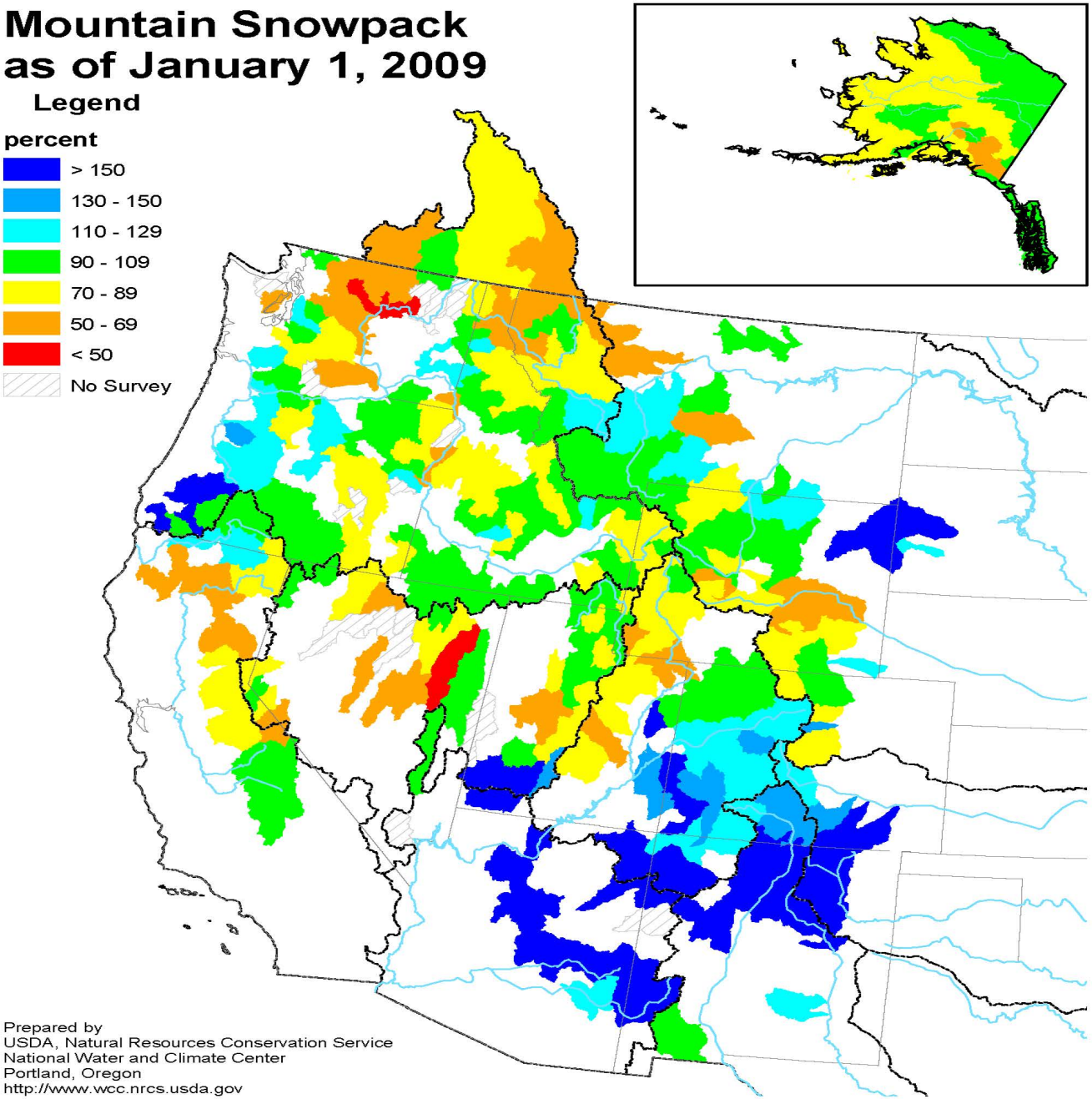
United States Department of Agriculture
Natural Resources Conservation Service

Idaho Water Supply Outlook Report
February 1, 2009

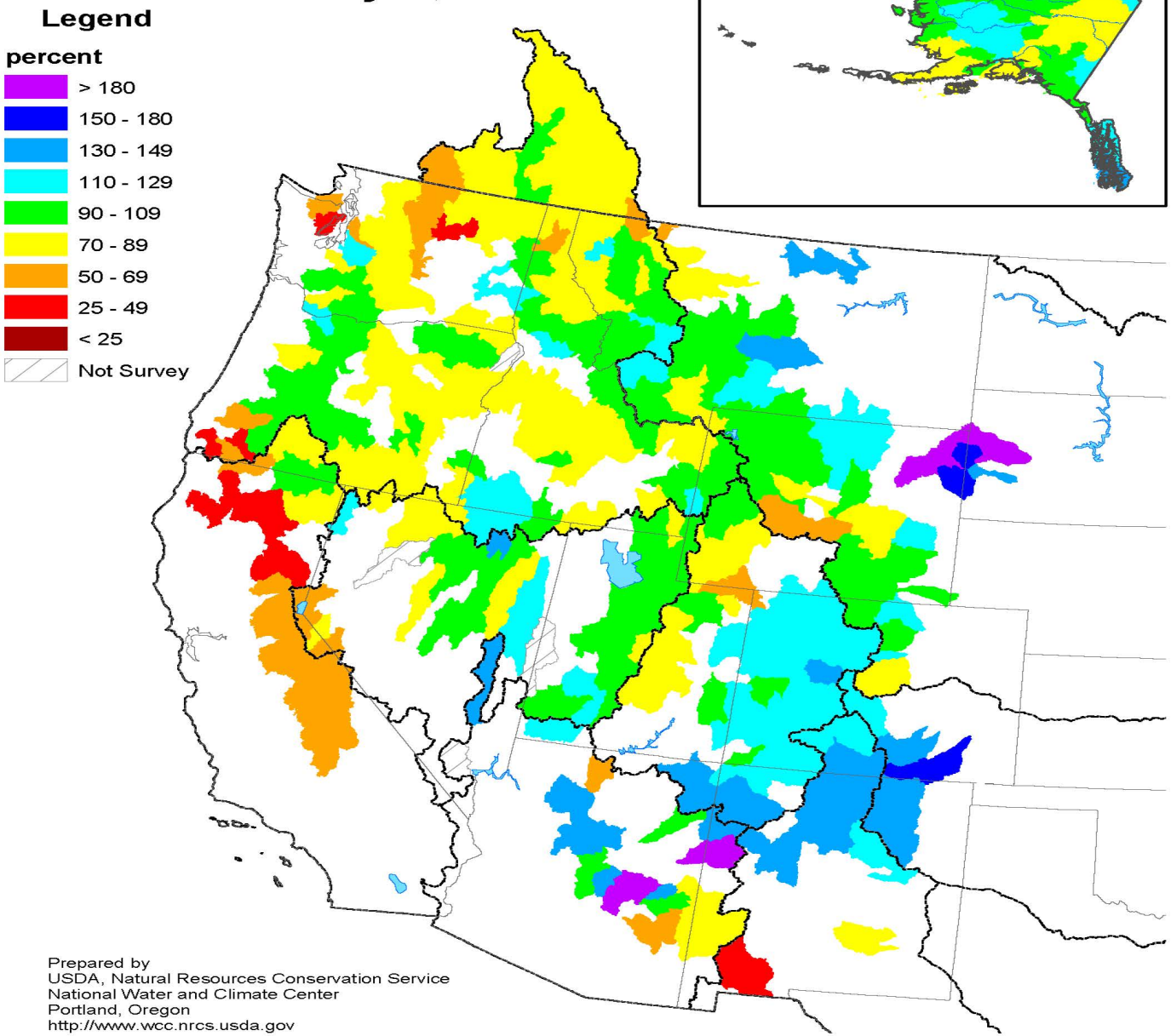
The inversion featured in the above picture was taken from a helicopter flying over the Lochsa River in north-central Idaho on January 23, 2009. According the NOAA Weather Glossary, an inversion is a departure from the usual increase or decrease in an atmospheric property with altitude. Specifically, it almost always refers to a temperature inversion, i.e., an increase in temperature with height, or to the layer within which such an increase occurs. Temperature inversions interrupt normal air circulation patterns leaving stagnant air trapped in valley

Mountain Snowpack as of January 1, 2009



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

Mountain Snowpack as of February 1, 2009



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USDA, Natural Resources Conservation Service
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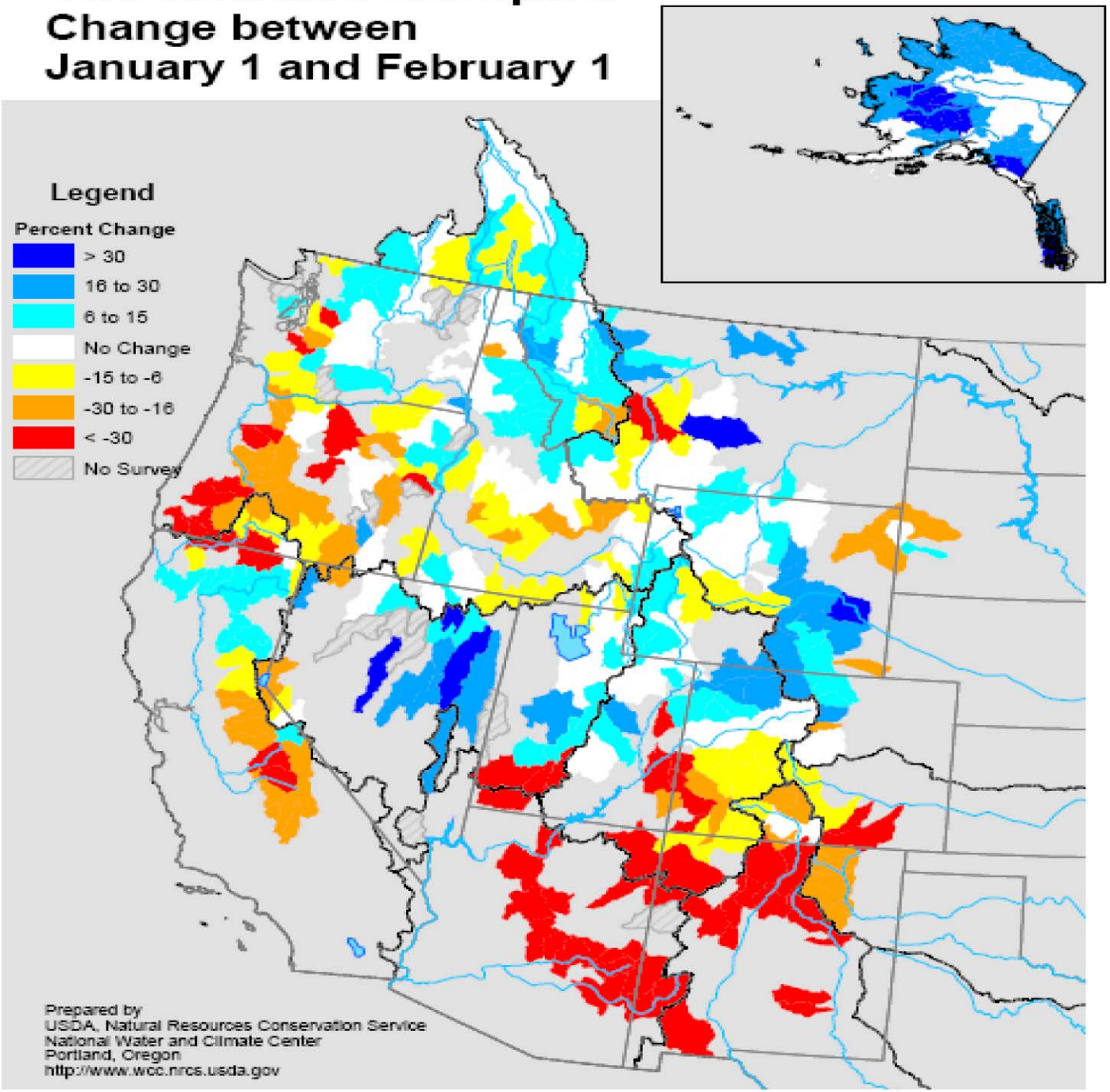
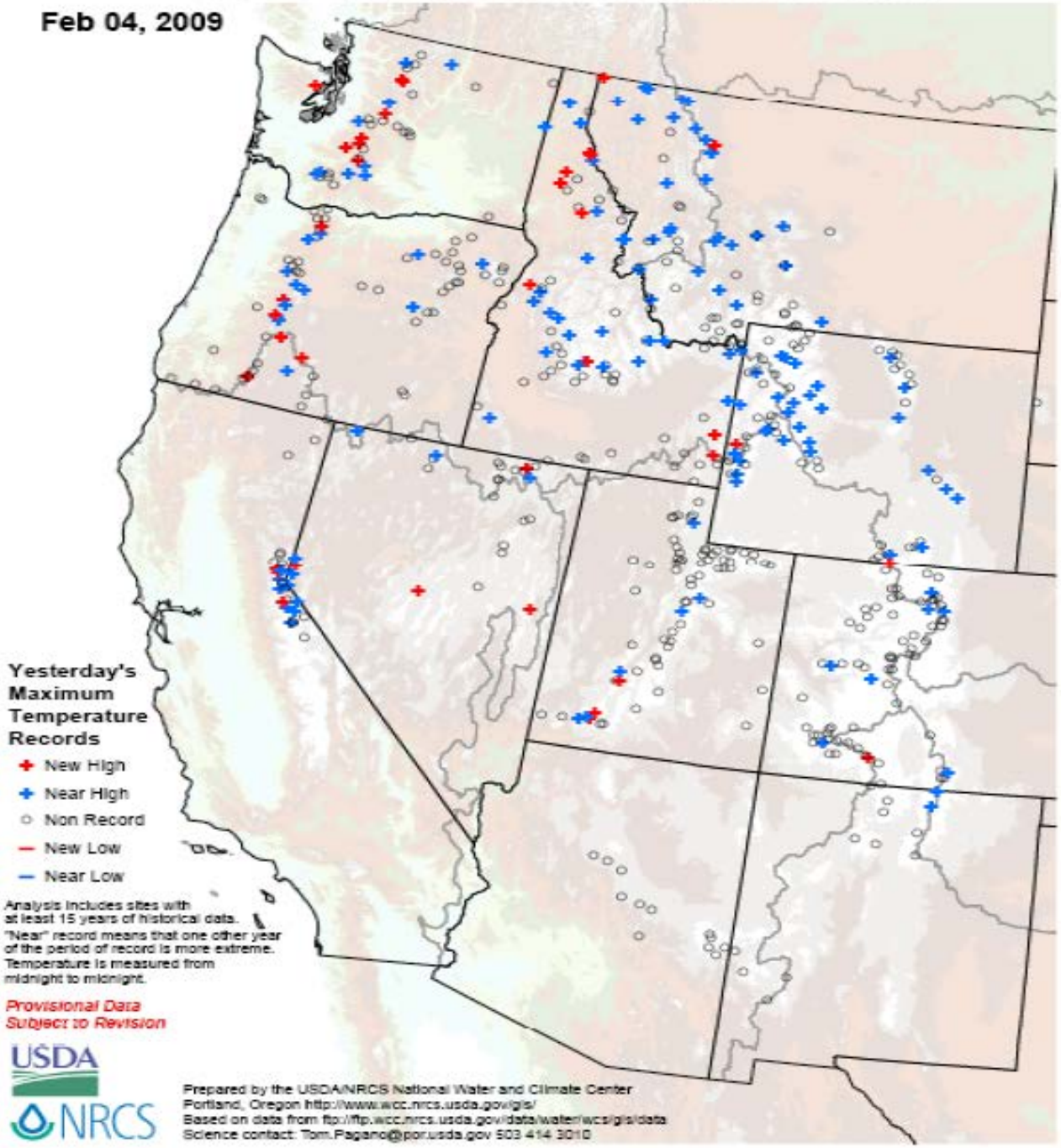
http://www.wcc.nrcs.usda.gov

