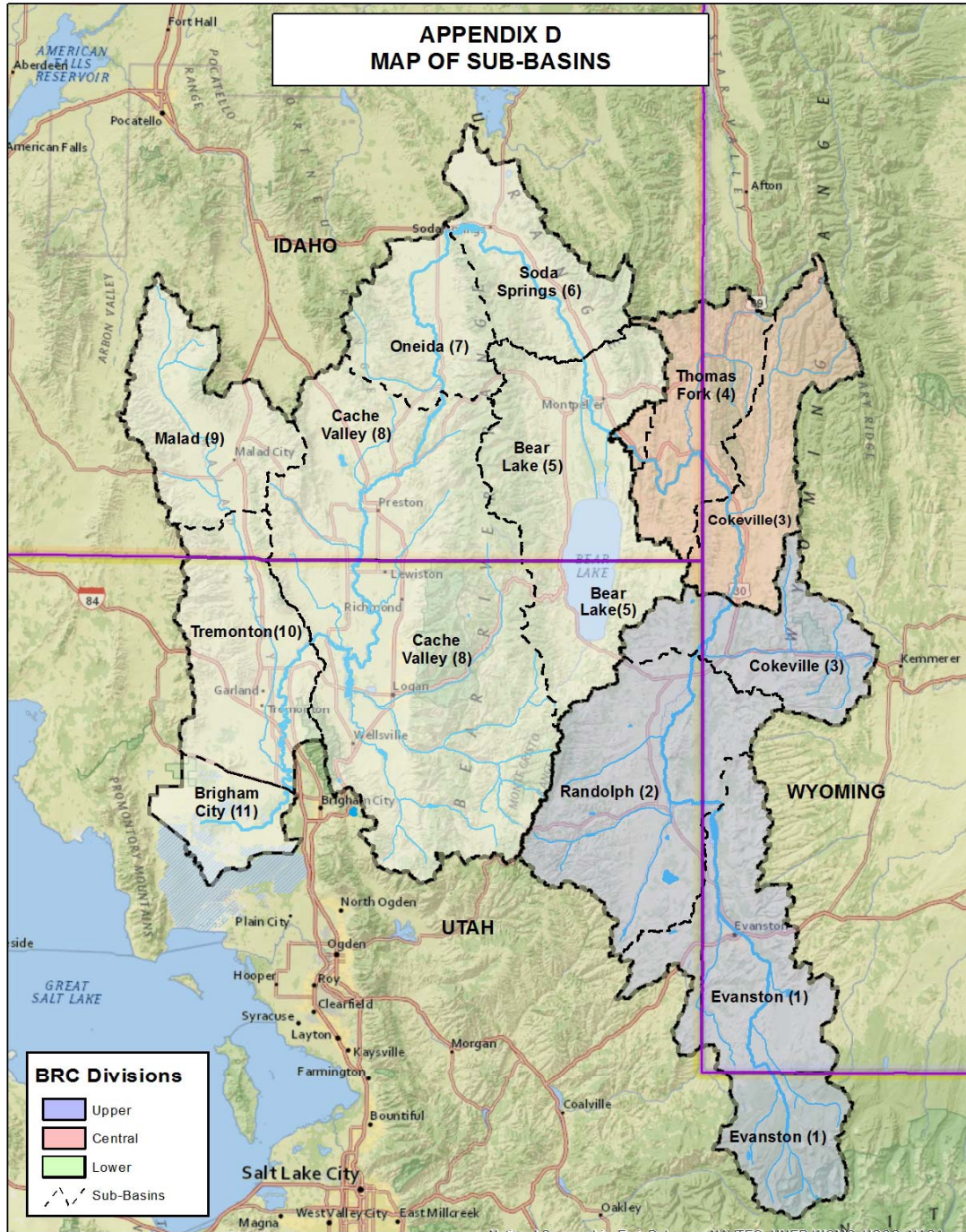


CURRENT CONDITIONS IN THE BEAR RIVER BASIN

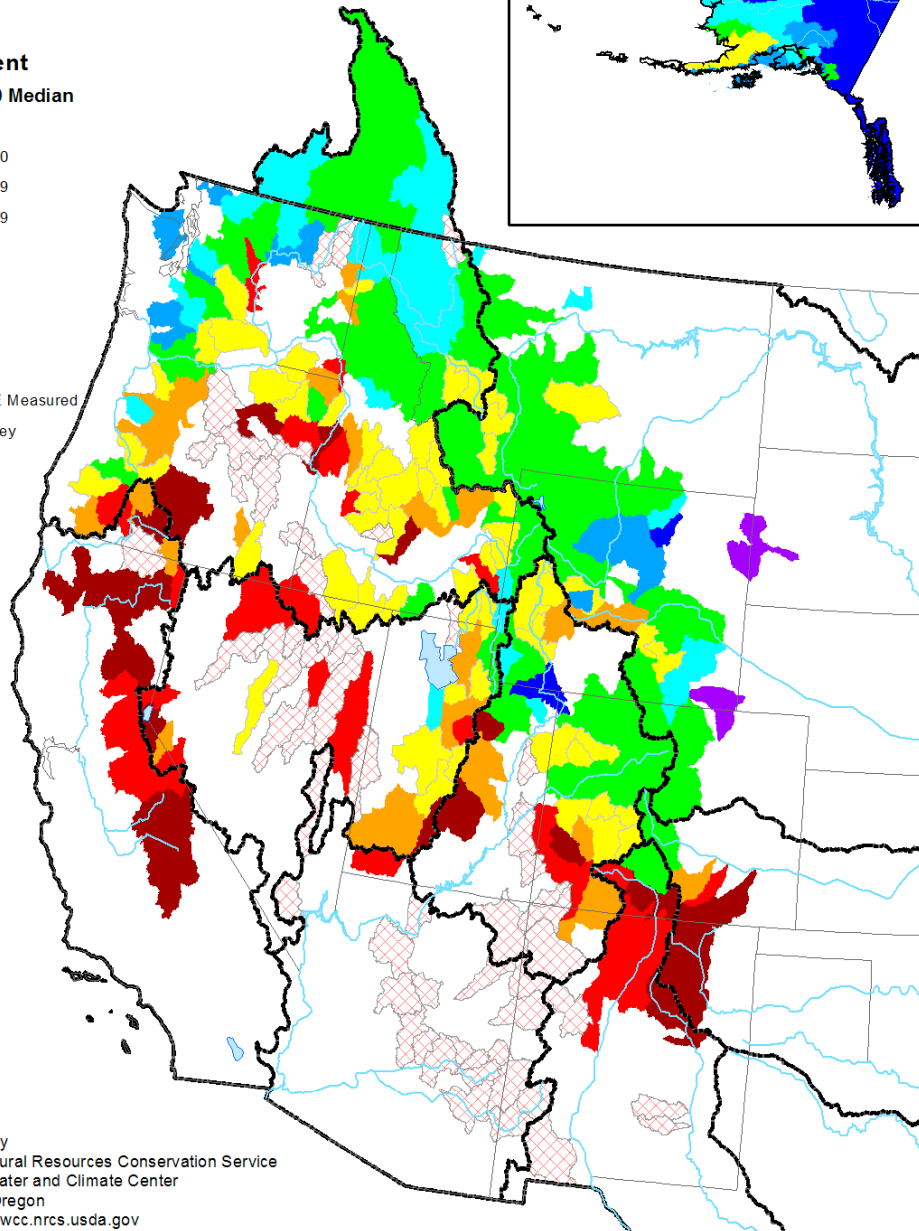
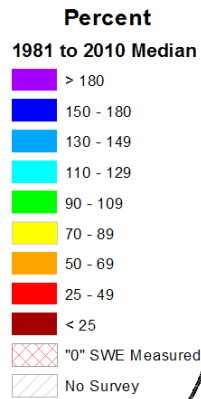
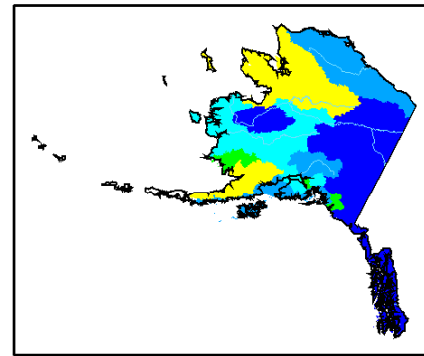


