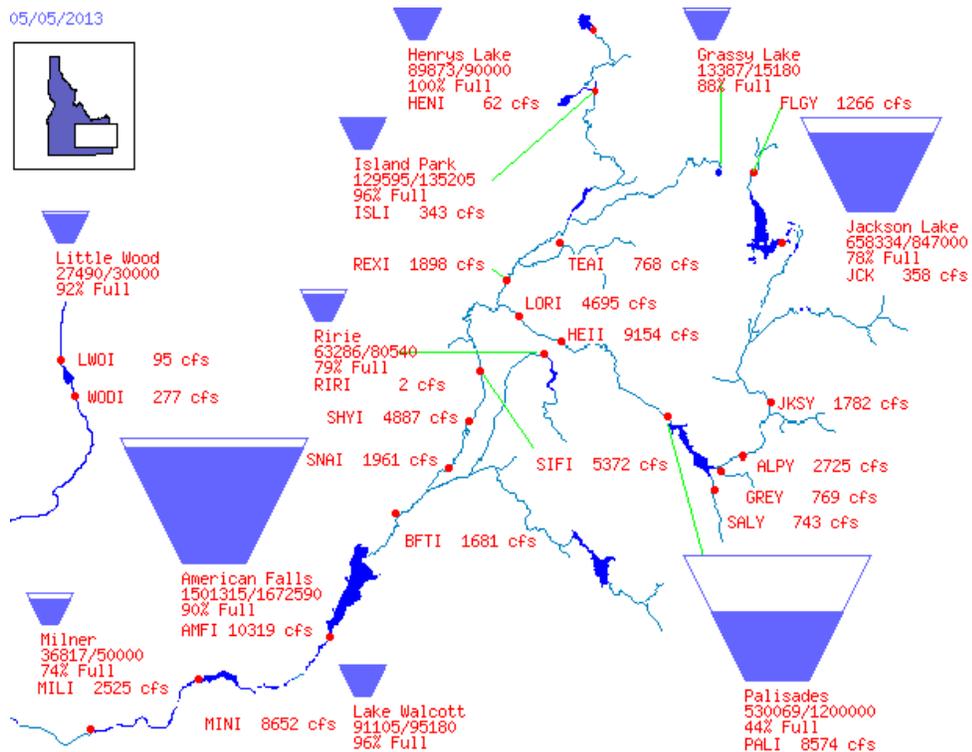
**CPC Synopsis: ENSO-Neutral conditions favored through end of 2013**

**Reservoirs:**

Reservoir	% Capacity Mar 31 <sup>1</sup>	% Capacity Apr 30 <sup>2</sup>	Percent Change	% of Average <sup>2</sup>	% of Last Year <sup>2</sup>
Henry's Lake	100	100	0	108	100
Island Park	81	93	12	102	93
Jackson Lake	74	77	3	146	89
Palisades	50	54	4	83	72
Ririe	63	77	14	106	78
Blackfoot	68	71	3	117	77
American Falls	93	94	1	103	94
Bear Lake	65	68	3	125	81
Magic	21	29	8	43	29
Little Wood	83	96	13	115	98
Mackay	83	86	3	117	87
Oakley	34	40	6	89	70
Lake Walcott	95 <sup>3</sup>	96 <sup>4</sup>	1	n/a	n/a
Milner	69 <sup>3</sup>	74 <sup>4</sup>	5	n/a	n/a

Source: (1) NRCS March 31, 2013; (2) NRCS April 30, 2013.  
 (3) US Bureau of Reclamation (BOR) April 3, 2013 (4) BOR May 5, 2013

[www.wcc.nrcs.usda.gov/ftpref/data/water/basin\\_reports/idaho/wy2013/bareid4.txt](http://www.wcc.nrcs.usda.gov/ftpref/data/water/basin_reports/idaho/wy2013/bareid4.txt)

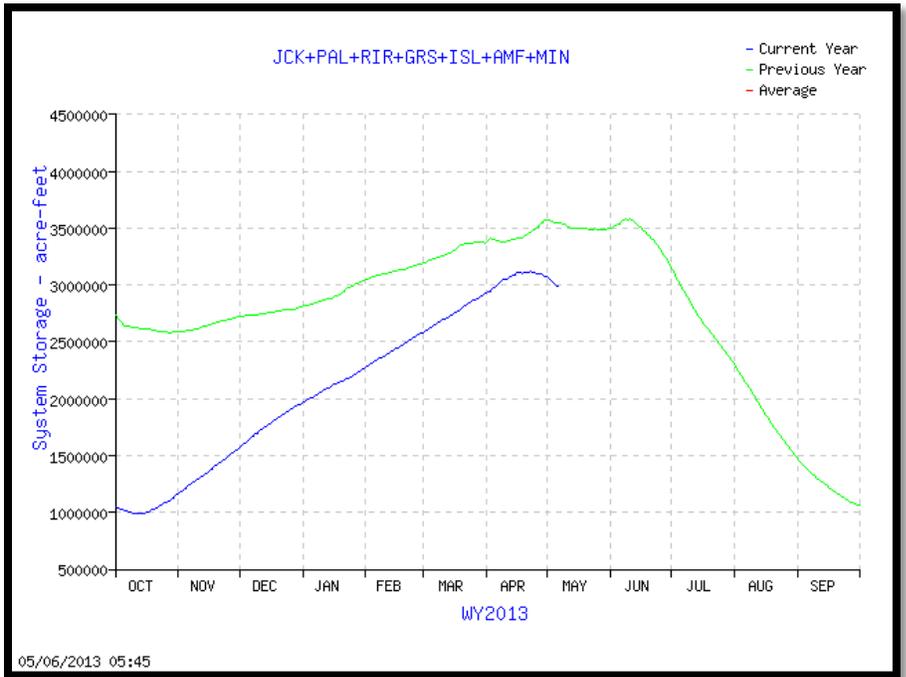


**74% of Capacity in Upper Snake River System**  
 (Jackson Lake, Palisades, Ririe, American Falls & Lake Walcott)

**Upper Snake River:**  
 Total Space Available: 1,058,601 AF  
 Total Storage Capacity: 4,045,695 AF

[www.usbr.gov/pn/hydromet/burtea.html](http://www.usbr.gov/pn/hydromet/burtea.html)

