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| <b>NWS Form E-5</b><br>U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC<br>ADMINISTRATION NATIONAL WEATHER SERVICE<br><br><b>MONTHLY REPORT OF HYDROLOGIC CONDITIONS</b>                      | <b>HYDROLOGIC SERVICE AREA:</b><br>Pocatello, Idaho                |
|  | <b>REPORT FOR:</b><br><br><b>MONTH:</b> February <b>YEAR:</b> 2013 |
| <b>TO:</b> Hydrologic Operations Division, W/OH2<br>National Weather Service<br>National Oceanic and Atmospheric Administration<br>Silver Spring, Maryland 20910   | <b>SIGNATURE</b><br><br>Corey Loveland<br>Service Hydrologist      |
| <b>DATE:</b> March 8, 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:**

The trend of receiving less than normal precipitation has continued through the month of February over the entire state. In fact, it appears that only half to one inch of precipitation has fallen in the mountainous regions of the Hydrologic Service Area this past month. Again, each month's total precipitation accumulation has gotten progressively drier since the beginning of the water supply season in October. It appears we are about 1.5 inches in deficit and about 10-25 percent of normal in the mountains for this time of year. Looking at the current snow water equivalent situation, some SNOTEL sites slightly increased in the Snake River headwaters, south of Pocatello and northwest of the lower Bear River basin and in south central Idaho. This can be attributed to some passing winter storms over the past month, but all other stations decreased in swe. Looking at basin filled averaged swe content, the Goose Creek and Salmon Falls basin increased slightly, but again, every other basin decreased in swe. With the continuation of receiving less than normal precipitation, it is starting to appear that we are trending to below normal snowpack conditions, we are not desperate yet, just needing March and/or April to bring in some more snow to carry us through.

The El Niño neutral pattern is forecast to continue probably through at least the mid-year timeframe. The Bear River basin was at 70-89% of average for monthly precipitation during January, but has since reduced to 50-69% for the month of February. The upper Snake River basin shares the same plight as it was below 50% normal during February and was 70-90% for January. Again, it is anyone's guess if this dry pattern continues throughout the snow accumulation season. There are storms in the horizon which will hopefully add to the snowpack. We do have a few months to go, so we can still be hopeful.

The highest stream volume forecast in the HSA continues to be the Big Lost River at Mackay, which has dropped 13% and is currently at 97% of average for the Apr-Sep forecast (ranked 23 out of 43 years). The lowest streamflow forecast continues to be Willow Creek at Ririe dropping 9% and is at 22% of average (ranked 27 of 27-driest). The SNOTEL site continuing to have the greatest amount of swe is the Stickney Mill site (elevation 7430 ft) at 122% of average (dropping 26% from last month). The site with the lowest swe value (and a new record low) is Giveout in the Bear River basin (see graphic below). Looking at swe value changes at SNOTEL sites in February, many sites increased around 1 to 3 inches during the month, but many did not accumulate swe (26 sites including western WY). The Bear River basin SNOTEL sites currently range 52 to 84% of average for swe. The Bear River basin is not faring as good this part of the season as indicated by the forecast point on the Bear River at Montpelier near Stewart Dam, which is currently at 25% of average for its

streamflow forecast-the February 1<sup>st</sup> volume forecast was at 66% of average! As far as the one-month Climate Prediction Center outlook is concerned, we stand to have a 40-50% chance of below normal temperatures for eastern Idaho and the three-month CPC forecast indicates a 33-40% chance of below normal precipitation over all of Idaho.

Of the data available for the month, the highest 24-hour precipitation total was 1.19 inches on the 18<sup>th</sup> day of the month at the Driggs station. The Ashton station received the greatest recorded monthly total snow accumulation at 10.0 inches on the 23<sup>rd</sup> day of February. The station reaching the highest temperature was the Hagerman 2SW station at 55°F on the 16<sup>th</sup>. The station with the lowest recorded temperature was at the Stanley station at a very cold -21°F on both the 18<sup>th</sup> and 19<sup>th</sup>.

For the month of February, reservoirs increased capacity overall by around 7% (close to January and December's increase) in the upper Snake River basin system (an increase of about 283 KAF over the month and sitting at 65% of capacity overall). Compared to last year at this time, it was about 81% of capacity. Most notable change (again) was the American Falls reservoir with an increase of 14% of capacity and the Little Wood reservoir increasing 10% of capacity. Both Lake Walcott and Milner reservoir dropped 1% of capacity over the month. Jackson Lake, Blackfoot reservoir and Bear Lake are currently at 143, 127, and 127 percent of average capacity, respectively, according to NRCS data. Overall, the area's reservoir levels are currently sitting fairly well for this part of the accumulation season with room to capture additional water.

Monthly average streamflow has appeared to have slightly increased in some areas in the HSA from fluctuating temperatures resulting in freeze-thawing of stream gages. Again, with the cold temperatures, many stream gages are iced up giving erroneous readings. The upper Snake basin in general is 68 to 86% of average for the Apr-Sept streamflow volume forecasts. The Big Lost and Little Wood River basins are faring the best, which are currently near average for the volume forecast. Well below average spring and summer Apr-July streamflow volumes are forecast throughout the Bear River basin. As stated above, the majority of the Bear River basin has received much less than average precipitation recently and is currently the area of most concern.

Drought categories have improved slightly across the state in the category where no drought conditions exist and in the D0 through D2 categories (Abnormally Dry, Moderate and Severe Drought). The category of no drought conditions increased by about 10% of area from last month's assessment, the category D0 decreased by about 10% of area, category D1 decreased by 14% of area and the D2 category was eliminated this month. The U.S. Seasonal Drought Outlook forecasts a persistence of drought conditions throughout most of eastern Idaho, which has remained about the same since last month's assessment.

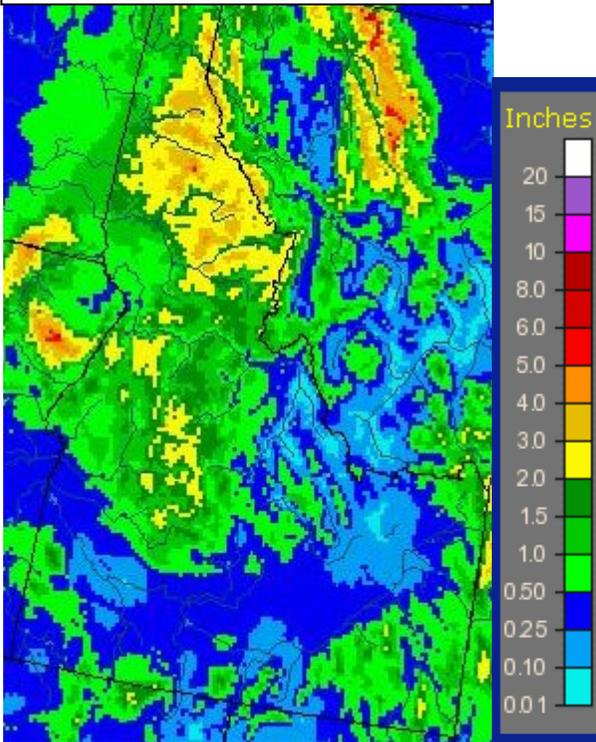
According to the Idaho NRCS Snow Survey March 1<sup>st</sup> Idaho Surface Water Supply Index (SWSI); combining streamflow volume forecasts and reservoir storage (where appropriate), rates the greatest valued basin for water supply within the HSA as being the Little Wood River basin (it was the Big Lost last month). The basin was reduced to a SWSI value of 0.8 (near normal water supply). The lowest ranked basin within the HSA is the Teton basin (the Oakley basin last month) which is rated at -2.0 (below normal water supply). From a water supply stance, the hydrologic basins within the HSA are currently tracking near to below normal for mountain snowpack conditions. Again, an increase in snowpack in the next couple of months would be welcome to break the current trend.

For more information on the March 1<sup>st</sup> Idaho Water Supply Outlook, please go to:  
<ftp://ftp-fc.sc.egov.usda.gov/ID/snow/watersupply/bor/2013/borid313.pdf>

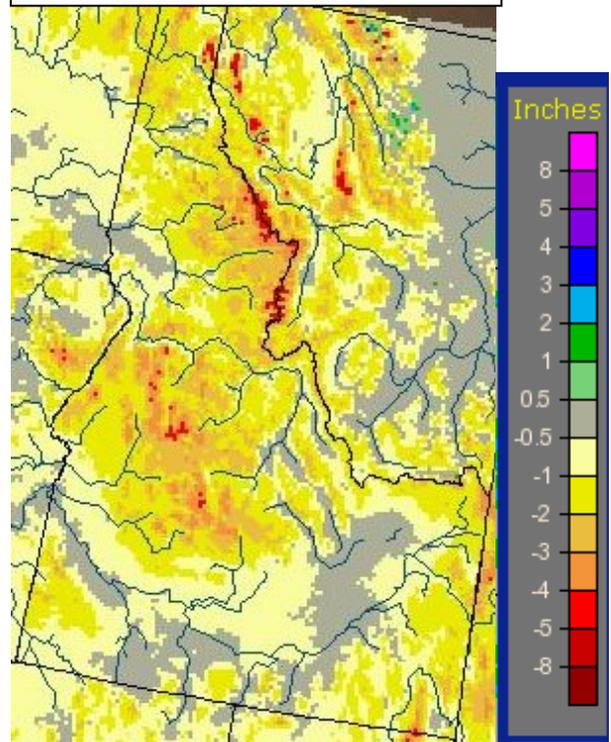
See NWRFC, CBRFC, and NRCS water supply stream volume forecasts below.

**Precipitation:**

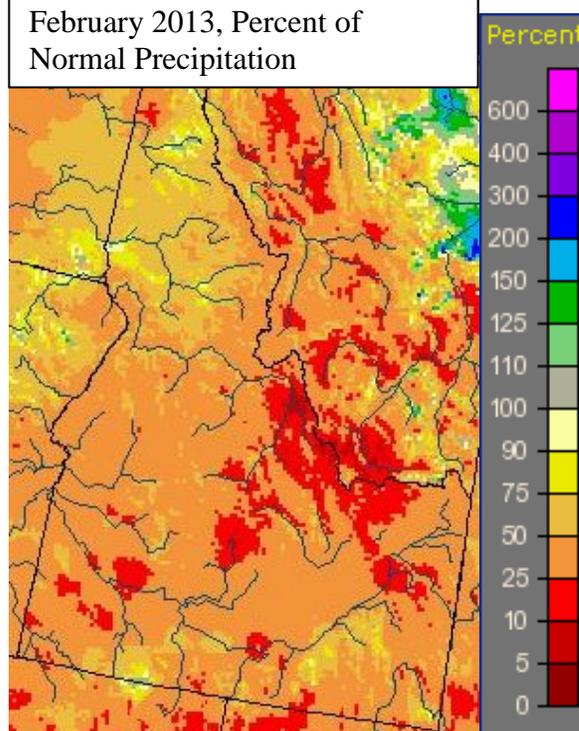
February 2013, Observed  
Precipitation



February 2013, Departure from  
Normal Precipitation

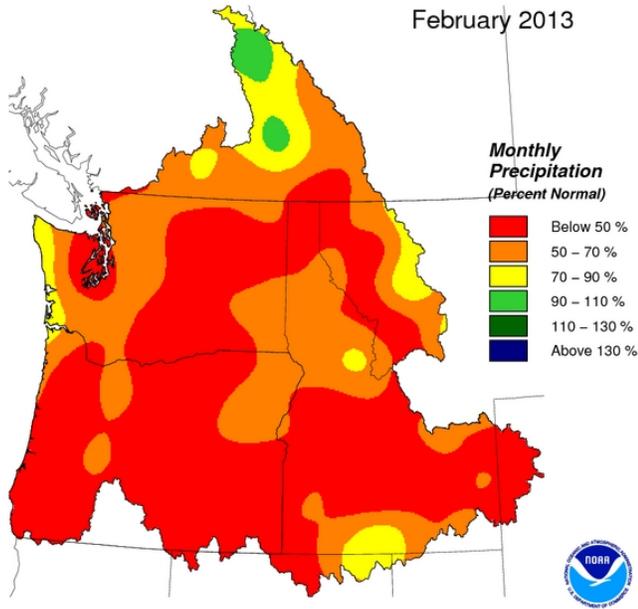


February 2013, Percent of  
Normal Precipitation



<http://water.weather.gov/precip/index.php>

Monthly Precipitation  
February 2013

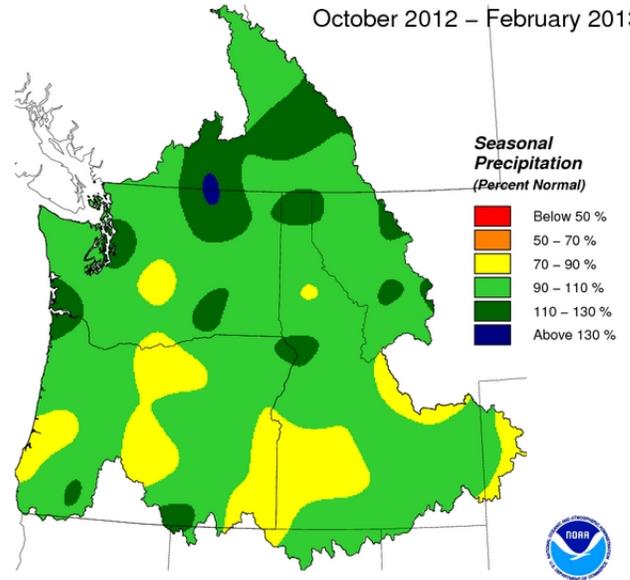


Creation Time: Tue, Mar 5, 2013

Northwest River Forecast Center

[http://www.nwrhc.noaa.gov/WAT\\_RES\\_prod/pp.monthly.201302.jpg](http://www.nwrhc.noaa.gov/WAT_RES_prod/pp.monthly.201302.jpg)