STATE ENGINEER'S OFFICE
PRESENTATION FOR THE
BEAR RIVER BASIN ADVISORY GROUP MEETING
MAY 22, 2013
EVANSTON, WY

**APPENDIX D
MAP OF SUB-BASINS**



Mountain Snowpack as of May 1, 2013



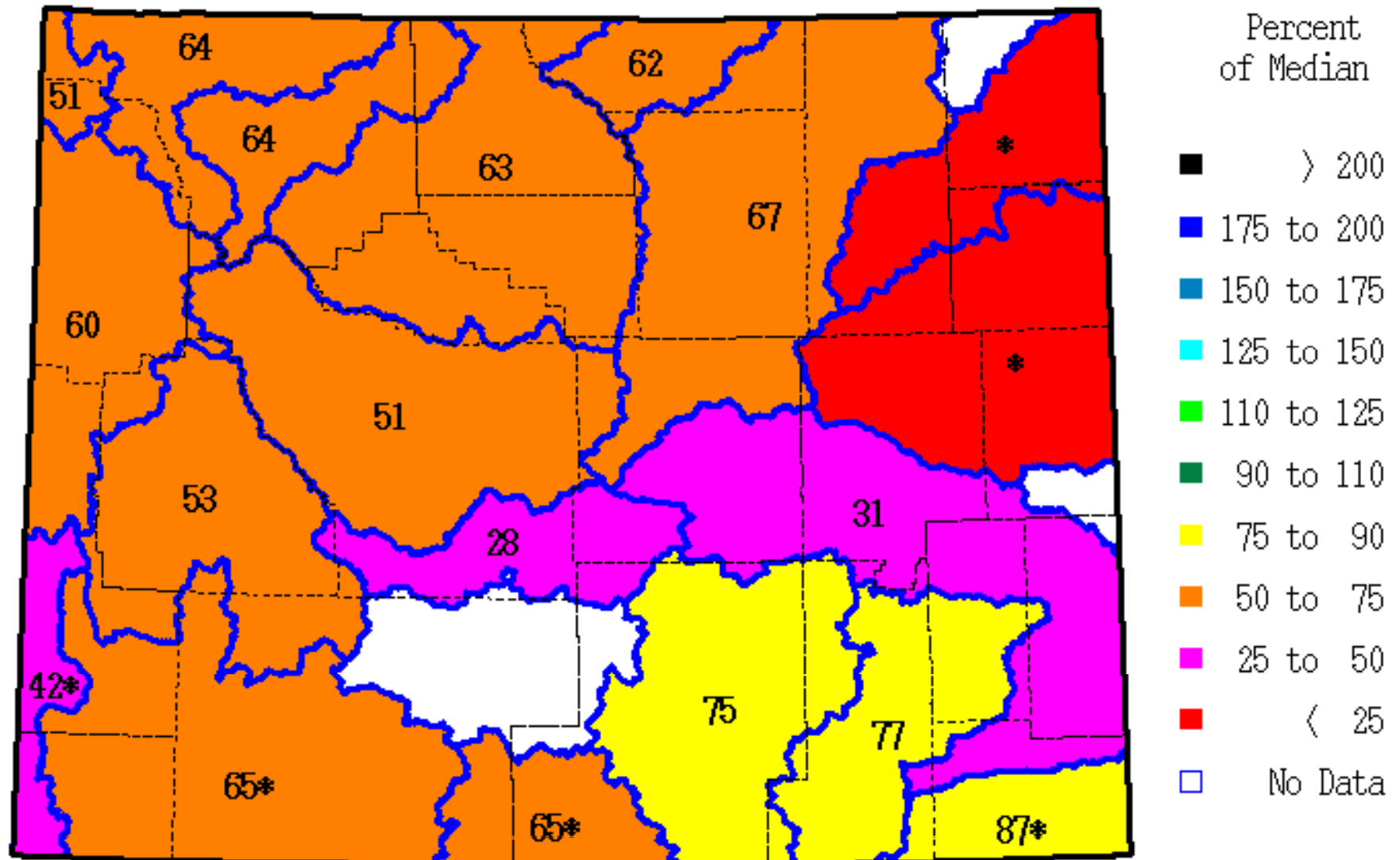
Prepared by
USDA, Natural Resources Conservation Service
National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

Wyoming – NRCS Report #25 Monday Morning Snow Report May 20, 2013

DRAINAGE BASIN	5/20/2013	5/13/2013	5/6/2013	5/20/2012	5/13/2012
SNAKE RIVER	60	69	93	68	76
MADISON	51	68	95	92	106
YELLOWSTONE	64	71	99	88	98
WIND RIVER	51	72	102	26	33
BIGHORN BASIN	63	84	122	69	69
SHOSHONE RIVER	64	77	96	77	92
POWDER	67	93	137	9	26
TONGUE	62	82	109	29	48
BELLE FOURCHE	*	*	*	*	*
CHEYENNE	*	*	*	*	*
UPPER N. PLATTE	75	83	92	21	25
SWEETWATER	28	60	87	0	6
LOWER N. PLATTE	31	74	91	0	0
LARAMIE	77	98	103	3	8
S. PLATTE	87	100	107	4	27
LITTLE SNAKE RIVER	65	68	86	20	19
UPPER GREEN	53	60	83	47	49
LOWER GREEN	65	84	112	22	34
UPPER BEAR	42	53	81	0	1
Weighted State Average	59	69	92	31	34