2009 Mountain Snowpack Change between January 1 and February 1

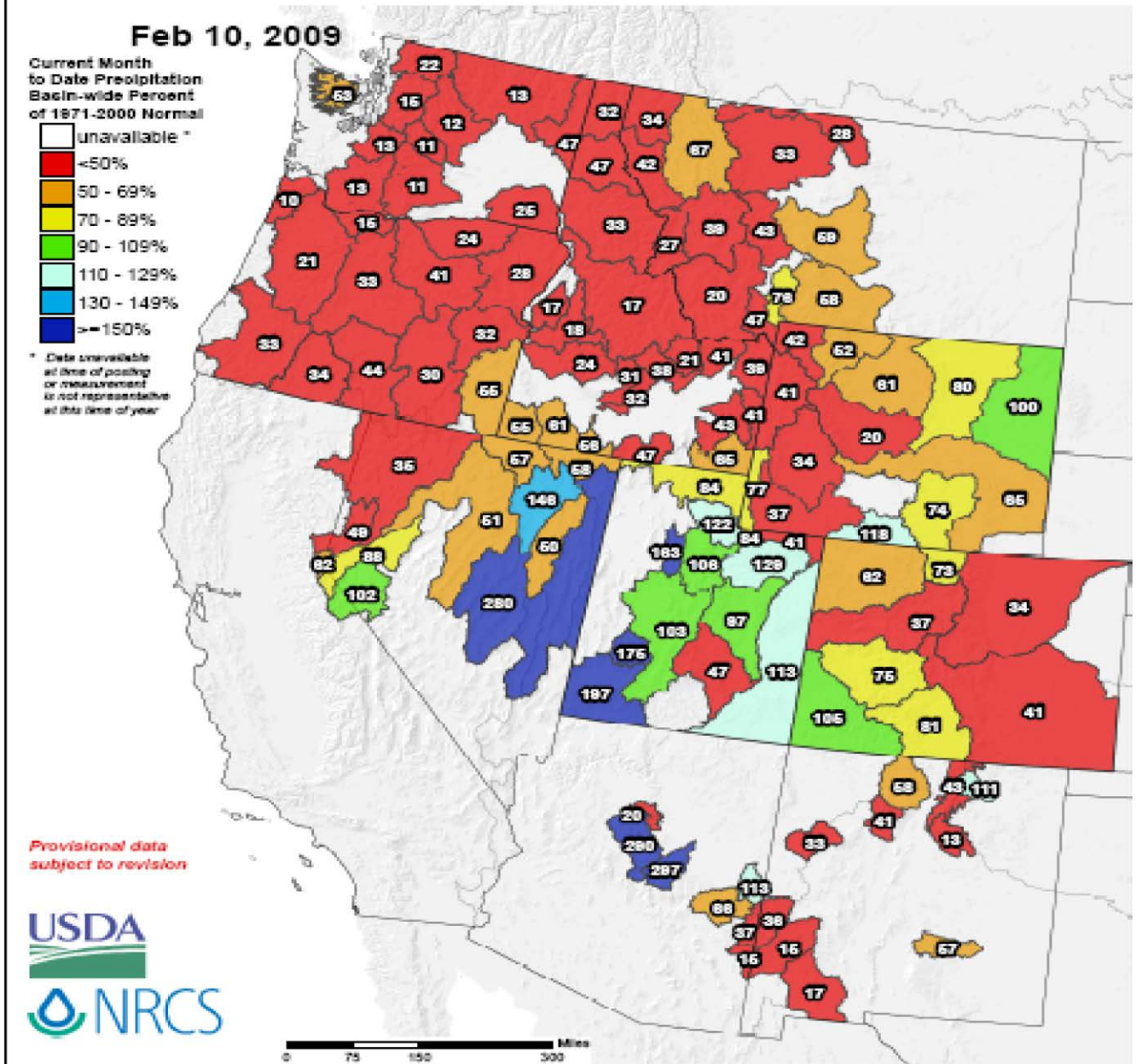


SNOTEL Yesterday's Maximum Temperature Records

Feb 04, 2009

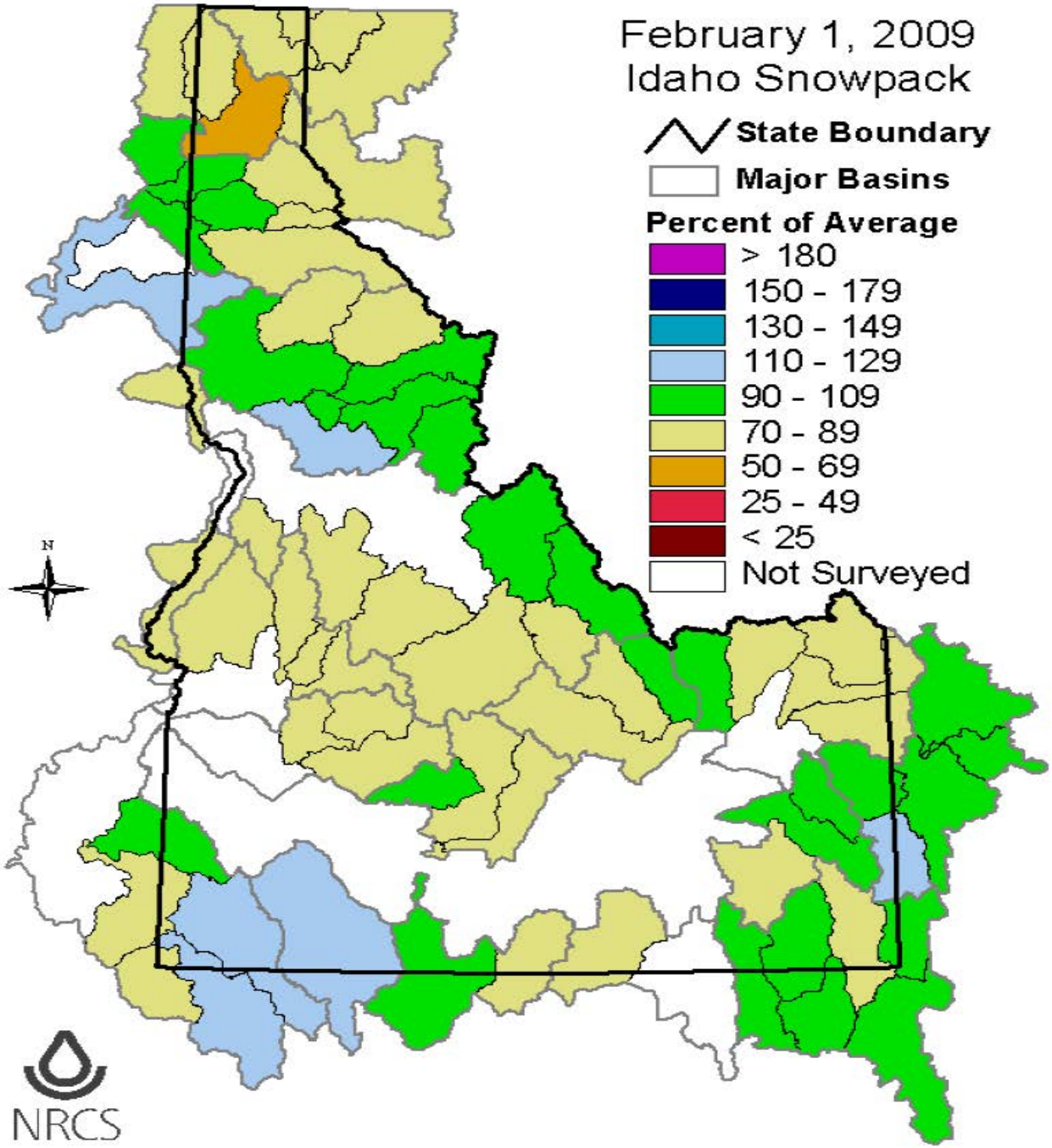


Westwide SNOTEL Current Month to Date Precipitation % of Normal



The current month 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: Tom.Pagano@por.usda.gov 503 414 3010

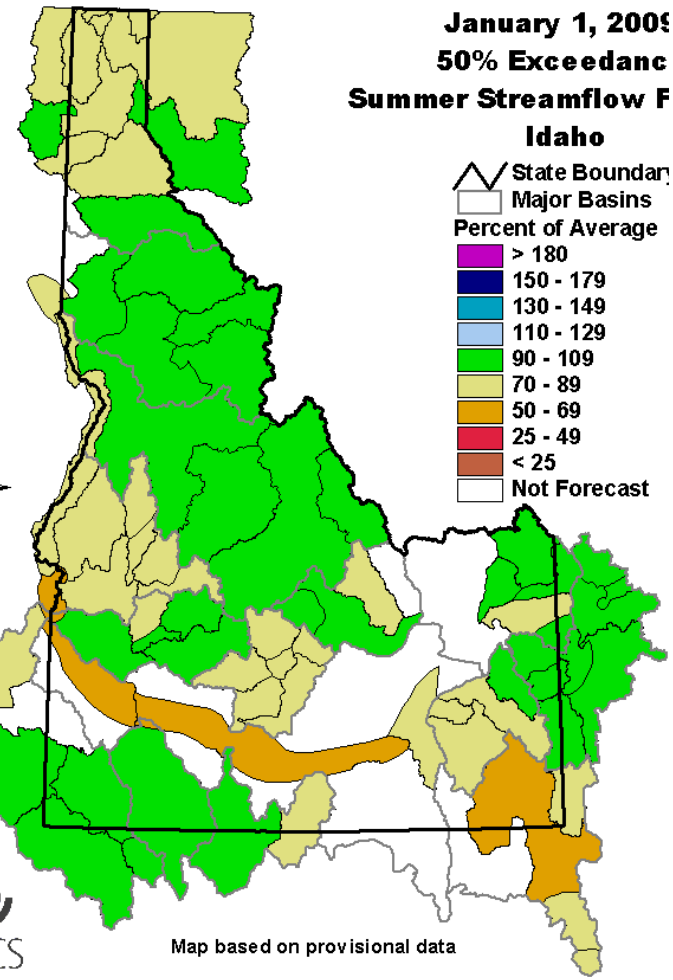

February 1, 2009
Idaho Snowpack
State Boundary
Major Basins
Percent of Average
> 180
150 - 179
130 - 149
110 - 129
90 - 109
70 - 89
50 - 69
25 - 49
< 25
Not Surveyed
N
NRCS