Seasonal Precipitation  
October 2012 – February 2013



Creation Time: Tue, Mar 5, 2013

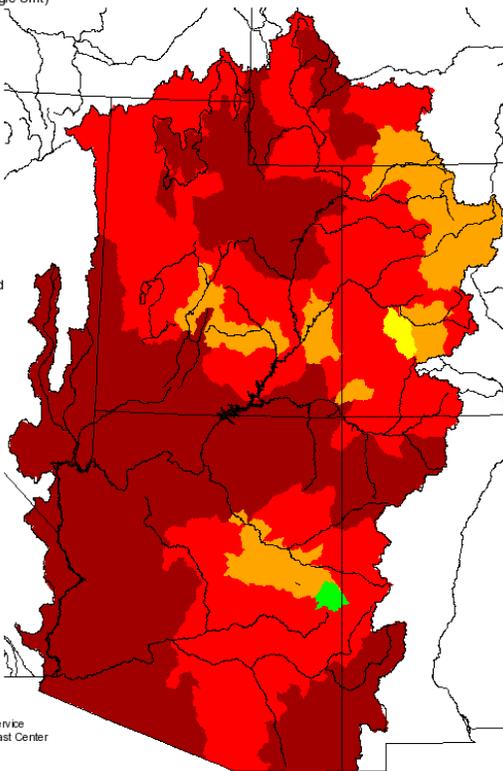
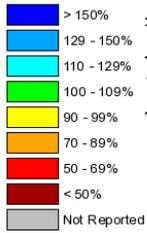
Northwest River Forecast Center

[http://www.nwrhc.noaa.gov/WAT\\_RES\\_prod/pp.seasonal.201302.jpg](http://www.nwrhc.noaa.gov/WAT_RES_prod/pp.seasonal.201302.jpg)

Monthly Precipitation for February 2013

(Averaged by Hydrologic Unit)

% Average

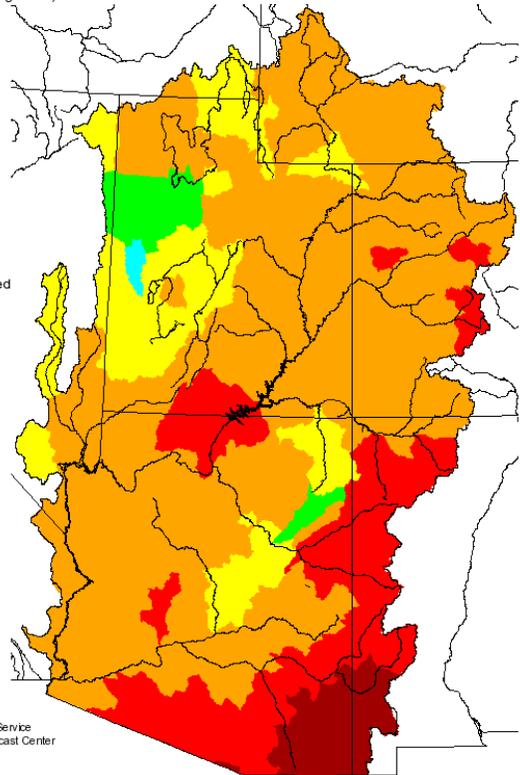
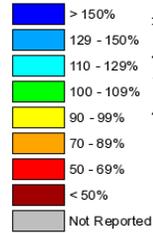


Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

Seasonal Precipitation, October 2012 - February 2013

(Averaged by Hydrologic Unit)

% Average



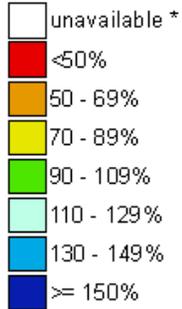
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

<http://www.cbrfc.noaa.gov/wsop/pub2/outlook3.php?region=sl&month=3&year=2013#precip>

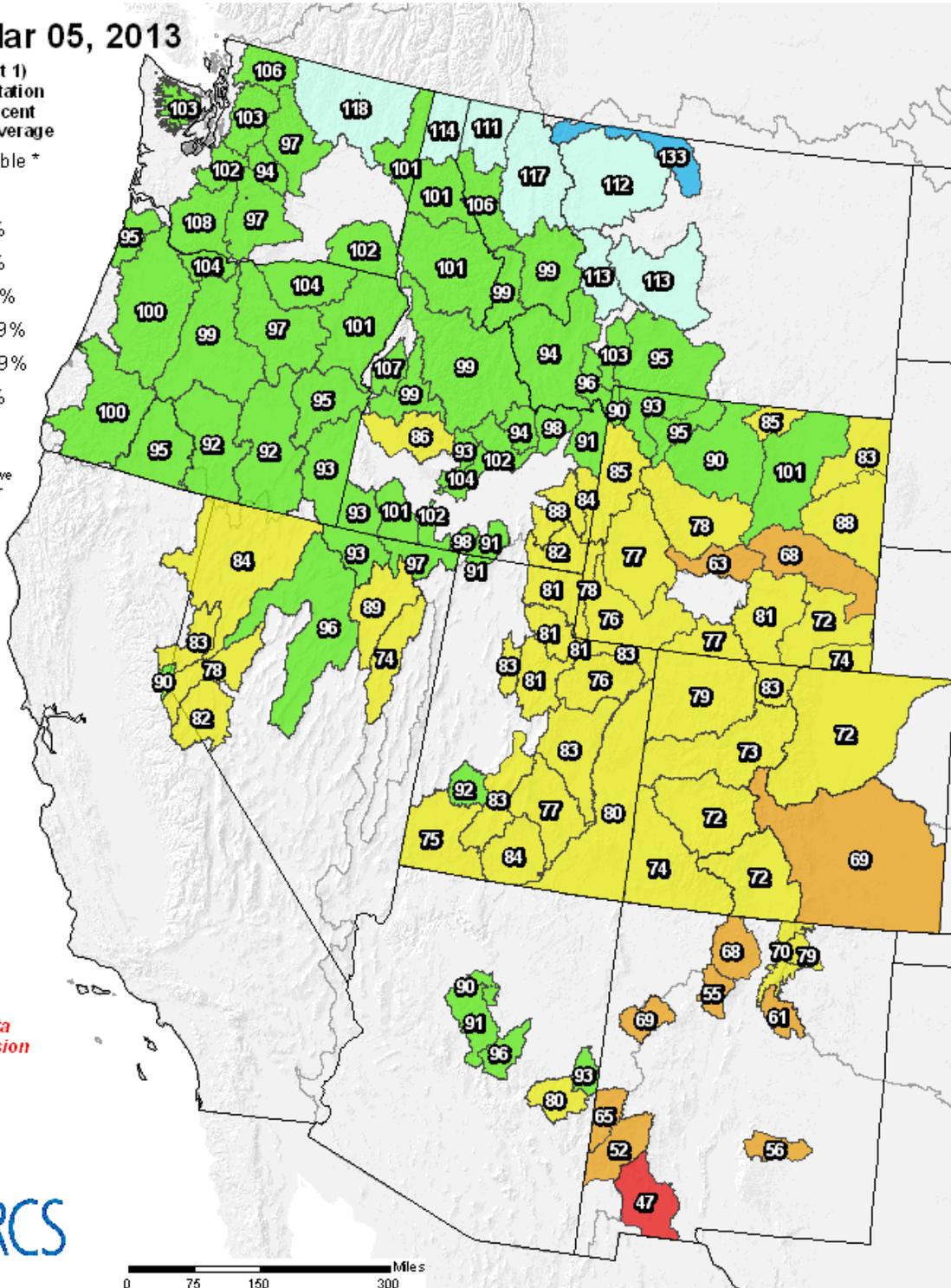
# Westwide SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal

Mar 05, 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



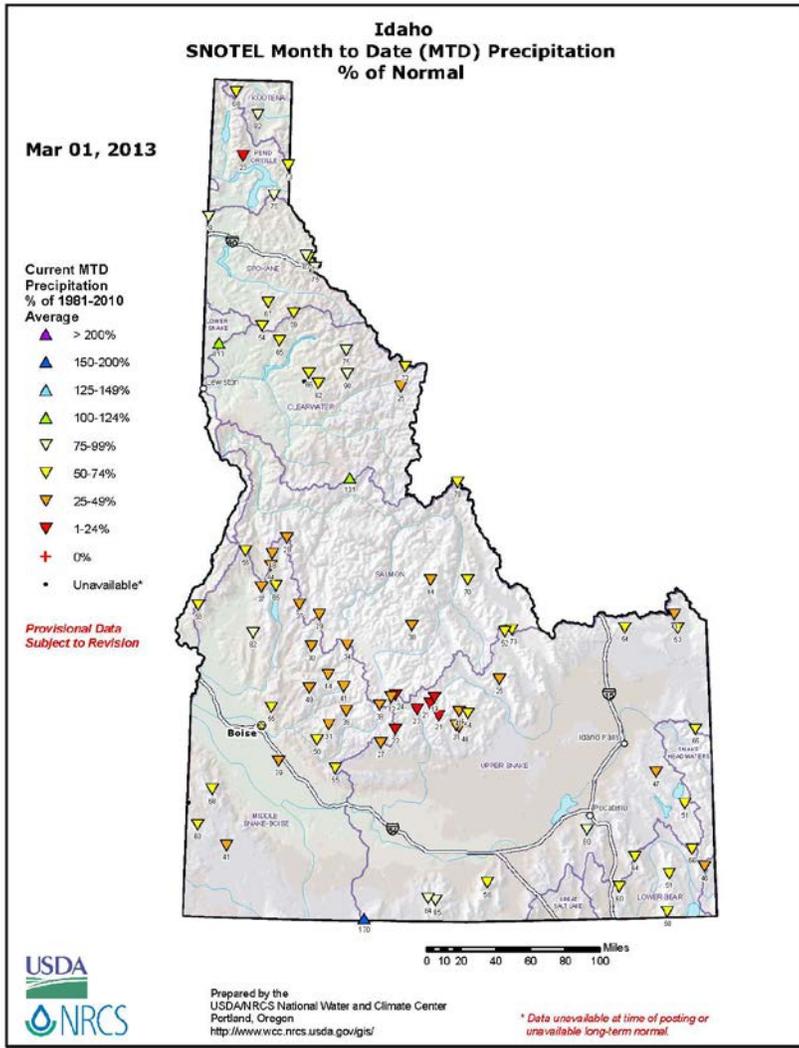
Provisional data subject to revision



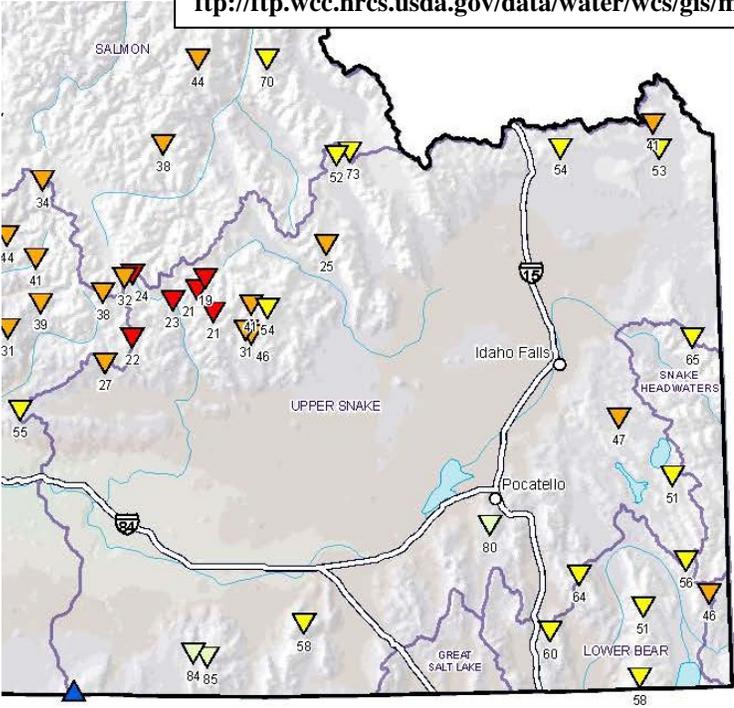
The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

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

[http://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)



[ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/gis/maps/1stmonth/id/prec/id\\_mtdprecpcnormal\\_Mar.pdf](ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/gis/maps/1stmonth/id/prec/id_mtdprecpcnormal_Mar.pdf)

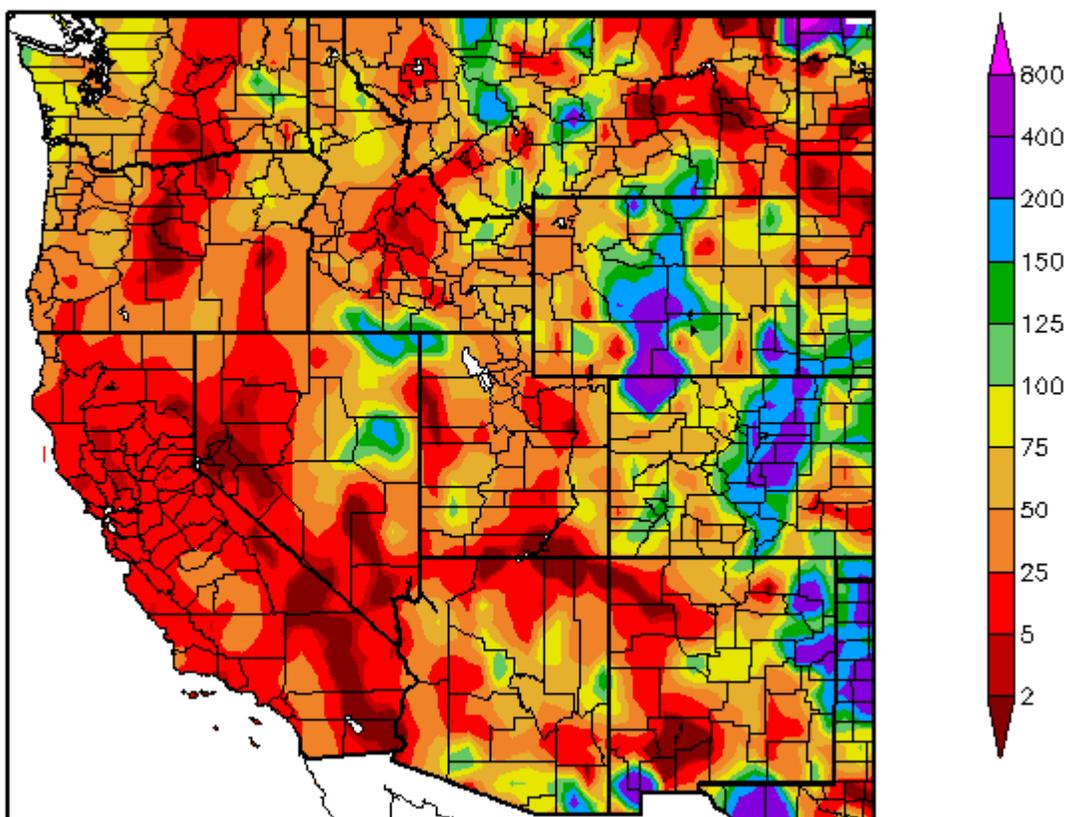


**SNOTEL MTD % of Normal  
Precipitation for end of February  
2013 (image below is cropped from above image)**

**Note:** The ENSO Neutral climate pattern is forecast to continue through the spring and is suspected to continue through the summer as well. (see below graphic).