red = down blue = up green = same * = data is suspect

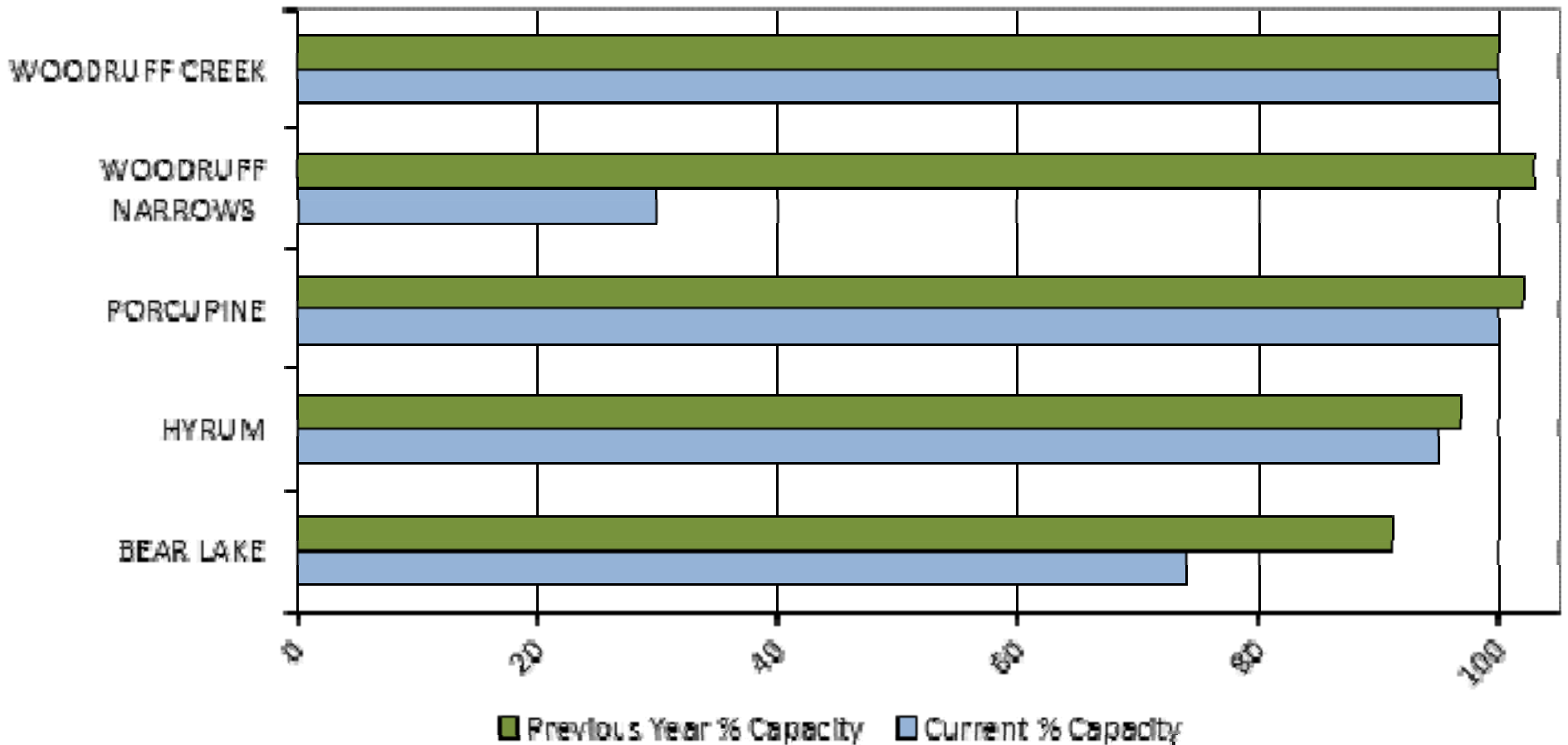
SWE % of Median as of Monday, 20 May 2013



* = Data may not provide a valid measure of conditions

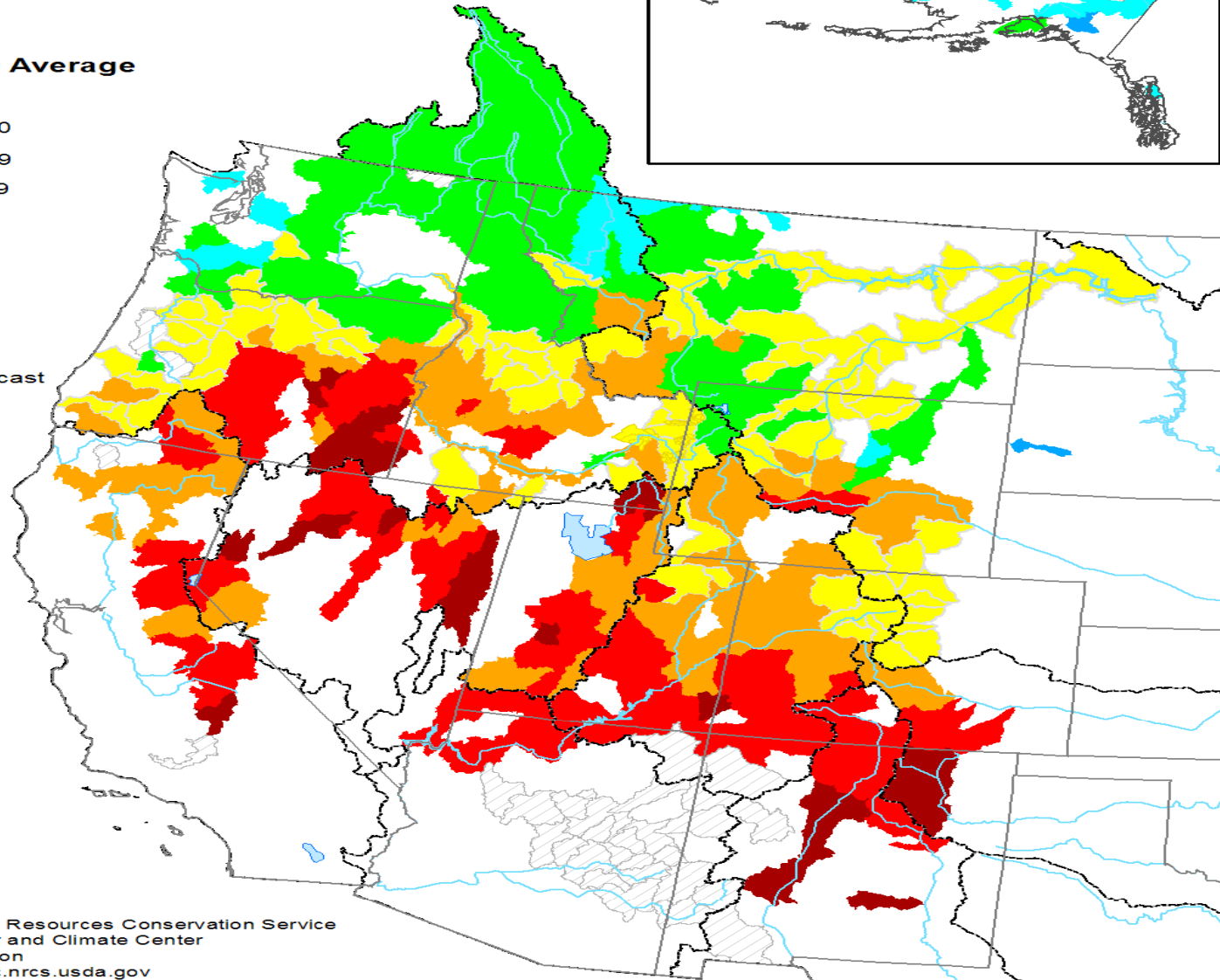
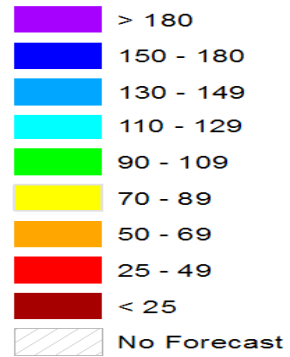
Bear River Reservoir Storage