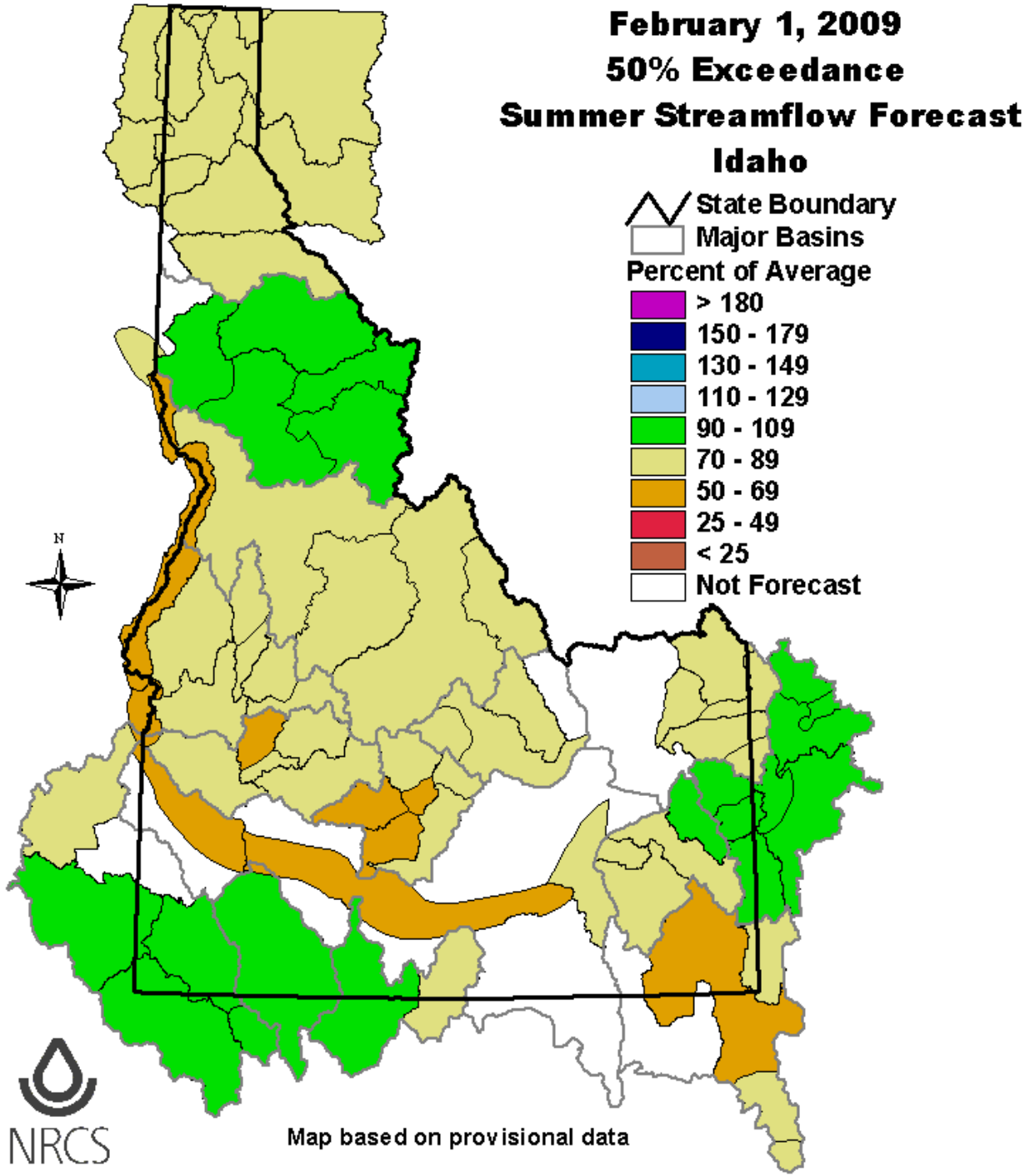
SNOTEL Snowpack Summary Report

for February 11, 2009

Region or Basin	February 11 SWE as % of Average	Change in SWE (% of Avg.) from January 21 to February 11	February 11 SWE as % of Seasonal Peak
NORTHERN PANHANDLE REGION	69	-11	49
SPOKANE BASIN	75	-10	55
CLEARWATER BASIN	86	-13	62
SALMON BASIN	83	-15	56
WEISER BASIN	72	-15	51
PAYETTE BASIN	73	-17	50
BOISE BASIN	76	-11	53
BIG WOOD BASIN	74	-9	52
LITTLE WOOD BASIN	82	-6	55
BIG LOST BASIN	80	-10	52
LITTLE LOST, BIRCH BASINS	85	-7	54
MEDICINE LODGE, BEAVER, CAMAS BASINS	85	-9	53
HENRYS FORK, TETON BASINS	82	-4	56
SNAKE BASIN ABOVE PALISADES	92	-6	63
WILLOW, BLACKFOOT, PORTNEUF BASINS	82	-1	58
SNAKE BASIN ABOVE AMERIAN FALLS	88	-5	60
OAKLEY BASIN	81	-5	58
SALMON FALLS BASIN	96	-6	67
BRUNEAU BASIN	103	-6	73
OWYHEE BASIN	93	-1	66
BEAR RIVER BASIN	87	4	58

SWE = Snow Water Equivalent


January 1, 2009
50% Exceedanc
Summer Streamflow F
Idaho
State Boundary
Major Basins
Percent of Average
> 180
150 - 179
130 - 149
110 - 129
90 - 109
70 - 89
50 - 69
25 - 49
< 25
Not Forecast
Map based on provisional data


February 1, 2009
50% Exceedance
Summer Streamflow Forecast
Idaho
State Boundary
Major Basins
Percent of Average
> 180
150 - 179
130 - 149
110 - 129
90 - 109
70 - 89
50 - 69
25 - 49
< 25
Not Forecast
N
NRCS
Map based on provisional data

2009 Idaho Surface Water Supply Index (SWSI)

For January and February 2009

BASIN or/ REGION	January SWSI Value	February SWSI Value	Agricultural Surface Water Supply Shortage May Occur When SWSI is Less Than
PANHANDLE	-1.9	-1.9	NA
CLEARWATER	-0.5	0.1	NA
SALMON	-0.2	-0.2	NA
WEISER	1.7	-1.5	NA
PAYETTE	-0.4	-1.1	NA
BOISE	0.4	-0.4	-1.7
BIG WOOD	-0.6	-1.1	0.0
LITTLE WOOD	0.4	-0.6	-2.0
BIG LOST	-0.2	-0.6	-0.1
LITTLE LOST	-0.9	-1.5	0.5
HENRYS FORK	-1.9	-0.5	-3.3
SNAKE – HEISE	0.4	0.9	-1.7
OWYHEE	-0.6	-0.9	NA
OAKLEY	-0.9	-1.1	-0.9
SALMON FALLS	-1.5	-1.5	-1.3
BRUNEAU	-0.6	-0.6	NA
BEAR RIVER	-2.7	-2.7	-3.0

SWSI SCALE, PERCENT CHANCE OF EXCEEDANCE, AND INTERPRETATION

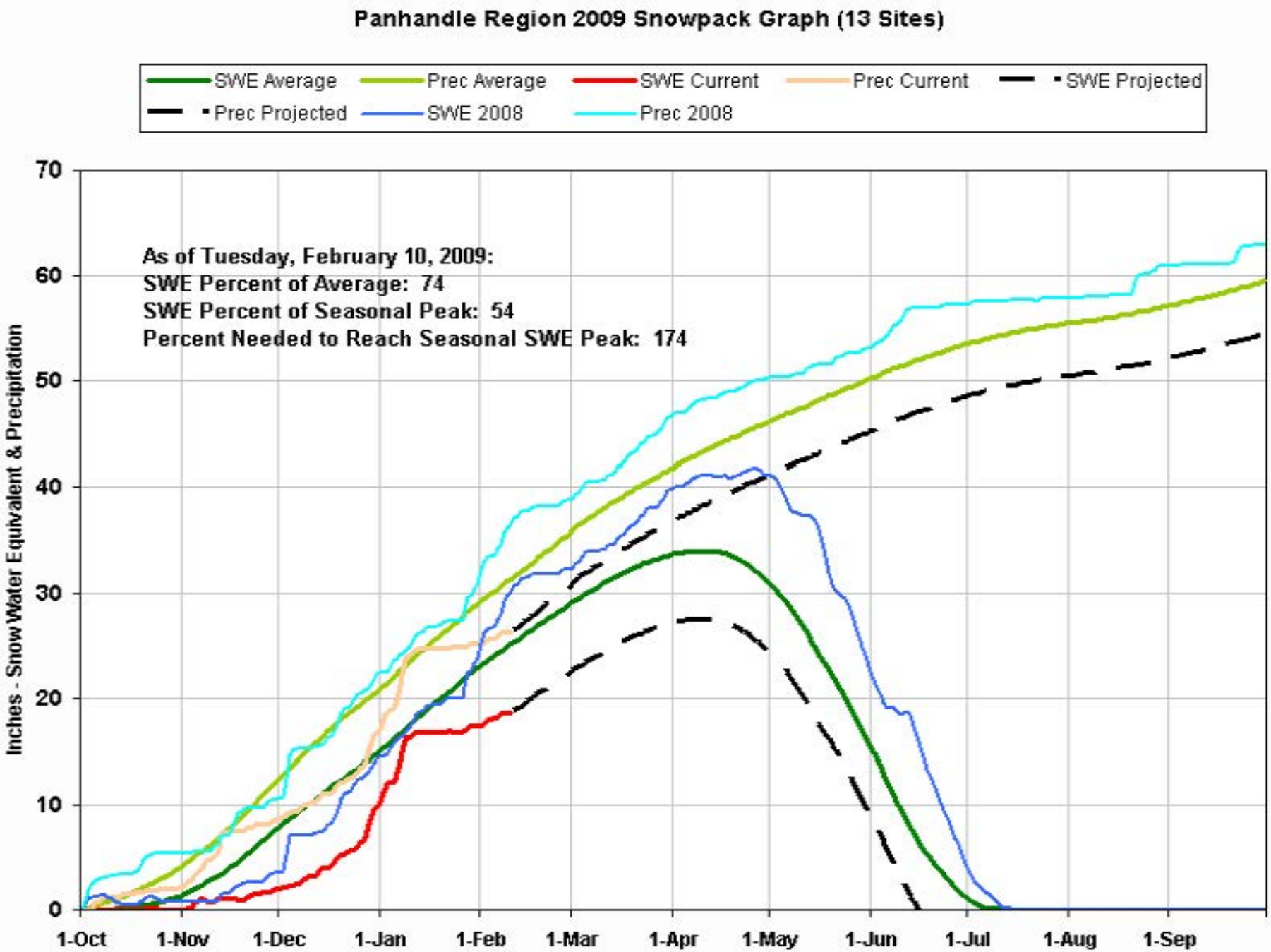
```
-4     -3     -2     -1      0      1      2      3      4
|------|------|------|------|------|------|------|------|
99%    87%    75%    63%    50%    37%    25%    13%    1%
-------------------------------------------------------
|Much  | Below    |    Near Normal     |  Above  | Much |
|Below | Normal   |   Water Supply     |  Normal | Above|
-------------------------------------------------------
```

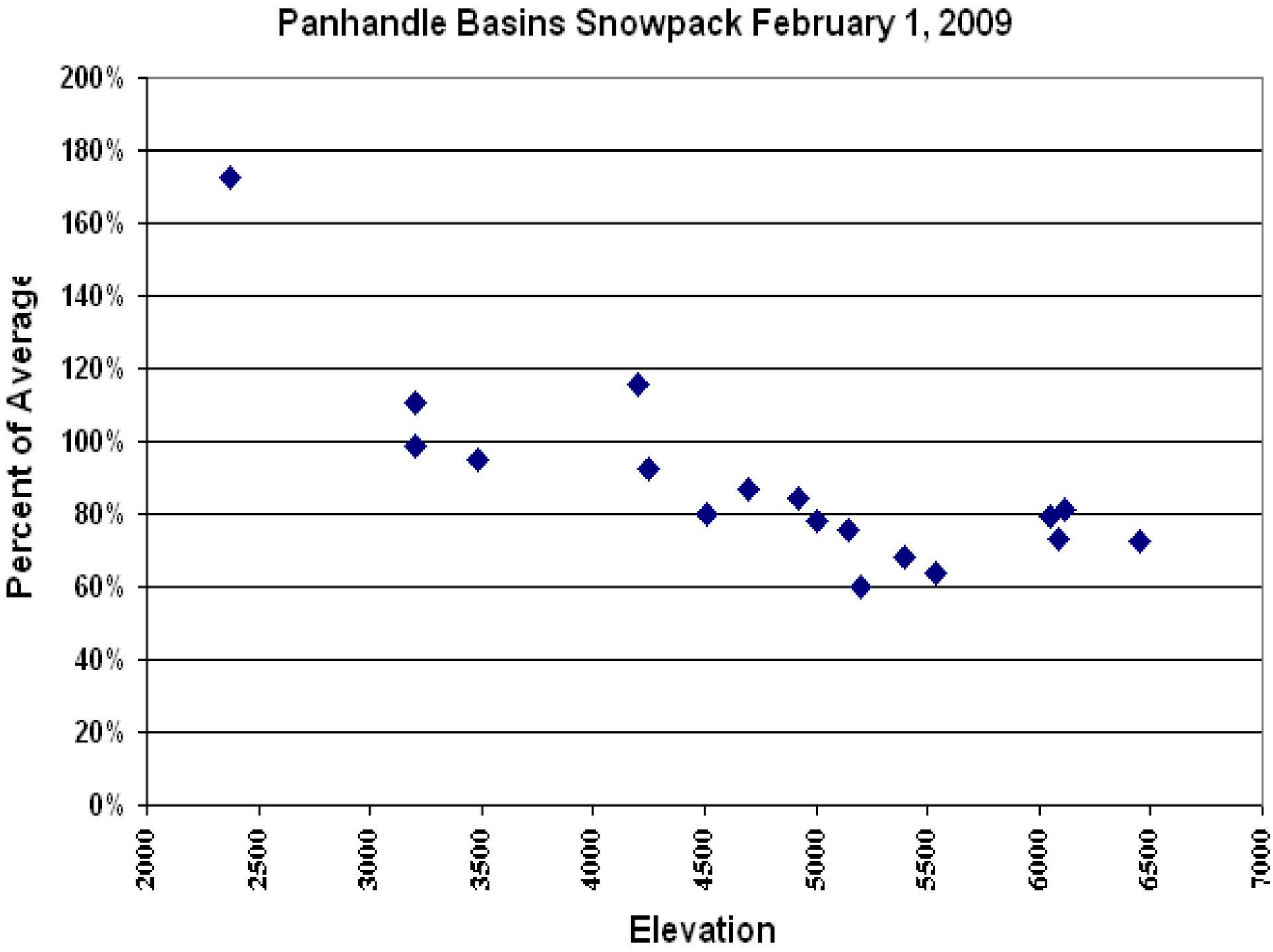
2009 Idaho Surface Water Supply Index (SWSI)
For January and February 2009

