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

X **An X in this box indicates that <u>no</u> flooding has occurred for the month within this hydrologic service area.**

Overview:

Compared to December, this past month brought a significantly lower amount of precipitation over the entire state. In fact, each month's total precipitation accumulation has gotten progressively drier since the beginning of the water supply season in October. Overall, it appears that the observed precipitation ranges from about 0.10 to 2.0 inches across the Hydrologic Service Area for January. This dryness can be demonstrated in the Departure from Normal graphic below for January. Opposite from early in the water supply season, the central mountains and along the Continental Divide have been hit the hardest as of late receiving only about 10 to 75% of normal precipitation. Again, the SNOTEL month to date precipitation graphic also depicts the significantly decreased amounts from the start of this month. A slight contrast to that is the SNOTEL snow water equivalent (SWE) percent of normal graphic showing a slight increase from last month as we received some snowpack from some sporadic passing storms in the upper Snake Basin and in extreme southeast Idaho, but elsewhere, especially in the central mountains, a significant decrease in swe has occurred over the month. Even though we have received less than normal precipitation the past couple of months, overall for the water supply season we are around normal in eastern Idaho.

An El Niño neutral pattern is forecast to continue for at least into the mid-year timeframe, so it is anyone's guess if this dry pattern continues throughout the snow accumulation season. We do have a system forecast over this weekend, which will hopefully add at least a little to the snowpack and break our relative dry spell. We do have a number of months to go, so we can still be hopeful. Temperatures have been cold, especially across southern Idaho, this past month and a number of ice jams have been reported along the Salmon River near Salmon and the Ellis area and on the Snake River between Shelley and Blackfoot. (See photo below of the Lemhi River ice jam.)

The highest stream volume forecast in the HSA is the Big Lost River at Mackay, which is currently at 110% of average for the Apr-Sep forecast (ranked 22 out of 43 years). The lowest streamflow forecast is Willow Creek at Ririe at 31% of average (ranked 27 of 27-driest). The SNOTEL site currently having the greatest amount of swe is the Stickney Mill site (elevation 7430 ft) at 148% of average. Looking at swe value changes at SNOTEL sites in January, most sites increased around 1 to 3 inches during the month. The Bear Basin SNOTEL sites currently range 50 to 90% of average for swe. As far as the one-month Climate Prediction Center outlook is concerned, we stand to have an equal chance of normal temperatures for all of eastern Idaho and an equal chance as well for normal precipitation over all of Idaho.

Of the data available for the month, the highest 24-hour precipitation total was 1.50 inches on the 28th day of the month at the Ashton site. The Howe station received the greatest recorded monthly total snow accumulation at 10.0 inches on the 11th day of January. The stations reaching the highest temperatures were the Massacre Rocks State Park, Dubois Experimental, and Middle Fork Lodge stations at 49°F on the 26th, 19th and 25th respectively. The station with the lowest recorded temperature was at the Howe station at a very cold -34°F on the 14th.

During January, reservoirs increased capacity overall by around 8% (close to December's increase) in the upper Snake River Basin system (an increase of about 310 KAF over the month). Compared to last year at this time, it was about 76% of capacity. Most notable change was the American Falls reservoir with an increase of 17% of capacity and the Little Wood reservoir increasing 10% of capacity. No reservoirs dropped pool levels during the month. Henry's Lake is currently full and Jackson Lake, Blackfoot reservoir and Bear Lake are currently at 143, 126, and 125 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 hopefully enough snow in the mountains to recharge them.

Monthly average streamflow has remained below to near normal across the HSA, but with much of the water locked up in frozen conditions during the winter months it is hard to tell. Again, with the cold temperatures many stream gages are iced up giving erroneous readings. The upper Snake Basin in general is 75 to 85% of average for the Apr-Sept streamflow volume forecasts. The Big Lost and Big Wood River Basins are faring the best, which are currently near average for the volume forecast. Below average spring and summer Apr-July streamflow volumes are forecast throughout the Bear River Basin. The Bear River basin has received 50-90% of average precipitation for January.

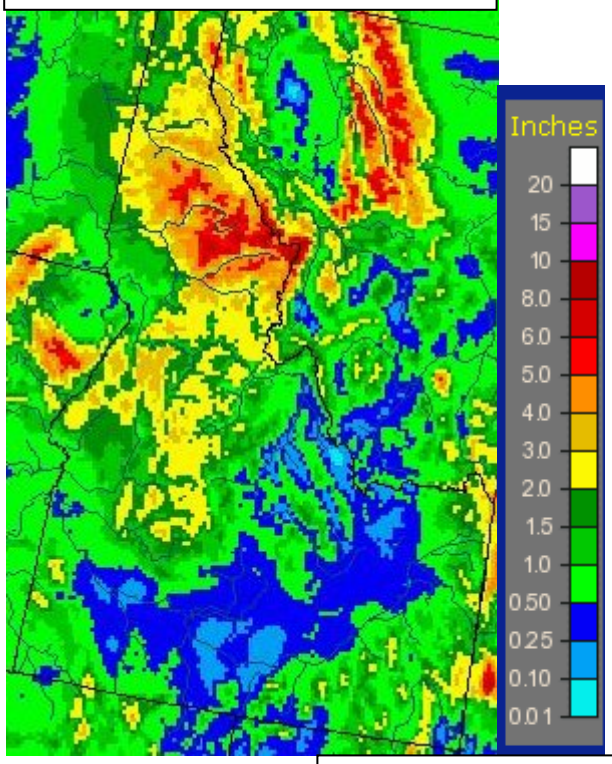
Overall soil moisture has remained near the same throughout the HSA. Drought categories have decreased slightly across the state in the category where no drought conditions exist and in the D1 category (Moderate Drought). Conversely, the D0 category (Abnormally Dry) area increased due to the widespread lack of precipitation. The category of no drought conditions decreased by about 6%, and the category D1 decreased by about 10%. The D0 area increased by about 6% while the D2 category remained the same since last month's assessment. The U.S. Seasonal Drought Outlook forecasts a persistence of drought conditions throughout eastern Idaho, which has worsened from last month's assessment, especially in the Henry's Fork Basin.

According to the Idaho NRCS Snow Survey office February 1st Idaho Surface Water Supply Index (SWSI); combining streamflow volume forecasts and reservoir storage, (where appropriate), rates the highest basin within the HSA, being the Big Lost River Basin. It was given a SWSI value of 1.5 (near to above normal water supply-reduced from last month). The lowest ranked basin within the HSA is the Oakley Basin again and is rated at -1.3 (reduced from 0 or 50% chance of exceedance). From a water supply stance, the hydrologic basins within the HSA are currently on track to near normal snowpack conditions. Again, additional precipitation is needed to break the current declining trend. For more information on the Idaho Water Supply Outlook, please go to: ftp://ftp-fc.sc.egov.usda.gov/ID/snow/watersupply/bor/2013/borid213.pdf

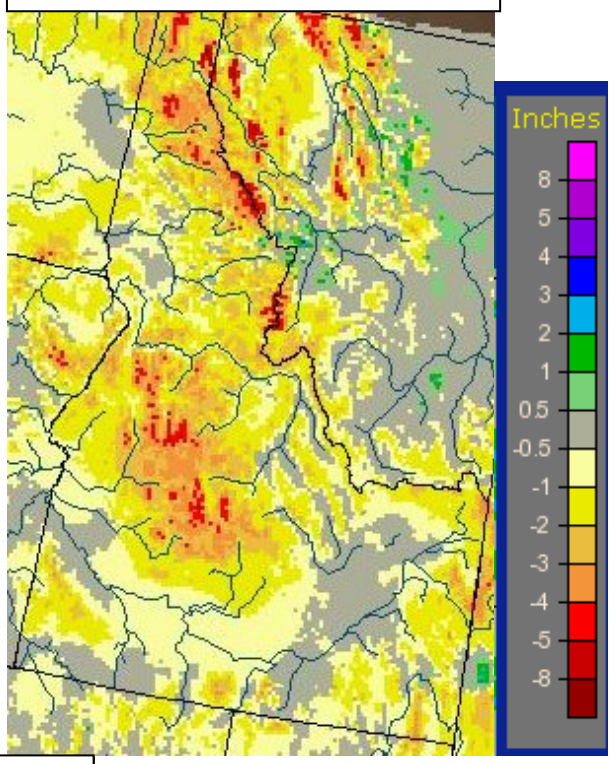
See NWRFC, CBRFC, and NRCS water supply stream volume forecasts below.

Precipitation:

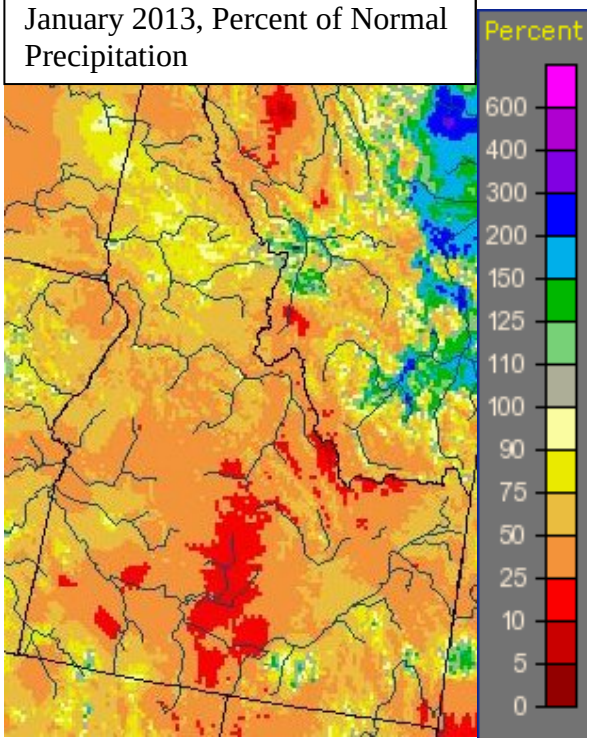
January 2013, Observed Precipitation



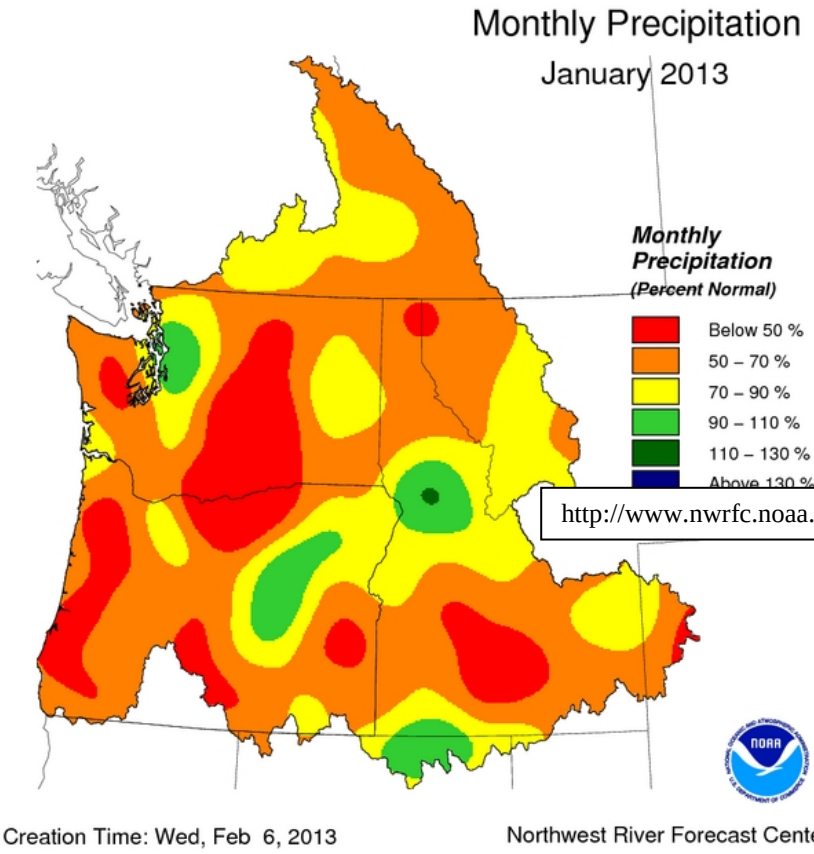
January 2013, Departure from Normal Precipitation