Bear River Basin



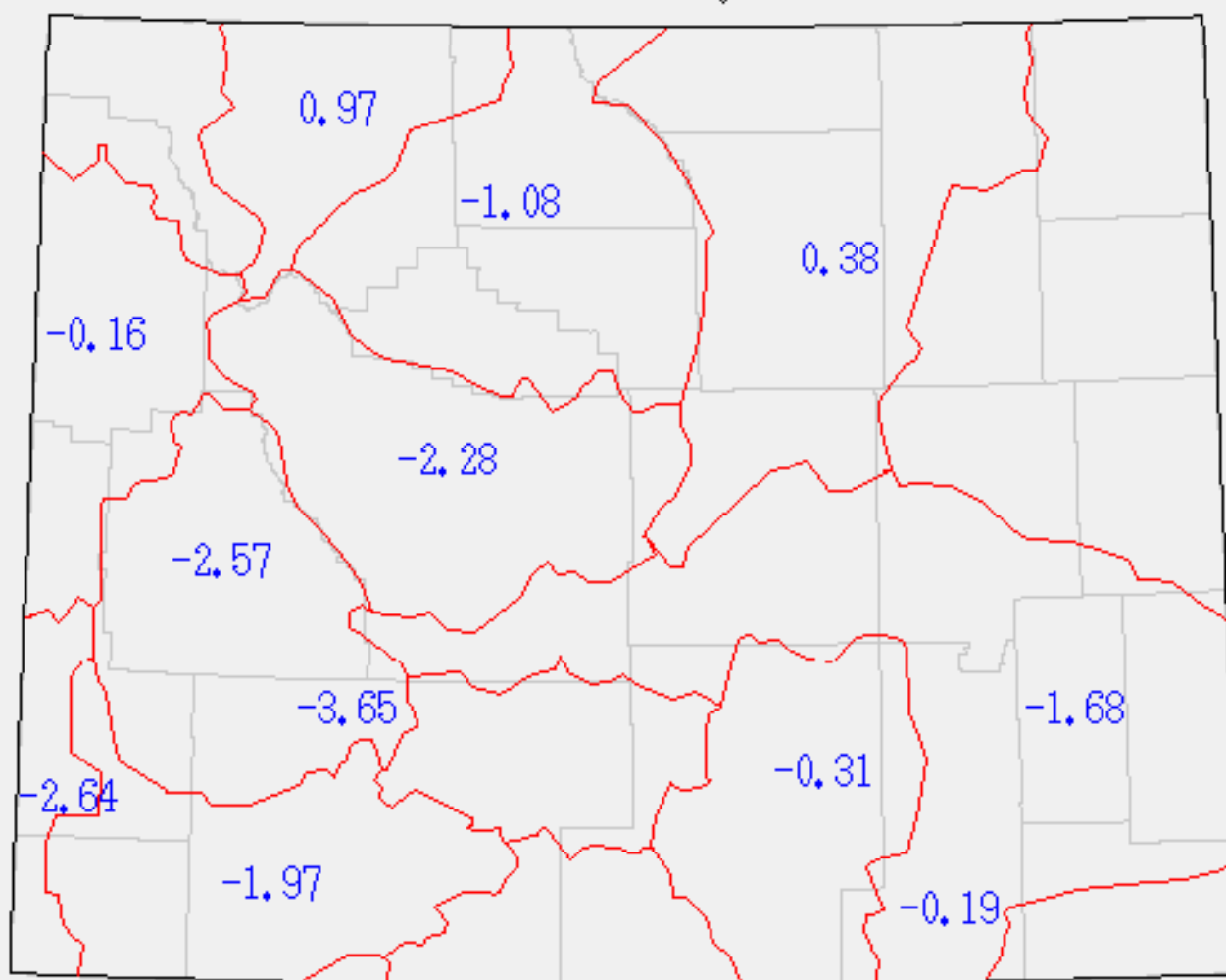
Spring and Summer Streamflow Forecasts as of May 1, 2013

Percent
1981 to 2010 Average



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

SWSI Values - May 2013



SWSI Classification System

- >4.0 Extremely Wet
- 3.0 Very Wet
- 2.0 Moderately Wet
- 1.0 Slightly Wet
- 0.5 Incipient Wet Spell
- 0.0 Near Normal
- 0.5 Incipient Dry Spell
- 1.0 Mild Drought
- 2.0 Moderate Drought
- 3.0 Severe Drought
- <-4.0 Extreme Drought

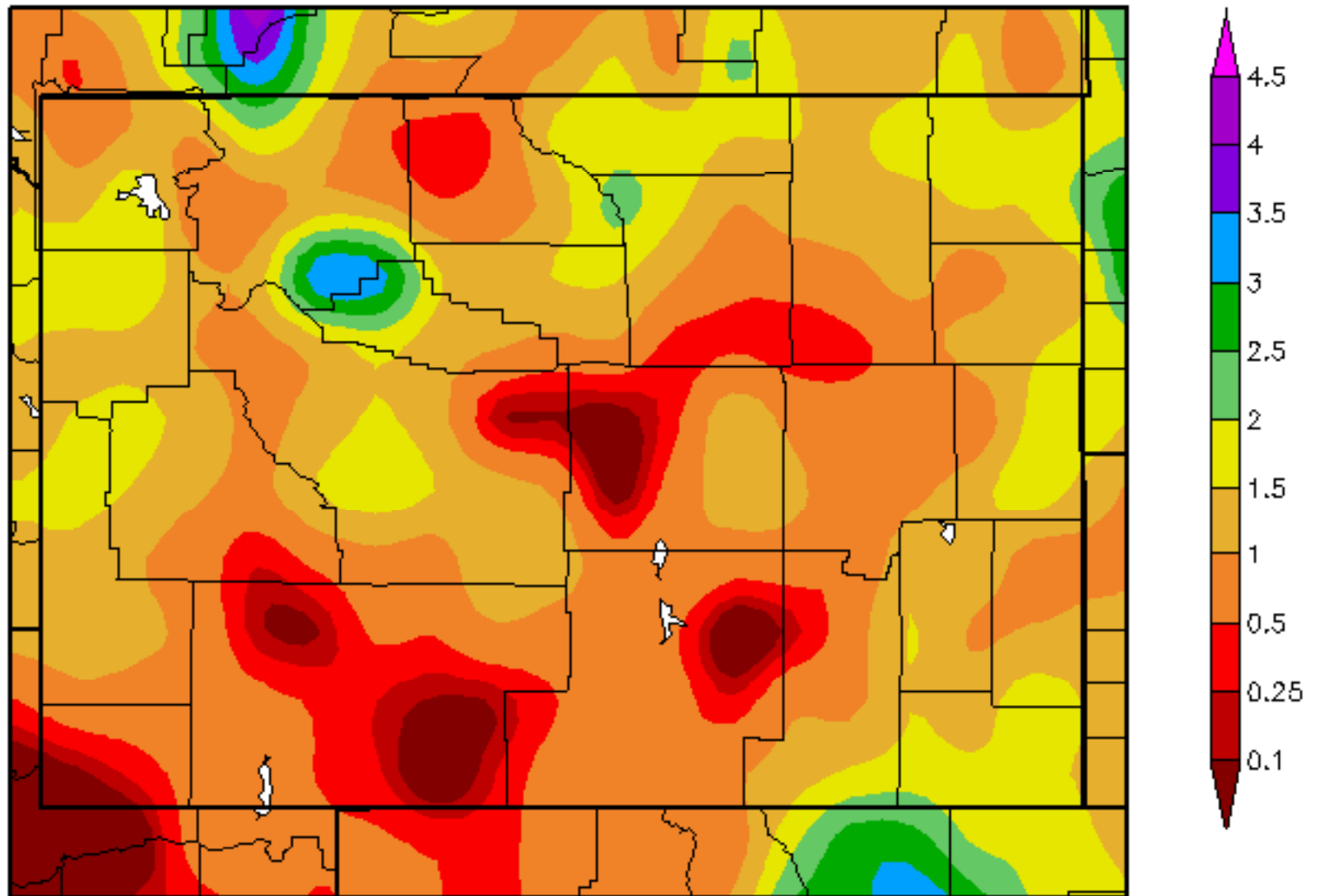
Snow Pack on May 22, 2013

UPPER BEAR RIVER

	Elevation	Current	Median	%Median	Current	Average	%Average
BEAR RIVER RS	8500	.0	-M	*	14.3	-M	*
BUG LAKE	7950	.3	2.5	12	19.4	23.7	82
BURTS MILLER RANCH	8000	.1	-M	*	9.2	-M	*
CHALK CREEK #1	8993	8.7	13.7	64	26.0	31.1	84
HAYDEN FORK	9212	.1	.0	*	20.8	26.0	81
KELLEY R.S.	8180	.0	1.2	0	17.0	22.0	78
LILY LAKE	9156	.0	.0	*	16.6	21.5	78
MONTE CRISTO	8960	5.4	12.9	42	26.3	31.8	83
SALT RIVER SUMMIT	7760	.0	.0	*	17.2	20.1	86
				-----			-----
Basin wide percent				48*			81

Precipitation (in)

4/20/2013 – 5/19/2013



Generated 5/20/2013 at HPRCC using provisional data.