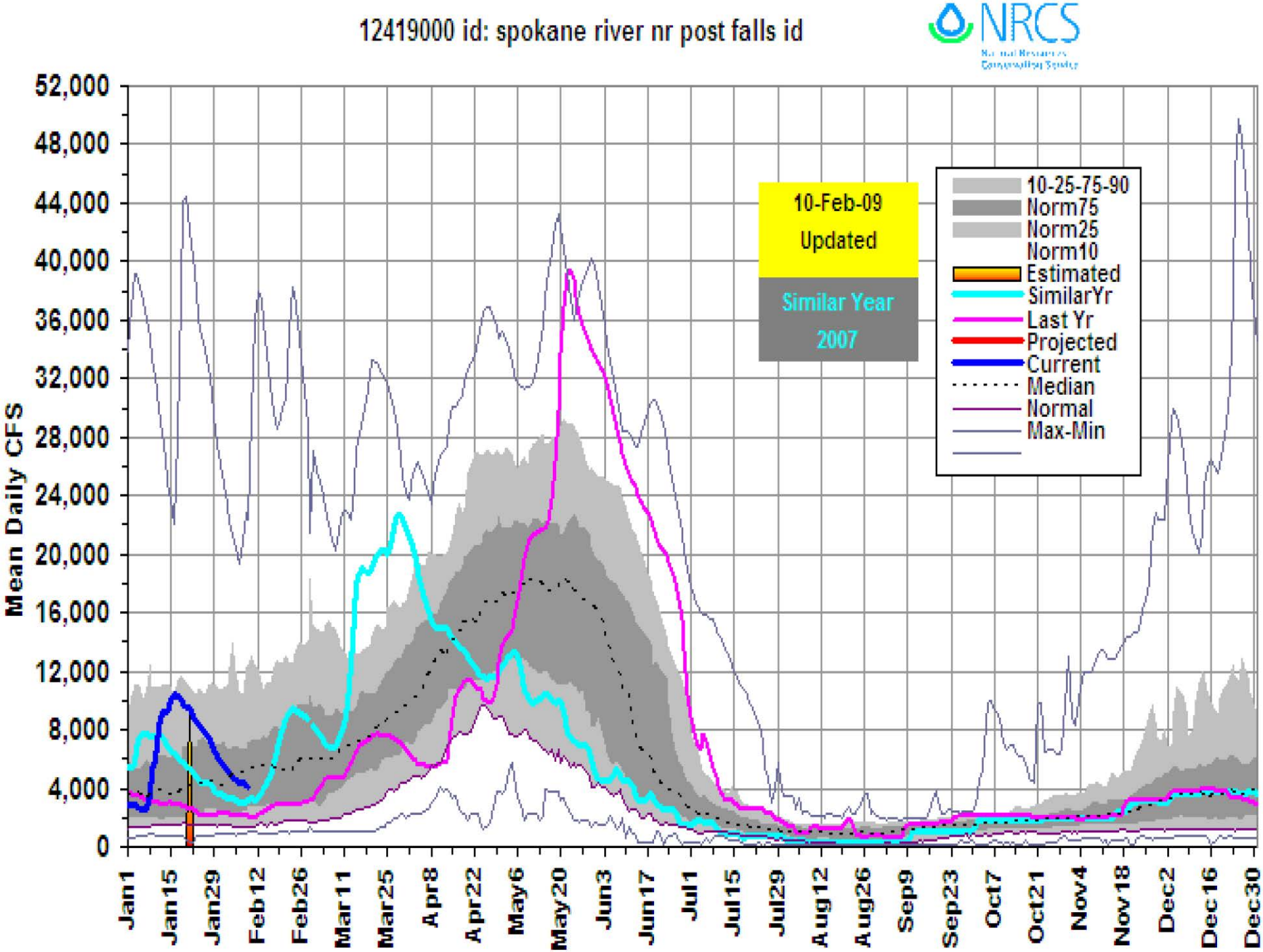
BASIN or/ REGION	January SWSI Value	February SWSI Value	February SWSI Value Based on 70% Exceedance Forecast	Agricultural Surface Water Supply Shortage May Occur When SWSI is Less Than
PANHANDLE	-1.9	-1.9		NA
CLEARWATER	-0.5	0.1	------	NA
SALMON	-0.2	-0.2	-0.8	NA
WEISER	1.7	-1.5	-2.3	NA
PAYETTE	-0.4	-1.1	-1.7	NA
BOISE	0.4	-0.4	-1.3	-1.7
BIG WOOD	-0.6	-1.1	-1.9	0.0
LITTLE WOOD	0.4	-0.6	-1.5	-2.0
BIG LOST	-0.2	-0.6	-1.7	-0.1
LITTLE LOST	-0.9	-1.5	-2.6	0.5
HENRYS FORK	-1.9	-0.5	-1.6	-3.3
SNAKE – HEISE	0.4	0.9	0.2	-1.7
OWYHEE	-0.6	-0.9	-2.1	NA
OAKLEY	-0.9	-1.1	-1.9	-0.9
SALMON FALLS	-1.5	-1.5	-1.9	-1.3
BRUNEAU	-0.6	-0.6	-0.9	NA
BEAR RIVER	-2.7	-2.7	-2.8	-3.0

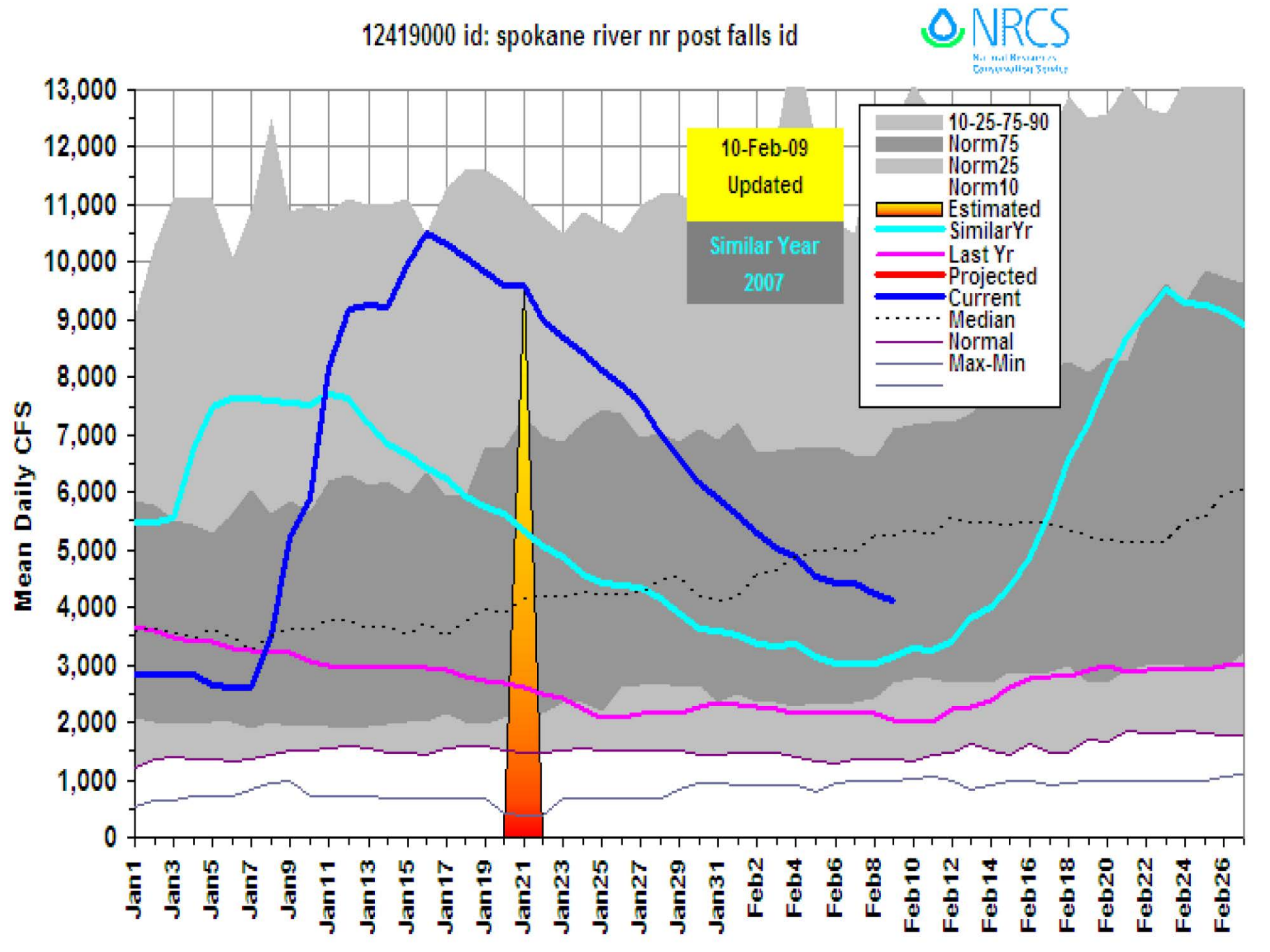
SWSI SCALE, PERCENT CHANCE OF EXCEEDANCE, AND INTERPRETATION

```
-4     -3     -2     -1      0      1      2      3      4
|------|------|------|------|------|------|------|------|
99%    87%    75%    63%    50%    37%    25%    13%    1%
-----------------------------------------------------------
|Much  | Below    |    Near Normal     |  Above  | Much |
|Below | Normal   |   Water Supply     |  Normal | Above|
```

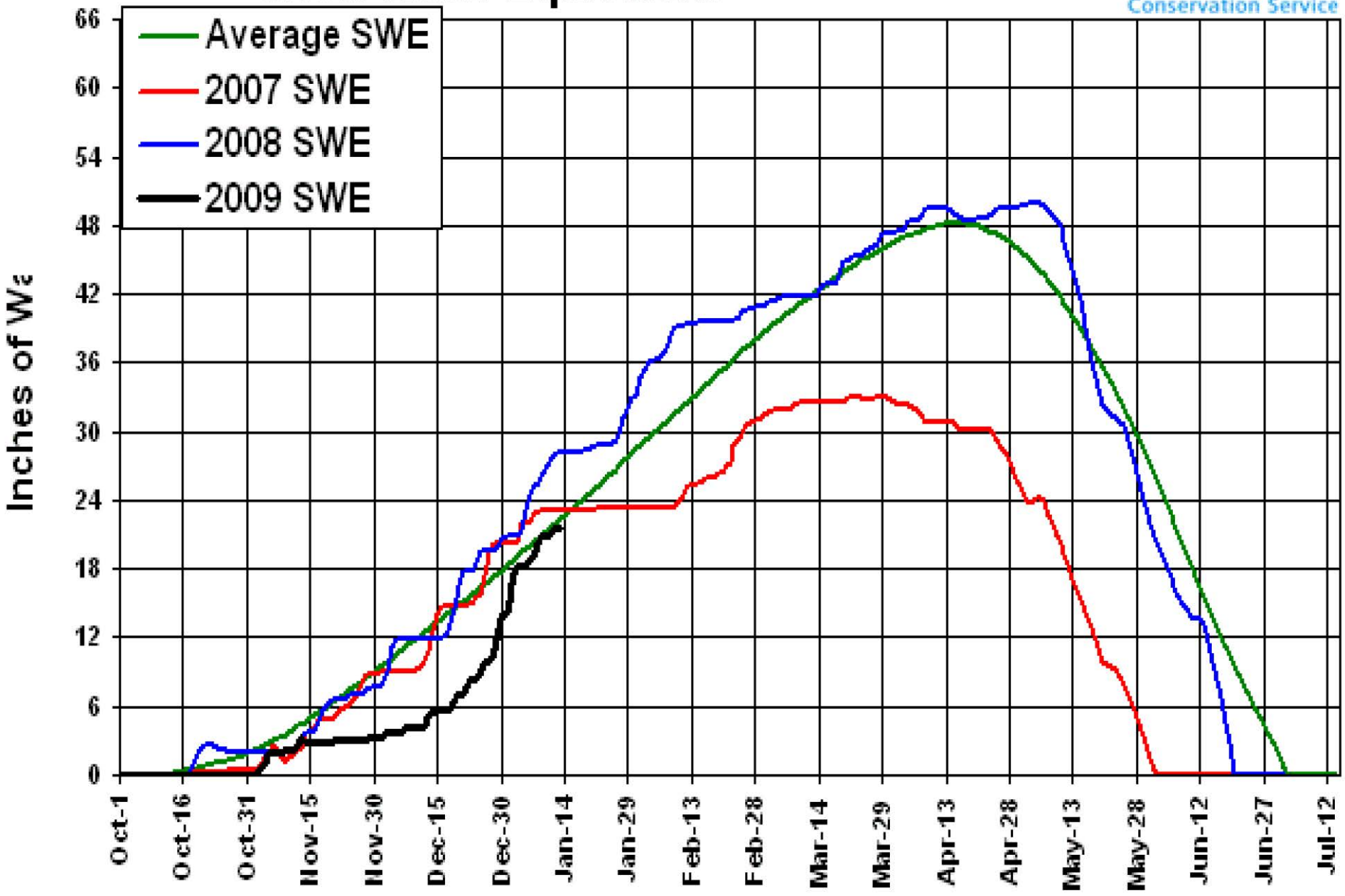

Panhandle Region 2009 Snowpack Graph (13 Sites)
SWE Average
Prec Average
SWE Current
Prec Current
SWE Projected
Prec Projected
SWE 2008
Prec 2008
As of Tuesday, February 10, 2009:
SWE Percent of Average: 74
SWE Percent of Seasonal Peak: 54
Percent Needed to Reach Seasonal SWE Peak: 174
Inches - Snow Water Equivalent & Precipitation
0
10
20
30
40
50
60
70
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep


Panhandle Basins Snowpack February 1, 2009
Percent of Average
200%
180%
160%
140%
120%
100%
80%
60%
40%
20%
0%
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
Elevation

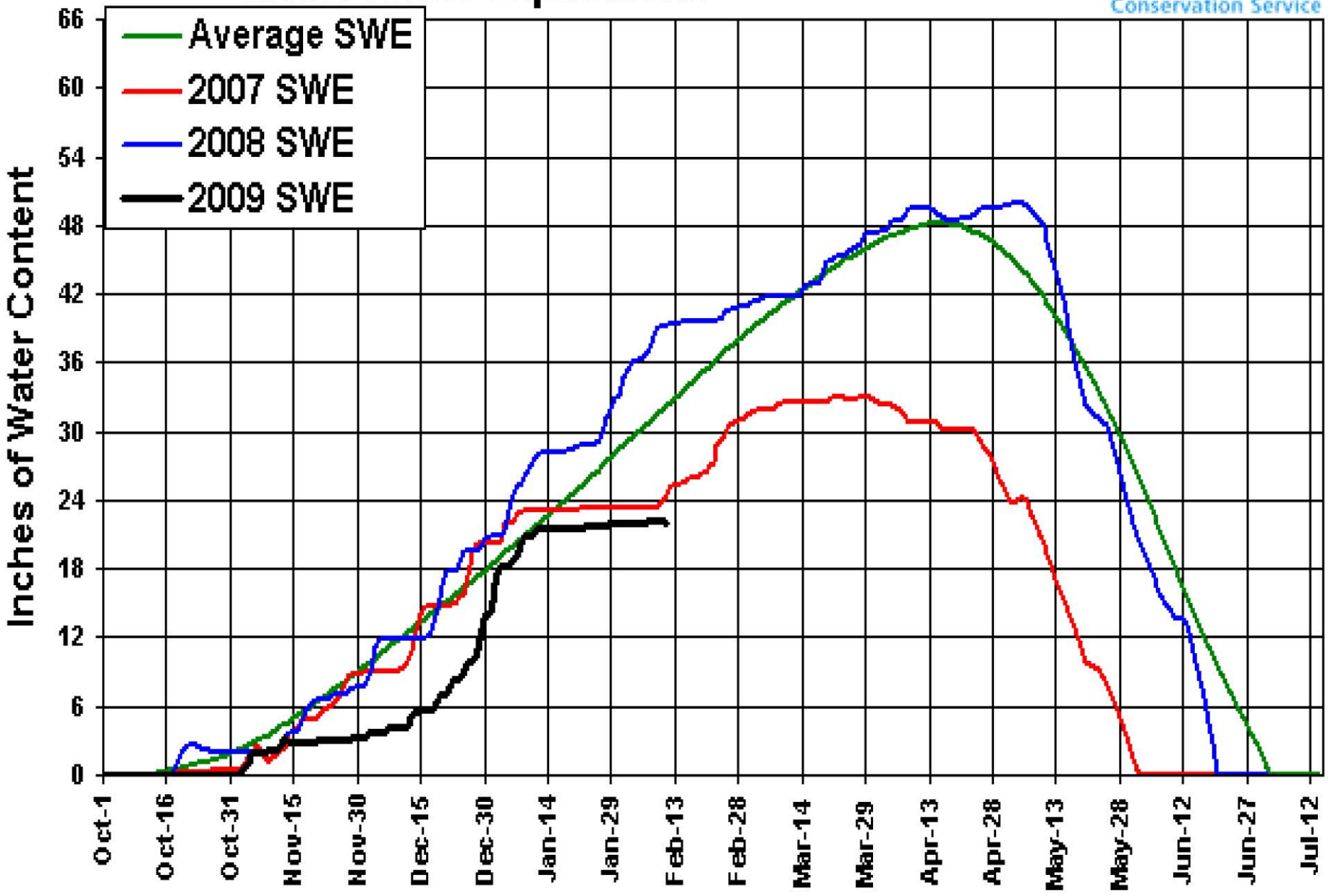

12419000 id: spokane river nr post falls id
NRCS
10-Feb-09
Updated
Similar Year
2007
10-25-75-90
Norm75
Norm25
Norm10
Estimated
SimilarYr
Last Yr
Projected
Current
Median
Normal
Max-Min
Mean Daily CFS
52,000
48,000
44,000
40,000
36,000
32,000
28,000
24,000
20,000
16,000
12,000
8,000
4,000
0
Jan1
Jan15
Jan29
Feb12
Feb26
Mar11
Mar25
Apr8
Apr22
May6
May20
Jun3
Jun17
Jul1
Jul15
Jul29
Aug12
Aug26
Sep9
Sep23
Oct7
Oct21
Nov4
Nov18
Dec2
Dec16
Dec30