As compared to January's Percent of Normal precipitation, February was very lacking throughout Idaho (especially the central Sawtooth Mountains) and just east of the Cascades in Oregon and Washington. Note the above normal precipitation in the extreme south central Idaho area near the border of Nevada and Utah.

## Percent of Normal Precipitation (%) 2/1/2013 - 2/28/2013



Generated 3/2/2013 at HPRCC using provisional data.

Regional Climate Centers

[http://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

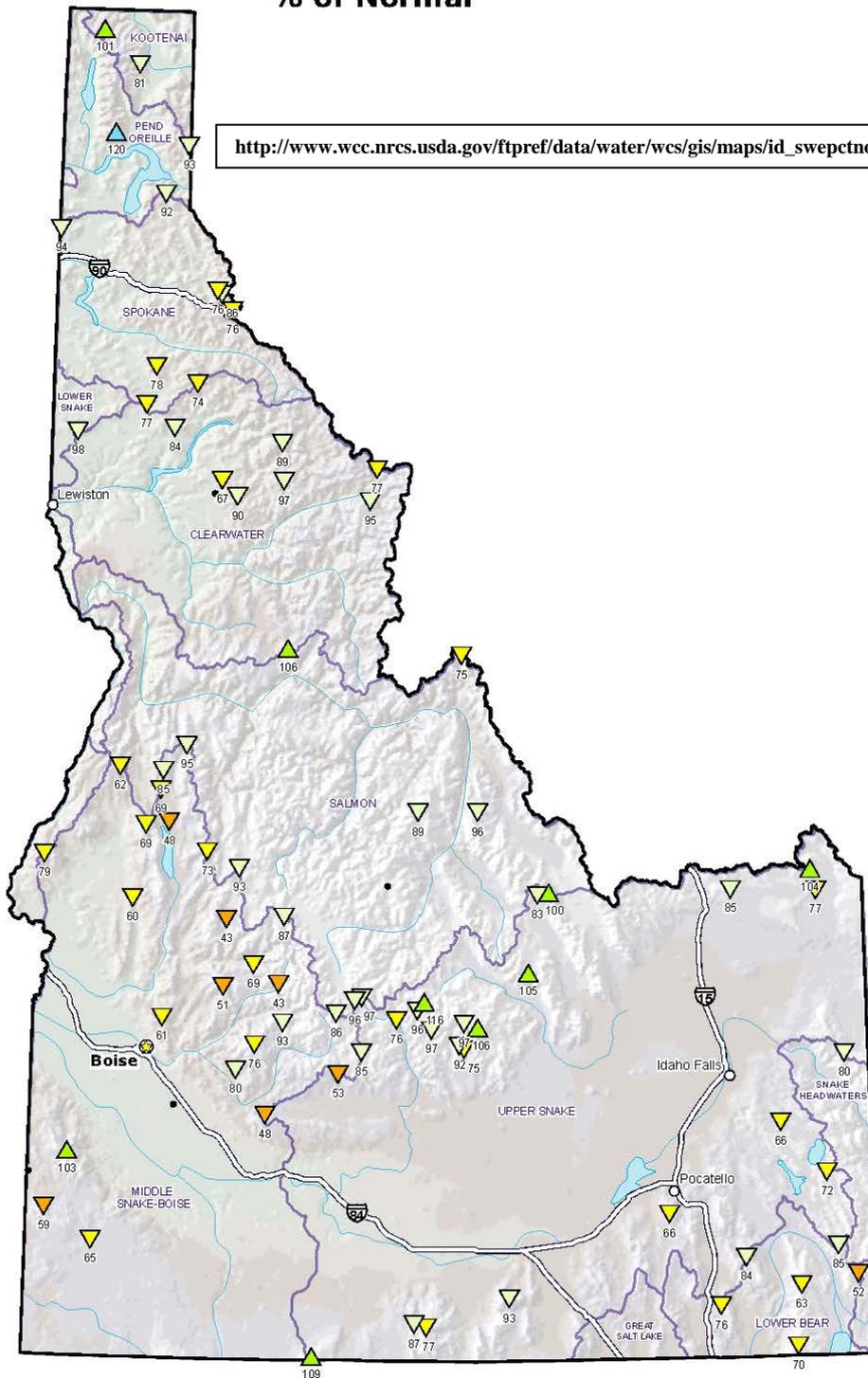
**Mar 04, 2013**

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

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

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

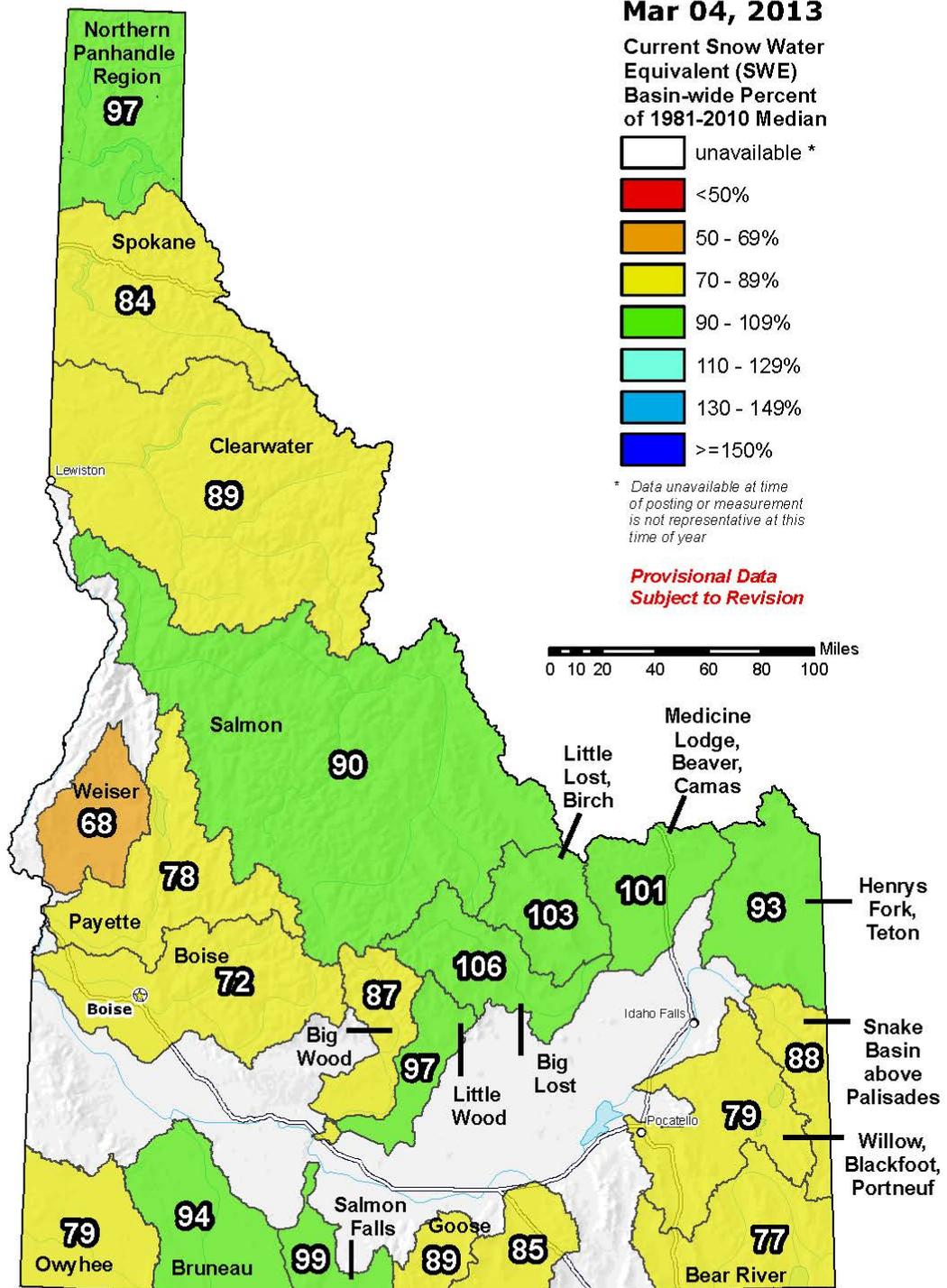
*Provisional Data  
Subject to Revision*



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.*

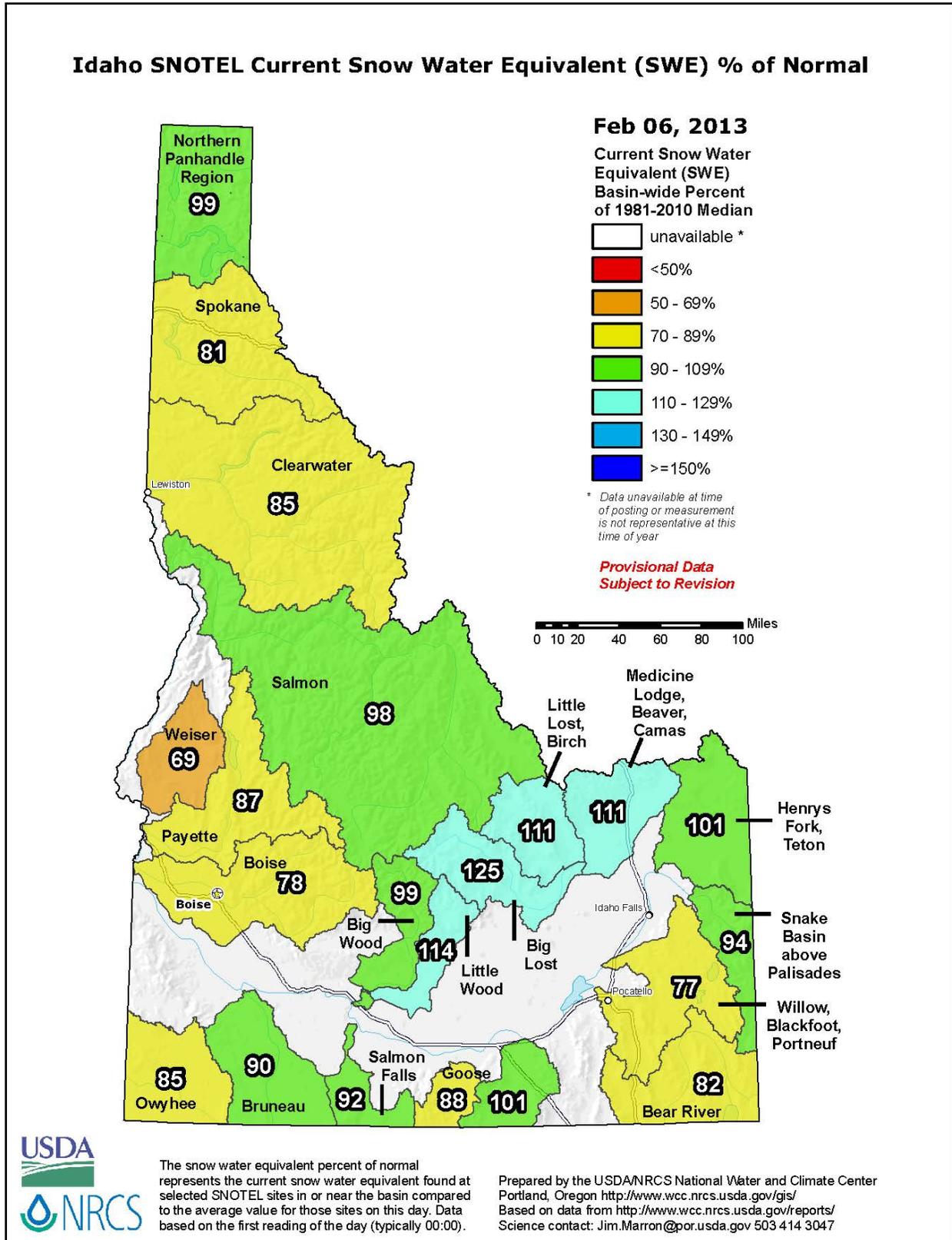
# Idaho SNOTEL Current Snow Water Equivalent (SWE) % of Normal