Regional Climate Centers

U.S. Drought Monitor

Wyoming

May 14, 2013

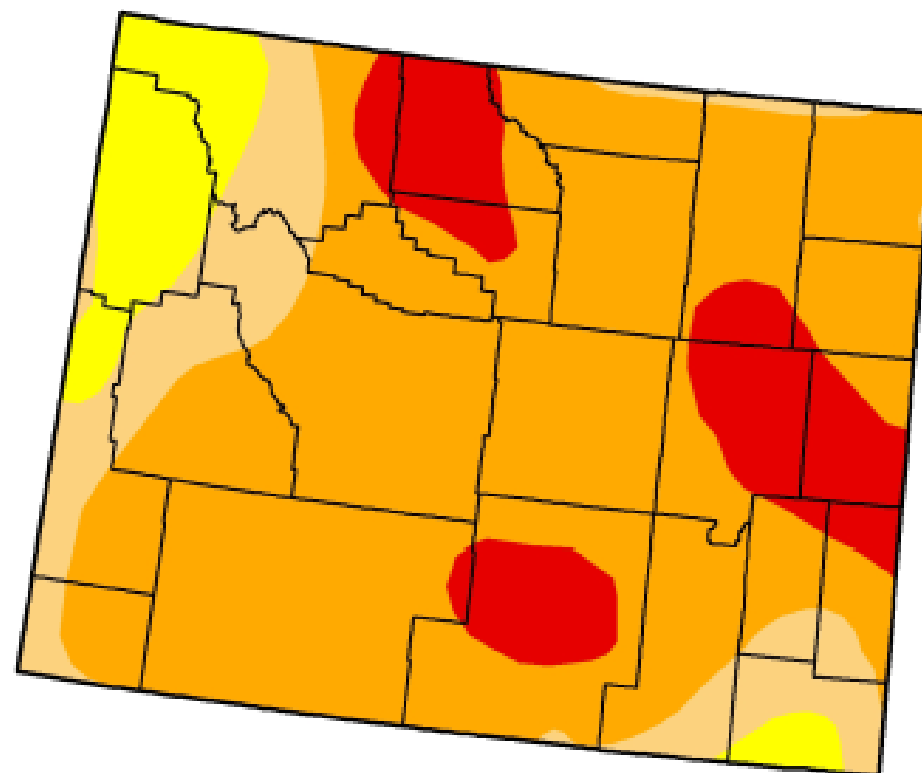
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	91.85	78.38	13.87	0.00
Last Week (05/07/2013 map)	0.00	100.00	92.65	78.73	13.86	0.00
3 Months Ago (02/12/2013 map)	0.00	100.00	93.58	83.64	56.55	10.51
Start of Calendar Year (01/01/2013 map)	0.00	100.00	96.15	86.03	64.23	10.51
Start of Water Year (09/25/2012 map)	0.00	100.00	98.01	87.30	58.34	2.72
One Year Ago (05/08/2012 map)	28.62	71.38	7.65	0.08	0.00	0.00

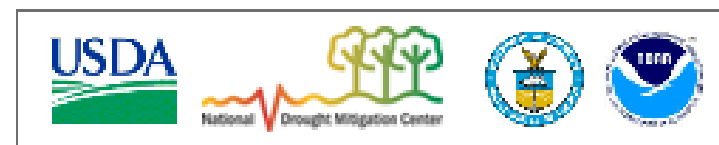
Intensity:

- 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, May 16, 2013

Rich Tinker, Climate Prediction Center/NCEP/NWS/NOAA

1981 – 2010 Normals

- Normals are simply a way to compare the current value to a baseline.
- Every decade, normals are recalculated to reflect the current climactic conditions because we are most familiar with the last 30 years.
- Addition of 2001 – 2010 and removal of 1971-1980 has shifted the new normal down several percentage points.
- Daily averages and medians were smoothed with a 7-day running average except at the truncation to zero and at the beginning and end of the year.

1981 – 2010 Normals

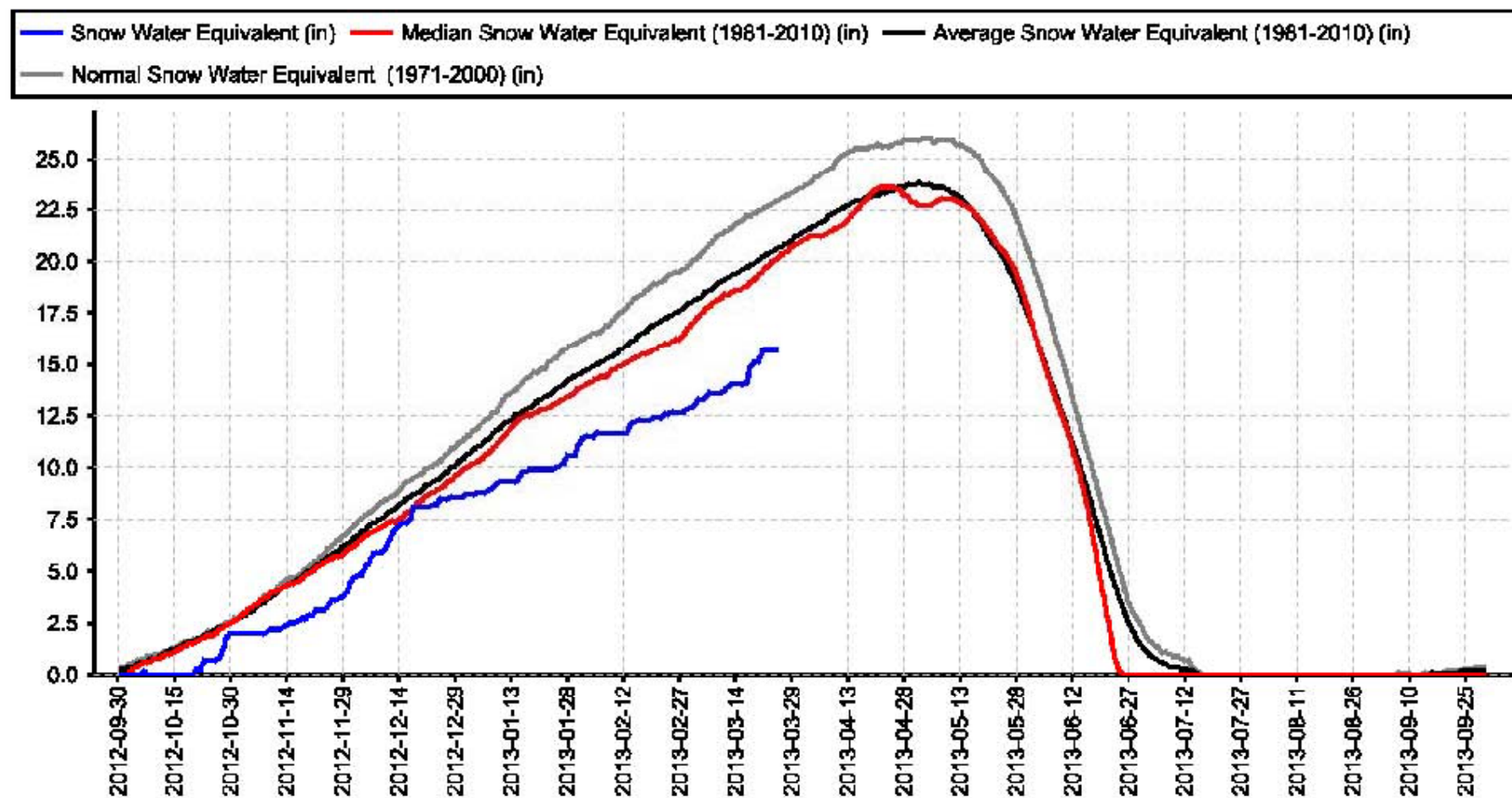
- Default is the value that will be most frequently represented in reports and graphs unless otherwise stated.
- “Yes” specifies those values have been calculated and stored in our database.
- Elements not specified here have no calculated normals for this 30yr period.