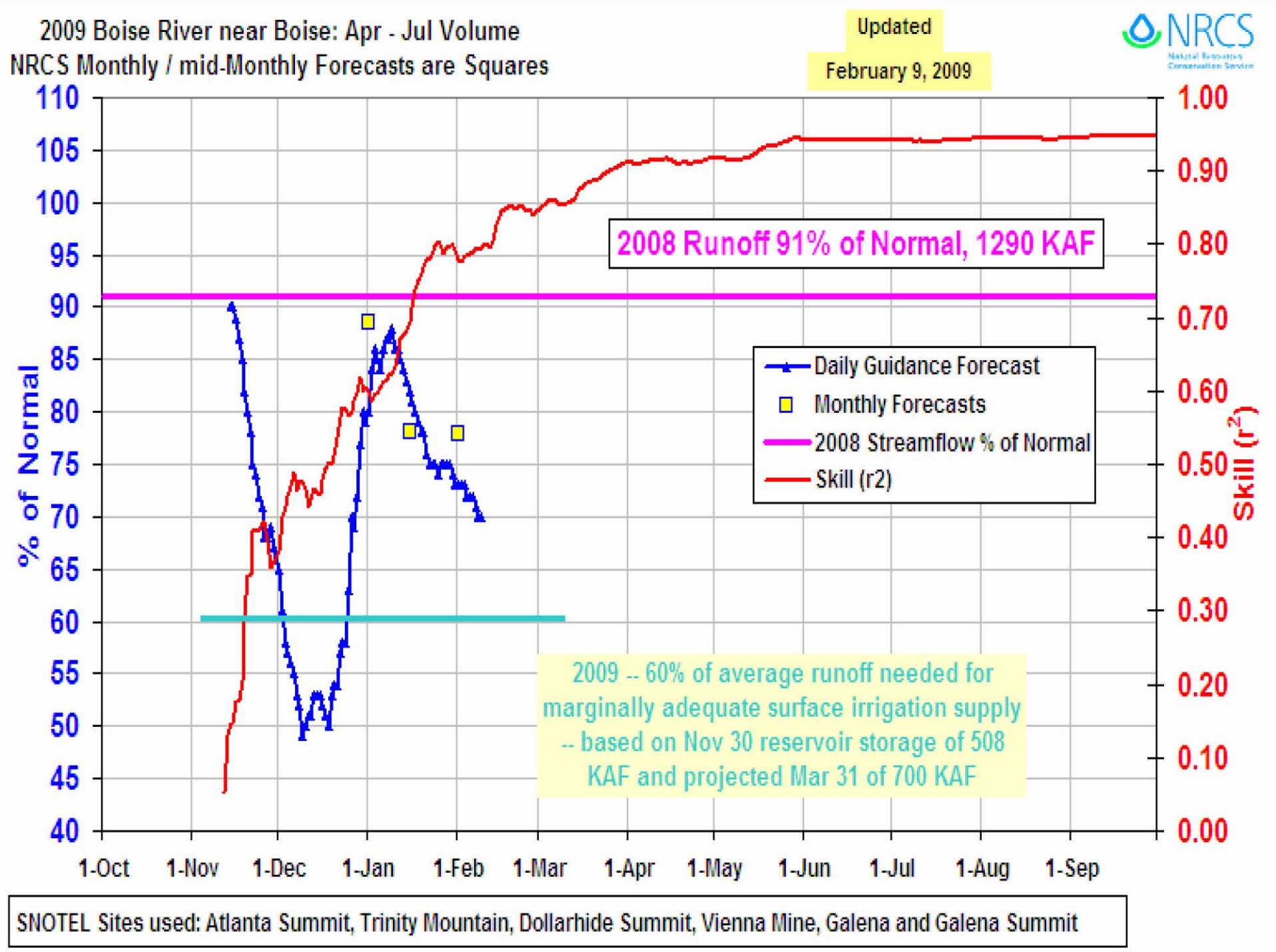

12419000 id: spokane river nr post falls id
NRCS
10-Feb-09
Updated
Similar Year
2007
10-25-75-90
Norm75
Norm25
Norm10
Estimated
SimilarYr
Last Yr
Projected
Current
Median
Normal
Max-Min
Mean Daily CFS
13,000
12,000
11,000
10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Jan1
Jan3
Jan5
Jan7
Jan9
Jan11
Jan13
Jan15
Jan17
Jan19
Jan21
Jan23
Jan25
Jan27
Jan29
Jan31
Feb2
Feb4
Feb6
Feb8
Feb10
Feb12
Feb14
Feb16
Feb18
Feb20
Feb22
Feb24
Feb26

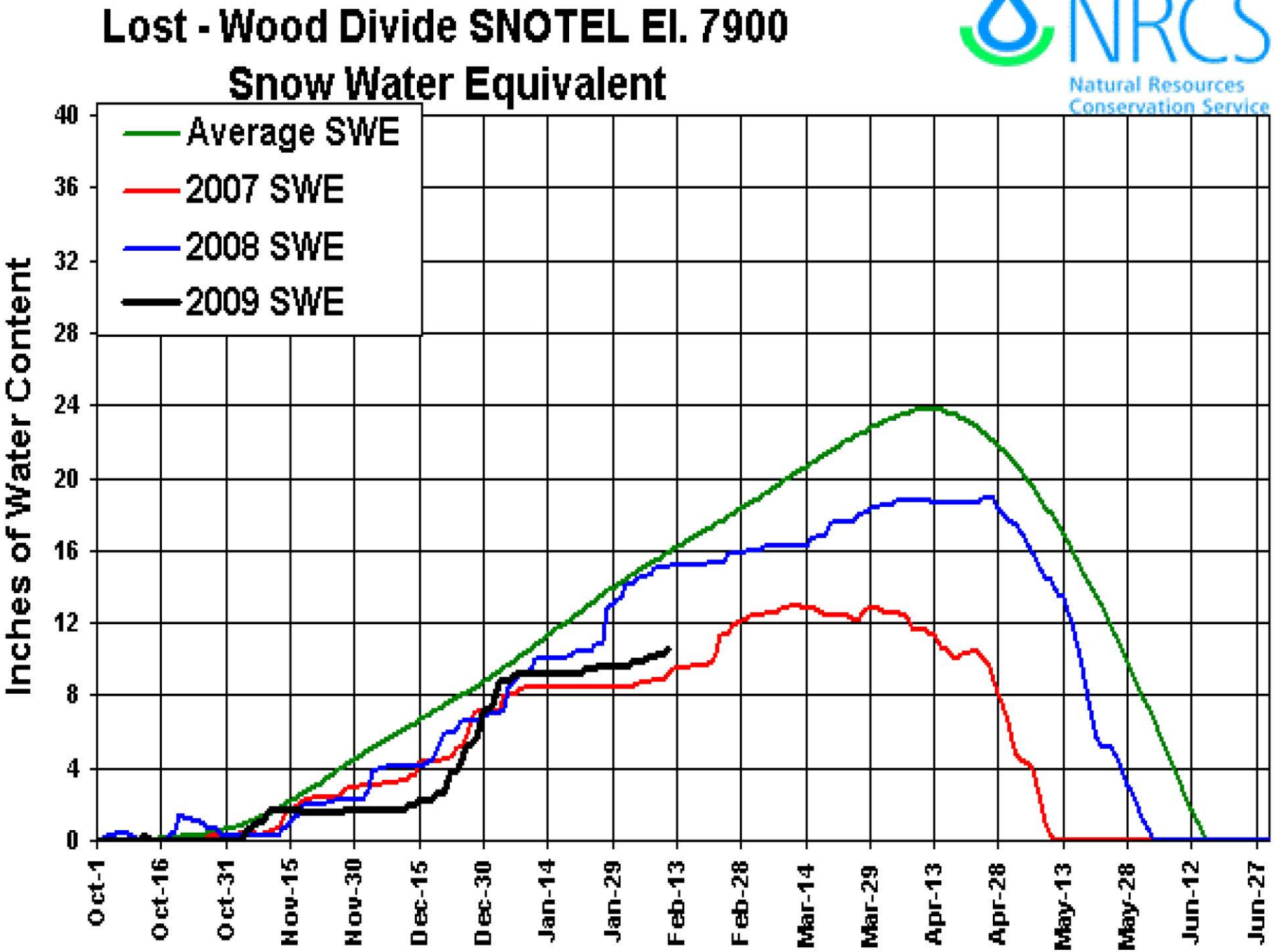
Deadwood Summit SNOTEL El. 6860
Snow Water Equivalent