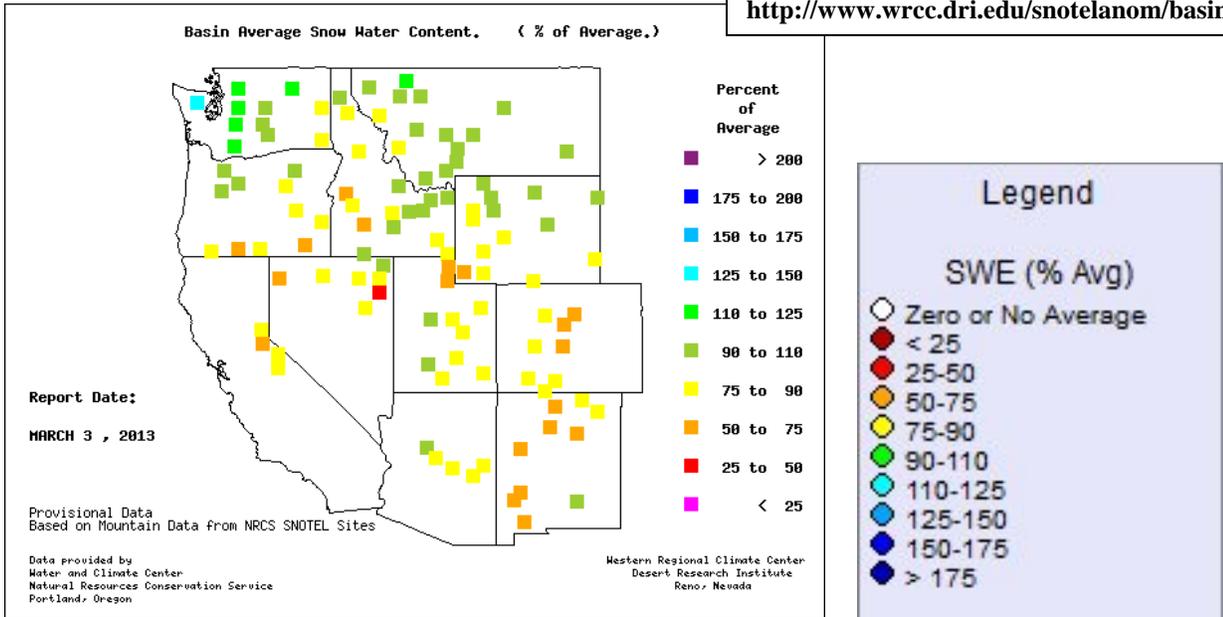
The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by the USDA/NRCS National Water and Climate 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

Once again, an overall reduction in swe percents of normal (basin filled) over the majority of the HSA basins compared to last month with the exception of the Salmon Falls/Goose Crk Basins (see below):

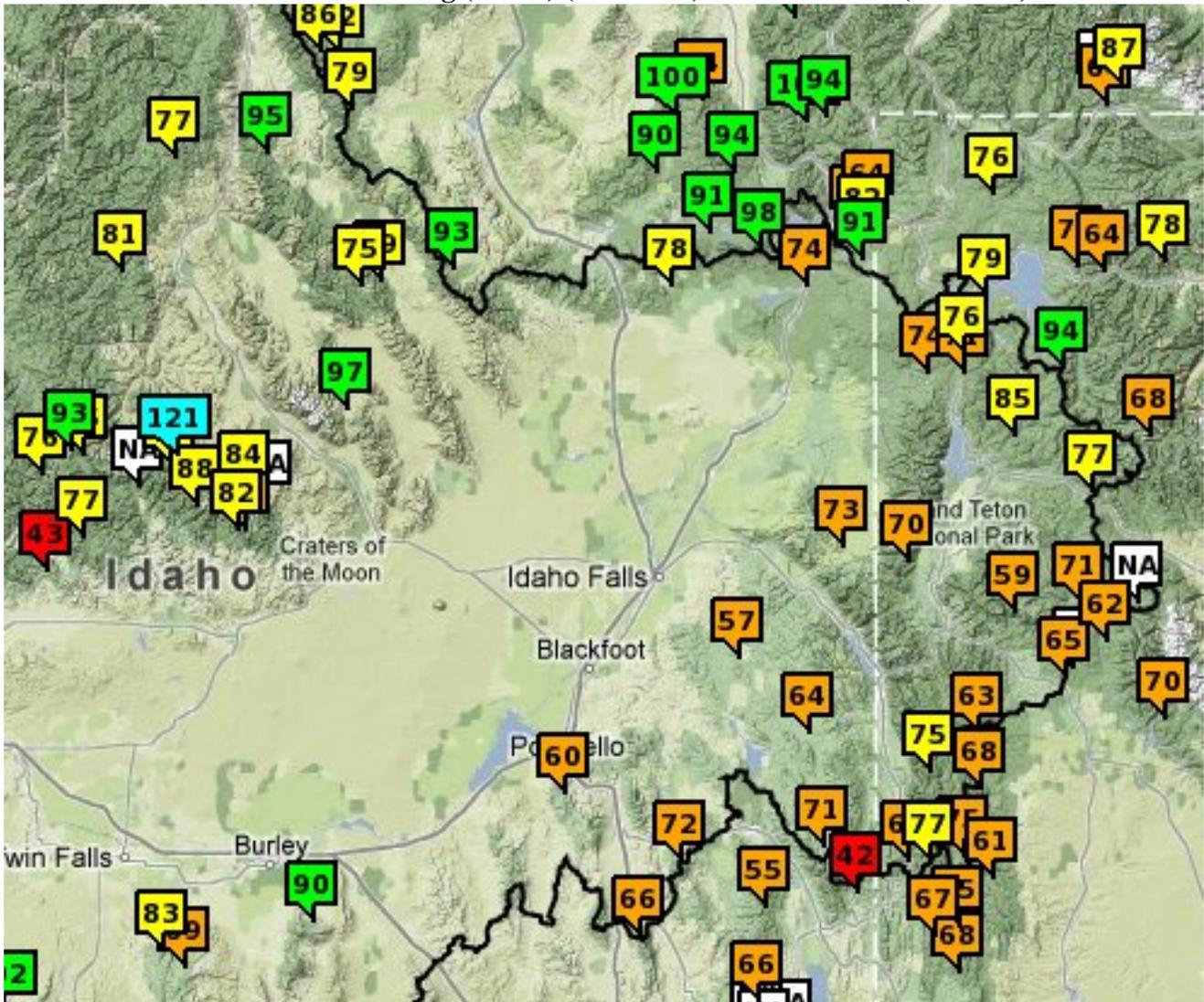


[http://www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/id\\_swepctnormal\\_update.pdf](http://www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/id_swepctnormal_update.pdf)



**Current SWE Conditions: % of Avg (3/5/13) (SNOTEL):**

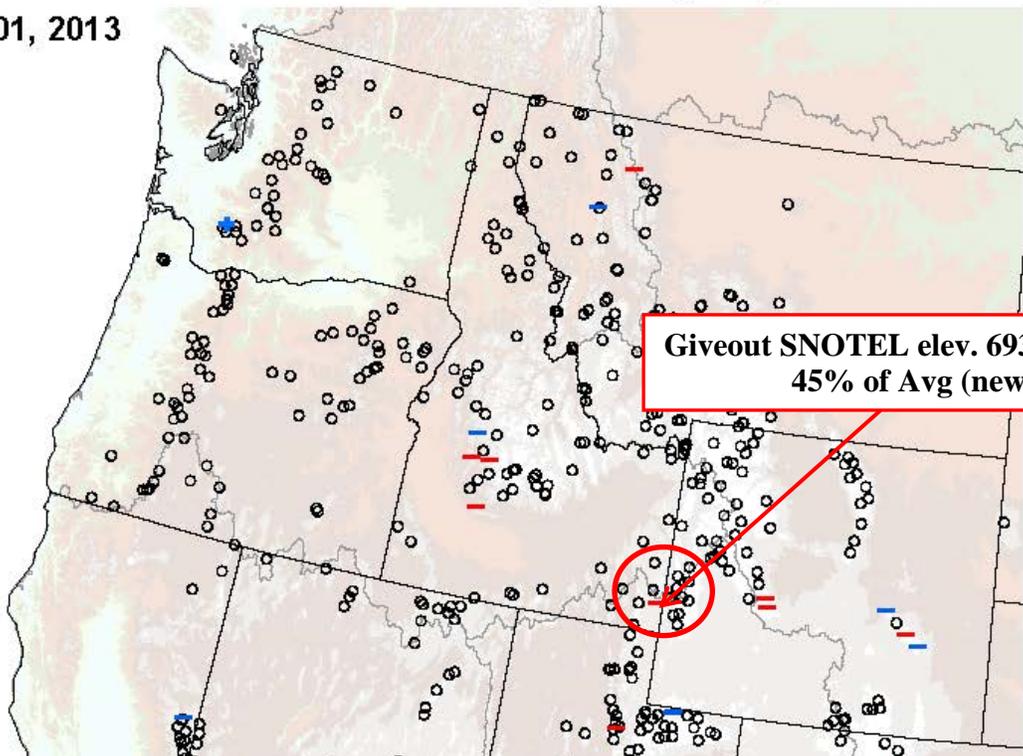
**(NWRFC)**



**SWE Record New Low:**

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

Mar 01, 2013

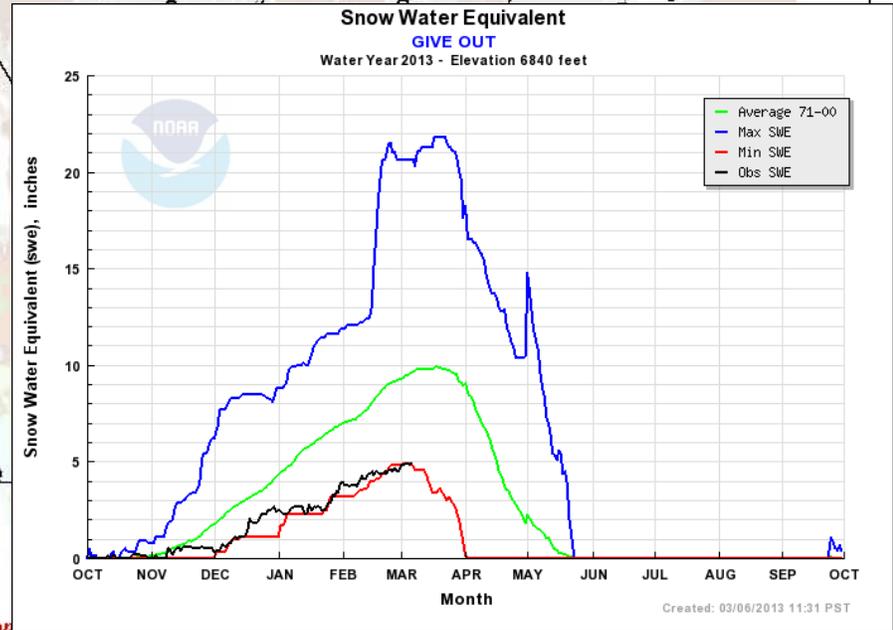


Giveout SNOTEL elev. 6930 ft.  
45% of Avg (new low)

**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.

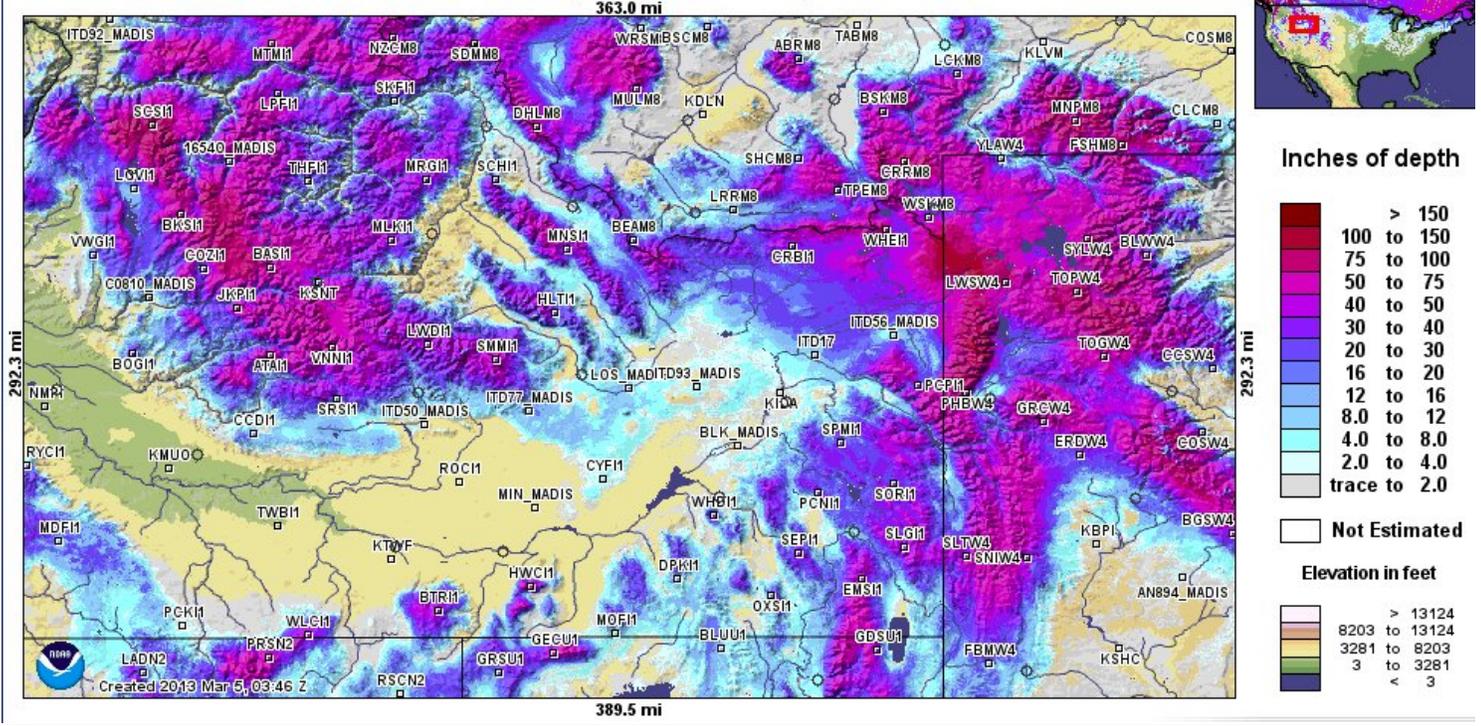


*Provisional Data  
Subject to Revision*

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](mailto:Jim.Marron@por.usda.gov) 503 414 3047