**Graph of Upper Snake River  
Current Total System Reservoir  
Storage**



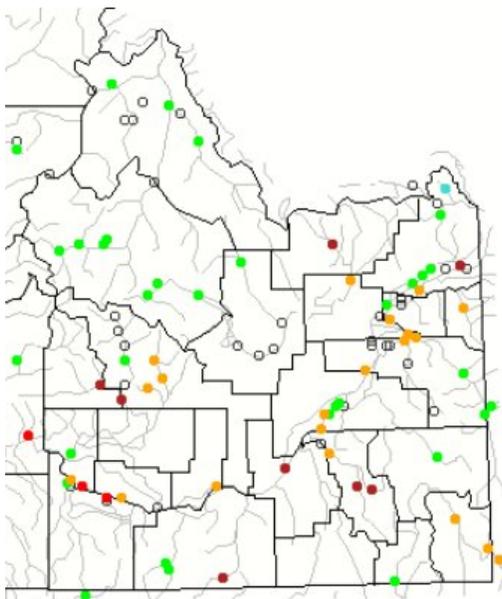
[www.usbr.gov/pn-bin/graphwy2.pl?snasys\\_af](http://www.usbr.gov/pn-bin/graphwy2.pl?snasys_af)

**Bear River Basin End of Month (April) Reservoir Contents (KAF):**

	<u>EOM Contents</u>	<u>Percent EOM Average</u>	<u>Percent Usable Capacity</u>	<u>Last Year EOM</u>	<u>Last Year %Average</u>	<u>EOM Average</u>	<u>Usable Capacity</u>
Bear Lake, Nr Lifton	961.1	125	74	1189.4	154	770.8	1302.0

[www.cbrfc.noaa.gov/wsup/pub2/outlook3.php?region=sl&month=5&year=2013#contents](http://www.cbrfc.noaa.gov/wsup/pub2/outlook3.php?region=sl&month=5&year=2013#contents)

**Streamflow:**



Monthly average streamflow compared to historical average streamflow for April 2013.



[waterwatch.usgs.gov/?m=mv01d&r=id&w=map](http://waterwatch.usgs.gov/?m=mv01d&r=id&w=map)

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

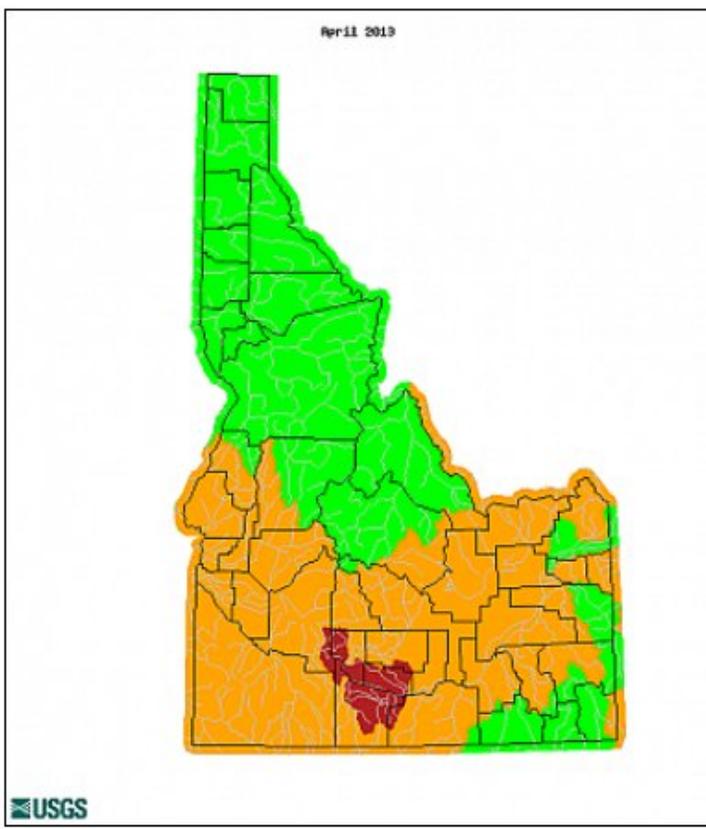
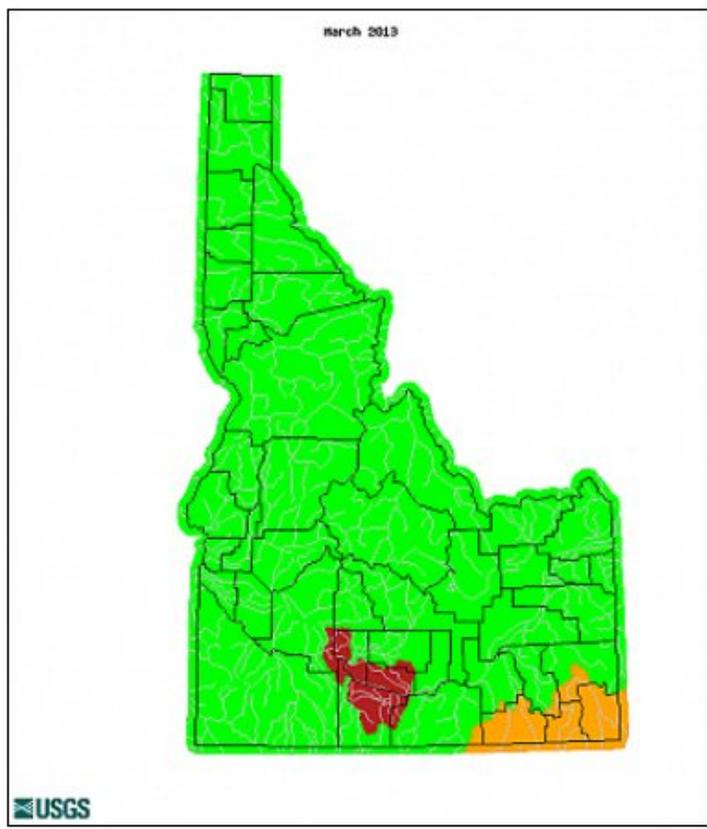
**Historic Streamflow Comparison-March 2013 and April 2013:**

**Comparison of Monthly Streamflow Maps**

Geographic Area: 
 Water Resource Region: 
 Map Type:

Date (YYYYMM):

Date (YYYYMM):



Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

[waterwatch.usgs.gov/index.php](http://waterwatch.usgs.gov/index.php)