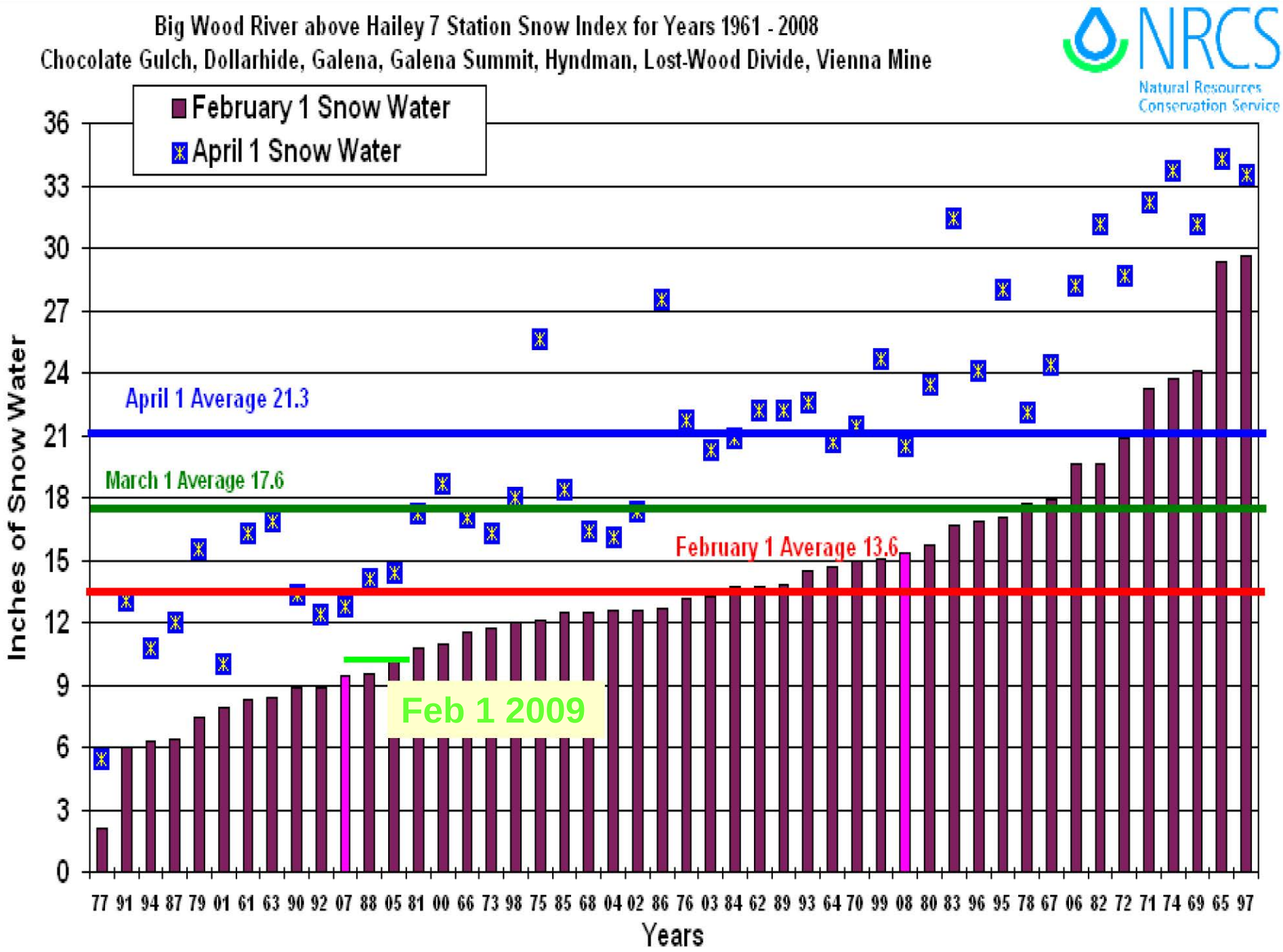


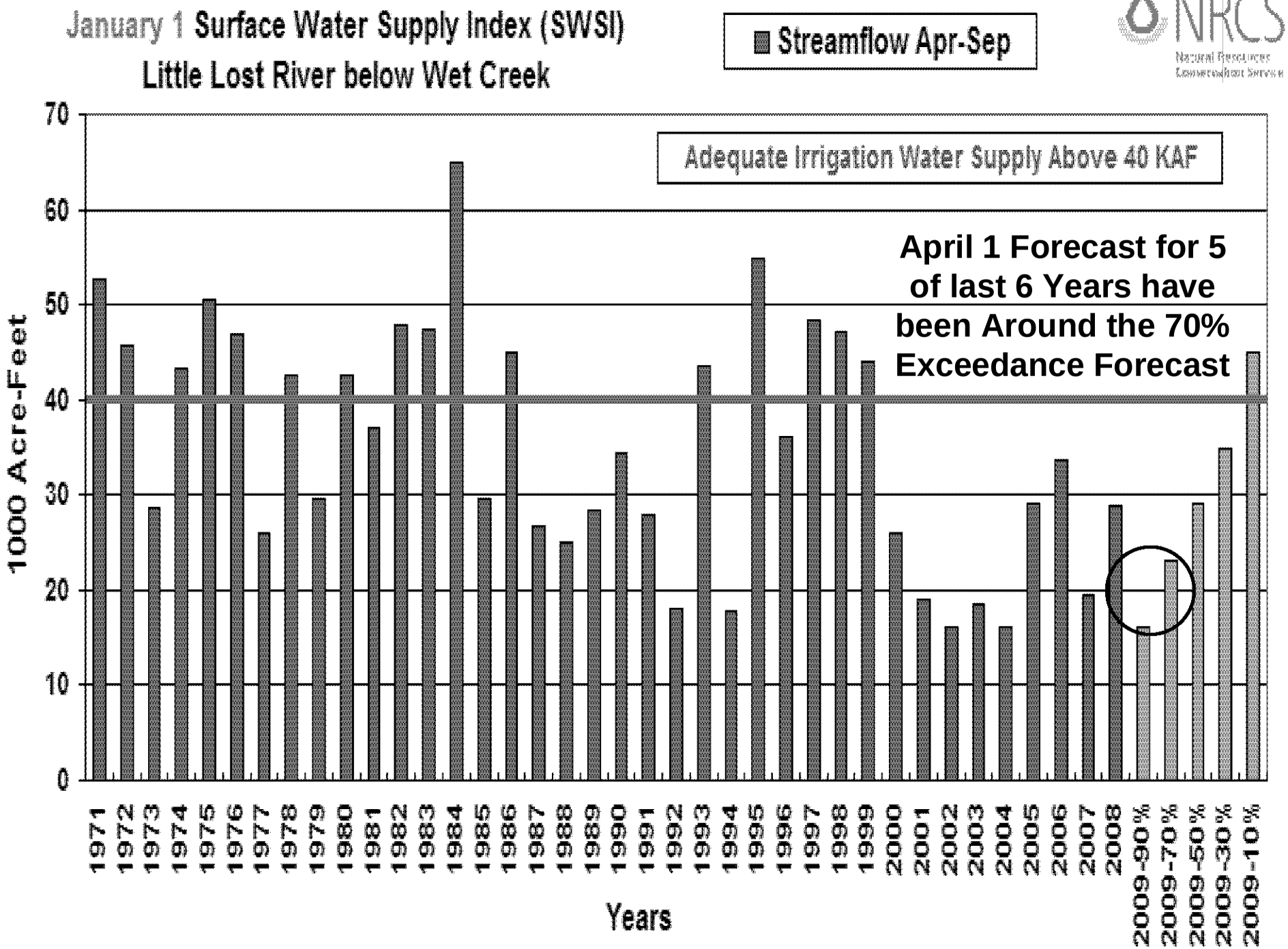
Deadwood Summit SNOTEL El. 6860
Snow Water Equivalent

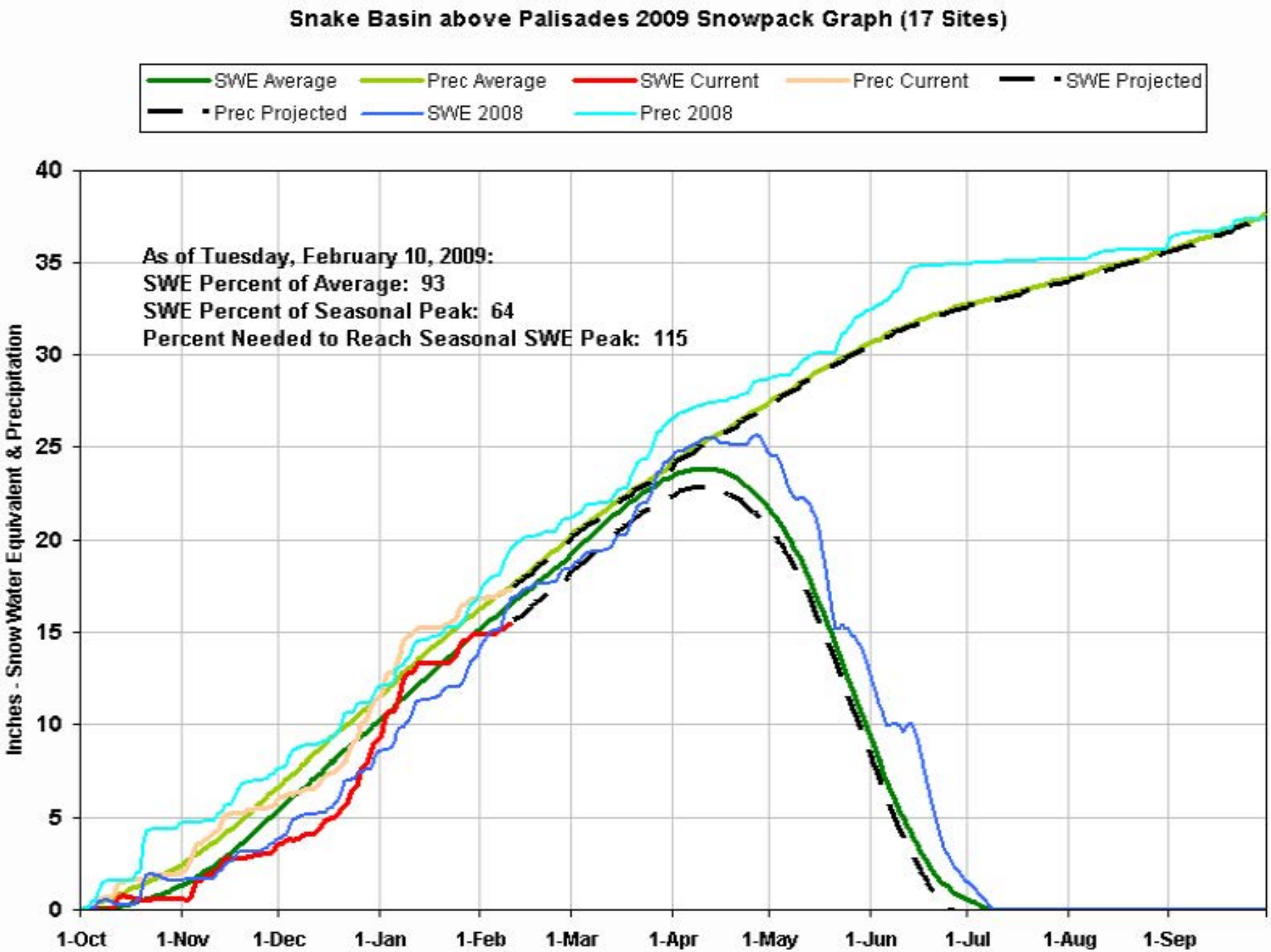



2009 Boise River near Boise: Apr - Jul Volume
NRCS Monthly / mid-Monthly Forecasts are Squares
Updated
February 9, 2009
NRCS
Natural Resources Conservation Service
2008 Runoff 91% of Normal, 1290 KAF
Daily Guidance Forecast
Monthly Forecasts
2008 Streamflow % of Normal
Skill (r2)
2009 -- 60% of average runoff needed for marginally adequate surface irrigation supply -- based on Nov 30 reservoir storage of 508 KAF and projected Mar 31 of 700 KAF
% of Normal
Skill (r2)
110
105
100
95
90
85
80
75
70
65
60
55
50
45
40
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
SNOTEL Sites used: Atlanta Summit, Trinity Mountain, Dollarhide Summit, Vienna Mine, Galena and Galena Summit

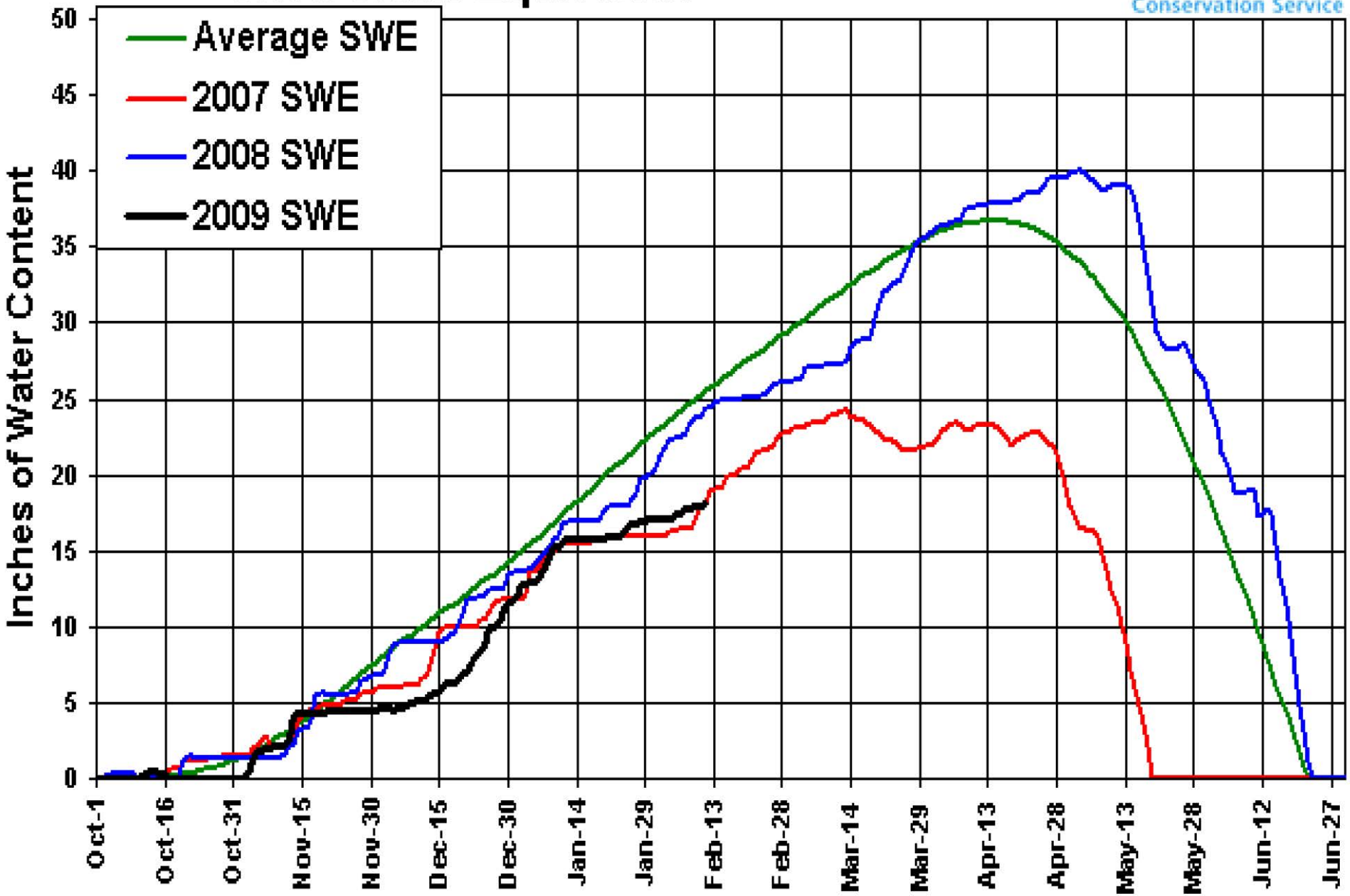

Lost - Wood Divide SNOTEL El. 7900
Snow Water Equivalent
NRCS
Natural Resources Conservation Service
Average SWE
2007 SWE
2008 SWE
2009 SWE
Inches of Water Content
0
4
8
12
16
20
24
28
32
36
40
Oct-1
Oct-16
Oct-31
Nov-15
Nov-30
Dec-15
Dec-30
Jan-14
Jan-29
Feb-13
Feb-28
Mar-14
Mar-29
Apr-13
Apr-28
May-13
May-28
Jun-12
Jun-27


Big Wood River above Hailey 7 Station Snow Index for Years 1961 - 2008
Chocolate Gulch, Dollarhide, Galena, Galena Summit, Hyndman, Lost-Wood Divide, Vienna Mine
NRCS
Natural Resources Conservation Service
February 1 Snow Water
April 1 Snow Water
April 1 Average 21.3
March 1 Average 17.6
February 1 Average 13.6
Feb 1 2009
Inches of Snow Water
0
3
6
9
12
15
18
21
24
27
30
33
36
77 91 94 87 79 01 61 63 90 92 07 88 05 81 00 66 73 98 75 85 68 04 02 86 76 03 84 62 89 93 64 70 99 08 80 83 96 95 78 67 06 82 72 71 74 69 65 97
Years