Created: 03/06/2013 11:31 PST

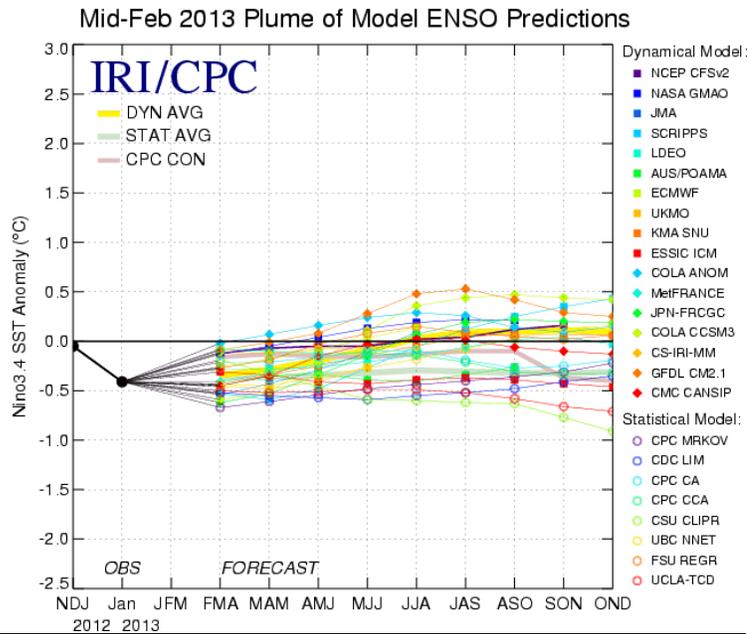
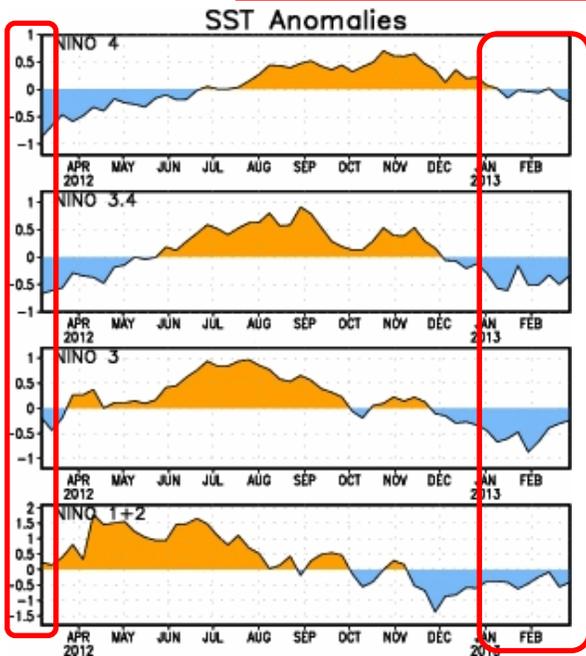
**Modeled Snow Depth for 2013 March 4, 16:00 Z**



<http://www.nohrsc.noaa.gov/interactive/html/map.html>

**ENSO Update:**

**Latest Observed SST Departure: Niño 3.4 ~ -0.3 Deg C**



**CPC Synopsis: ENSO-Neutral conditions favored this winter and through mid-2013**

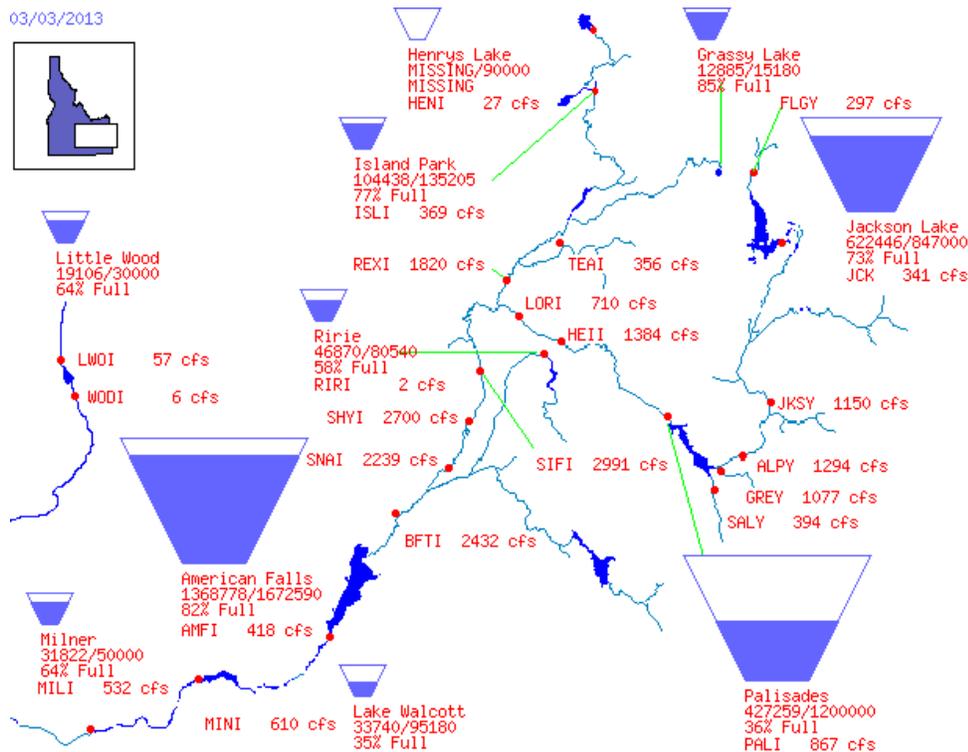
[cpc.ncep.noaa.gov](http://cpc.ncep.noaa.gov) and [iri.columbia.edu/climate/ENSO](http://iri.columbia.edu/climate/ENSO)

**Reservoirs:**

| Reservoir      | % Capacity Jan 31 <sup>1</sup> | % Capacity Feb 28 <sup>2</sup> | Percent Change | % of Average <sup>2</sup> | % of Last Year <sup>2</sup> |
|----------------|--------------------------------|--------------------------------|----------------|---------------------------|-----------------------------|
| Henry's Lake   | 100                            | 101                            | 1              | 113                       | 104                         |
| Island Park    | 75                             | 77                             | 2              | 99                        | 94                          |
| Jackson Lake   | 73                             | 73                             | 0              | 143                       | 97                          |
| Palisades      | 40                             | 44                             | 4              | 67                        | 51                          |
| Ririe          | 58                             | 58                             | 0              | 113                       | 96                          |
| Blackfoot      | 64                             | 66                             | 2              | 127                       | 79                          |
| American Falls | 66                             | 80                             | 14             | 104                       | 102                         |
| Bear Lake      | 62                             | 63                             | 1              | 127                       | 81                          |
| Magic          | 12                             | 14                             | 2              | 38                        | 21                          |
| Little Wood    | 53                             | 63                             | 10             | 108                       | 72                          |
| Mackay         | 72                             | 78                             | 6              | 118                       | 87                          |
| Oakley         | 27                             | 29                             | 2              | 88                        | 60                          |
| Lake Walcott   | 36 <sup>3</sup>                | 35 <sup>4</sup>                | -1             | n/a                       | n/a                         |
| Milner         | 65 <sup>3</sup>                | 64 <sup>4</sup>                | -1             | n/a                       | n/a                         |

Source: (1) NRCS January 31, 2013; (2) NRCS February 28, 2013.  
 (3) US Bureau of Reclamation (BOR) February 5, 2013 (4) BOR March 3, 2013

[http://www.wcc.nrcs.usda.gov/ftpref/data/water/basin\\_reports/idaho/wy2013/bareid2.txt](http://www.wcc.nrcs.usda.gov/ftpref/data/water/basin_reports/idaho/wy2013/bareid2.txt)

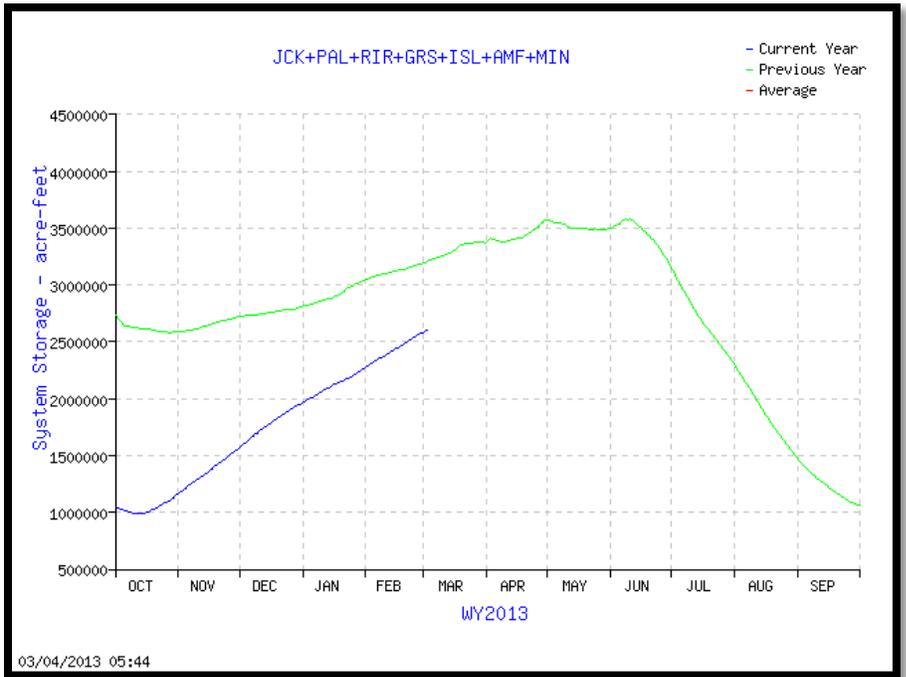


**65% of Capacity in Upper Snake River System**  
 (Jackson Lake, Palisades, Ririe, American Falls & Lake Walcott)

**Upper Snake River:**  
 Total Space Available: 1,429,276 AF  
 Total Storage Capacity: 4,045,695 AF

<http://www.usbr.gov/pn/hydromet/burtea.html>

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



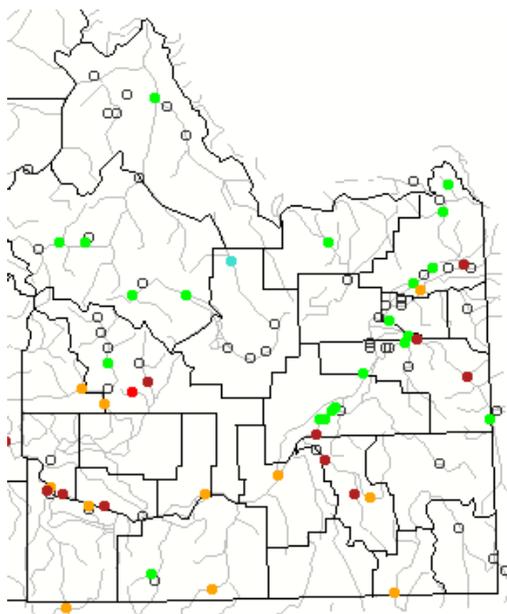
[http://www.usbr.gov/pn-bin/graphwy2.pl?snasys\\_af](http://www.usbr.gov/pn-bin/graphwy2.pl?snasys_af)

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

|                      | <u>EOM<br/>Contents</u> | <u>Percent<br/>EOM<br/>Average</u> | <u>Percent<br/>Usable<br/>Capacity</u> | <u>Last Year<br/>EOM</u> | <u>Last Year<br/>%Average</u> | <u>EOM<br/>Average</u> | <u>Usable<br/>Capacity</u> |
|----------------------|-------------------------|------------------------------------|--|--------------------------|-------------------------------|------------------------|----------------------------|
| Bear Lake, Nr Lifton | 902.2                   | 127                                | 69                                     | 993.6                    | 139                           | 713.0                  | 1302.0                     |

<http://www.cbrfc.noaa.gov/wsop/pub2/outlook3.php?region=sl&month=3&year=2013#contents>