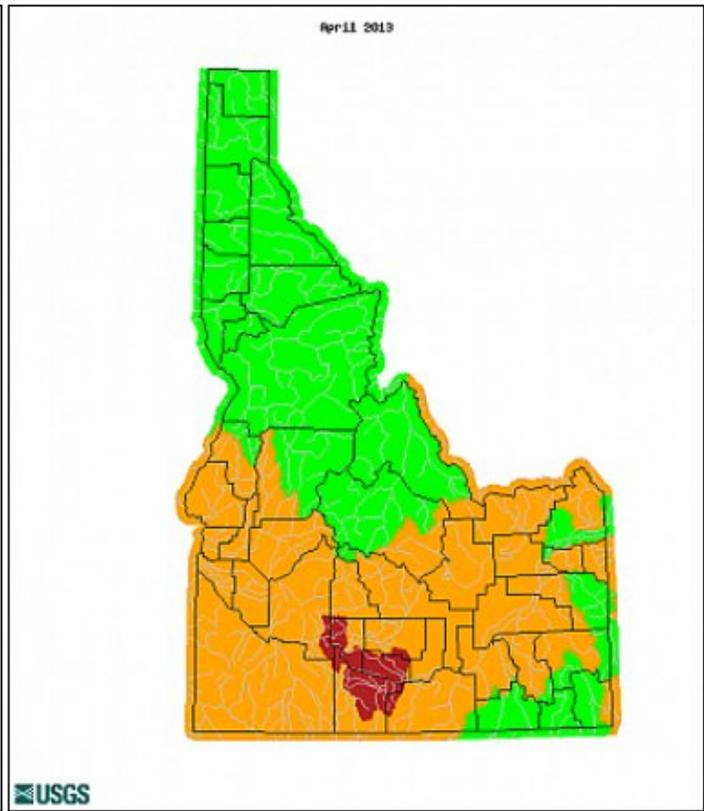
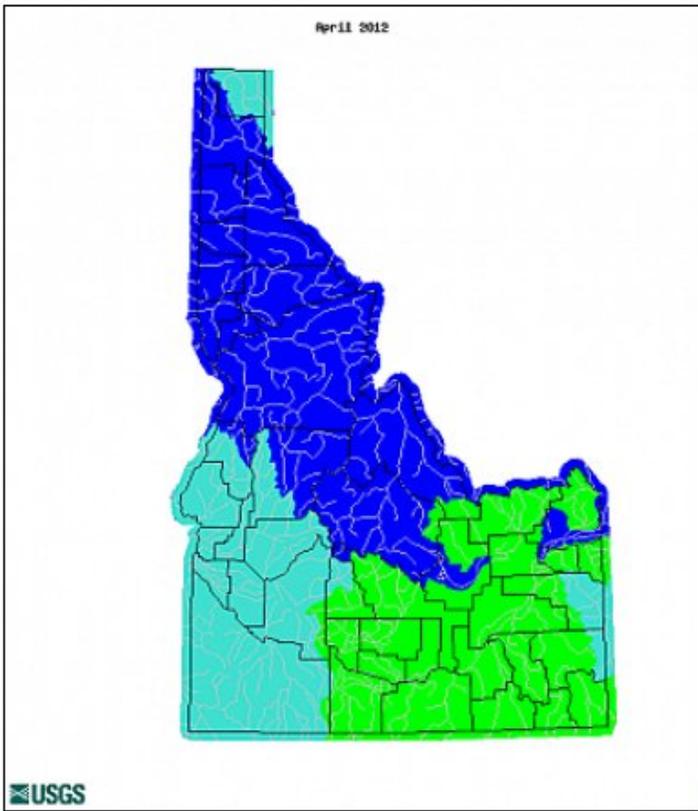
**Historic Streamflow Comparison-April 2012 and April 2013:**

**Comparison of Monthly Streamflow Maps**

Geographic Area: 
 Water Resource Region: 
 Map Type:

Date (YYYYMM):

Date (YYYYMM):



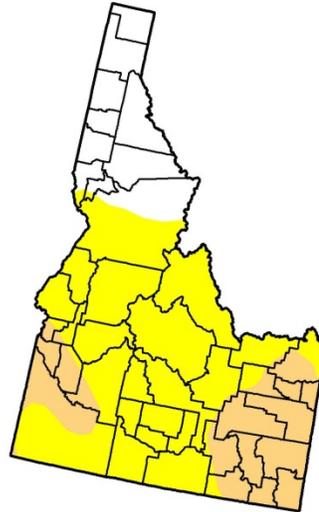
Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

# U.S. Drought Monitor

## Idaho

**May 7, 2013**  
Valid 7 a.m. EST

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	18.91	81.09	22.64	0.00	0.00	0.00
Last Week (04/30/2013 map)	47.86	52.14	22.64	0.00	0.00	0.00
3 Months Ago (02/05/2013 map)	39.63	60.37	36.69	0.52	0.00	0.00
Start of Calendar Year (01/01/2013 map)	45.29	54.71	47.63	0.52	0.00	0.00
Start of Water Year (09/25/2012 map)	15.61	84.39	66.47	1.27	0.00	0.00
One Year Ago (05/01/2012 map)	94.58	5.42	0.00	0.00	0.00	0.00



**Intensity:**

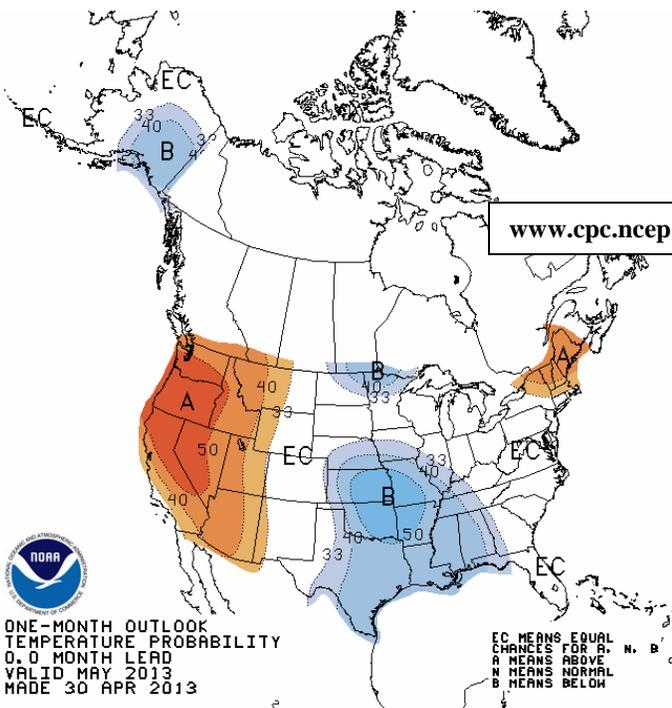
- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