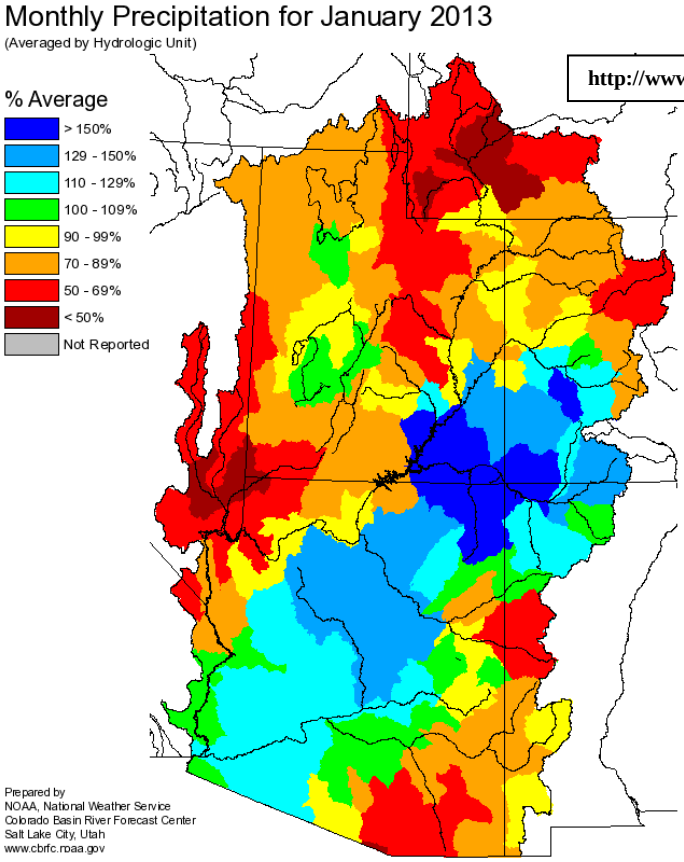
January 2013, Percent of Normal Precipitation



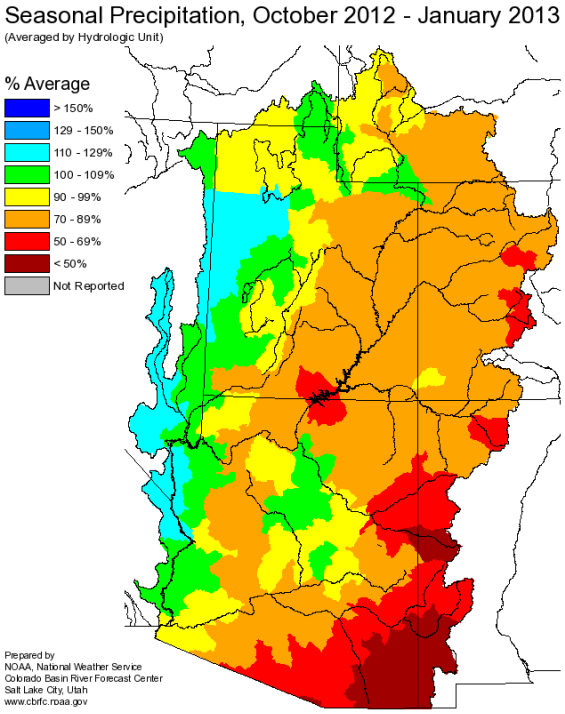
http://water.weather.gov/precip/index.php

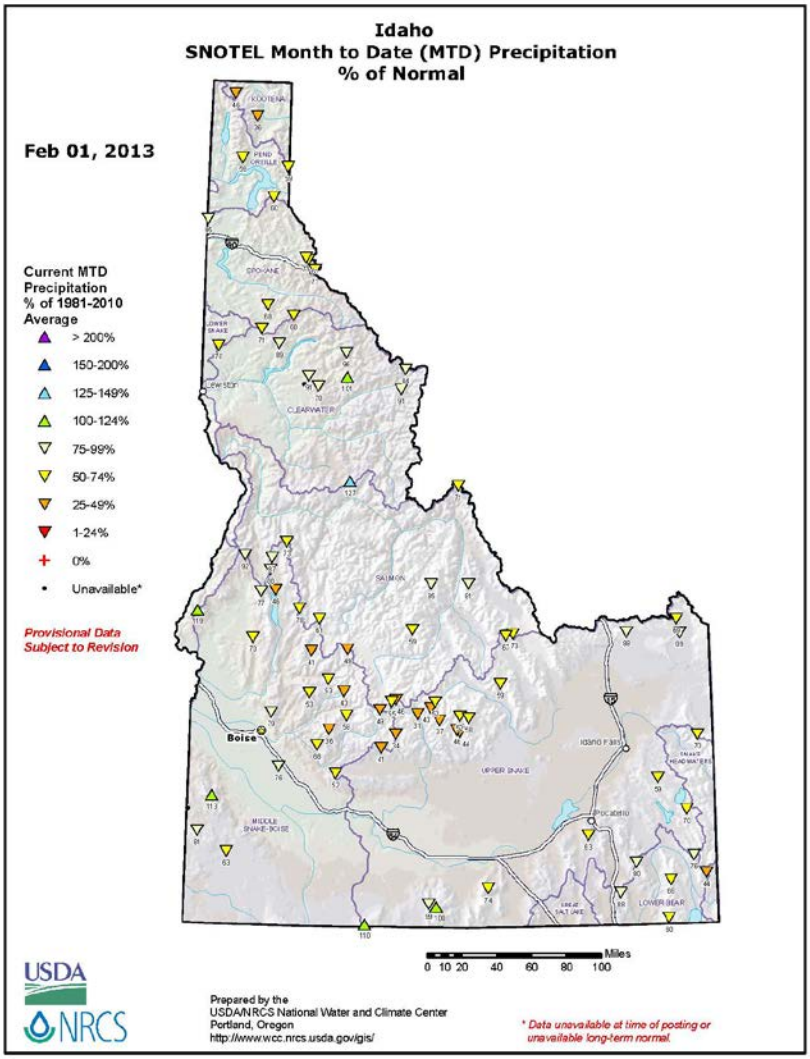


http://www.nwrfc.noaa.gov/WAT_RES_prod//pp.monthly.201301.jpg

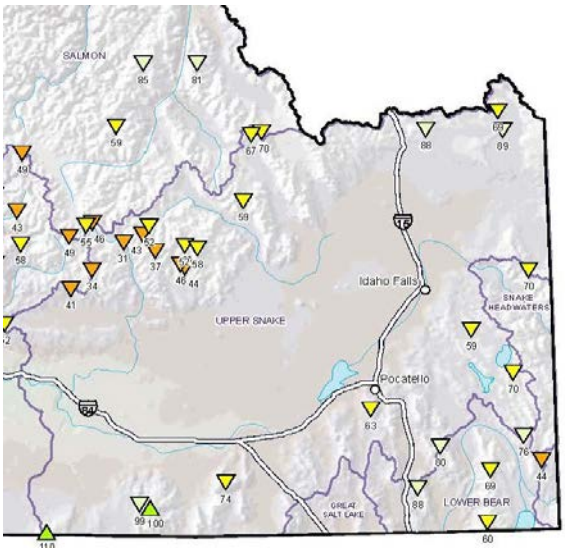


http://www.cbrfc.noaa.gov/wsup/pub2/outlook3.php?region=sl&month=2&year=2013#precip

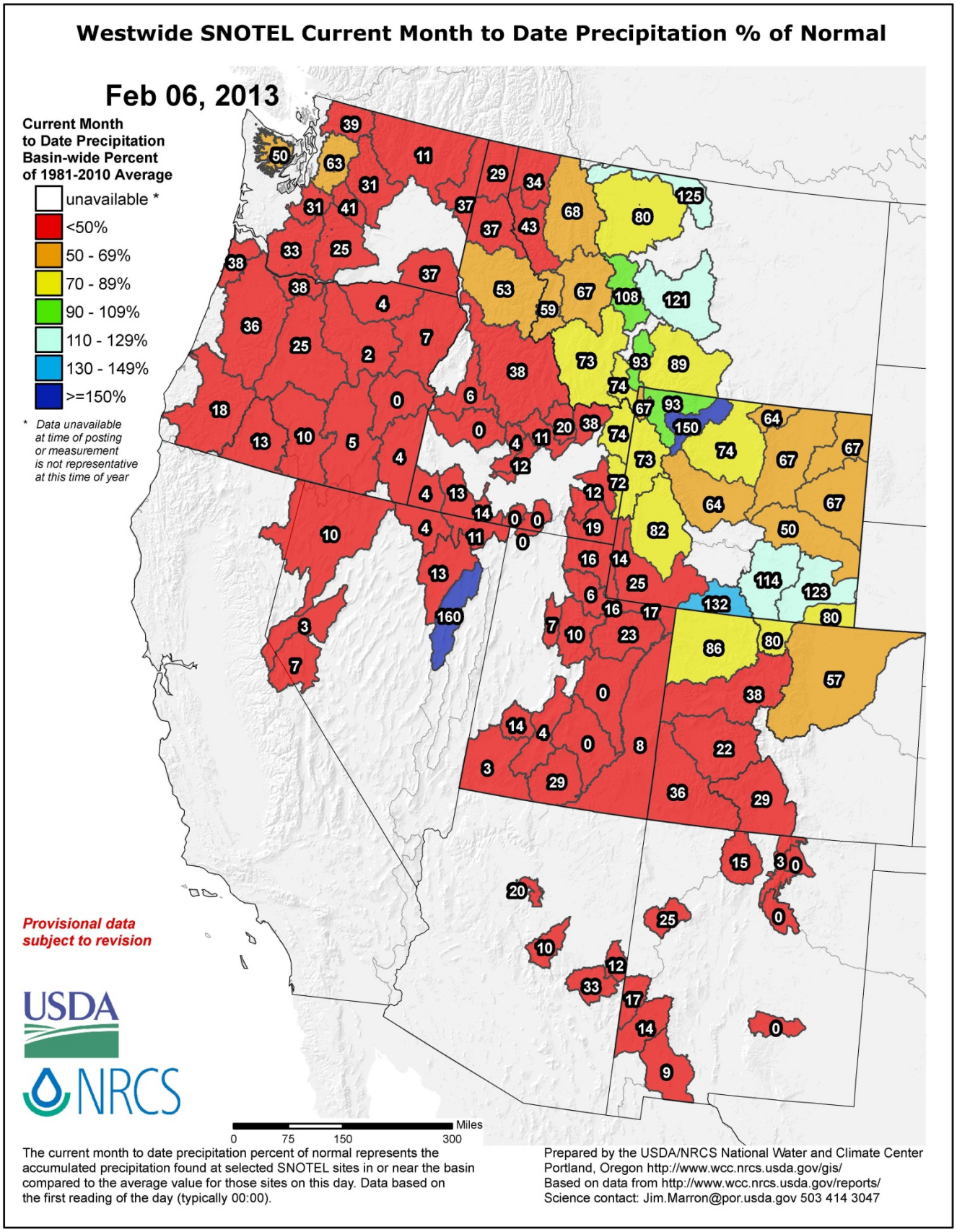




SNOTEL MTD % of Normal Precipitation for end of January 2013
(image below is cropped from left image)



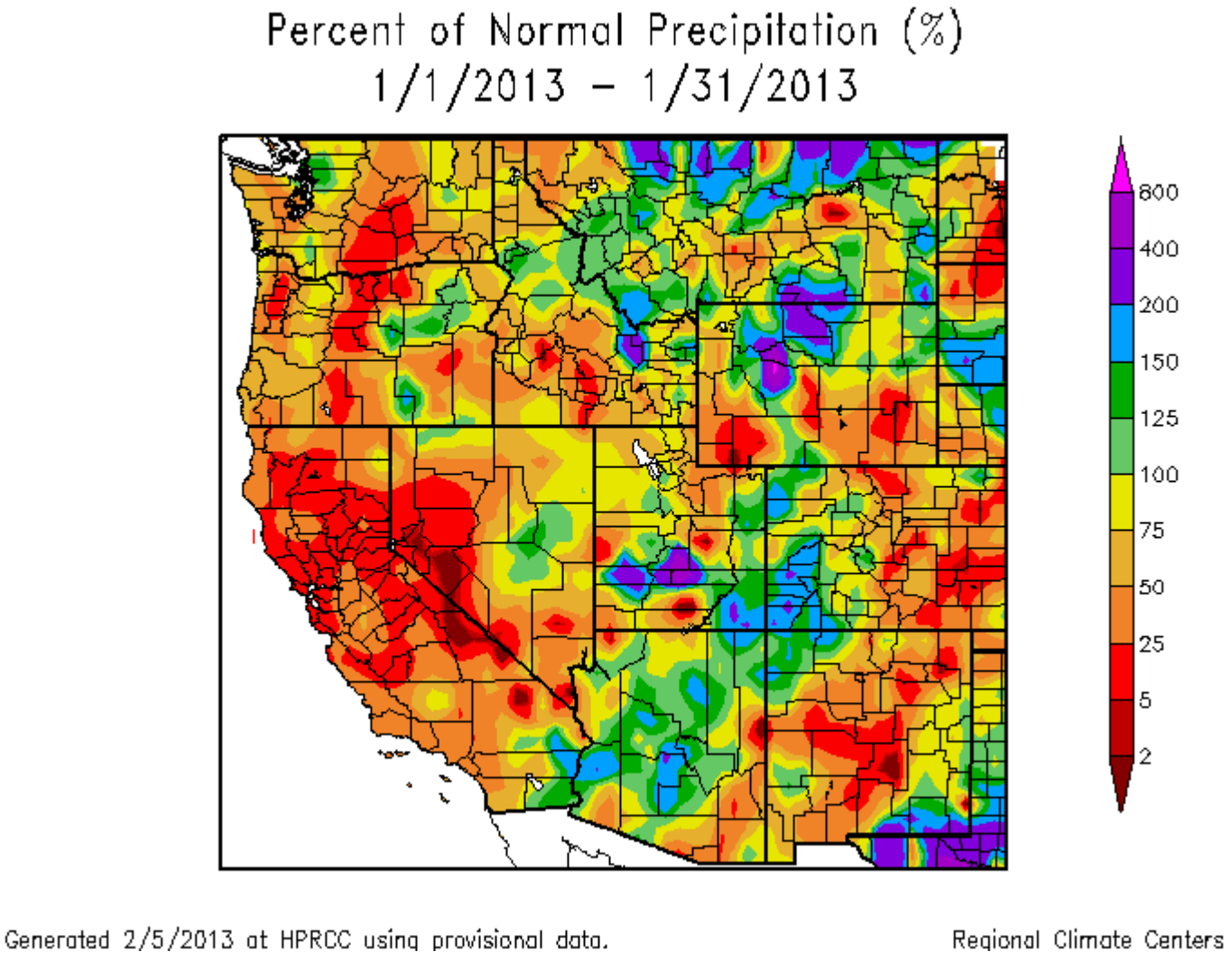
ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/gis/maps/1stmonth/id/prec/id_mtdprecpctnormal_Feb.pdf



http://www.wcc.nrcs.usda.gov/gis/images/west_mtdprecpctnormal_update.pdf

Note: The ENSO Neutral climate pattern is forecast to continue throughout the season into at least mid-year (see below graphic).