**Streamflow:**



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

<http://waterwatch.usgs.gov/?m=mv01d&r=id&w=map>

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

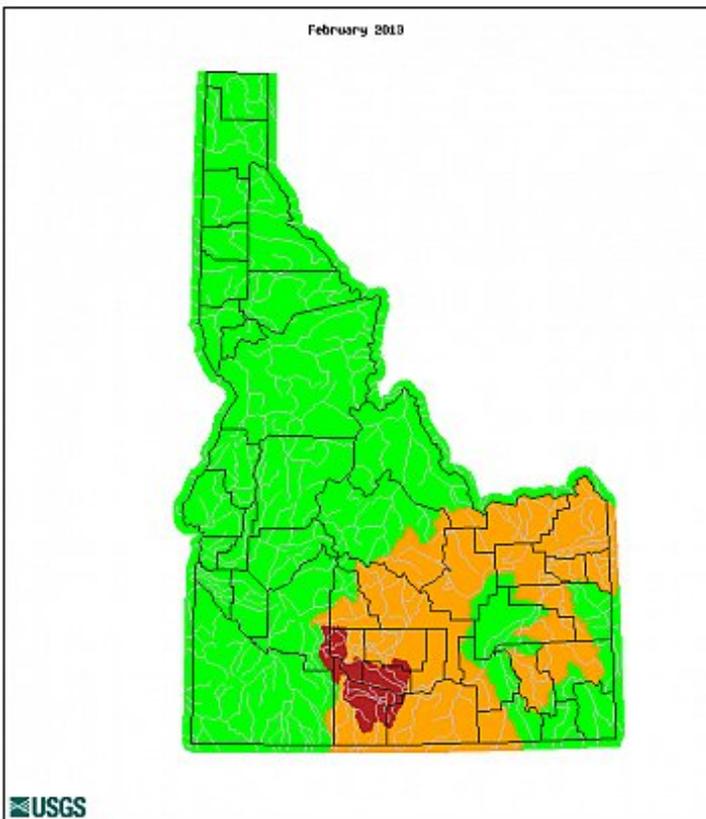
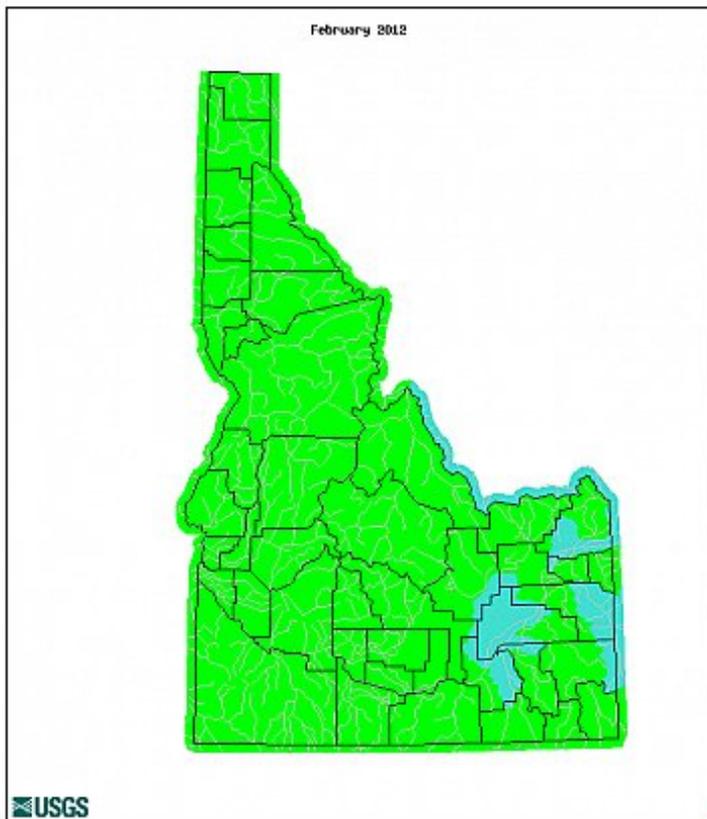
**Historic Streamflow Comparison-February 2012 and February 2013:**

**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 |      |

<http://waterwatch.usgs.gov/index.php>

# U.S. Drought Monitor

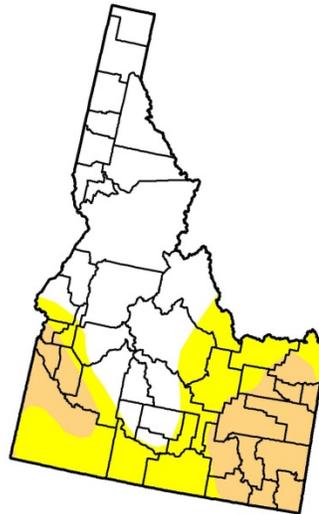
## Idaho

**March 5, 2013**  
Valid 7 a.m. EST

|   | Drought Conditions (Percent Area) |       |       |       |       |      |
|---|-----------------------------------|-------|-------|-------|-------|------|
|   | None                              | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4   |
| Current                                       | 49.96                             | 50.04 | 22.60 | 0.00  | 0.00  | 0.00 |
| Last Week<br>(02/26/2013 map)                 | 50.05                             | 49.95 | 29.08 | 0.00  | 0.00  | 0.00 |
| 3 Months Ago<br>(12/04/2012 map)              | 38.58                             | 61.42 | 49.62 | 0.52  | 0.00  | 0.00 |
| Start of<br>Calendar Year<br>(01/01/2013 map) | 45.29                             | 54.71 | 47.63 | 0.52  | 0.00  | 0.00 |
| Start of<br>Water Year<br>(09/25/2012 map)    | 15.61                             | 84.39 | 66.47 | 1.27  | 0.00  | 0.00 |
| One Year Ago<br>(02/28/2012 map)              | 45.99                             | 54.01 | 2.39  | 0.00  | 0.00  | 0.00 |

**Intensity:**

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



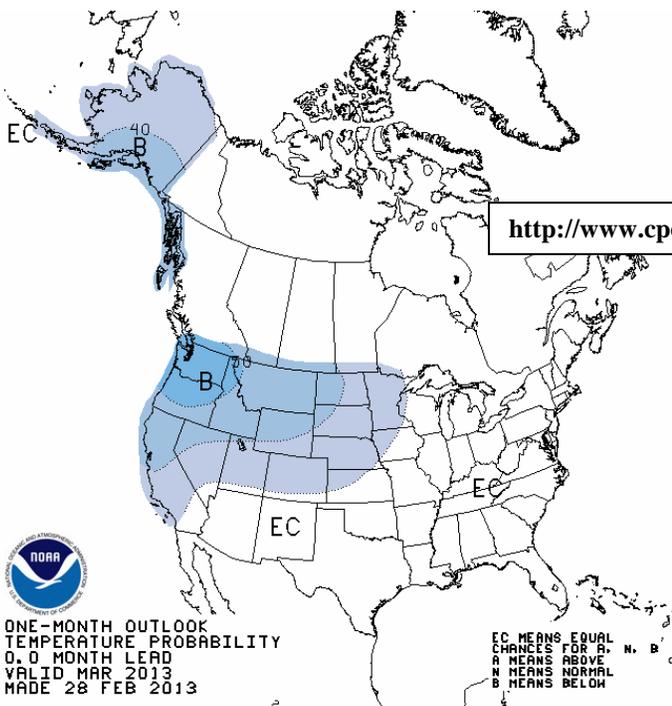
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



Released Thursday, March 7, 2013

Matthew Rosencrans, NOAA/NWS/NCEP/Climate Prediction Center

<http://droughtmonitor.unl.edu>

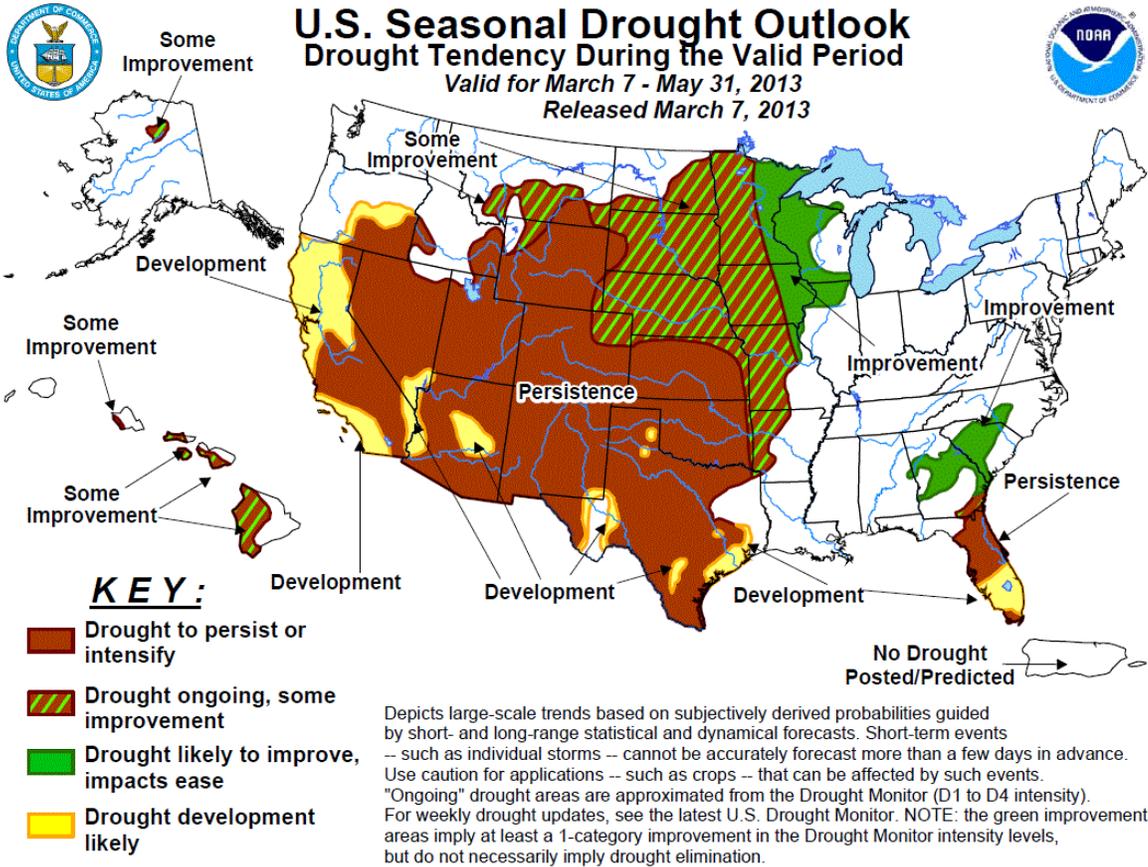
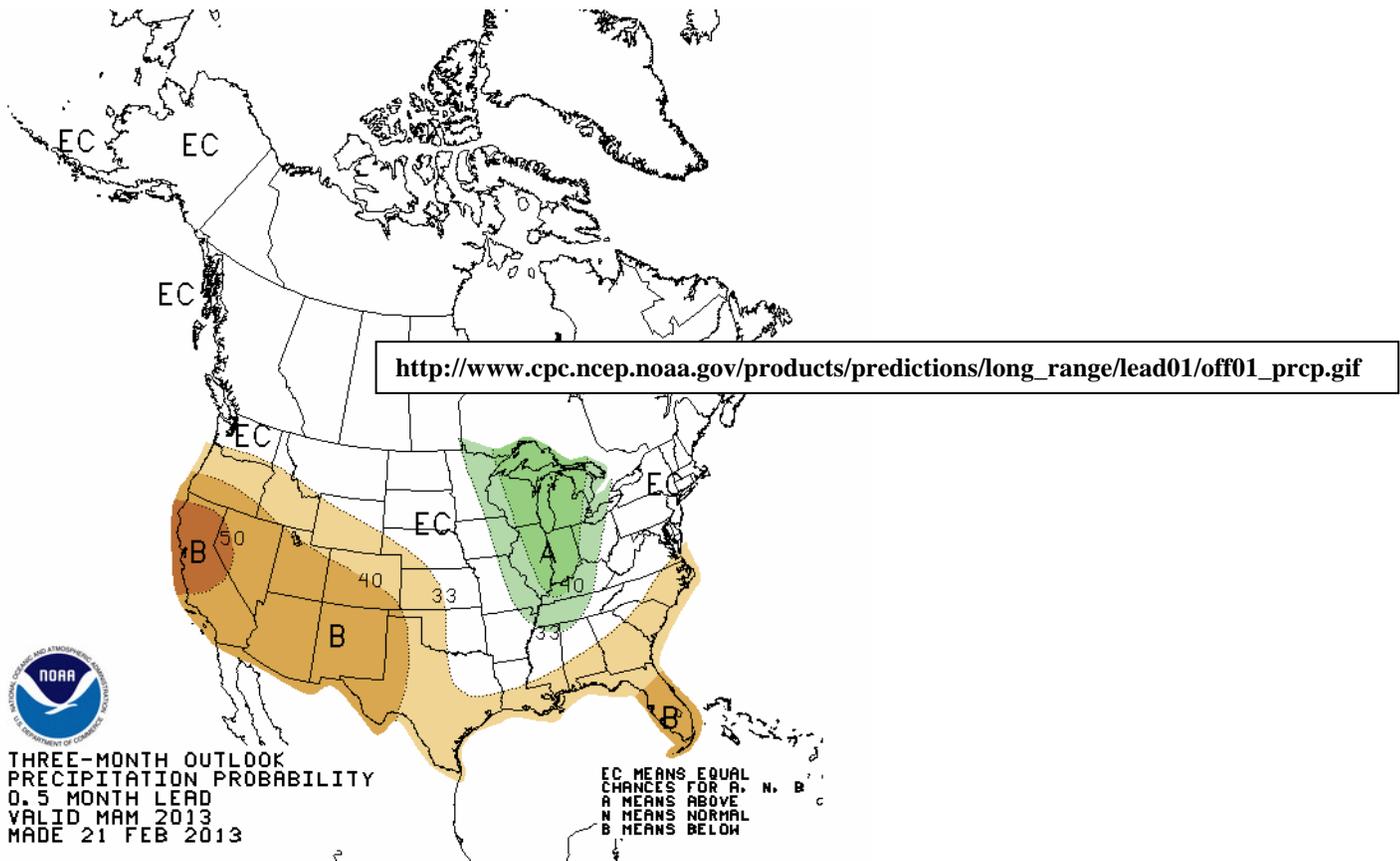


[http://www.cpc.ncep.noaa.gov/products/predictions/30day/off15\\_temp.gif](http://www.cpc.ncep.noaa.gov/products/predictions/30day/off15_temp.gif)



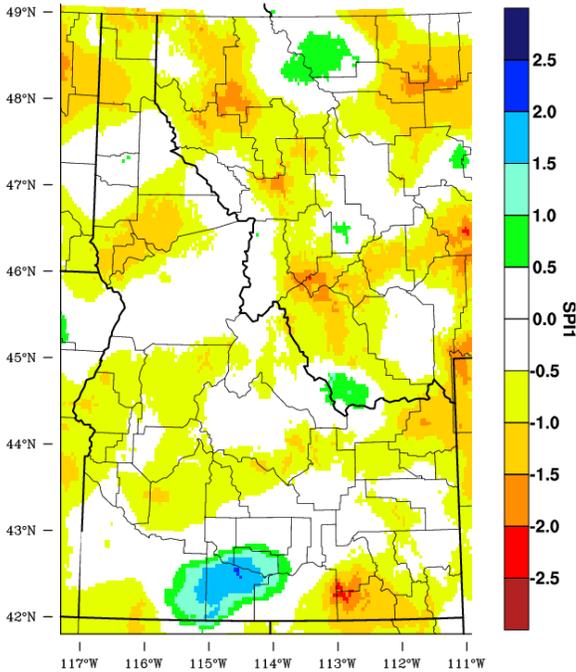
ONE-MONTH OUTLOOK  
TEMPERATURE PROBABILITY  
0.0 MONTH LEAD  
VALID MAR 2013  
MADE 28 FEB 2013