**Released Thursday, May 9, 2013**  
National Drought Mitigation Center,

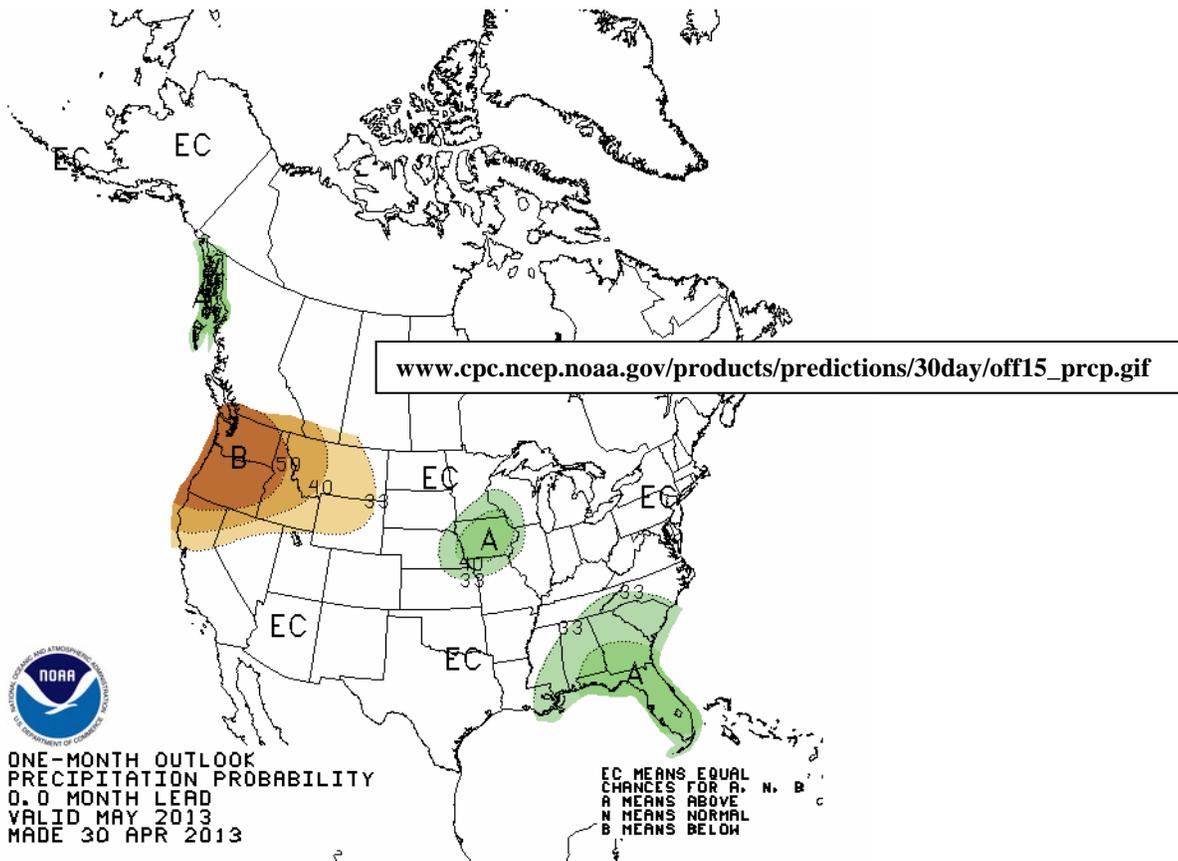
<http://droughtmonitor.unl.edu>



[www.cpc.ncep.noaa.gov/products/predictions/30day/off15\\_temp.gif](http://www.cpc.ncep.noaa.gov/products/predictions/30day/off15_temp.gif)

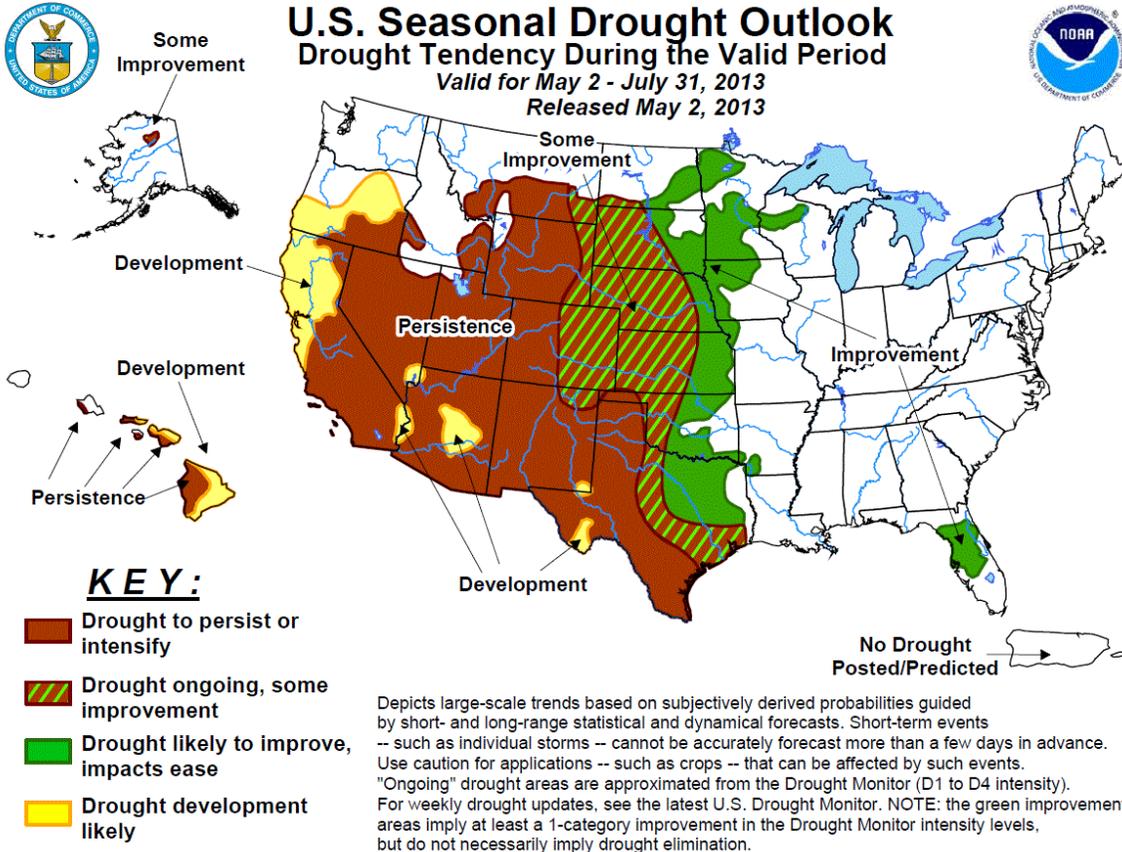
NOAA  
ONE-MONTH OUTLOOK  
TEMPERATURE PROBABILITY  
0.0 MONTH LEAD  
VALID MAY 2013  
MADE 30 APR 2013