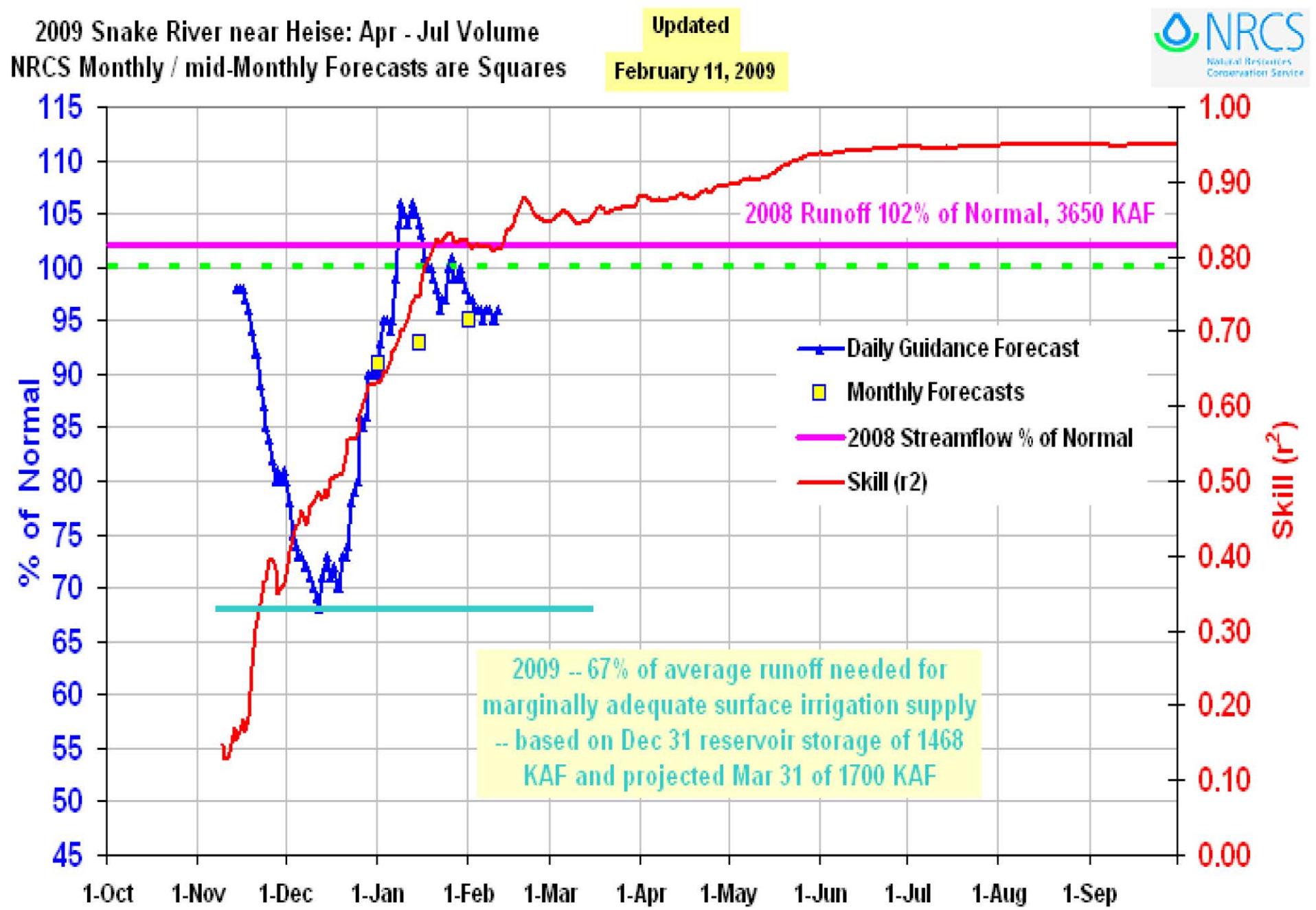

January 1 Surface Water Supply Index (SWSI)
Little Lost River below Wet Creek
Streamflow Apr-Sep
NRCS
Natural Resources Conservation Service
Adequate Irrigation Water Supply Above 40 KAF
April 1 Forecast for 5 of last 6 Years have been Around the 70% Exceedance Forecast
1000 Acre-Feet
0
10
20
30
40
50
60
70
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009-90%
2009-70%
2009-50%
2009-30%
2009-10%
Years


Snake Basin above Palisades 2009 Snowpack Graph (17 Sites)
SWE Average
Prec Average
SWE Current
Prec Current
SWE Projected
Prec Projected
SWE 2008
Prec 2008
As of Tuesday, February 10, 2009:
SWE Percent of Average: 93
SWE Percent of Seasonal Peak: 64
Percent Needed to Reach Seasonal SWE Peak: 115
Inches - Snow Water Equivalent & Precipitation
0
5
10
15
20
25
30
35
40
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep

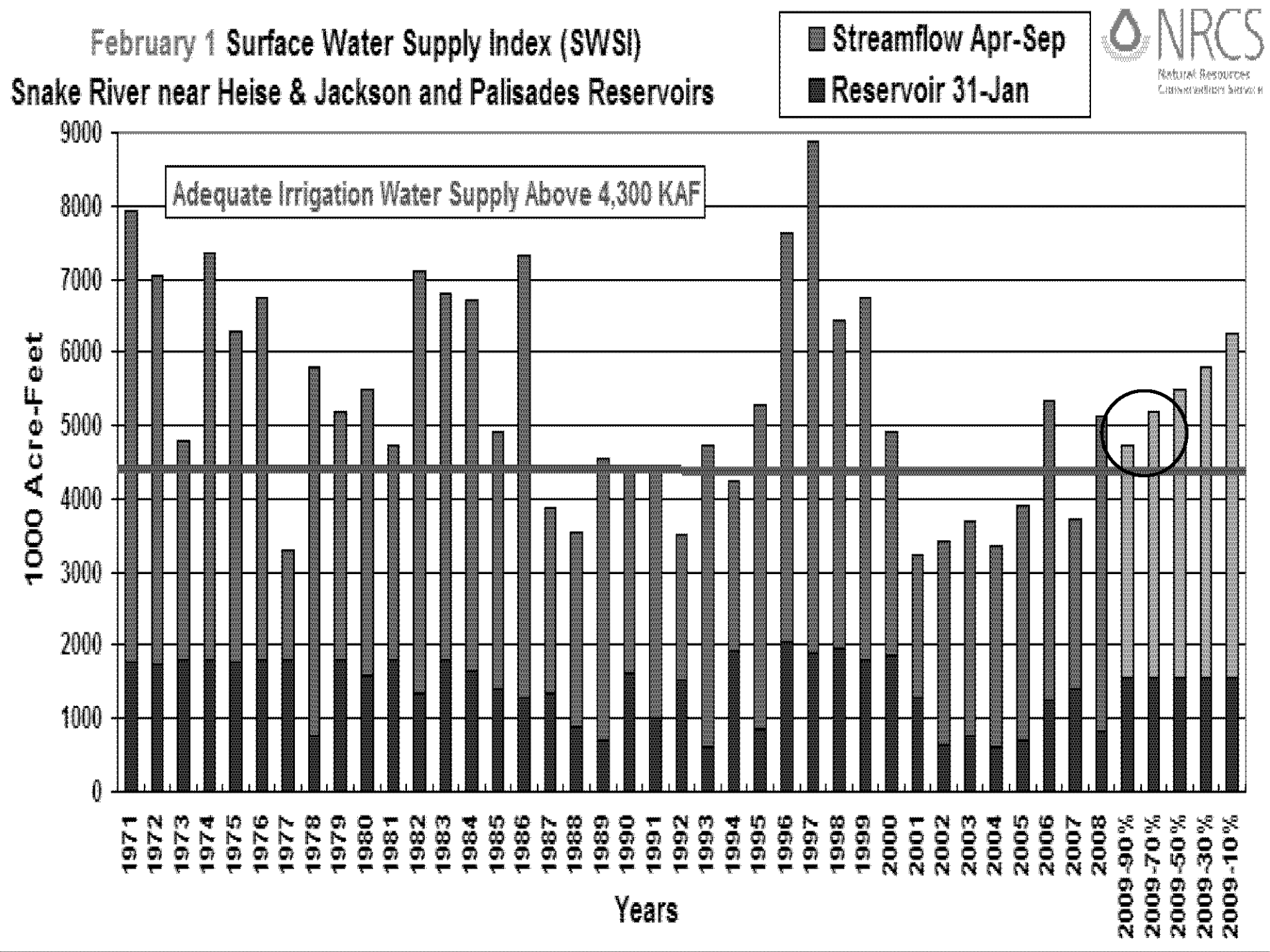
Lewis Lake Divide SNOTEL El. 7850
Snow Water Equivalent

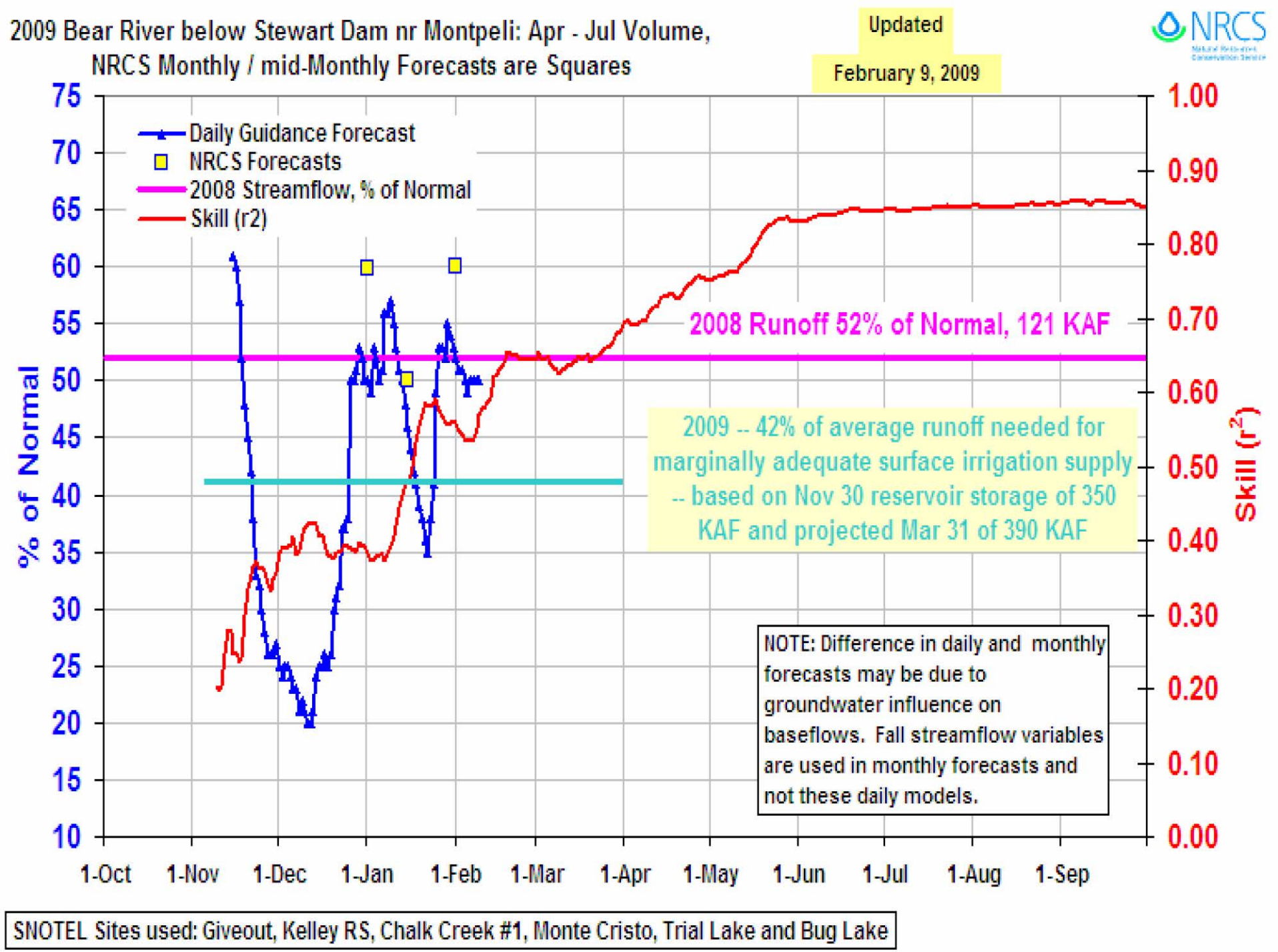


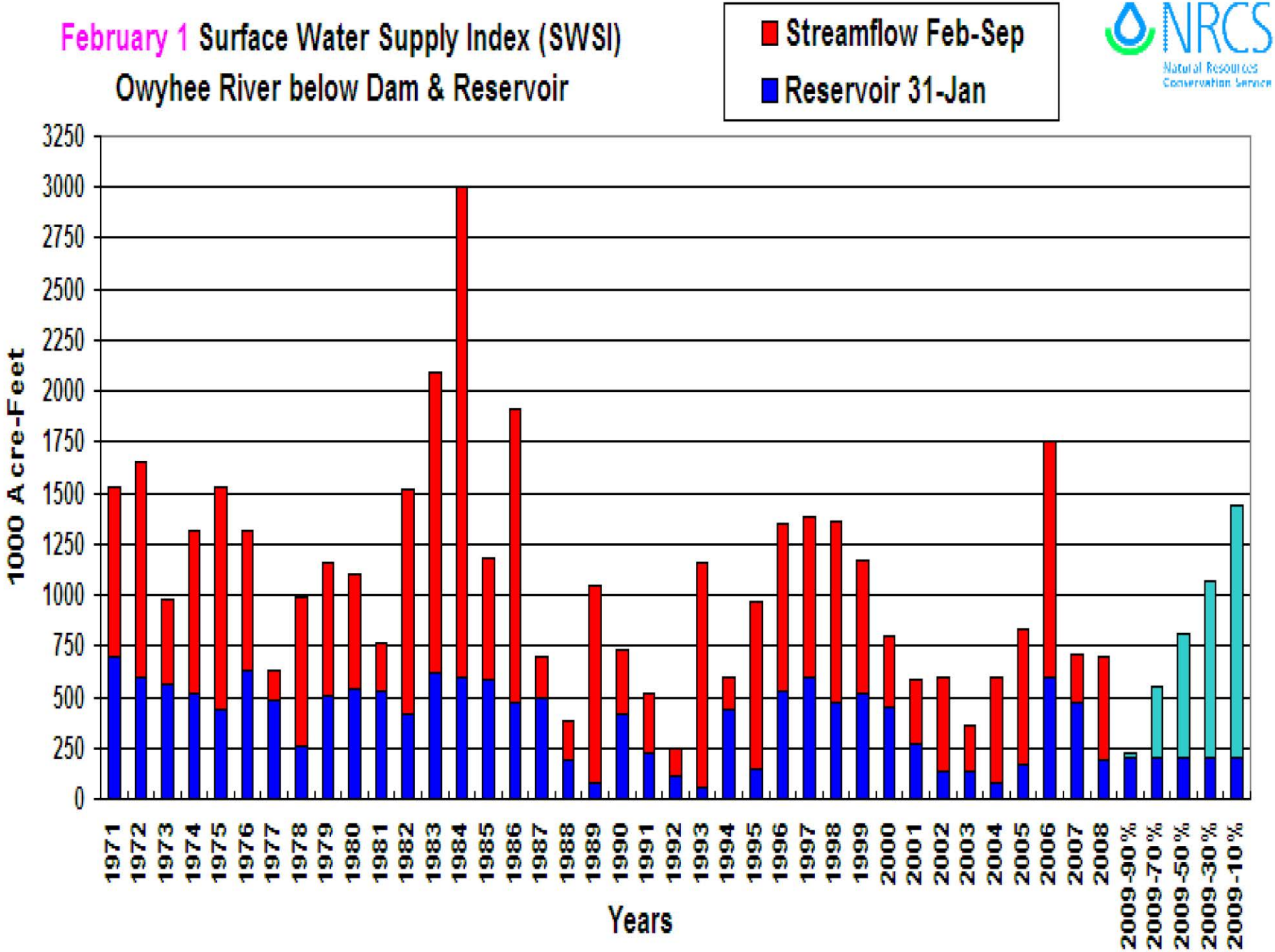
NRCS
Natural Resources Conservation Service