Element	Default	Average	Median
Temperature	Average	Yes	No
Precipitation	Average	Yes	Yes
Snow Water Eq.	Median	Yes	Yes
Snow Depth	Median	Yes	Yes
Streamflow	Average	Yes	Yes
Reservoir Storage	Average	Yes	No

Wyoming Site - Beartooth Lake (326)

(As of: Mon Mar 25 12:38:02 PDT 2013)

Provisional data, subject to revision



Montana Snow Survey



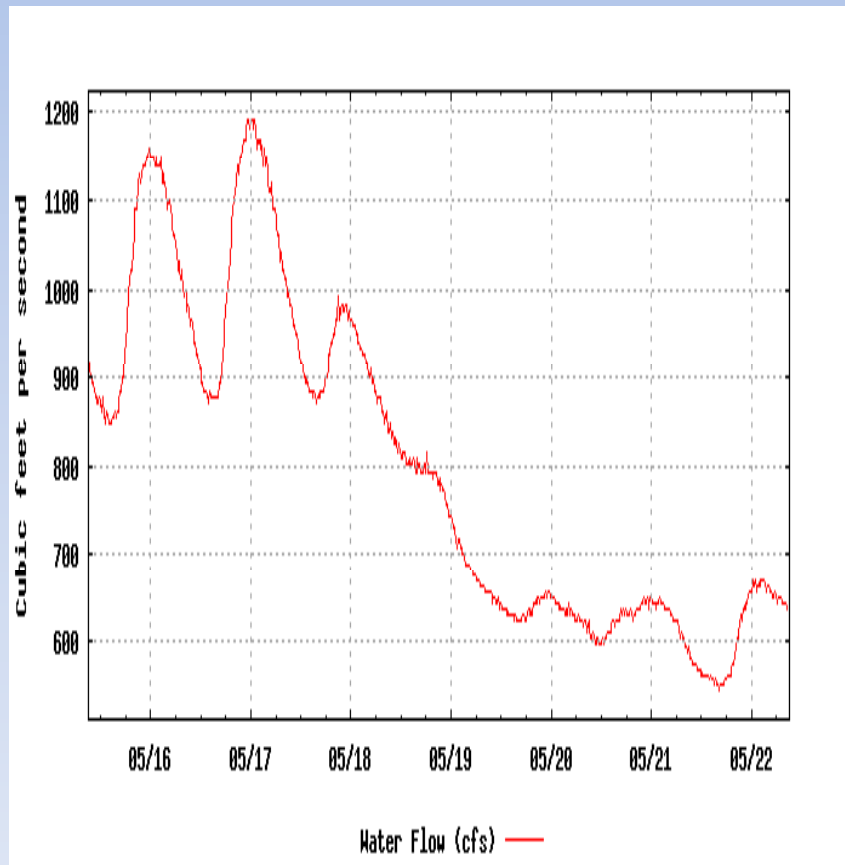
March 1 Normals

	2013 Obs	1981-2010 Median		1981-2010 Avg		1971-2000 Avg	
SOUTH PASS	7.8	11.4	68%	12.8	61%	14	56%
ST. LAWRENCE ALT	3.8	5.2	73%	5.2	73%	5.9	64%
SUCKER CREEK	9.3	8.9	104%	9	103%	9.1	102%
SYLVAN LAKE	13.9	15.9	87%	16.6	84%	18.8	74%
SYLVAN ROAD	7.6	9.4	81%	10.1	75%	11.4	67%
THUMB DIVIDE	12	12.3	98%	13.2	91%	15.4	78%
TIE CREEK	4.3	4.3	100%	4.2	102%	4.9	88%
TIMBER CREEK	3	3.7	81%	3.5	86%	4.2	71%
TOGWOTEE PASS	16	17.7	90%	19.3	83%	20.7	77%
TOWNSEND CREEK	4.2	6.5	65%	6.8	62%	6.9	61%
WHITE MILL	17.1	18.3	93%	18.8	91%	20.3	84%
WOLVERINE	7.9	8.5	93%	9.1	87%	10.6	75%
YOUNTS PEAK	9.8	11.7	84%	12.8	77%	14.6	67%
Yellowstone Basin SNOTEL Total		499.3	87%	526.3	91%	576.5	100%

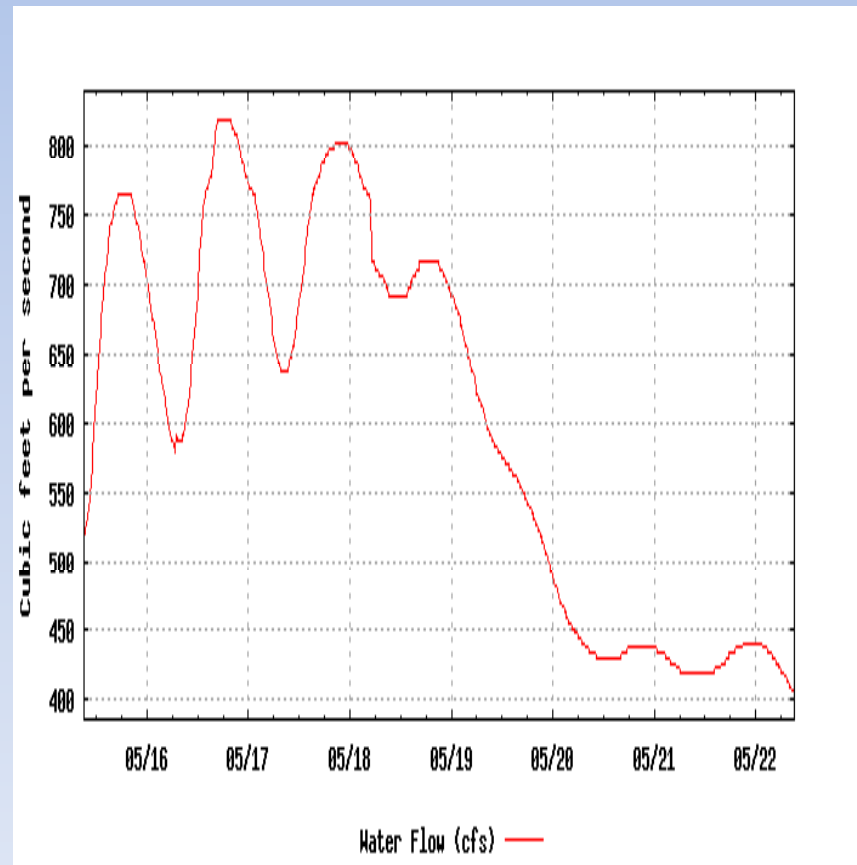
In most cases these new normals will portray future observed values slightly higher than normals have over previous normal periods.