EC MEANS EQUAL  
CHANCES FOR A, N, B  
A MEANS ABOVE  
N MEANS NORMAL  
B MEANS BELOW



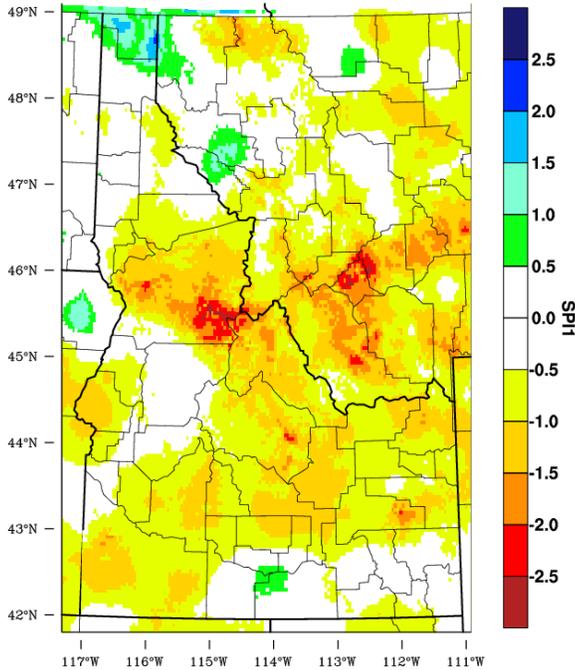
## U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for May 2 - July 31, 2013  
Released May 2, 2013

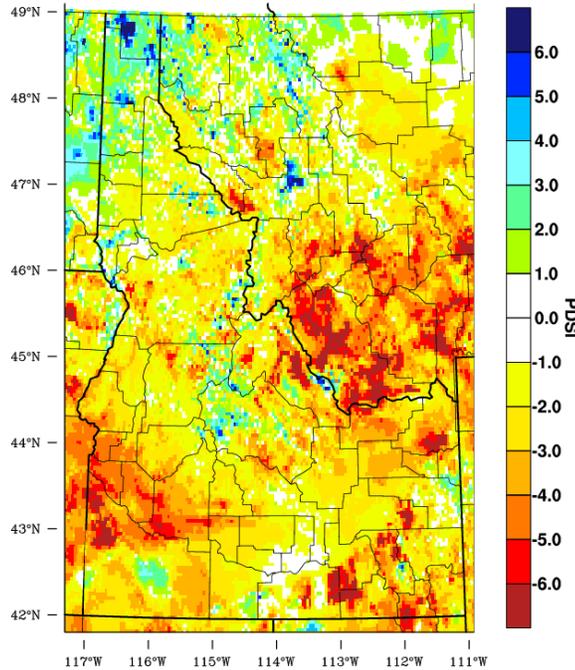


[www.cpc.ncep.noaa.gov/products/expert\\_assessment/season\\_drought.gif](http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.gif)

Idaho - 1 month SPI  
April 2013



Idaho - PDSI  
April 2013

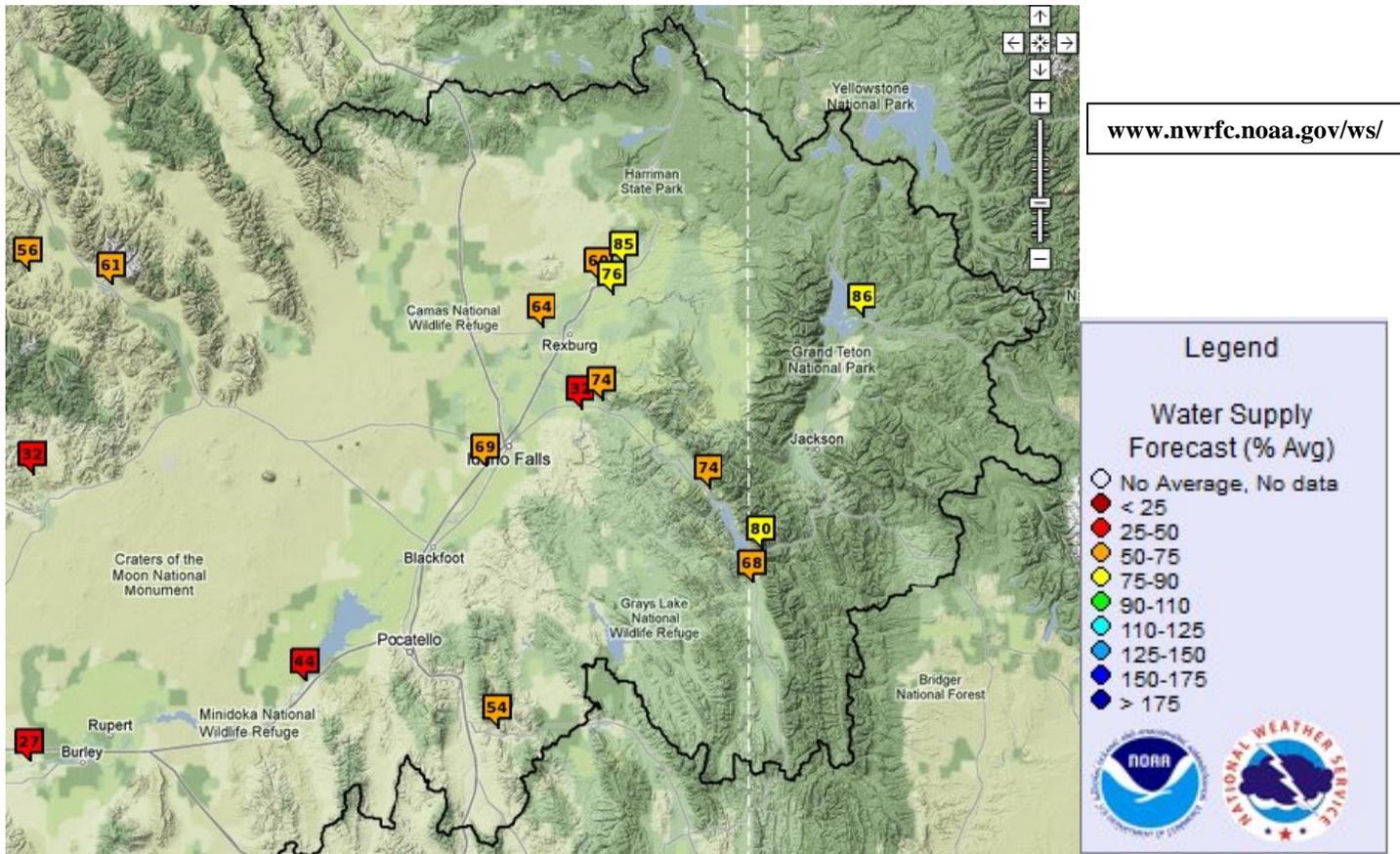


WestWide Drought Tracker - WRCC/UI Data Source - PRISM (Prelim), created 6 MAY 2013 WestWide Drought Tracker - WRCC/UI Data Source - PRISM (Prelim), created 6 MAY 2013

[www.wrcc.dri.edu/monitor/WWDT/index.php?region=id](http://www.wrcc.dri.edu/monitor/WWDT/index.php?region=id)