As compared to December's Percent of Normal precipitation, January was quite dry throughout Idaho (especially southern Idaho) and the Pacific Northwest.

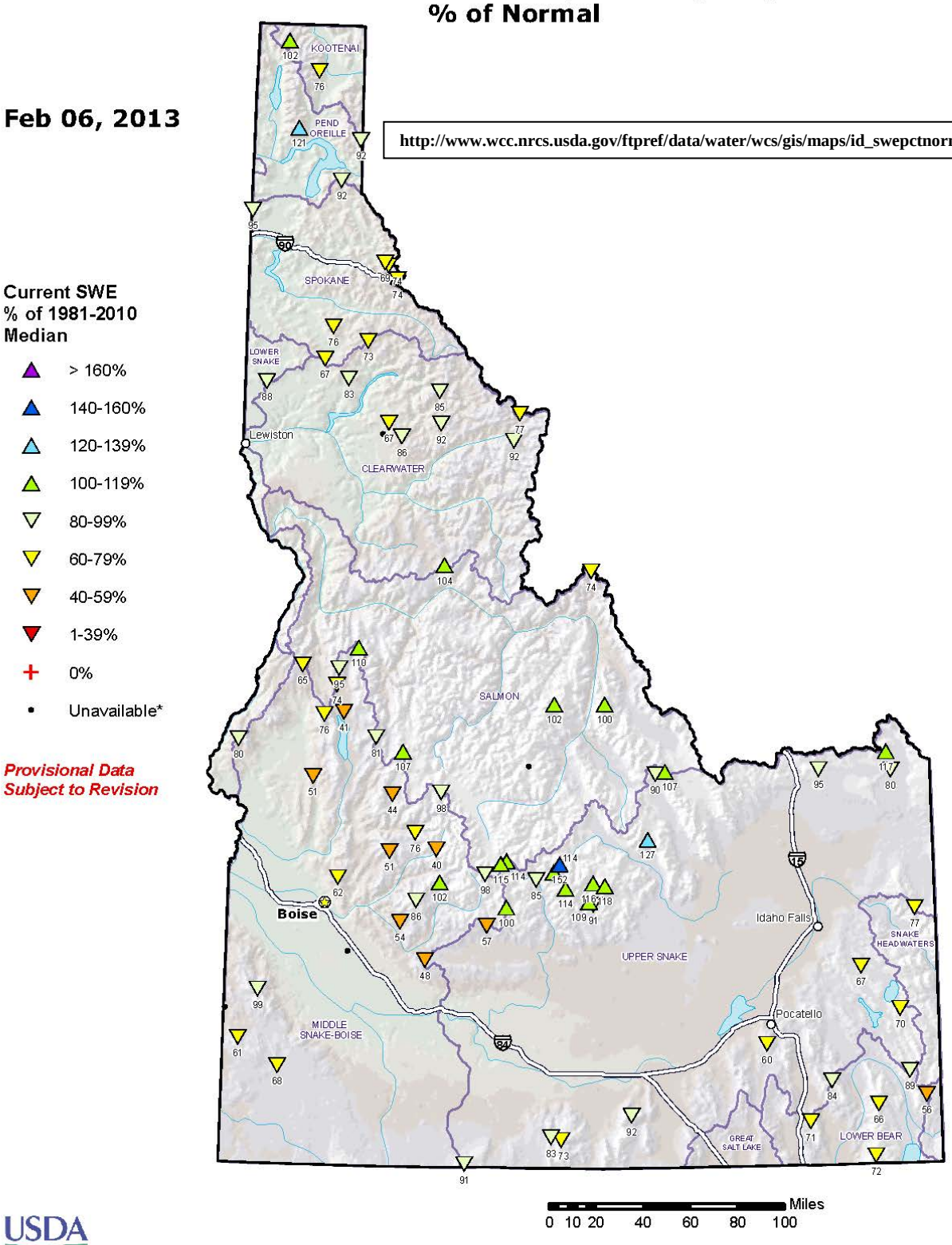


http://www.hprcc.unl.edu/maps/current/index.php?action=update_type&map_type=

Idaho
SNOTEL Snow Water Equivalent (SWE)
% of Normal

Feb 06, 2013

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*

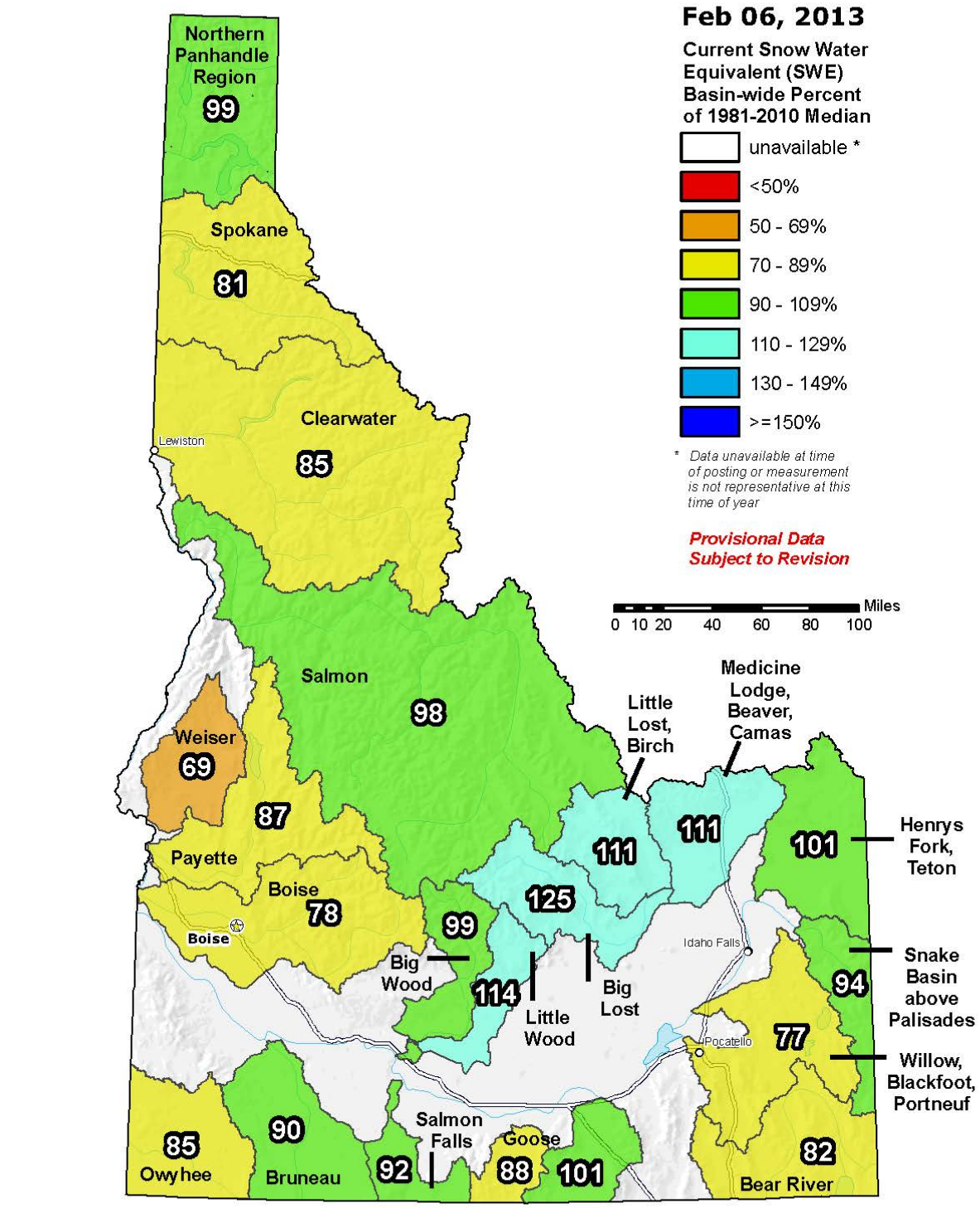
Provisional Data Subject to Revision

USDA NRCS

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.*

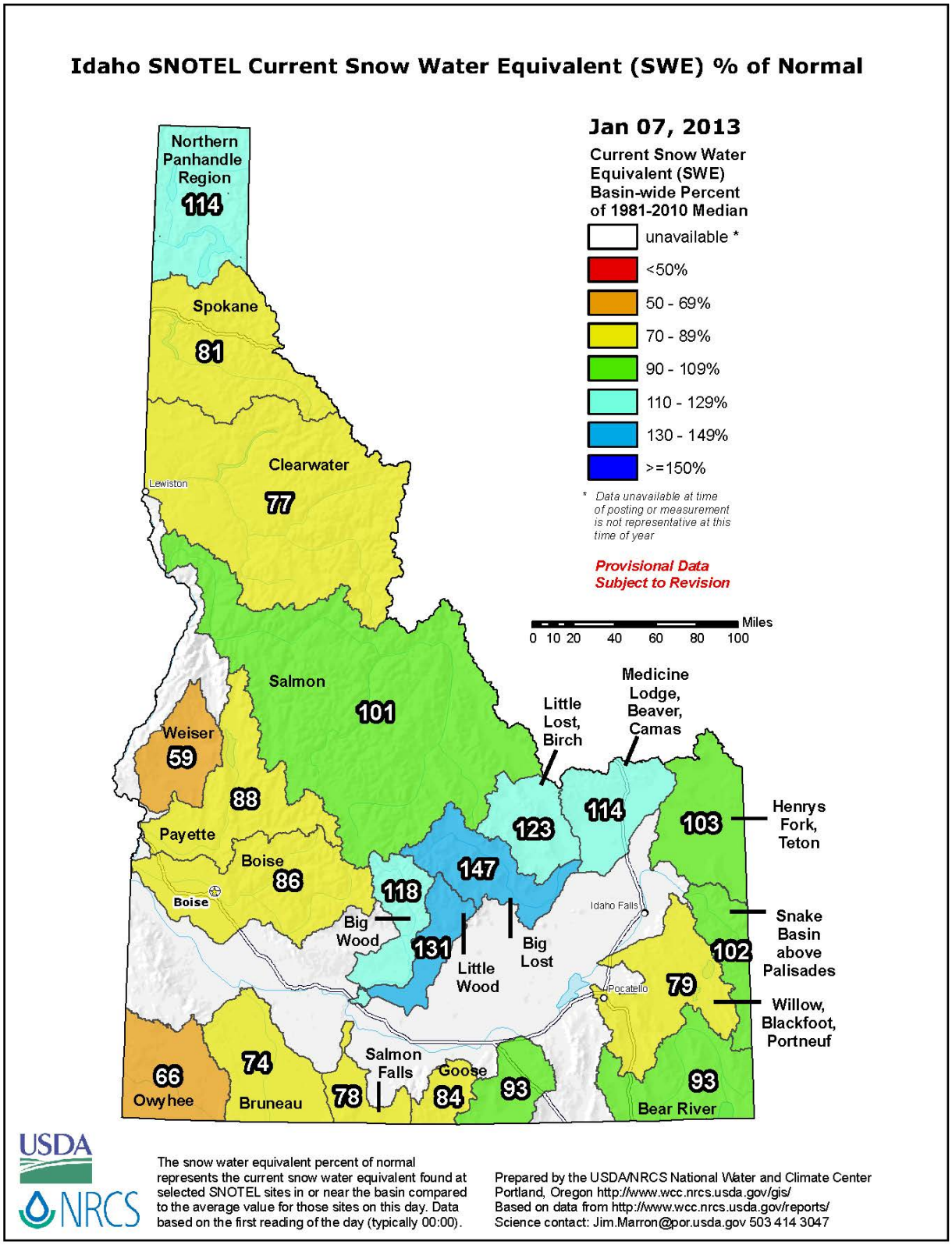
Idaho SNOTEL Current Snow Water Equivalent (SWE) % of Normal



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).