River Gage Graphs

Bear River at Ut/Wy Border

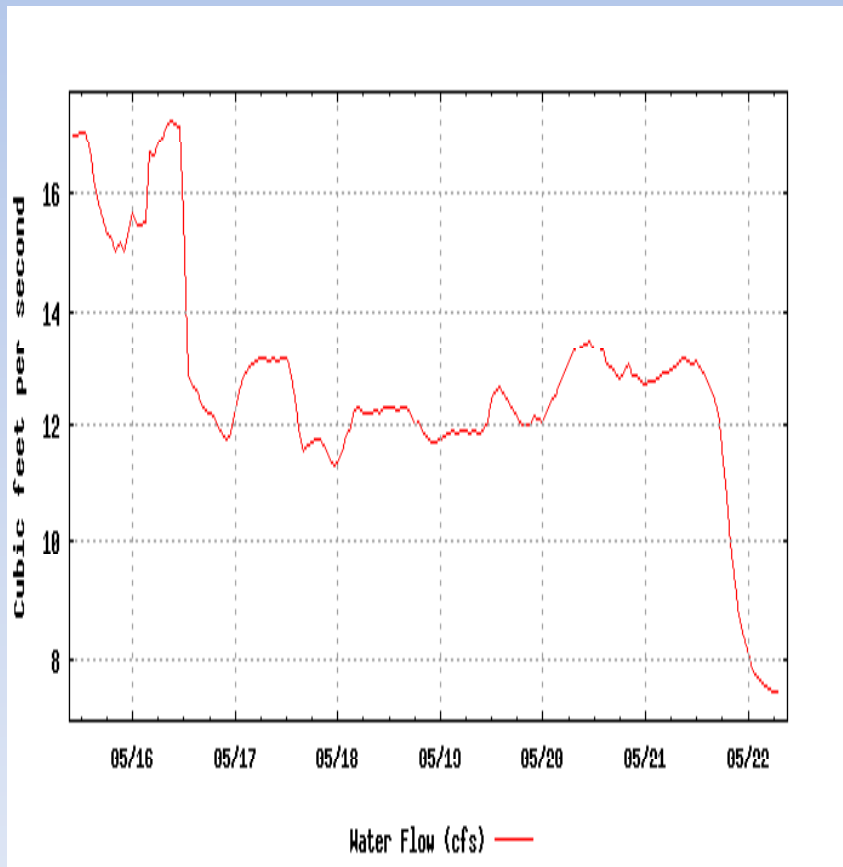


Bear Rive above Woodruff

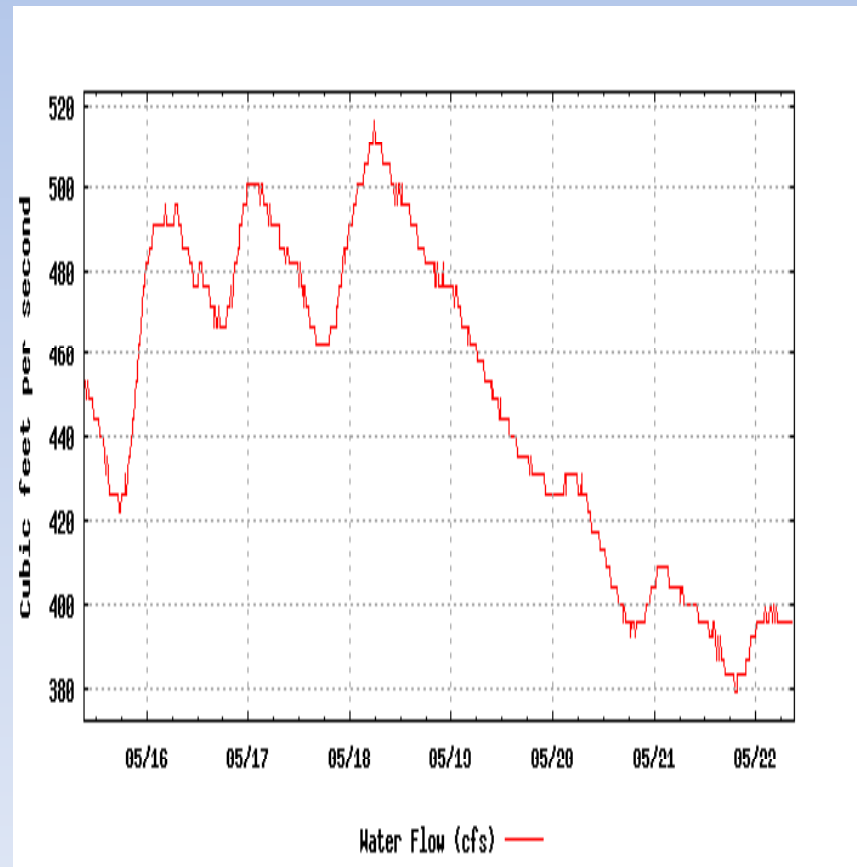


River Gages Cont.