**Water Supply:**

**NWRFC Water Supply Volume Forecast Map (5/6/13):**



**NWRFC Water Supply Forecasts:**

Ensemble Date: 2013-05-05 Issued Date: 2013-05-06

<u>ID</u>	<u>Forecast Period</u>	<u>Name</u>	<u>90% Exceedence KAF</u>	<u>50% Exceedence KAF</u>	<u>% Normal</u>	<u>10% Exceedence KAF</u>	<u>30 Year Normal</u>
<a href="#"><u>AMFI1</u></a>	APR-SEP	SNAKE - AT AMERICAN FALLS DAM	997	1225	44	1813	2806
<a href="#"><u>ANTI1</u></a>	APR-SEP	HENRYS FORK - AT ST. ANTHONY	443	503	60	613	836
<a href="#"><u>CHEI1</u></a>	APR-SEP	FALLS - NEAR CHESTER	278	317	85	375	375
<a href="#"><u>HALI1</u></a>	APR-SEP	BIG WOOD - AT HAILEY	128	158	60	202	263
<a href="#"><u>HEI11</u></a>	APR-SEP	SNAKE - NEAR HEISE	2569	2805	74	3226	3785
<a href="#"><u>HWRI1</u></a>	APR-SEP	BIG LOST - AT HOWELL RANCH NEAR CHILLY	71.97	100	56	141	180
<a href="#"><u>MACI1</u></a>	APR-SEP	BIG LOST - MACKAY RESERVOIR NEAR MACKAY	65.01	92.28	61	134	151
<a href="#"><u>MAGI1</u></a>	APR-JUL	BIG WOOD - MAGIC DAM	63.93	88.51	35	134	250
<a href="#"><u>MILI1</u></a>	APR-SEP	SNAKE - AT MILNER	269	269	27	269	1006
<a href="#"><u>PALI1</u></a>	APR-SEP	SNAKE - NEAR IRWIN	2369	2595	74	2983	3501
<a href="#"><u>REXI1</u></a>	APR-SEP	HENRYS FORK - AT REXBURG	1027	1151	64	1382	1785
<a href="#"><u>RIRI1</u></a>	APR-SEP	WILLOW CREEK - NEAR RIRIE	21.11	22.18	32	27.02	69.00
<a href="#"><u>SHYI1</u></a>	APR-SEP	SNAKE - NEAR SHELLEY	3043	3486	69	4491	5051
<a href="#"><u>TEAI1</u></a>	APR-SEP	TETON - NEAR ST. ANTHONY	294	347	76	422	457
<a href="#"><u>TOPI1</u></a>	APR-SEP	PORTNEUF - AT TOPAZ	41.63	43.74	54	46.37	81.00
<a href="#"><u>WODI1</u></a>	APR-SEP	LITTLE WOOD - NEAR CAREY	19.8	26.33	32	37.83	83.00

[www.nwrfc.noaa.gov/water\\_supply/ws\\_summary.cgi](http://www.nwrfc.noaa.gov/water_supply/ws_summary.cgi)

**For a table format of the volume forecasts and current runoff for WFO PIH:**

[www.nwrfc.noaa.gov/water\\_supply/ws\\_report.cgi?Type=WFO&Source=Pocatello&Wyr=2013&WyrDate=2013-05-05](http://www.nwrfc.noaa.gov/water_supply/ws_report.cgi?Type=WFO&Source=Pocatello&Wyr=2013&WyrDate=2013-05-05)

**CBRFC Water Supply Forecast Report for Bear River Basin (May 1 Forecast):**

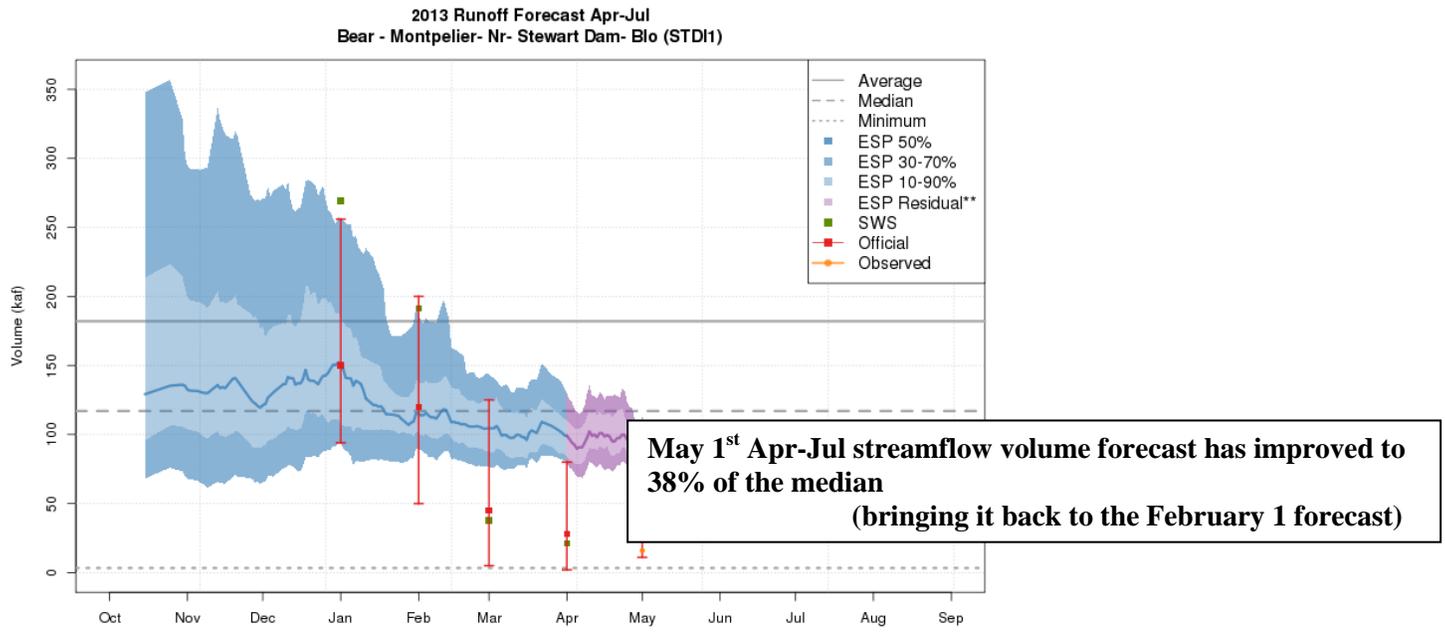
Area: CBRFC Lake Powell Upper Colorado Green San Juan Great Basin Sevier Virgin Lower Colorado  
 Sub-Area: Bear Weber Six Creeks Utah Lake Great Salt Lake  
 Plots: Auto Off On