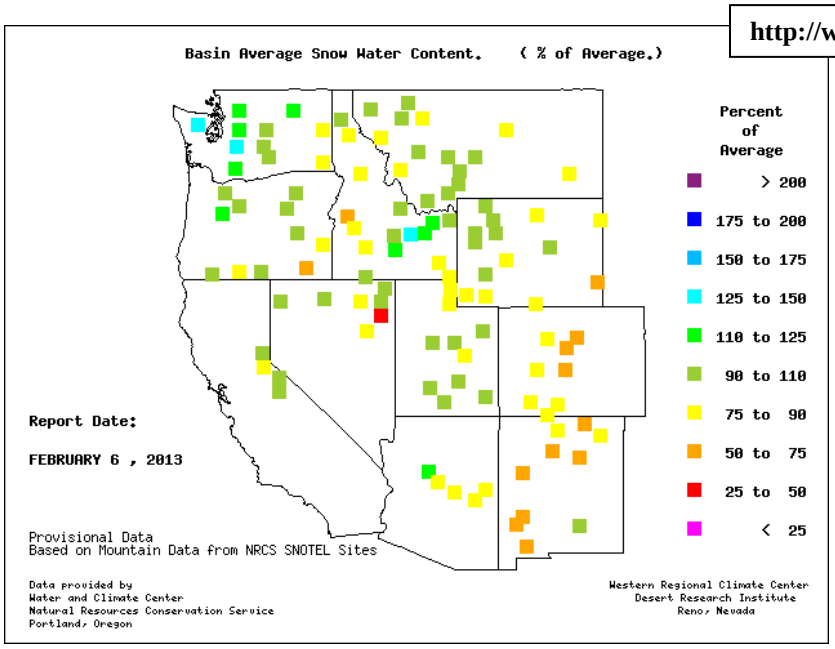
Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/
Based on data from http://www.wcc.nrcs.usda.gov/reports/
Science contact: Jim.Marron@por.usda.gov 503 414 3047

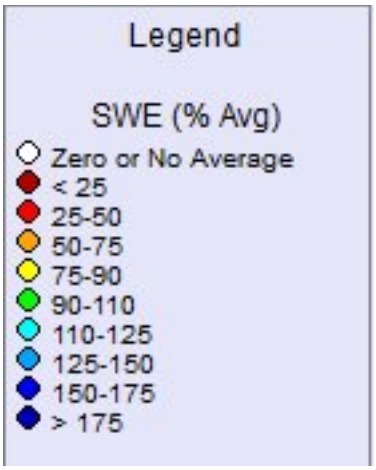
Again, an overall reduction in swe percents of normal over the majority of the HSA basins compared to last month with the exception of the Salmon Falls/Goose Crk and Oakley Basins (see below):



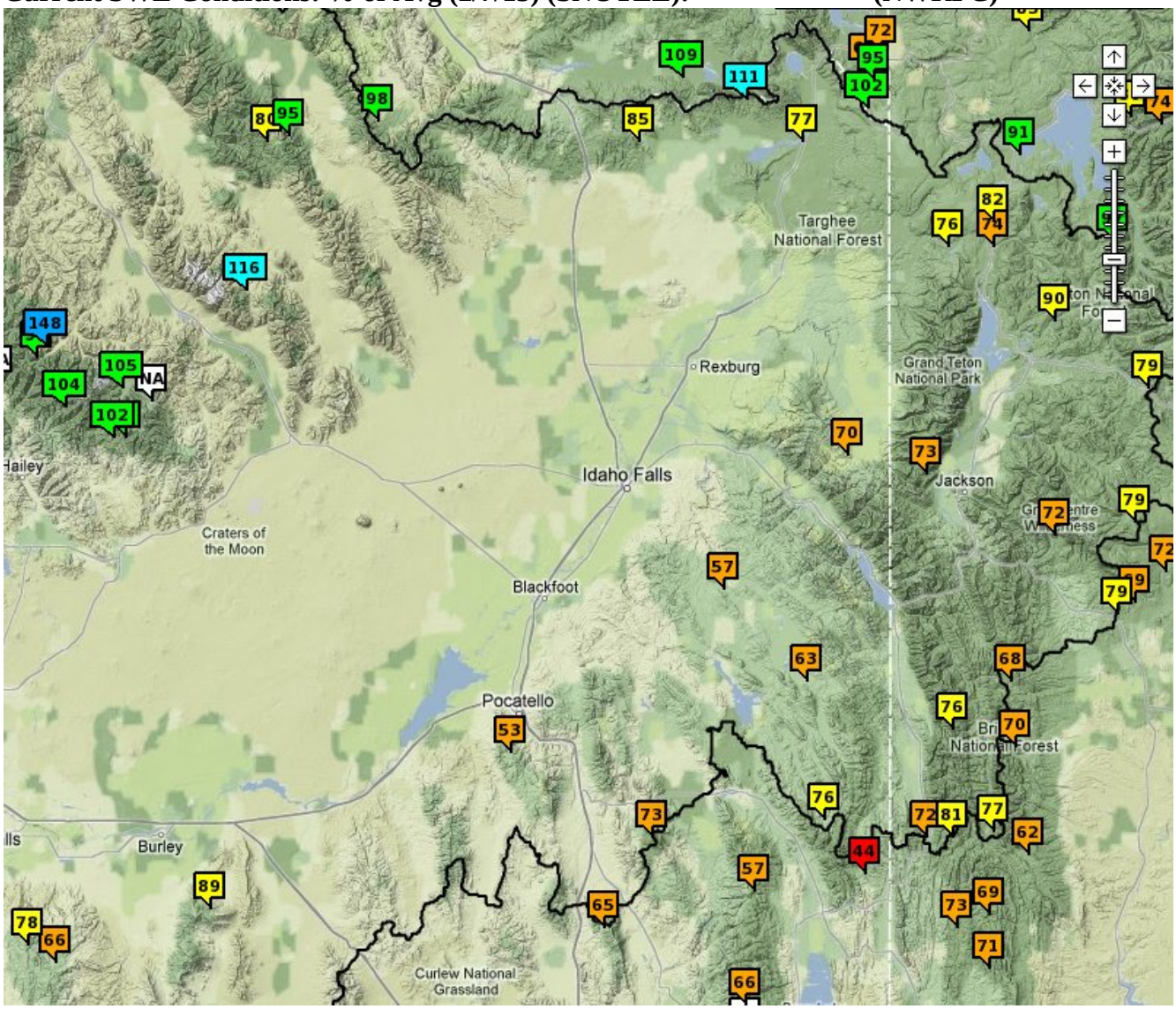
http://www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/id_swepctnormal_update.pdf

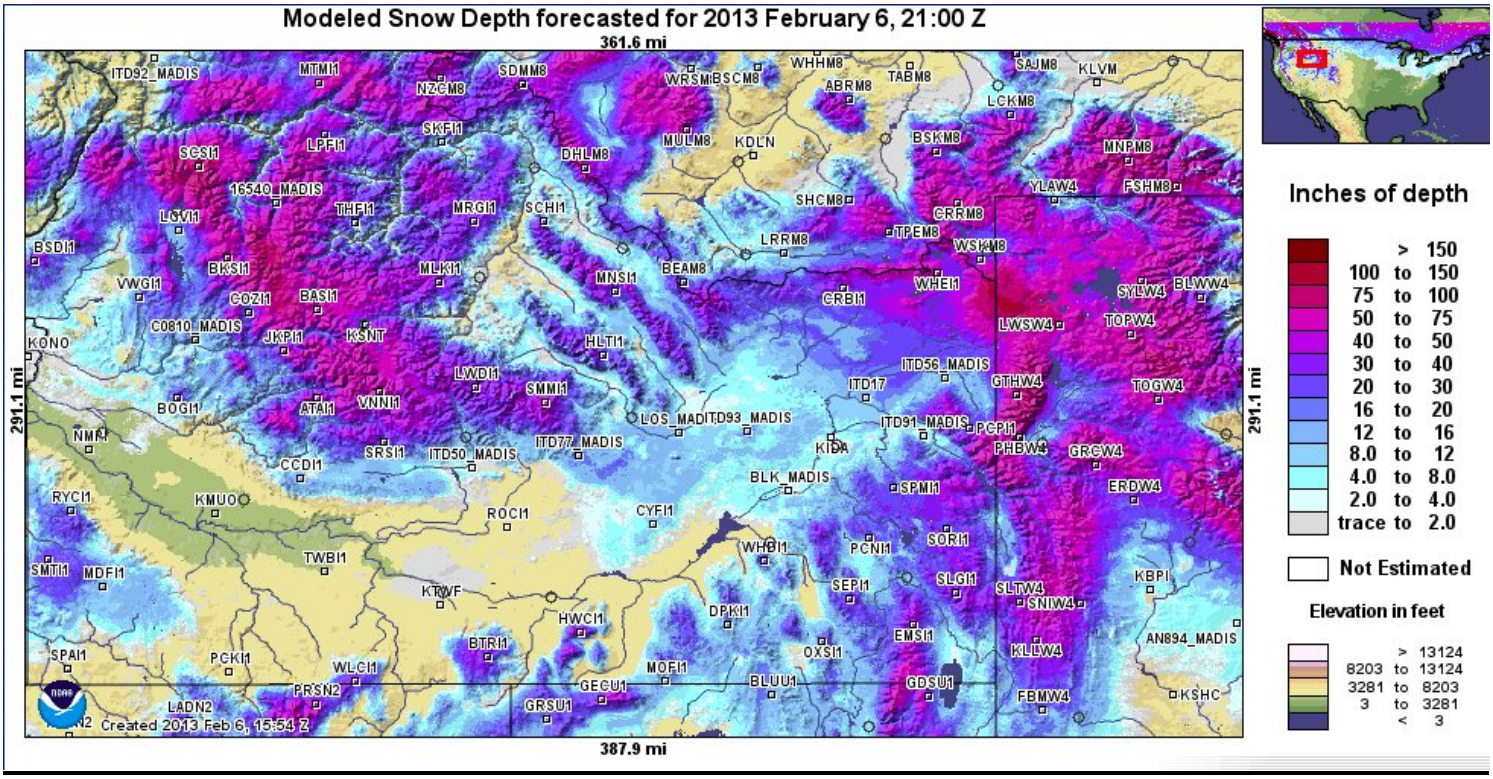
http://www.wrcc.dri.edu/snotelanom/basinswe.html





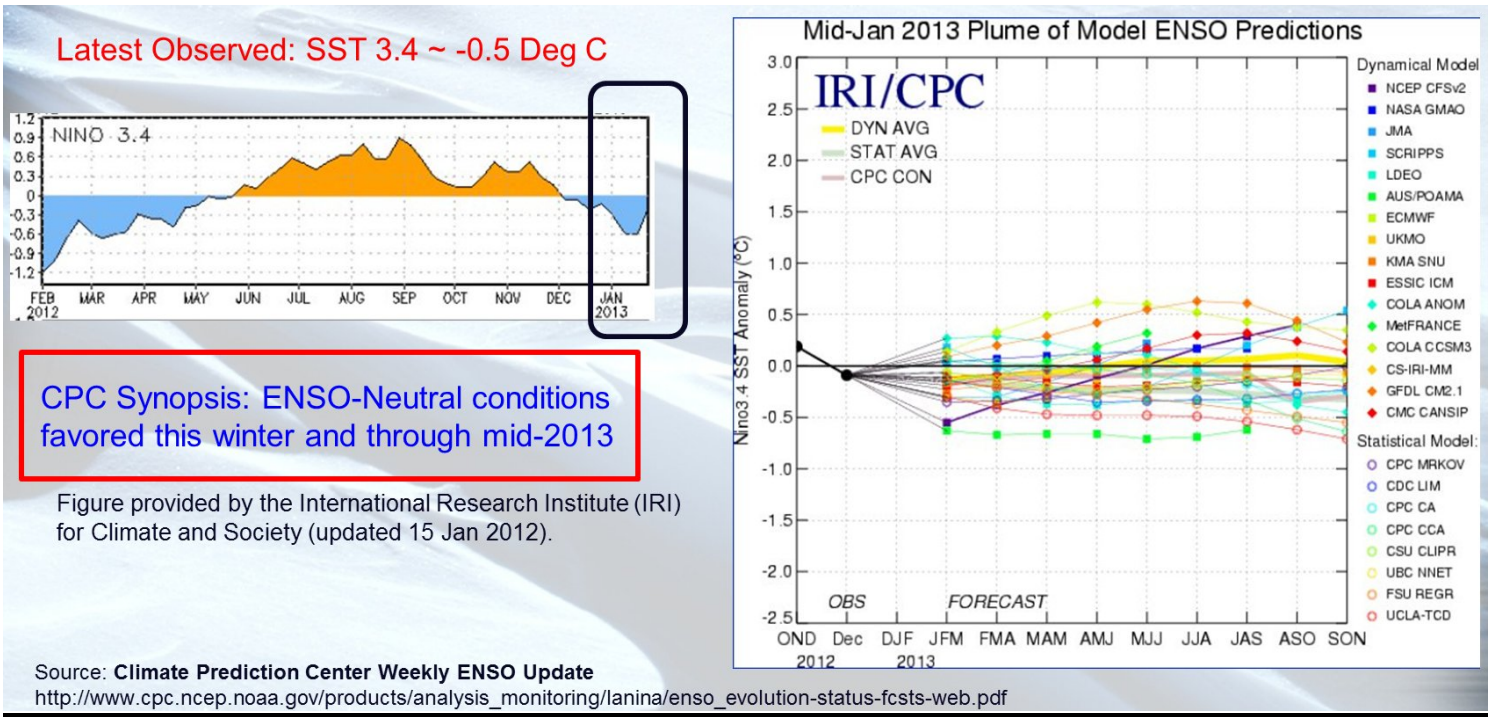
Current SWE Conditions: % of Avg (2/7/13) (SNOTEL): (NWRFC)