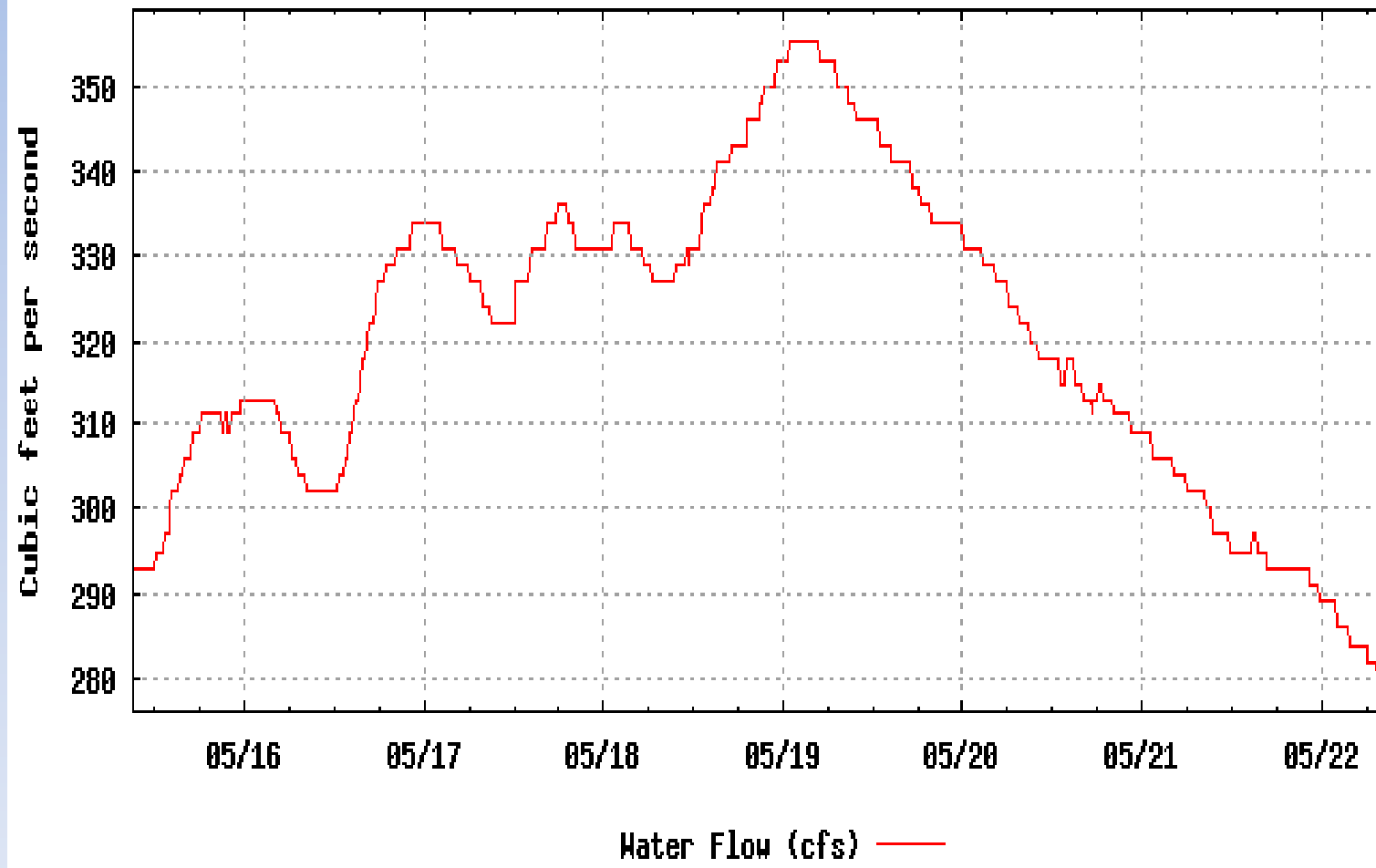
Bear River near Randolph



Smith's Fork near Border

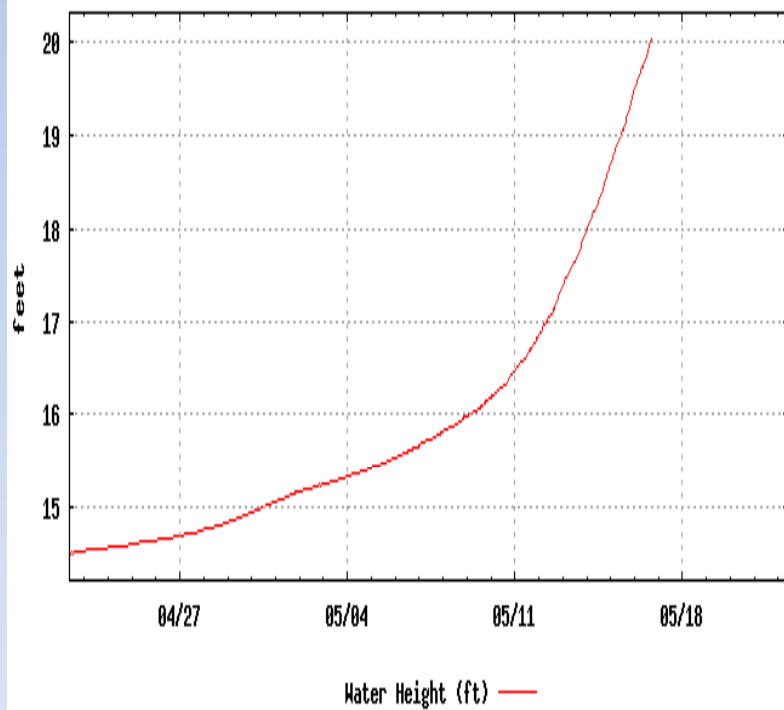


Gages Cont.

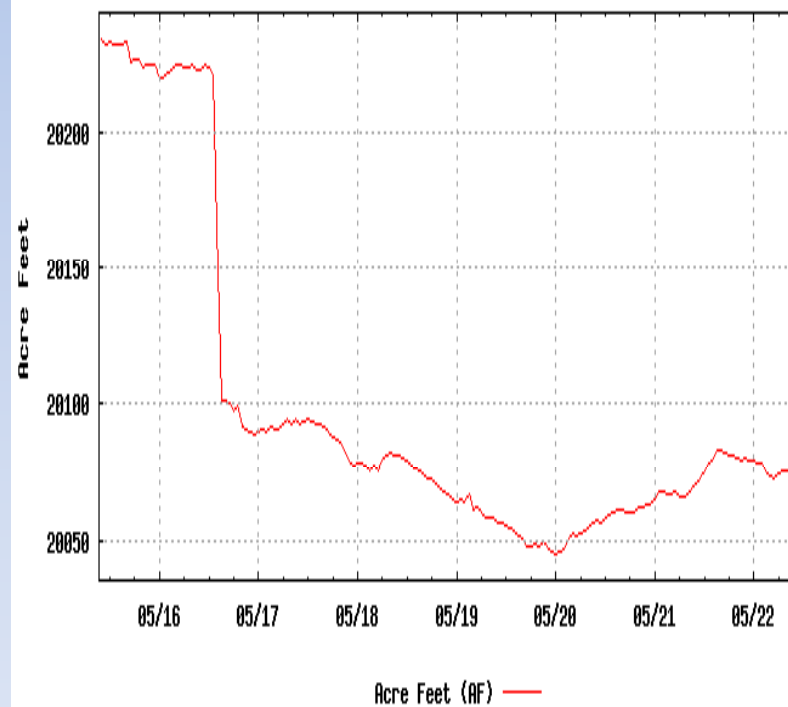


Reservoir Storage

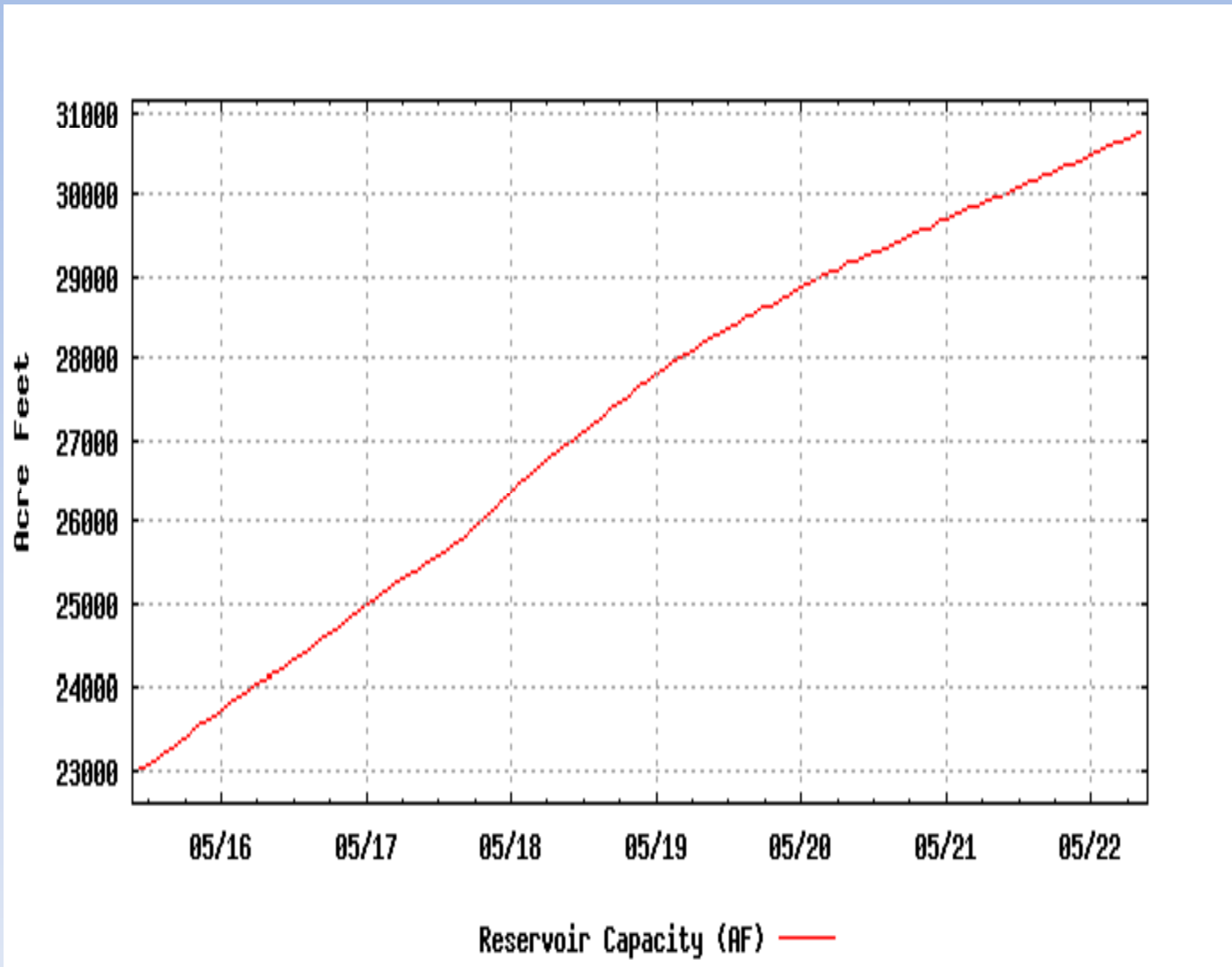
Whitney Reservoir 1,632 AF



Sulphur Creek Reservoir



Woodruff Narrows



QUESTIONS?

No. 3062.