Water Supply Point %Avg/Median  
 ▲ < 70 ▲ 70-90 ▲ 90-110 ▲ 110-130 ▲ >130 ▲ Regulated

All forecasts and averages are in thousand acre-feet (kaf)  
 MP=Most Probable

NWS ID	Location	Percent Avg/Med	Official Forecast Date	Official Min 90%	Official MP 50%	Official Max 10%	Official Percent Average	Official Percent Median	Average	Median
1	BEAW4 Bear - Woodruff Narrows Rsvr Abv	▲	2013-05-01	50	72	100	60%	65%	121	110
2	BERU1 Bear - Utah-wyoming State Line Nr	▲	2013-05-01	55	75	93	67%	71%	112	106
3	BORW4 Smiths Fork - Border Nr	▲	2013-05-01	42	56	69	63%	70%	89	80
4	HRMU1 Blacksmith Fork - Hyrum Nr Upnl Dam Abv	▲	2013-05-01	14	22	35	51%	76%	43	29
5	LGNU1 Logan - Logan Nr State Dam Abv	▲	2013-05-01	45	69	90	62%	71%	111	97
6	PRZU1 Little Bear - Paradise	▲	2013-05-01	5	14	26	30%	27%	47	51
7	STDI1 Bear - Montpelier Nr Stewart Dam Blo	▲	2013-05-01	11	45	75	25%	38%	182	117

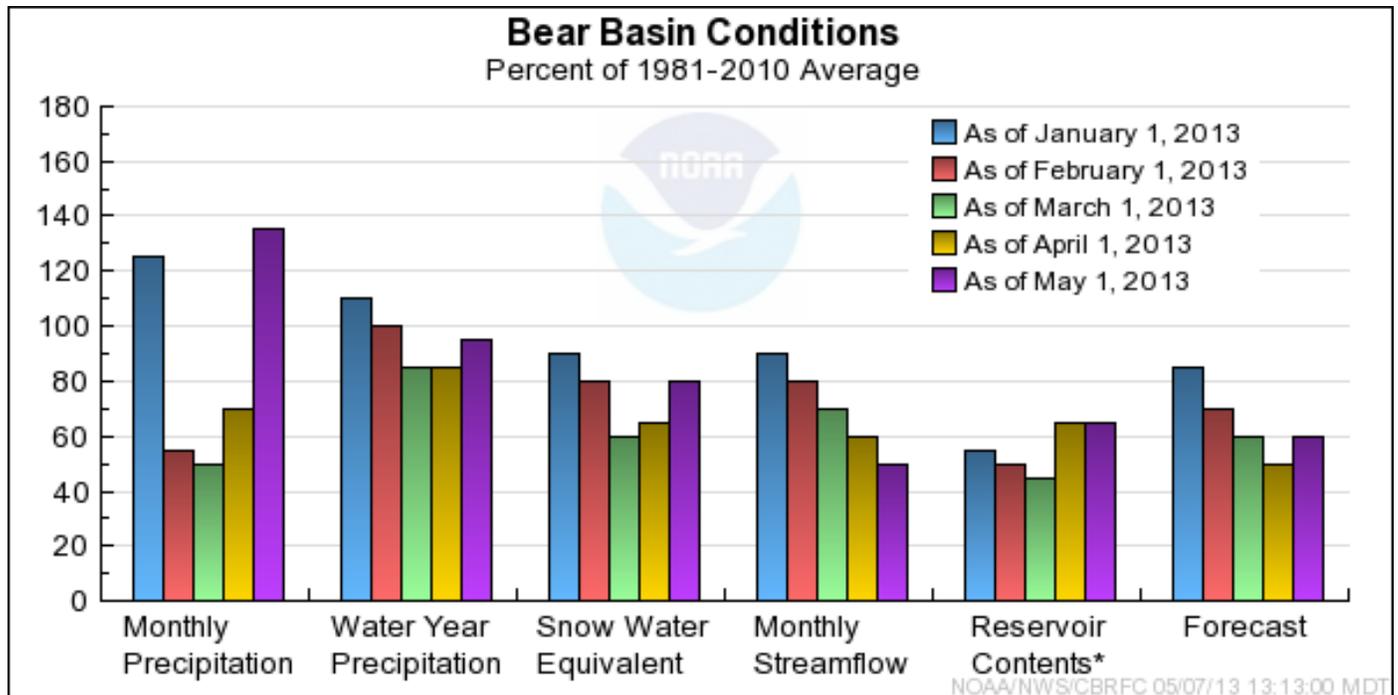
[www.cbrfc.noaa.gov/gmap/list/list.php?search=&point=all&plot=&sort=wsupids&type=wsup&basin=5&subbasin=0&espqpf=0&espdist=empirical](http://www.cbrfc.noaa.gov/gmap/list/list.php?search=&point=all&plot=&sort=wsupids&type=wsup&basin=5&subbasin=0&espqpf=0&espdist=empirical)



Plot Created 2013-05-07 14:49:20, Lastest ESP Run from 2013-05-06, CBRFC / NWS / NOAA  
 Maximum of 606.5 in 1986, Minimum of 3.3 in 1934, Average/Median for 1981-2010.  
 \*\*Residual forecasts include observed

[www.cbrfc.noaa.gov/rmap/wsups/point.php?id=STDI1&mode=plot&qpf=0&espflag=&local=0](http://www.cbrfc.noaa.gov/rmap/wsups/point.php?id=STDI1&mode=plot&qpf=0&espflag=&local=0)

**Bear River Basin Conditions:**



[www.cbrfc.noaa.gov/wsup/pub2/graph/png/br.cond.2013.5.png](http://www.cbrfc.noaa.gov/wsup/pub2/graph/png/br.cond.2013.5.png)

**NRCS-NWCC Water Supply Forecast Report (May 1 Forecast):**

Final NRCS Streamflow Forecasts-May 1, 2013

Note: change in forecast period to the May-July and May-September periods.