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

ENSO Update:



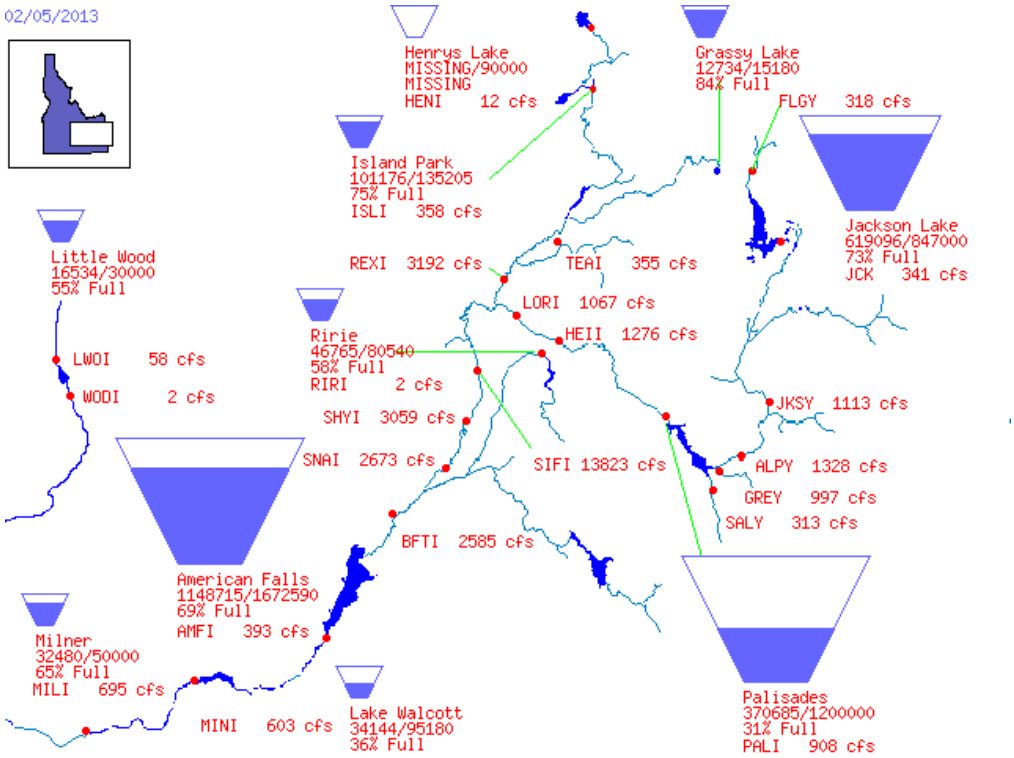
Source: **Climate Prediction Center Weekly ENSO Update**
http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf

Reservoirs:

Reservoir	% Capacity Dec 31[1]	% Capacity Jan 31[2]	Percent Change	% of Average[2]	% of Last Year[2]
Henry's Lake	99	100	1	113	104
Island Park	72	75	3	101	92
Jackson Lake	72	73	1	143	97
Palisades	35	40	5	61	45
Ririe	55	58	3	120	105
Blackfoot	62	64	2	126	79
American Falls	49	66	17	99	95
Bear Lake	62	62	0	125	81
Magic	10	12	2	33	19
Little Wood	43	53	10	98	61
Mackay	64	72	8	123	87
Oakley	24	27	3	89	59
Lake Walcott	33[3]	36[4]	3	n/a	n/a
Milner	62[3]	65[4]	3	n/a	n/a

Source: (1) NRCS December 31, 2012; (2) NRCS January 31, 2013.
(3) US Bureau of Reclamation (BOR) January 6, 2013 (4) BOR February 5, 2013

http://www.wcc.nrcs.usda.gov/ftpref/data/water/basin_reports/idaho/wy2013/bareid1.txt

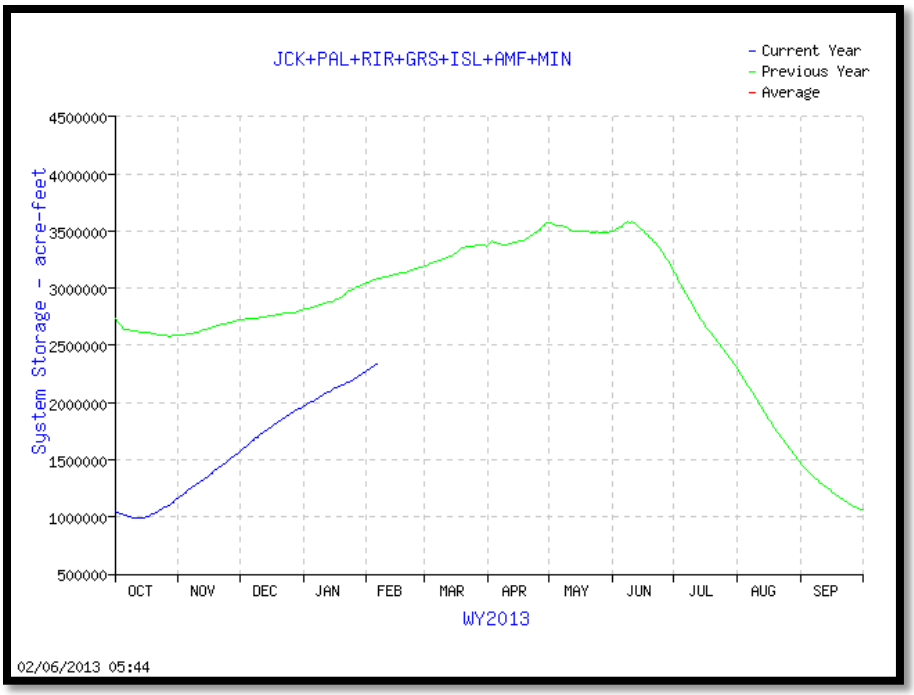


58% of Capacity in Upper Snake River System
(Jackson Lake, Palisades, Grassy Lake, Island Park, Ririe, American Falls & Lake Walcott)

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

Upper Snake River:
Total Space Available: 1,712,377 AF
Total Storage Capacity: 4,045,695 AF

Graph of Upper Snake River Current Total System Reservoir Storage



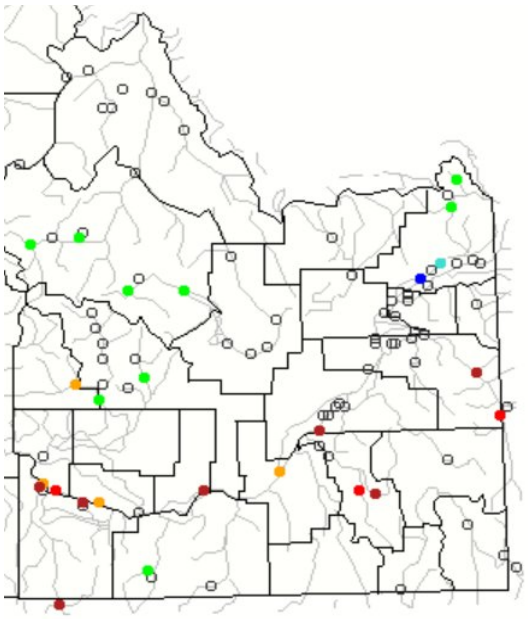
http://www.usbr.gov/pn-bin/graphwy2.pl?snasys_af

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

	EOM Contents	Percent EOM Average	Percent Usable Capacity	Last Year EOM	Last Year %Average	EOM Average	Usable Capacity
Bear Lake, Nr Lifton	879.1	125	68	972.0	138	703.9	1302.0

http://www.cbrfc.noaa.gov/wsup/pub2/outlook3.php?region=sl&month=2&year=2013#contents

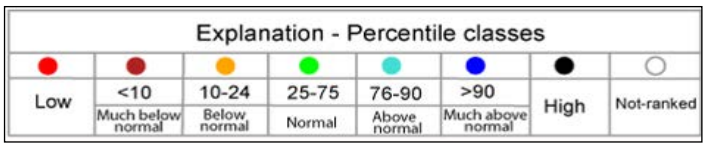
Streamflow:



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

USGS

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

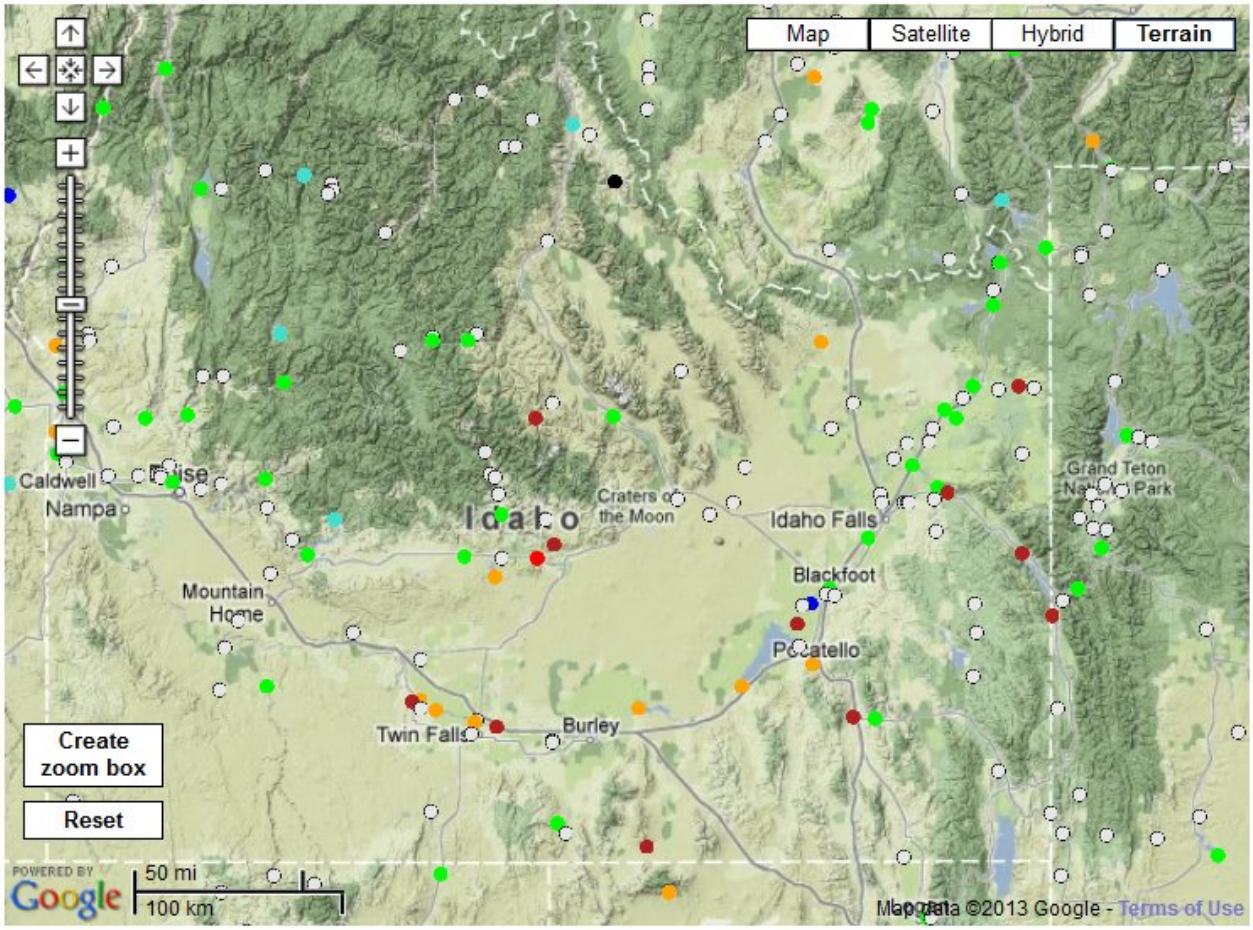


Monthly Below Normal Streamflow for Feb 6, 2013:

Map | HUC Map | Google Map

Map of real-time streamflow compared to historical streamflow for the day of the year (Idaho)

Idaho or Water-Resources Regions



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

http://waterwatch.usgs.gov/index.php?id=mv01d_dry&sid=w__gmap|m__mvd_dry&r=id

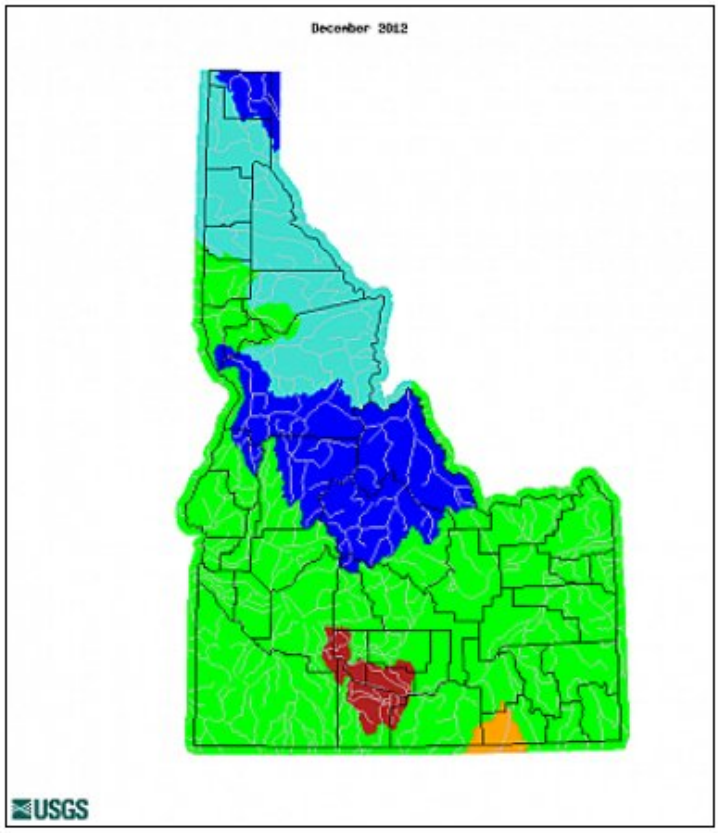
Historic Streamflow Comparisons (Dec ‘12 to Jan ‘13 and Jan ‘12 to Jan ‘13):

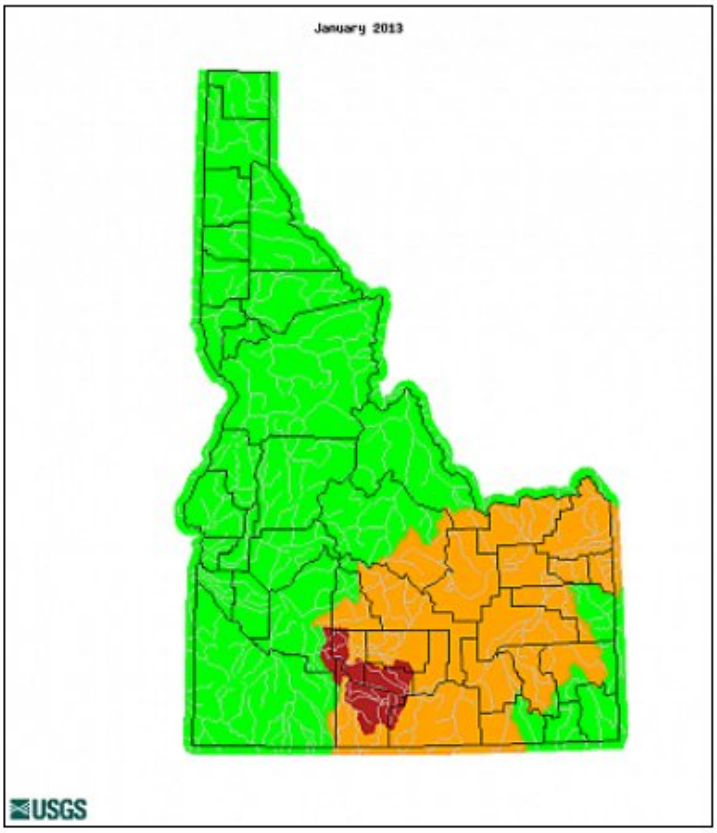
Comparison of Monthly Streamflow Maps

Geographic Area: Idaho | Water Resource Region: | Map Type: HUC | GO

Date (YYYYMM): 201212

Date (YYYYMM): 201301



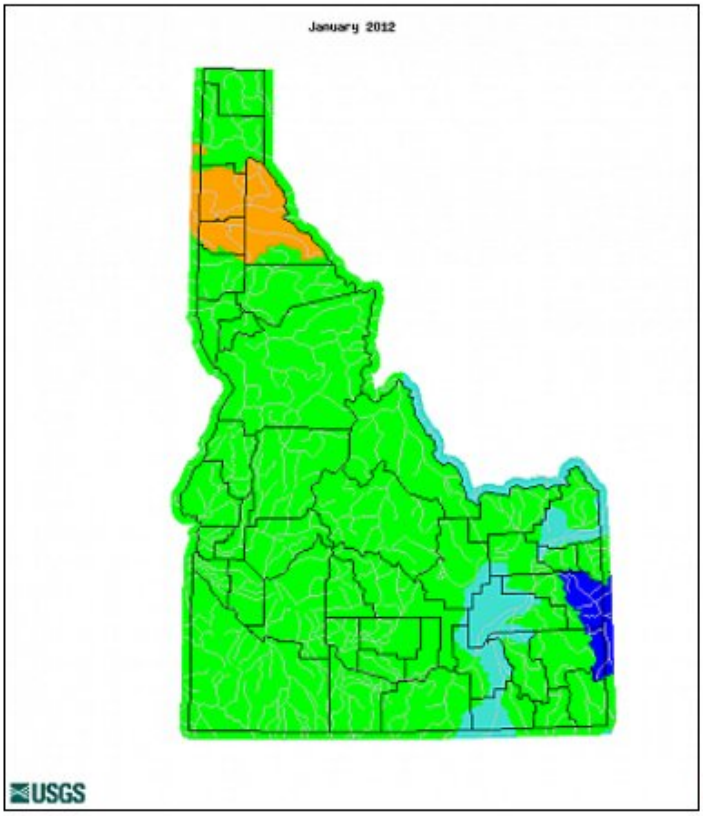


Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

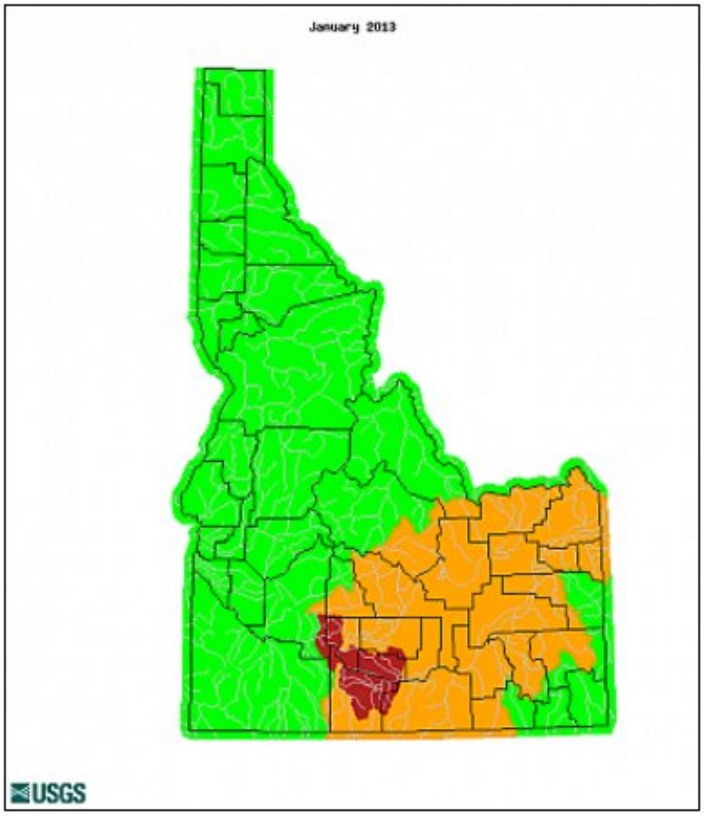
Comparison of Monthly Streamflow Maps

Geographic Area: Idaho | Water Resource Region: | Map Type: HUC | GO

Date (YYYYMM): 201201



Date (YYYYMM): 201301



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

Drought Information:

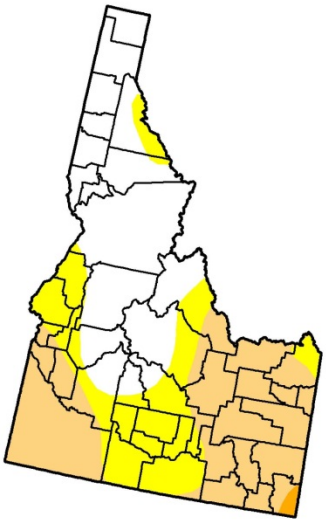
U.S. Drought Monitor

February 5, 2013
Valid 7 a.m. EST

Idaho

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	39.63	60.37	36.69	0.52	0.00	0.00
Last Week (01/29/2013 map)	38.79	61.21	36.69	0.52	0.00	0.00
3 Months Ago (11/06/2012 map)	24.28	75.72	58.57	0.91	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 (01/31/2012 map)	45.55	54.45	0.00	0.00	0.00	0.00



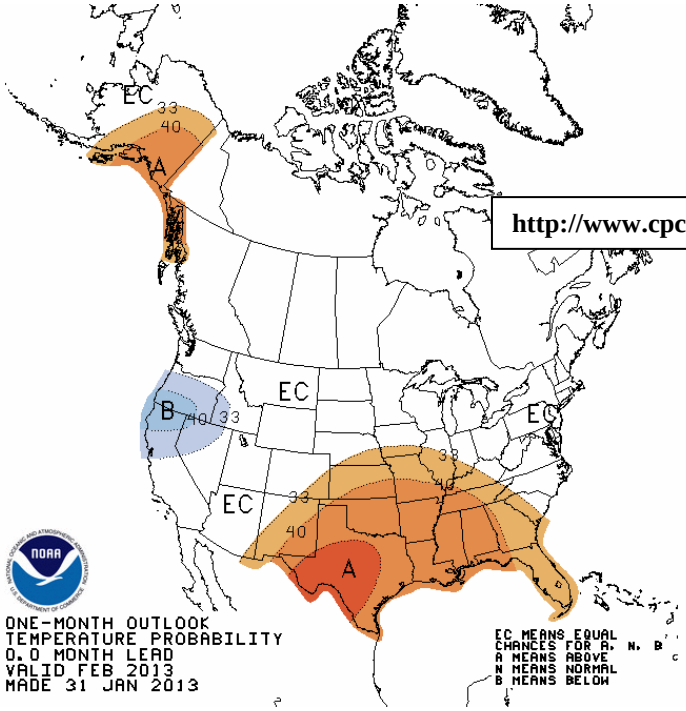
Intensity:

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

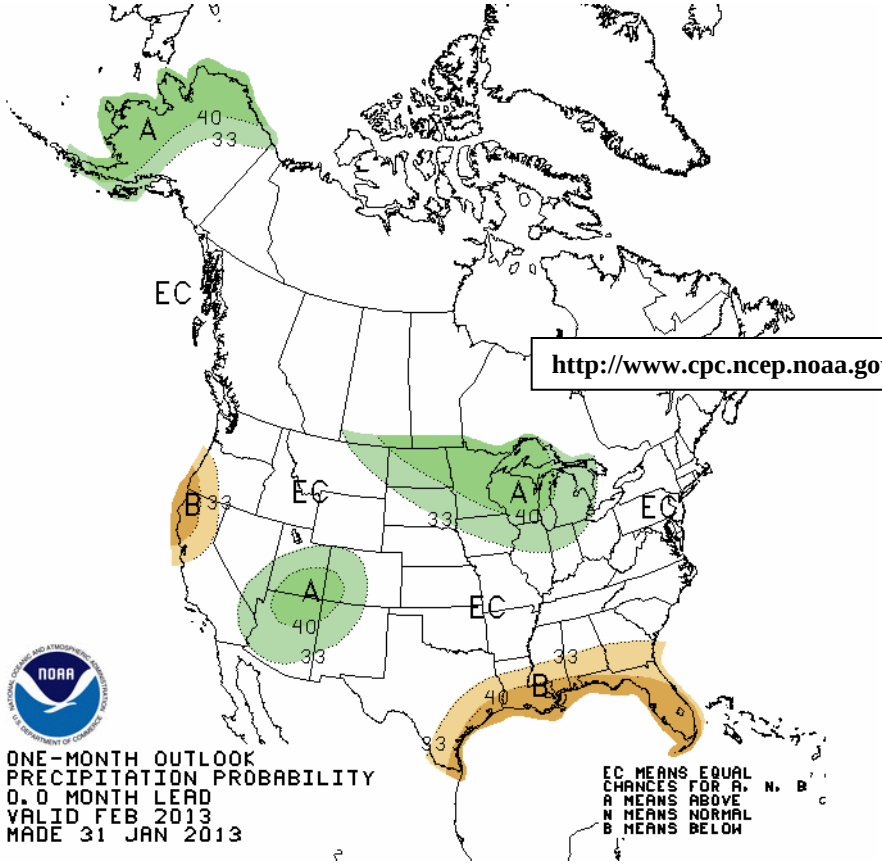
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu

Released Thursday, February 7, 2013
Michael Brewer, National Climatic Data Center, NOAA



http://www.cpc.ncep.noaa.gov/products/predictions/30day/off15_temp.gif



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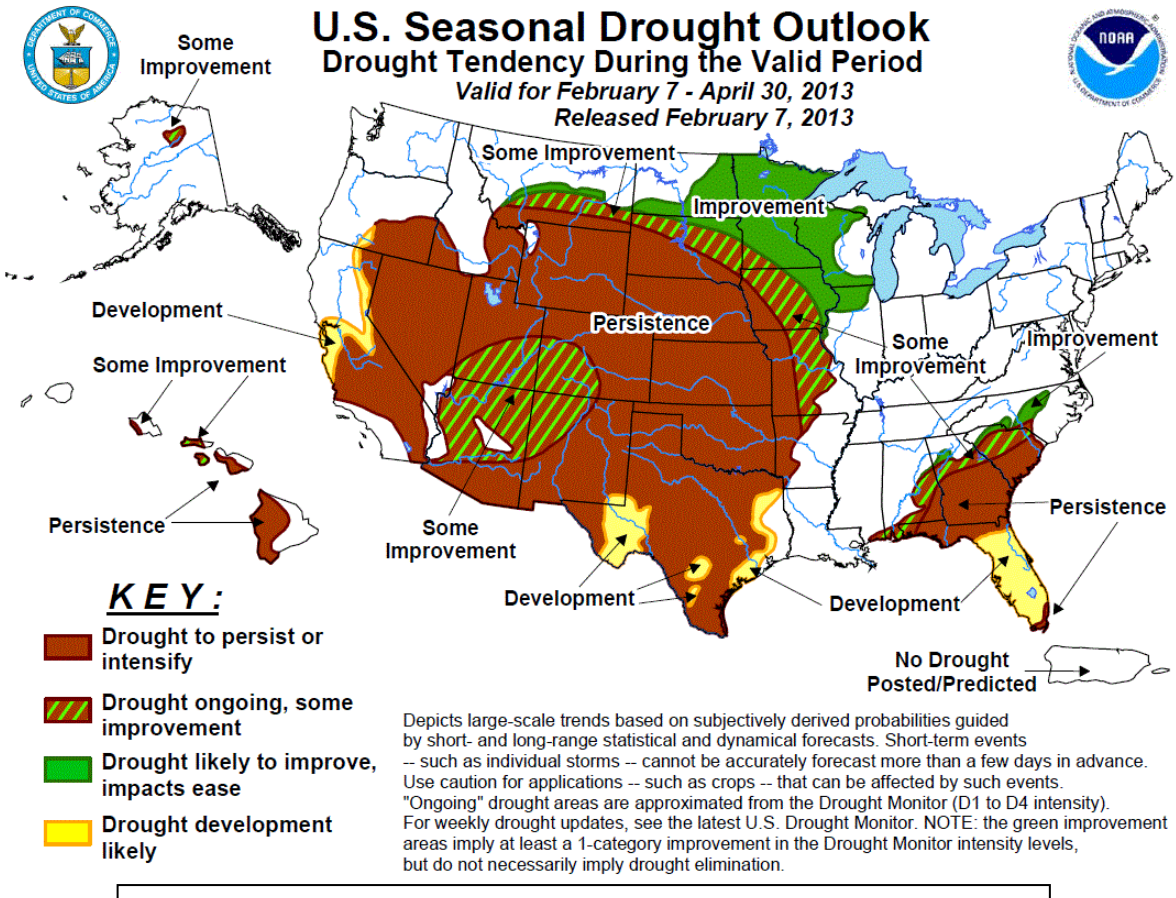
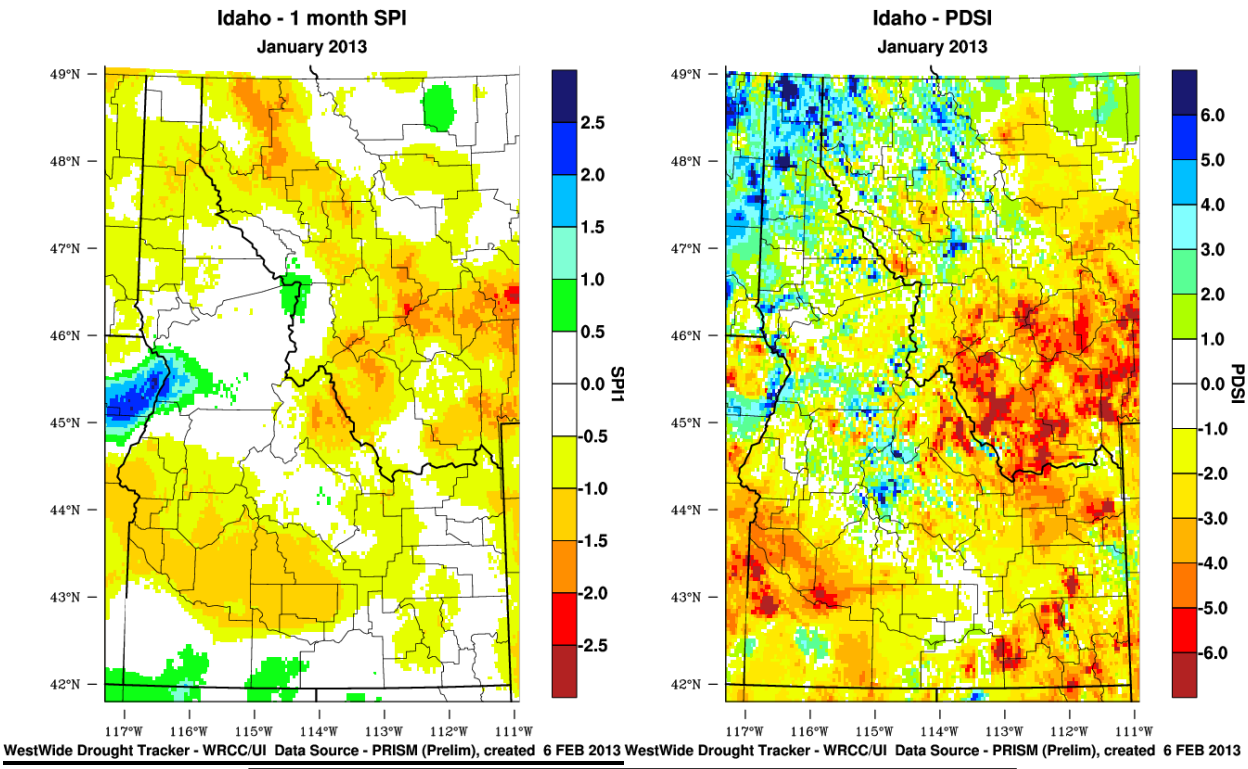
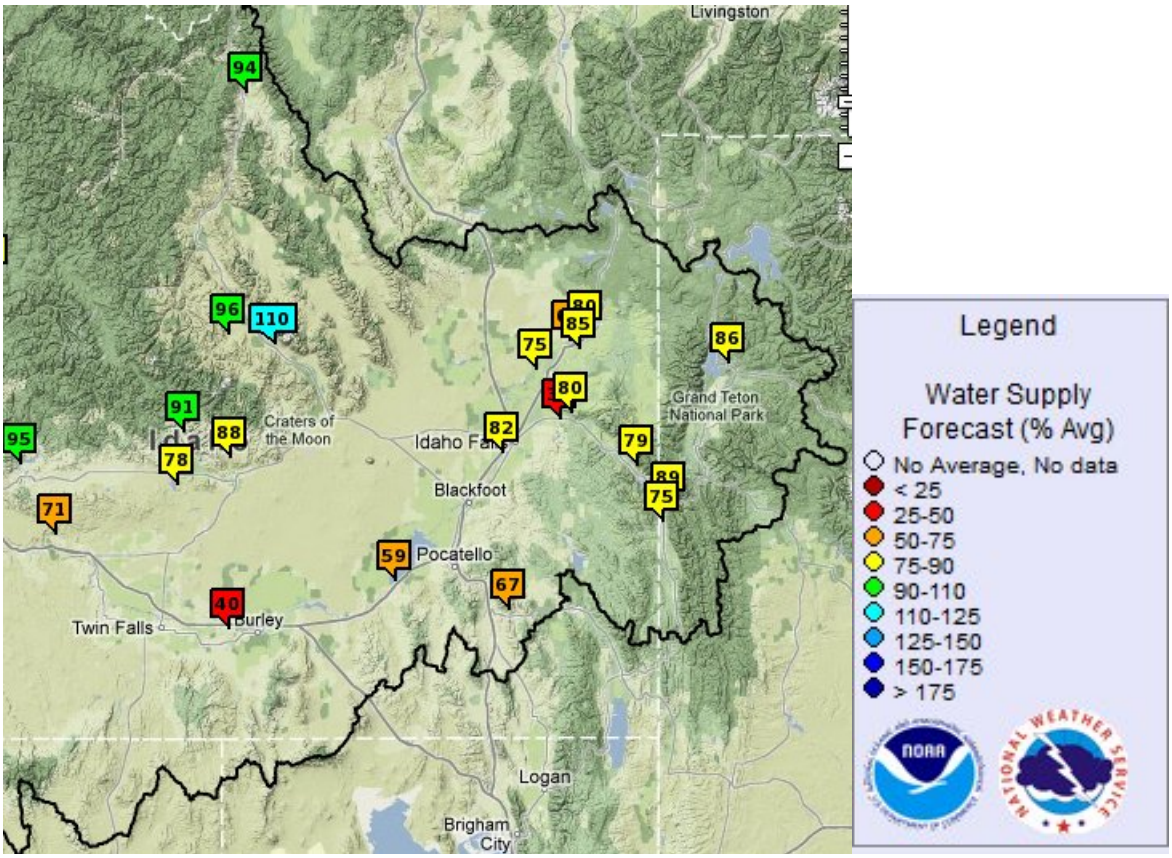


http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.gif



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

Water Supply: **NWRFC Water Supply Volume Forecast Map (2/7/13):**



For a table format of the forecasts for WFO PIH:

http://www.nwrfc.noaa.gov/water_supply/ws_report.cgi?Type=WFO&Source=Pocatello&Wyr=2013&WyrDate=2013-02-06

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

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

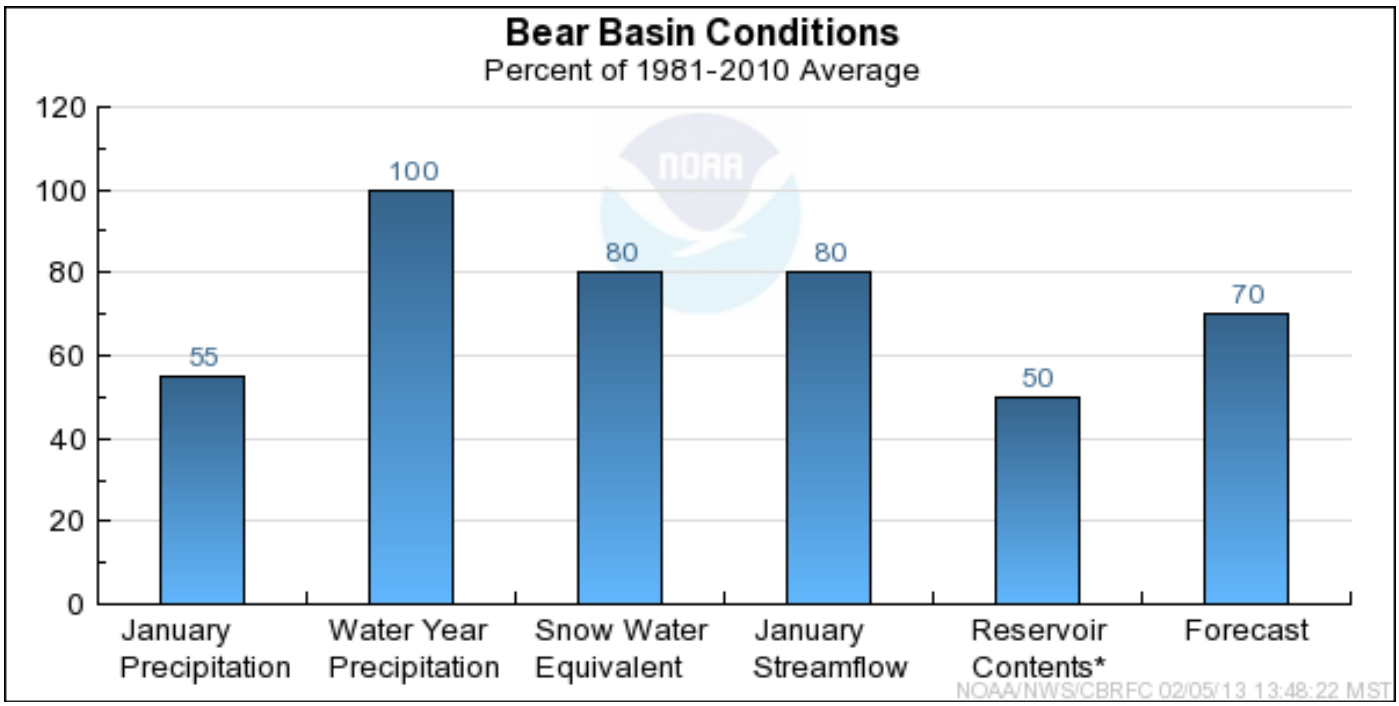
Water Supply Point %Avg/Median
▲ < 70 △ 70-90 ▲ 90-110 △ 110-130 ▲ >130 ▲ Regulated