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

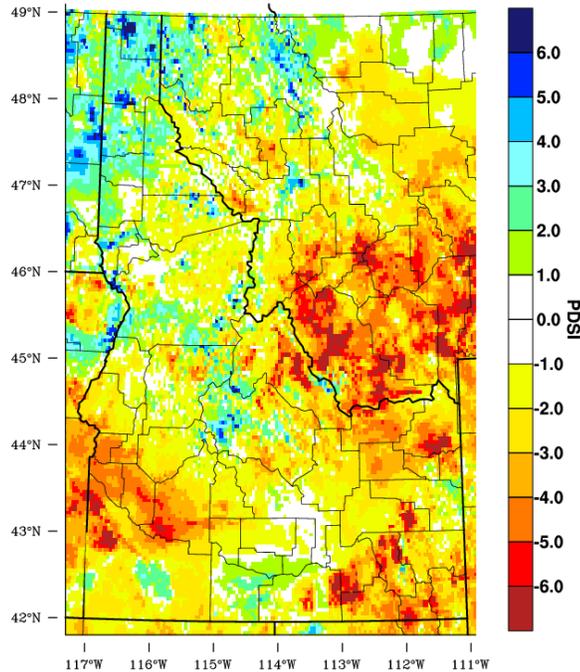


[http://www.cpc.ncep.noaa.gov/products/expert\\_assessment/season\\_drought.gif](http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.gif)

Idaho - 1 month SPI  
February 2013



Idaho - PDSI  
February 2013

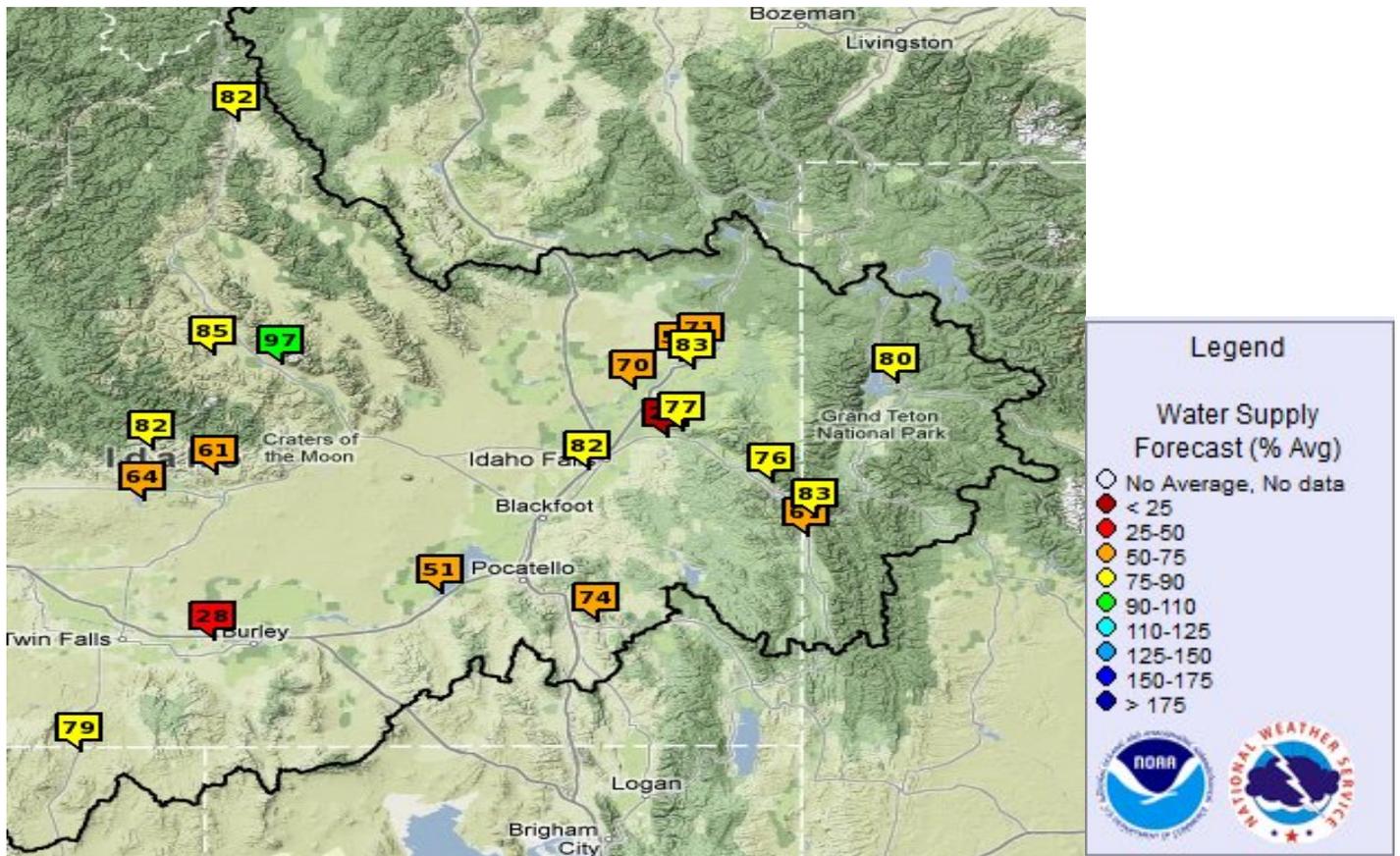


WestWide Drought Tracker - WRCC/UI Data Source - PRISM (Prelim), created 2 MAR 2013 WestWide Drought Tracker - WRCC/UI Data Source - PRISM (Prelim), created 2 MAR 2013

<http://www.wrcc.dri.edu/monitor/WWDI/index.php?region=id>

**Water Supply:**

**NWRFC Water Supply Volume Forecast Map (3/5/13):**



**NWRFC Water Supply Forecasts:**

Ensemble Date: 2013-03-06 Issued Date: 2013-03-07

| ID    | Forecast Period | Name                                    | 90% Exceedence KAF | 50% Exceedence KAF | % Normal | 10% Exceedence KAF | 30 Year Normal |
|-------|-----------------|---|--------------------|--------------------|----------|--------------------|----------------|
| AMFI1 | APR-SEP         | SNAKE - AT AMERICAN FALLS DAM           | 842                | 1382               | 49       | 2294               | 2806           |
| ANTI1 | APR-SEP         | HENRYS FORK - AT ST. ANTHONY            | 421                | 521                | 62       | 708                | 836            |
| CHEI1 | APR-SEP         | FALLS - NEAR CHESTER                    | 269                | 323                | 86       | 416                | 375            |
| HALI1 | APR-SEP         | BIG WOOD - AT HAILEY                    | 146                | 207                | 79       | 288                | 263            |
| HEI11 | APR-SEP         | SNAKE - NEAR HEISE                      | 2400               | 2825               | 75       | 3398               | 3785           |
| HWR11 | APR-SEP         | BIG LOST - AT HOWELL RANCH NEAR CHILLY  | 98.09              | 151                | 84       | 207                | 180            |
| MACI1 | APR-SEP         | BIG LOST - MACKAY RESERVOIR NEAR MACKAY | 91.44              | 144                | 96       | 203                | 151            |
| MAGI1 | APR-JUL         | BIG WOOD - MAGIC DAM                    | 79.13              | 144                | 58       | 247                | 250            |
| PALI1 | APR-SEP         | SNAKE - NEAR IRWIN                      | 2169               | 2552               | 73       | 3083               | 3501           |
| REXI1 | APR-SEP         | HENRYS FORK - AT REXBURG                | 1098               | 1293               | 72       | 1635               | 1785           |

|       |         |   |       |       |    |       |       |
|-------|---------|---|-------|-------|----|-------|-------|
| RIRI1 | APR-SEP | WILLOW CREEK - NEAR RIRIE                           | 9.55  | 12.74 | 18 | 35.81 | 69.00 |
| SFLN2 | APR-SEP | SALMON FALLS CREEK - SALMON FALLS CK NR SAN JACINTO | 30.34 | 52.56 | 71 | 126   | 74.00 |
| SHYI1 | APR-SEP | SNAKE - NEAR SHELLEY                                | 3003  | 3954  | 78 | 5379  | 5051  |
| TEAI1 | APR-SEP | TETON - NEAR ST. ANTHONY                            | 276   | 350   | 77 | 448   | 457   |
| TOPI1 | APR-SEP | PORTNEUF - AT TOPAZ                                 | 45.34 | 54.99 | 68 | 73.54 | 81.00 |
| WODI1 | APR-SEP | LITTLE WOOD - NEAR CAREY                            | 28.73 | 48.69 | 59 | 80.13 | 83.00 |

[http://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:**

[http://www.nwrfc.noaa.gov/water\\_supply/ws\\_report.cgi?Type=WFO&Source=Pocatello&Wyr=2013&WyrDate=2013-03-04](http://www.nwrfc.noaa.gov/water_supply/ws_report.cgi?Type=WFO&Source=Pocatello&Wyr=2013&WyrDate=2013-03-04)

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

Area: CBRFC 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

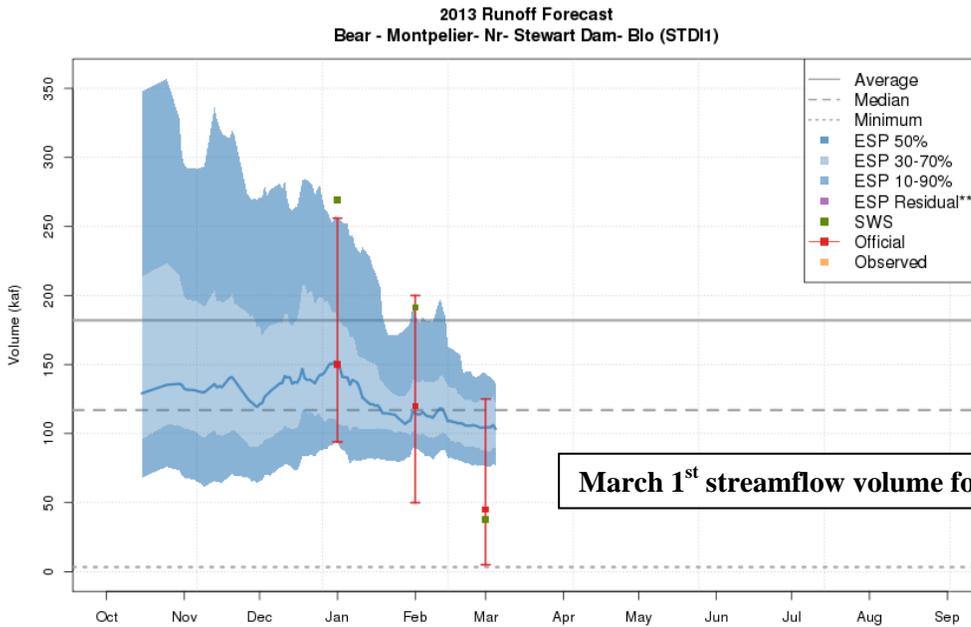
▲ < 70 ▲ 70-90 ▲ 90-110 ▲ 110-130 ▲ >130 ▲ Regulated

All forecasts and averages are in thousand acre-feet (kaf)

MP=Most Probable

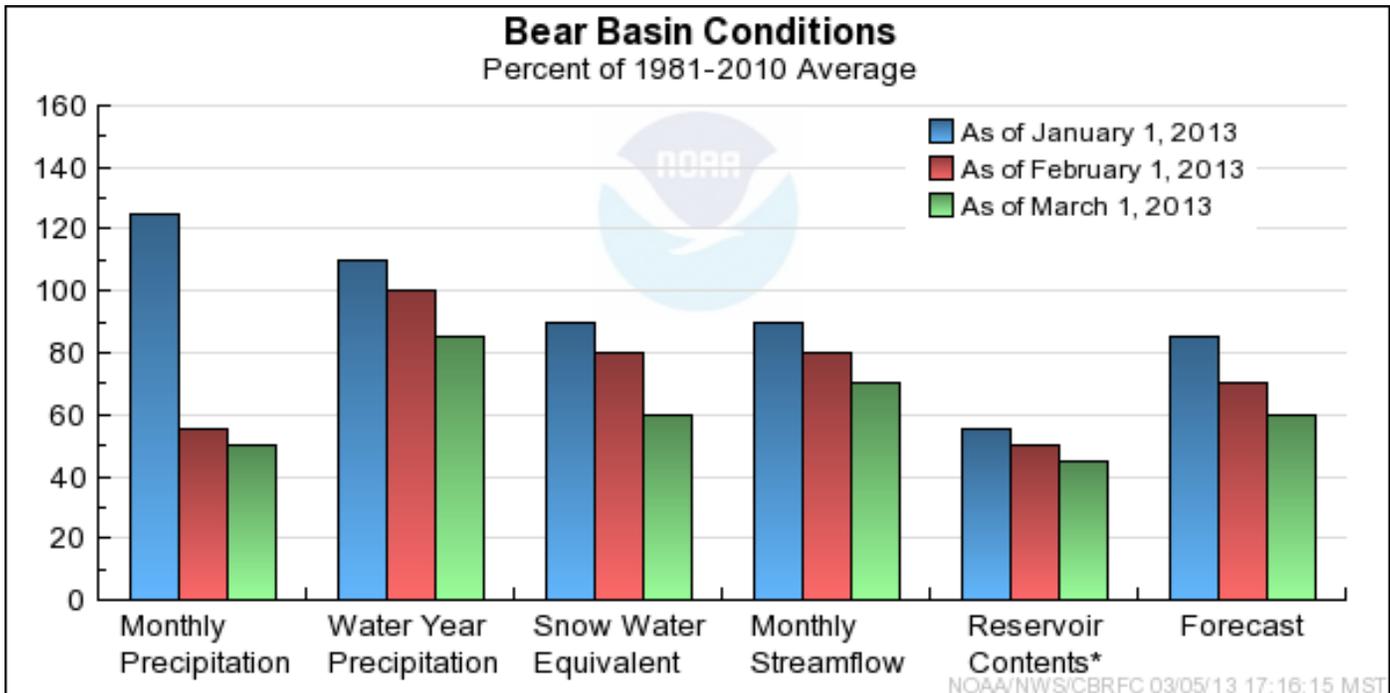
| NWS ID  | Location                                | Percent Avg/Med | Official Forecast Date | Official Min 90% | Official MP 50% | Official Max 10% | Official Percent Average | Official Percent Median | Average | Median |
|---------|---|-----------------|------------------------|------------------|-----------------|------------------|--------------------------|-------------------------|---------|--------|
| 1 BEAW4 | Bear - Woodruff Narrows Rsvr Abv        | ▲               | 2013-03-01             | 30               | 74              | 110              | 61%                      | 67%                     | 121     | 110    |
| 2 BERU1 | Bear - Utah-wyoming State Line Nr       | ▲               | 2013-03-01             | 42               | 68              | 100              | 61%                      | 64%                     | 112     | 106    |
| 3 BORW4 | Smiths Fork - Border Nr                 | ▲               | 2013-03-01             | 36               | 58              | 87               | 65%                      | 73%                     | 89      | 80     |
| 4 HRMU1 | Blacksmith Fork - Hyrum Nr Upnl Dam Abv | ▲               | 2013-03-01             | 19               | 28              | 44               | 65%                      | 97%                     | 43      | 29     |
| 5 LGNU1 | Logan - Logan Nr State Dam Abv          | ▲               | 2013-03-01             | 45               | 76              | 111              | 68%                      | 78%                     | 111     | 97     |
| 6 PRZU1 | Little Bear - Paradise                  | ▲               | 2013-03-01             | 10               | 23              | 41               | 49%                      | 45%                     | 47      | 51     |
| 7 STD11 | Bear - Montpelier Nr Stewart Dam Blo    | ▲               | 2013-03-01             | 5                | 45              | 125              | 25%                      | 38%                     | 182     | 117    |