USDA NRCS National Water & Climate Center

\* DATA CURRENT AS OF: 5/02/13 09:42:50

**UPPER SNAKE RIVER BASIN**

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Henrys Fork nr Ashton (2)	MAY-JUL	320	77	415	355	285	240	415
	MAY-SEP	460	77	575	505	415	355	595
Henrys Fork nr Rexburg (2)	MAY-JUL	980	84	1150	1050	910	805	1170
	MAY-SEP	1330	85	1530	1410	1250	1130	1560
Falls R nr Ashton (2)	MAY-JUL	265	84	330	290	240	210	315
	MAY-SEP	320	83	395	350	290	255	385
Teton R nr Driggs	MAY-JUL	105	78	133	116	95.0	80.0	134
	MAY-SEP	137	79	174	152	123	104	173
Teton R nr St. Anthony	MAY-JUL	255	80	320	280	230	199	320
	MAY-SEP	315	81	390	345	285	245	390
Snake R at Flagg Ranch	MAY-JUL	415	98	480	440	390	350	425
	MAY-SEP	455	97	530	485	425	380	470
Snake R nr Moran (1,2)	MAY-JUL	625	89	770	670	580	480	700
	MAY-SEP	700	90	865	750	650	535	775
Pacific Ck At Moran	MAY-JUL	145	95	188	162	128	102	152
	MAY-SEP	153	95	197	171	135	109	161
Buffalo Fork ab Lava nr Moran	MAY-JUL	245	93	290	265	225	198	265
	MAY-JUL	245	93	290	265	225	198	265

Snake R nr Alpine (1,2)	MAY-JUL	1640	84	1990	1750	1530	1290	1960
	MAY-SEP	1860	82	2290	1990	1730	1430	2280
Greys R Nr Alpine	MAY-JUL	235	89	280	255	215	190	265
	MAY-SEP	280	89	335	300	260	225	315
Salt R Nr Etna	MAY-JUL	210	86	290	240	178	131	245
	MAY-SEP	270	87	365	310	230	174	310
Snake R nr Irwin (1,2)	MAY-JUL	2230	84	2630	2360	2100	1830	2660
	MAY-SEP	2600	83	3060	2740	2460	2140	3150
Snake R nr Heise (2)	MAY-JUL	2370	84	2710	2510	2230	2030	2840
	MAY-SEP	2790	82	3180	2950	2630	2400	3390
Willow Ck nr Ririe (2)	MAY-JUL	25.0	58	55.0	37.0	12.8	0.90	43.0
Blackfoot R ab Res nr Henry	MAY-JUN	25.0	60	49.0	34.0	17.5	8.90	42.0
Snake R nr Blackfoot (1,2)	MAY-JUL	1570	94	3060	2040	1100	75.0	1670
	MAY-SEP	1440	94	3280	2010	865	76.0	1530
Portneuf R at Topaz	MAY-JUL	36.0	72	48.0	41.0	32.0	25.0	50.0
	MAY-SEP	48.0	72	63.0	54.0	43.0	35.0	67.0
Snake R at Neeley (1,2)	MAY-JUL	1990	95	3570	2480	1500	405	2100
	MAY-SEP	2150	95	3190	2480	1820	1110	2260

#### WOOD AND LOST RIVER BASINS

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Big Wood R at Hailey (1)	MAY-JUL	133	65	210	156	110	58.0	205
	MAY-SEP	153	65	240	180	126	67.0	235
Big Wood R ab Magic Res	MAY-JUL	71	48	140	99.0	43.0	2.00	147
	MAY-SEP	77	48	140	102	52.0	14.0	159
Camas Ck nr Blaine	MAY-JUL	13.3	38	36.0	21.0	7.30	1.70	35.0
	MAY-SEP	13.8	38	37.0	22.0	7.70	1.90	36.0
Big Wood R bl Magic Dam (2)	MAY-JUL	87	49	160	117	57.0	14.0	176
	MAY-SEP	91	48	168	122	60.0	14.0	191
Little Wood R ab High Five Ck	MAY-JUL	26.0	50	43.0	32.0	20.0	13.2	52.0
	MAY-SEP	29.0	50	48.0	36.0	23.0	14.8	58.0
Little Wood R near Carey (2)	MAY-JUL	27.0	49	45.0	34.0	19.6	8.70	55.0
	MAY-SEP	30.0	49	50.0	38.0	22.0	10.4	61.0
Big Lost R at Howell Ranch	MAY-JUL	100	68	139	116	84.0	61.0	148
	MAY-SEP	114	68	159	132	96.0	69.0	169
Big Lost R Below Mackay Res	MAY-JUL	66	60	107	83.0	49.0	25.0	111
	MAY-SEP	87	63	137	107	67.0	37.0	138
Little Lost R nr Howe	MAY-JUL	16.2	68	23.0	18.7	13.9	10.9	24.0
	MAY-SEP	20.0	67	28.0	23.0	17.1	13.3	30.0

#### SOUTHSIDE SNAKE RIVER BASINS

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Goose Ck ab Trapper Ck nr Oakley	MAY-JUL	11.4	86	18.9	14.4	8.40	3.90	13.2
	MAY-SEP	12.5	86	21.0	15.8	9.2	4.40	14.5
Trapper Ck nr Oakley	MAY-JUL	3.40	92	4.50	3.80	3.00	2.30	3.70
	MAY-SEP	4.50	92	5.80	5.00	4.00	3.20	4.90
Oakley Res Inflow (2)	MAY-JUL	14.8	88	23.0	18.2	11.4	6.30	16.9
	MAY-SEP	17.0	88	26.0	21.0	13.3	7.70	19.4
Salmon Falls Ck nr San Jacinto	MAY-JUL	31.0	63	52.0	39.0	24.0	15.4	49.0
	MAY-SEP	35.0	66	57.0	43.0	28.0	18.5	53.0

#### BEAR RIVER BASIN

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Bear R nr UT-WY State Line	APR-JUL	70	63	93	79	61	47	112
	APR-SEP	76	62	101	86	66	51	123
	MAY-JUL	64	62	85	72	56	43	104
	MAY-SEP	70	60	93	79	61	47	116
Bear R ab Res nr Woodruff	APR-JUL	60	50	91	73	47	29	121
	APR-SEP	63	49	94	76	50	32	128
	MAY-JUL	50	48	79	62	38	21	105
	MAY-SEP	53	48	82	65	41	24	111
Big Ck nr Randolph	APR-JUL	1.53	40	2.9	2.1	0.95	0.45	3.8
	MAY-JUL	1.20	39	2.6	1.78	0.62	0.124	3.1
Smiths Fk nr Border	APR-JUL	55	62	68	60	50	42	89
	APR-SEP	62	60	78	69	55	46	104
	MAY-JUL	49	61	62	54	44	36	80
	MAY-SEP	56	59	72	63	49	40	95
Bear R bl Stewart Dam	APR-JUL	35	19	122	70	9.2	1.83	183
	APR-SEP	35	17	127	72	8.2	2.0	205
	MAY-JUL	28	19	97	56	8.8	1.46	146
	MAY-SEP	29	17	111	62	5.1	1.69	169

Max is 90 percentile and min is 10 percentile except with footnote 1 below.  
Averages are for the 1971-2000 period.  
All volumes are in KAF.

footnotes:

- 1) max is 95 percentile and min is 5 percentile
- 2) streamflow is adjusted for upstream storage

<ftp://ftp-fc.sc.egov.usda.gov/ID/snow/watersupply/forecasts/ID05.txt>

cc:

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