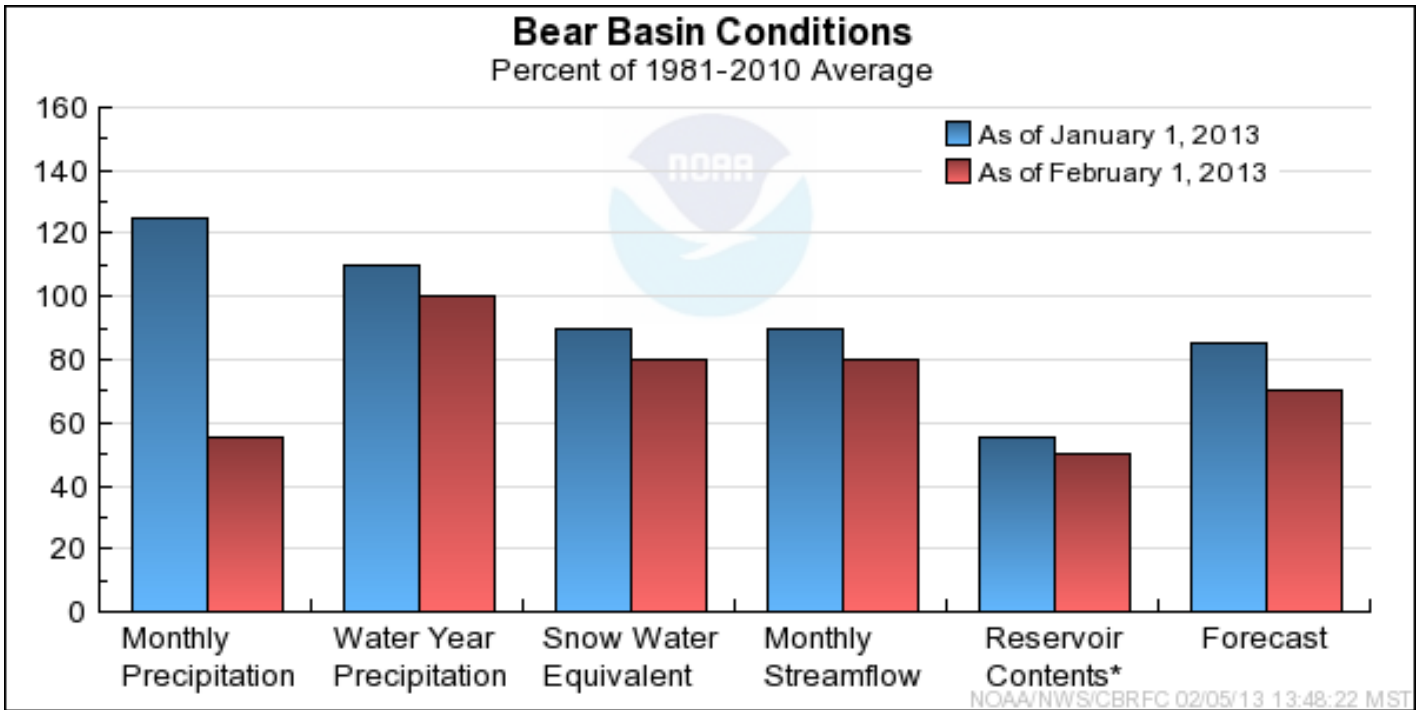
All forecasts and averages are in thousand acre-feet (kaf)
MP=Most Probable

	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	△	2013-02-01	35	**88**	130	**73%**	**80%**	*121*	*110*
2	BERU1	Bear - Utah-wyoming State Line Nr	△	2013-02-01	45	**78**	111	**70%**	**74%**	*112*	*106*
3	BORW4	Smiths Fork - Border Nr	△	2013-02-01	40	**63**	95	**71%**	**79%**	*89*	*80*
4	HRMU1	Blacksmith Fork - Hyrum Nr Upnl Dam Abv	△	2013-02-01	14	**30**	50	**70%**	**103%**	*43*	*29*
5	LGNU1	Logan - Logan Nr State Dam Abv	△	2013-02-01	50	**85**	121	**77%**	**88%**	*111*	*97*
6	PRZU1	Little Bear - Paradise	▲	2013-02-01	10	**28**	50	**60%**	**55%**	*47*	*51*
7	STDI1	Bear - Montpelier Nr Stewart Dam Blo	▲	2013-02-01	50	**120**	200	**66%**	**103%**	*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

Bear River Basin Conditions:





http://www.cbrfc.noaa.gov/wsup/pub2/outlook3.php?region=sl&month=2&year=2013#br

NRCS-NWCC Water Supply Forecast Report for upper Snake River Basin (February 1 Forecast):

Feb 1, 2013 NRCS Streamflow Forecasts
USDA NRCS National Water & Climate Center
* DATA CURRENT AS OF: 2/05/13 11:29:34

SALMON RIVER BASIN

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Salmon R at Salmon (1)	APR-JUL	820	106	1160	925	715	480	775
	APR-SEP	950	106	1350	1070	825	555	900
Lemhi R nr Lemhi	APR-JUL	65.0	88	104	80.0	52.0	35.0	74.0
	APR-SEP	79.0	88	123	96.0	64.0	44.0	90.0
MF Salmon R at MF Lodge	APR-JUL	785	114	1050	895	675	515	690
	APR-SEP	875	114	1170	995	755	575	770

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)	APR-JUL	260	111	405	305	215	117	235
	APR-SEP	295	111	455	345	245	134	265
Big Wood R ab Magic Res	APR-JUL	187	110	325	235	145	95.0	170
	APR-SEP	200	110	345	250	155	103	182
Camas Ck nr Blaine	APR-JUL	52.0	63	115	75.0	33.0	13.5	82.0
	APR-SEP	53.0	64	117	75.8	34.3	14.1	83.0
Big Wood R bl Magic Dam (2)	APR-JUL	240	96	340	245	121	27.0	250
	APR-SEP	255	96	415	320	190	93.0	265
Little Wood R ab High Five Ck	MAR-JUL	89.0	116	157	114	67.0	40.0	77.0
	MAR-SEP	96.0	117	169	123	72.0	44.0	82.0
Little Wood R near Carey (2)	MAR-JUL	87.0	101	121	101	73.0	53.0	86.0
	MAR-SEP	94.0	102	131	109	79.0	57.0	92.0
Big Lost R at Howell Ranch	APR-JUL	188	118	261	218	158	115	159
	APR-SEP	210	117	294	244	176	126	180
Big Lost R Below Mackay Res	APR-JUL	150	122	225	180	120	75.0	123
	APR-SEP	179	119	266	214	144	92.0	150
Little Lost R nr Howe	APR-JUL	28.0	100	40.6	32.8	23.6	17.7	28.0
	APR-SEP	34.0	100	49.8	40.0	28.5	21.2	34.0
Camas Ck at Camas	APR-JUL	35.0	125	55.4	43.3	26.7	14.6	28.0

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)	APR-JUL	505	95	651	562	451	378	530
	APR-SEP	680	96	853	747	616	527	710
Henrys Fork nr Rexburg (2)	APR-JUL	1280	91	1558	1392	1168	1002	1400
	APR-SEP	1650	92	1964	1777	1523	1336	1790
Falls R nr Ashton (2)	APR-JUL	320	88	397	350	291	251	365
	APR-SEP	380	87	469	415	347	300	435
Teton R nr Driggs	APR-JUL	120	78	166	138	103	81.0	154
	APR-SEP	152	79	212	175	131	102	193
Teton R nr St. Anthony	APR-JUL	295	81	403	337	256	204	365
	APR-SEP	355	82	481	404	310	248	435
Snake R at Flagg Ranch	APR-JUL	465	100	562	504	426	368	465

	APR-SEP	505	99	609	547	463	401	510
Snake R nr Moran (1,2)	APR-JUL	715	94	900	773	657	530	765
	APR-SEP	790	94	998	855	725	582	845
Pacific Ck At Moran	APR-JUL	155	95	197	172	138	113	164
	APR-SEP	164	95	210	182	146	120	173
Buffalo Fork ab Lava nr Moran	APR-JUL	265	95	323	289	241	207	280
	APR-SEP	300	94	366	327	273	234	320
Snake R nr Alpine (1,2)	APR-JUL	1940	89	2477	2108	1772	1403	2170
	APR-SEP	2230	89	2850	2424	2036	1610	2500
Greys R Nr Alpine	APR-JUL	270	89	358	306	234	182	305
	APR-SEP	315	88	418	356	274	212	360
Salt R Nr Etna	APR-JUL	250	83	391	307	193	109	300
	APR-SEP	315	85	481	382	248	149	370
Snake R nr Irwin (1,2)	APR-JUL	2640	88	3414	2882	2398	1866	3010
	APR-SEP	3070	88	3941	3342	2798	2199	3500
Snake R nr Heise (2)	APR-JUL	2820	87	3479	3087	2553	2161	3240
	APR-SEP	3300	87	4051	3604	2996	2549	3780
Willow Ck nr Ririe	MAR-JUL	50.0	75	96.0	68.6	31.4	4.00	67.0
Blackfoot R ab Res nr Henry	APR-JUN	44.0	73	81.7	57.9	32.0	17.9	60.0
Snake R nr Blackfoot (1,2)	APR-JUL	3560	84	4570	3875	3245	2550	4260
	APR-SEP	4340	83	5574	4725	3955	3106	5220
Portneuf R at Topaz	MAR-JUL	57.0	75	80.0	66.0	49.0	38.0	76.0
	MAR-SEP	70.0	75	97.0	80.0	60.0	47.0	93.0
Snake R at Neeley (1,2)	APR-JUL	2300	87	3692	2735	1865	908	2650
	APR-SEP	2320	83	3827	2791	1849	813	2810

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	MAR-JUL	15.9	72	27.0	20.0	11.4	4.70	22.0
	MAR-SEP	16.7	70	29.0	22.0	11.8	4.70	24.0
Trapper Ck nr Oakley	MAR-JUL	5.00	85	6.60	5.60	4.40	3.40	5.90
	MAR-SEP	6.10	86	7.80	6.80	5.40	4.40	7.10
Oakley Res Inflow (2)	MAR-JUL	21.0	75	36.0	27.0	15.0	6.30	28.0
	MAR-SEP	23.0	74	39.0	29.0	16.6	7.20	31.0
Salmon Falls Ck nr San Jacinto	MAR-JUN	63.0	82	102	78.0	50.0	33.0	77.0
	MAR-JUL	66.0	82	108	82.0	52.0	34.0	81.0
	MAR-SEP	69.0	81	112	85.0	54.0	36.0	85.0

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	82	73	123	99.0	66.0	42.0	112
	APR-SEP	90	73	135	108	72.0	45.0	123
Bear R ab Res nr Woodruff	APR-JUL	91	75	185	129	53.0	5.00	121
	APR-SEP	96	75	216	144	48.0	4.00	128
Big Ck nr Randolph	APR-JUL	2.60	68	4.70	3.40	1.70	0.41	3.80
Smiths Fk nr Border	APR-JUL	68.0	76	104	83.0	54.0	33.0	89.0
	APR-SEP	81	78	121	97.0	65.0	41.0	104
Bear R bl Stewart Dam	APR-JUL	64	35	201	119	20.0	2.00	183
	APR-SEP	66	32	221	129	25.0	4.00	205
Little Bear R at Paradise	APR-JUL	22.0	54	47.0	32.0	11.8	1.20	41.0
Logan R nr Logan	APR-JUL	69	62	119	89.0	49.0	19.0	111
Blacksmith Fork nr Hyrum	APR-JUL	37.0	86	61.0	47.0	27.0	12.7	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

Ice Jam:

Lemhi River ice jam (unknown date)

cc:

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