<http://www.cbrfc.noaa.gov/gmap/list/list.php?search=&point=all&plot=&sort=wsupids&type=wsup&basin=4&subbasin=0&espqpf=0&espdist=empirical>



**March 1<sup>st</sup> streamflow volume forecast is only 38% of median!**

**Bear River Basin Conditions:**



<http://www.cbrfc.noaa.gov/wsupsup/pub2/outlook3.php?region=sl&month=3&year=2013#br>

## NRCS-NWCC Water Supply Forecast Report (March 1 Forecast):

Mar 1, 2013 NRCS Streamflow Forecasts  
 USDA NRCS National Water & Climate Center  
 \* DATA CURRENT AS OF: 3/05/13 09:16:50

### UPPER SNAKE RIVER BASIN

| Forecast Point                | period  | 50%<br>(KAF) | % of<br>avg | max<br>(KAF) | 30%<br>(KAF) | 70%<br>(KAF) | min<br>(KAF) | 30-yr<br>avg |
|-------------------------------|---------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Henrys Fork nr Ashton (2)     | APR-JUL | 450          | 85          | 575          | 500          | 405          | 340          | 530          |
|                               | APR-SEP | 605          | 85          | 755          | 665          | 550          | 470          | 710          |
| Henrys Fork nr Rexburg (2)    | APR-JUL | 1180         | 84          | 1450         | 1290         | 1070         | 910          | 1400         |
|                               | APR-SEP | 1500         | 84          | 1800         | 1620         | 1380         | 1200         | 1790         |
| Falls R nr Ashton (2)         | APR-JUL | 305          | 84          | 375          | 335          | 280          | 240          | 365          |
|                               | APR-SEP | 365          | 84          | 450          | 400          | 335          | 290          | 435          |
| Teton R nr Driggs             | APR-JUL | 109          | 71          | 151          | 125          | 94.0         | 74.0         | 154          |
|                               | APR-SEP | 137          | 71          | 191          | 158          | 118          | 92.0         | 193          |
| Teton R nr St. Anthony        | APR-JUL | 265          | 73          | 360          | 300          | 230          | 184          | 365          |
|                               | APR-SEP | 315          | 72          | 425          | 360          | 275          | 220          | 435          |
| Snake R at Flagg Ranch        | APR-JUL | 415          | 89          | 506          | 452          | 378          | 324          | 465          |
|                               | APR-SEP | 450          | 88          | 549          | 490          | 410          | 351          | 510          |
| Snake R nr Moran (1,2)        | APR-JUL | 635          | 83          | 817          | 692          | 578          | 453          | 765          |
|                               | APR-SEP | 705          | 83          | 914          | 770          | 640          | 496          | 845          |
| Pacific Ck At Moran           | APR-JUL | 137          | 84          | 182          | 155          | 119          | 92.0         | 164          |
|                               | APR-SEP | 145          | 84          | 192          | 164          | 126          | 98.0         | 173          |
| Buffalo Fork ab Lava nr Moran | APR-JUL | 245          | 88          | 302          | 268          | 222          | 188          | 280          |
|                               | APR-SEP | 275          | 86          | 341          | 302          | 248          | 209          | 320          |
| Snake R nr Alpine (1,2)       | APR-JUL | 1700         | 78          | 2200         | 1856         | 1544         | 1200         | 2170         |
|                               | APR-SEP | 1960         | 78          | 2551         | 2145         | 1775         | 1369         | 2500         |
| Greys R Nr Alpine             | APR-JUL | 240          | 79          | 303          | 266          | 214          | 177          | 305          |
|                               | APR-SEP | 280          | 78          | 356          | 311          | 249          | 204          | 360          |
| Salt R Nr Etna                | APR-JUL | 210          | 70          | 326          | 257          | 163          | 94.0         | 300          |
|                               | APR-SEP | 265          | 72          | 405          | 322          | 208          | 125          | 370          |
| Snake R nr Irwin (1,2)        | APR-JUL | 2320         | 77          | 2962         | 2521         | 2119         | 1678         | 3010         |
|                               | APR-SEP | 2710         | 77          | 3423         | 2933         | 2487         | 1997         | 3500         |
| Snake R nr Heise (2)          | APR-JUL | 2480         | 77          | 3026         | 2701         | 2259         | 1934         | 3240         |
|                               | APR-SEP | 2910         | 77          | 3526         | 3159         | 2661         | 2294         | 3780         |
| Willow Ck nr Ririe            | MAR-JUL | 38.0         | 57          | 81.0         | 55.0         | 21.0         | 4.80         | 67.0         |
| Blackfoot R ab Res nr Henry   | APR-JUN | 40.0         | 67          | 70.6         | 51.3         | 30.1         | 18.0         | 60.0         |
| Snake R nr Blackfoot (1,2)    | APR-JUL | 3160         | 74          | 4041         | 3435         | 2885         | 2279         | 4260         |
|                               | APR-SEP | 3860         | 74          | 4936         | 4196         | 3524         | 2784         | 5220         |
| Portneuf R at Topaz           | MAR-JUL | 51.0         | 67          | 69.6         | 58.2         | 44.3         | 35.3         | 76.0         |
|                               | MAR-SEP | 63.0         | 68          | 84.6         | 71.4         | 55.2         | 44.6         | 93.0         |
| Snake R at Neeley (1,2)       | APR-JUL | 1800         | 68          | 2990         | 2172         | 1428         | 610          | 2650         |
|                               | APR-SEP | 1910         | 68          | 3198         | 2312         | 1508         | 622          | 2810         |

### WOOD AND LOST RIVER BASINS

| Forecast Point           | period  | 50%<br>(KAF) | % of<br>avg | max<br>(KAF) | 30%<br>(KAF) | 70%<br>(KAF) | min<br>(KAF) | 30-yr<br>avg |
|--------------------------|---------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Big Wood R at Hailey (1) | APR-JUL | 205          | 87          | 315          | 240          | 170          | 93.0         | 235          |
|                          | APR-SEP | 235          | 89          | 375          | 280          | 191          | 94.0         | 265          |
| Big Wood R ab Magic Res  | APR-JUL | 144          | 85          | 240          | 182          | 106          | 49.0         | 170          |
|                          | APR-SEP | 155          | 85          | 285          | 200          | 116          | 72.0         | 182          |
| Camas Ck nr Blaine       | APR-JUL | 41.0         | 50          | 100          | 65.0         | 17.3         | 12.7         | 82.0         |
|                          | APR-SEP | 42.0         | 51          | 87.0         | 58.0         | 28.0         | 13.3         | 83.0         |

|                               |         |      |     |      |      |      |      |      |
|-------------------------------|---------|------|-----|------|------|------|------|------|
| Big Wood R bl Magic Dam (2)   | APR-JUL | 215  | 86  | 355  | 270  | 159  | 76.0 | 250  |
|                               | APR-SEP | 230  | 87  | 360  | 280  | 178  | 102  | 265  |
| Little Wood R ab High Five Ck | MAR-JUL | 77.0 | 100 | 119  | 94.0 | 60.0 | 35.0 | 77.0 |
|                               | MAR-SEP | 82.0 | 100 | 134  | 102  | 65.0 | 43.0 | 82.0 |
| Little Wood R near Carey (2)  | MAR-JUL | 84.0 | 98  | 131  | 103  | 65.0 | 37.0 | 86.0 |
|                               | MAR-SEP | 89.0 | 97  | 124  | 103  | 75.0 | 54.0 | 92.0 |
| Big Lost R at Howell Ranch    | APR-JUL | 75.0 | 97  | 121  | 94.0 | 56.0 | 29.0 | 77.0 |
|                               | APR-SEP | 163  | 103 | 230  | 189  | 137  | 98.0 | 159  |
| Big Lost R Below Mackay Res   | APR-SEP | 184  | 102 | 260  | 215  | 154  | 109  | 180  |
|                               | APR-JUL | 126  | 102 | 192  | 153  | 99.0 | 60.0 | 123  |
| Little Lost R nr Howe         | APR-SEP | 154  | 103 | 230  | 185  | 123  | 78.0 | 150  |
|                               | APR-JUL | 25.0 | 89  | 38.0 | 30.0 | 21.0 | 15.0 | 28.0 |
|                               | APR-SEP | 31.0 | 91  | 47.0 | 37.0 | 26.0 | 18.4 | 34.0 |
| Camas Ck at Camas             | APR-JUL | 28.0 | 100 | 48.0 | 36.0 | 20.0 | 8.20 | 28.0 |

#### SOUTHSIDE SNAKE RIVER BASINS

| Forecast Point                   | period  | 50%<br>(KAF) | % of<br>avg | max<br>(KAF) | 30%<br>(KAF) | 70%<br>(KAF) | min<br>(KAF) | 30-yr<br>avg |
|----------------------------------|---------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Goose Ck ab Trapper Ck nr Oakley | MAR-JUL | 21.0         | 96          | 33.0         | 26.0         | 16.3         | 9.4          | 22.0         |
|                                  | MAR-SEP | 22.0         | 92          | 34.0         | 27.0         | 17.0         | 9.7          | 24.0         |
| Trapper Ck nr Oakley             | MAR-JUL | 5.50         | 93          | 7.10         | 6.10         | 4.90         | 3.90         | 5.90         |
|                                  | MAR-SEP | 6.70         | 94          | 8.40         | 7.40         | 6.00         | 5.00         | 7.10         |
| Oakley Res Inflow (2)            | MAR-JUL | 26.0         | 93          | 39.0         | 31.0         | 21.0         | 12.8         | 28.0         |
|                                  | MAR-SEP | 29.0         | 94          | 43.0         | 35.0         | 23.0         | 14.9         | 31.0         |
| Salmon Falls Ck nr San Jacinto   | MAR-JUN | 62.0         | 81          | 93.0         | 74.0         | 51.0         | 37.0         | 77.0         |
|                                  | MAR-JUL | 65.0         | 80          | 98.8         | 77.8         | 53.3         | 38.2         | 81.0         |
|                                  | MAR-SEP | 69.0         | 81          | 104          | 82.0         | 57.0         | 41.0         | 85.0         |

#### BEAR RIVER BASIN

| Forecast Point             | period  | 50%<br>(KAF) | % of<br>avg | max<br>(KAF) | 30%<br>(KAF) | 70%<br>(KAF) | min<br>(KAF) | 30-yr<br>avg |
|----------------------------|---------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Bear R nr UT-WY State Line | APR-JUL | 67           | 60          | 99.0         | 80.0         | 54.0         | 35.0         | 112          |
|                            | APR-SEP | 74           | 60          | 110          | 88.0         | 59.0         | 37.0         | 123          |
| Bear R ab Res nr Woodruff  | APR-JUL | 70           | 58          | 117          | 89.0         | 51.0         | 23.0         | 121          |
|                            | APR-SEP | 68           | 53          | 116          | 88.0         | 48.0         | 19.0         | 128          |
| Big Ck nr Randolph         | APR-JUL | 1.90         | 50          | 3.80         | 2.70         | 1.11         | 0.11         | 3.80         |
| Smiths Fk nr Border        | APR-JUL | 53.0         | 60          | 81.0         | 64.0         | 42.0         | 26.0         | 89.0         |
|                            | APR-SEP | 65           | 63          | 96.0         | 77.0         | 52.0         | 34.0         | 104          |
| Bear R bl Stewart Dam      | APR-JUL | 25           | 14          | 143          | 74.0         | 9.00         | 2.00         | 183          |
| Little Bear R at Paradise  | APR-JUL | 18.1         | 44          | 40.0         | 27.0         | 9.3          | 1.20         | 41.0         |
| Logan R nr Logan           | APR-JUL | 51           | 46          | 83.0         | 64.0         | 38.0         | 19.0         | 111          |
| Blacksmith Fork nr Hyrum   | APR-JUL | 25.0         | 58          | 49.0         | 35.0         | 15.5         | 1.20         | 43.0         |

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

<http://www.id.nrcs.usda.gov/snow/watersupply/#streamflow>

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