SNOTEL Sites used: Base Camp, Blind Bull, Cottonwood Ck, Lewis Lake, Snake River Sta, Slug Creek, Thumb Divide and Willow Ck


February 1 Surface Water Supply Index (SWSI)
Snake River near Heise & Jackson and Palisades Reservoirs
Streamflow Apr-Sep
Reservoir 31-Jan
NRCS
Natural Resources Conservation Service
Adequate Irrigation Water Supply Above 4,300 KAF
1000 Acre-Feet
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009-90%
2009-70%
2009-50%
2009-30%
2009-10%
Years


2009 Bear River below Stewart Dam nr Montpeli: Apr - Jul Volume,
NRCS Monthly / mid-Monthly Forecasts are Squares
Updated
February 9, 2009
NRCS
Daily Guidance Forecast
NRCS Forecasts
2008 Streamflow, % of Normal
Skill (r2)
2008 Runoff 52% of Normal, 121 KAF
2009 -- 42% of average runoff needed for marginally adequate surface irrigation supply -- based on Nov 30 reservoir storage of 350 KAF and projected Mar 31 of 390 KAF
NOTE: Difference in daily and monthly forecasts may be due to groundwater influence on baseflows. Fall streamflow variables are used in monthly forecasts and not these daily models.
% of Normal
Skill (r^2)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
SNOTEL Sites used: Giveout, Kelley RS, Chalk Creek #1, Monte Cristo, Trial Lake and Bug Lake


February 1 Surface Water Supply Index (SWSI)
Owyhee River below Dam & Reservoir
Streamflow Feb-Sep
Reservoir 31-Jan
NRCS
Natural Resources Conservation Service
1000 Acre-Feet
3250
3000
2750
2500
2250
2000
1750
1500
1250
1000
750
500
250
0
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009-90%
2009-70%
2009-50%
2009-30%
2009-10%
Years

Idaho Weather, Climate and Water Supply Outlook

IDWR Briefing, Feb 12th 2009

Jay Breidenbach, NOAA National Weather Service

2009 Water Year Precipitation Review through January

Forecast for next 10 days

Weather Pattern Uncertainty

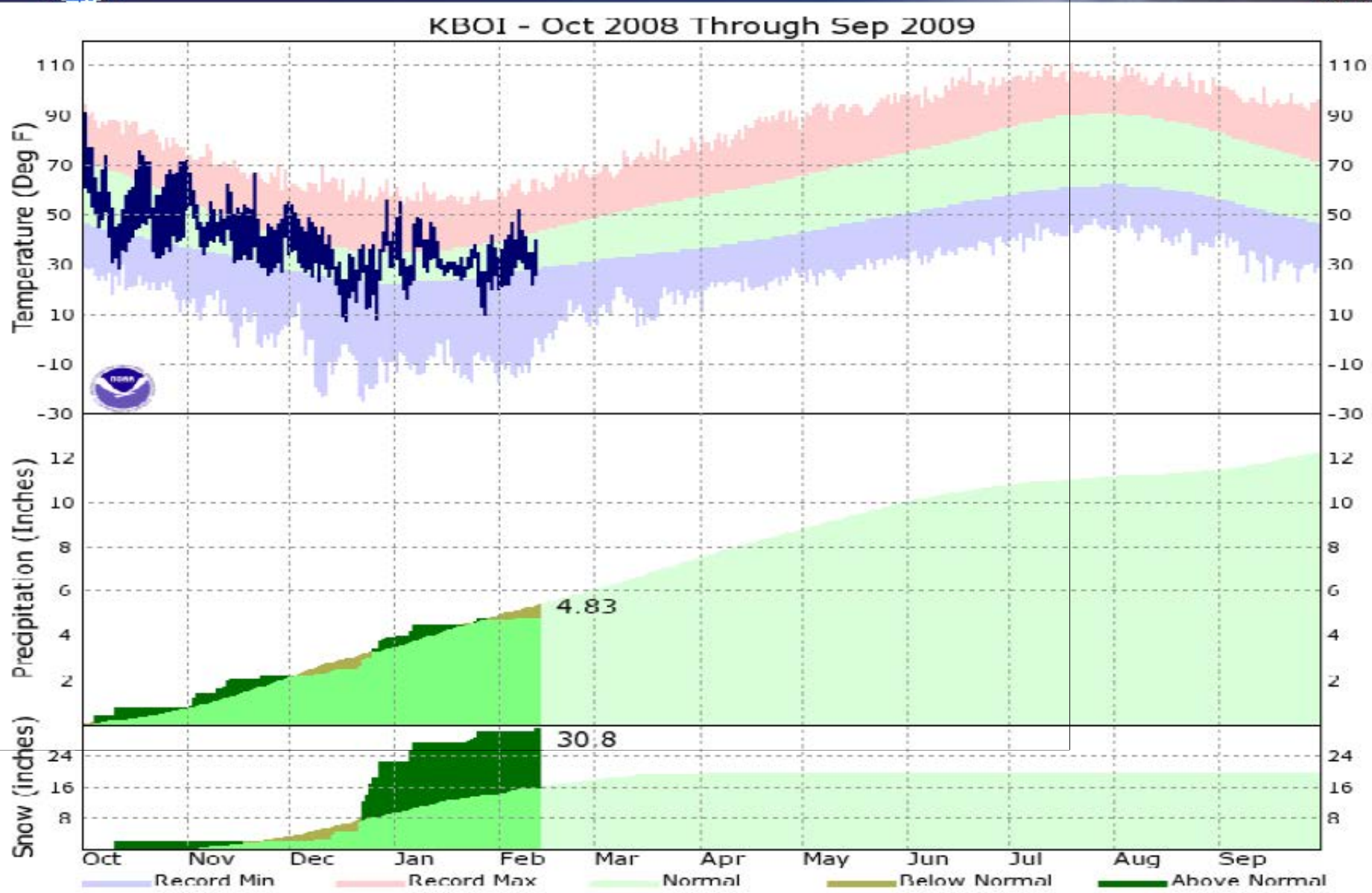
La-Nina Status

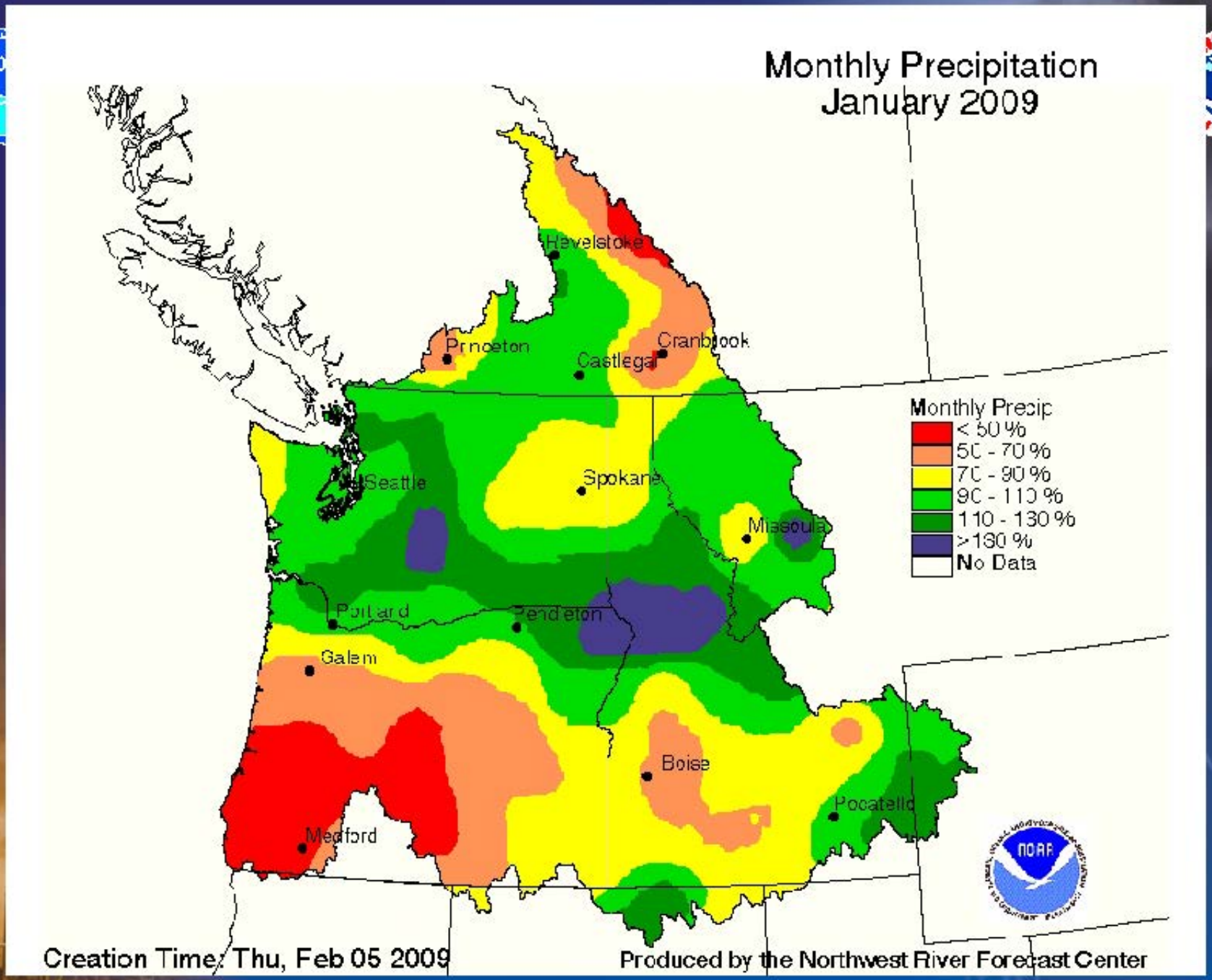
Three Month Climate Outlook

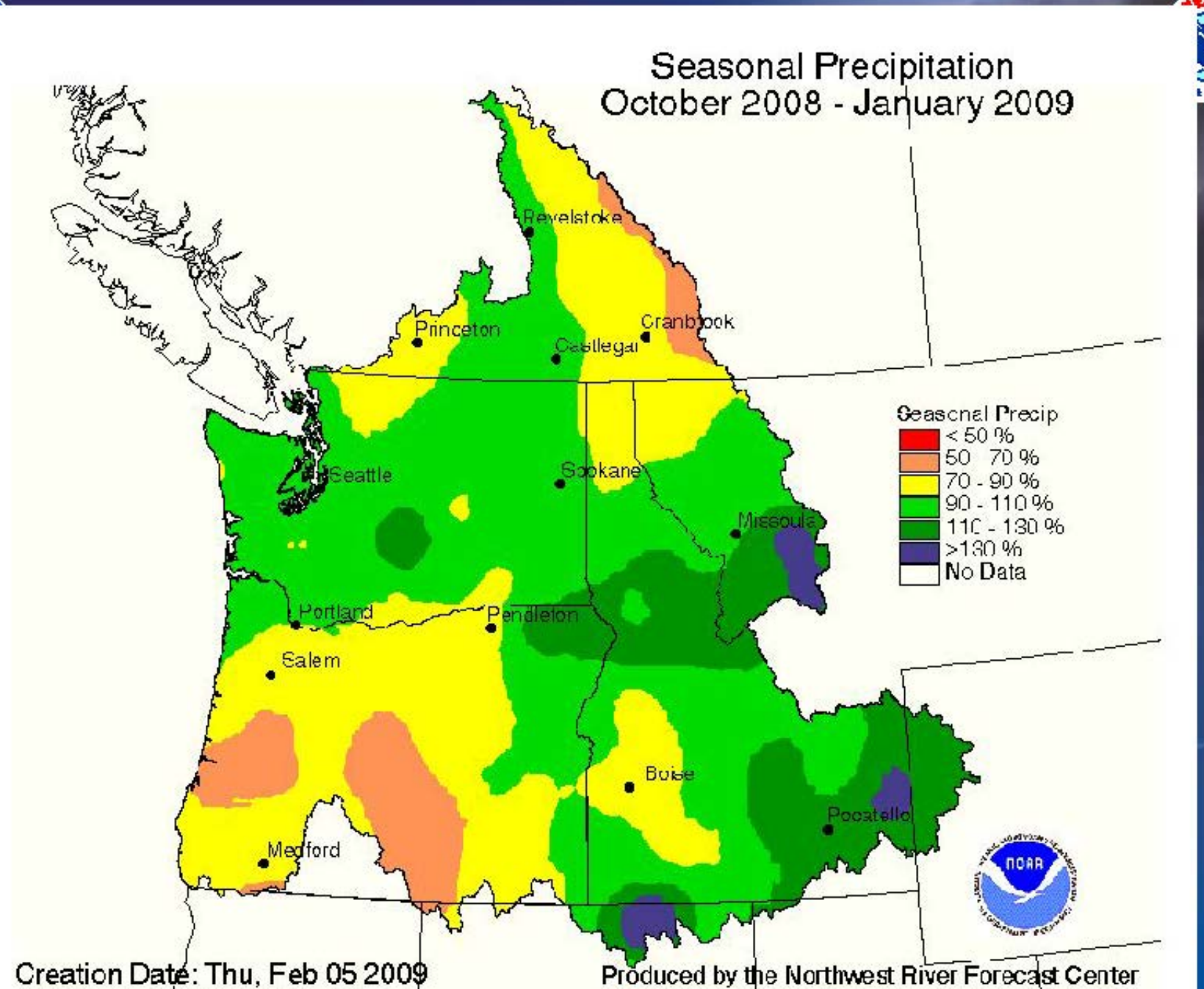
Water Supply Numbers and Drought Summary

Preliminary Spring Flood Outlook

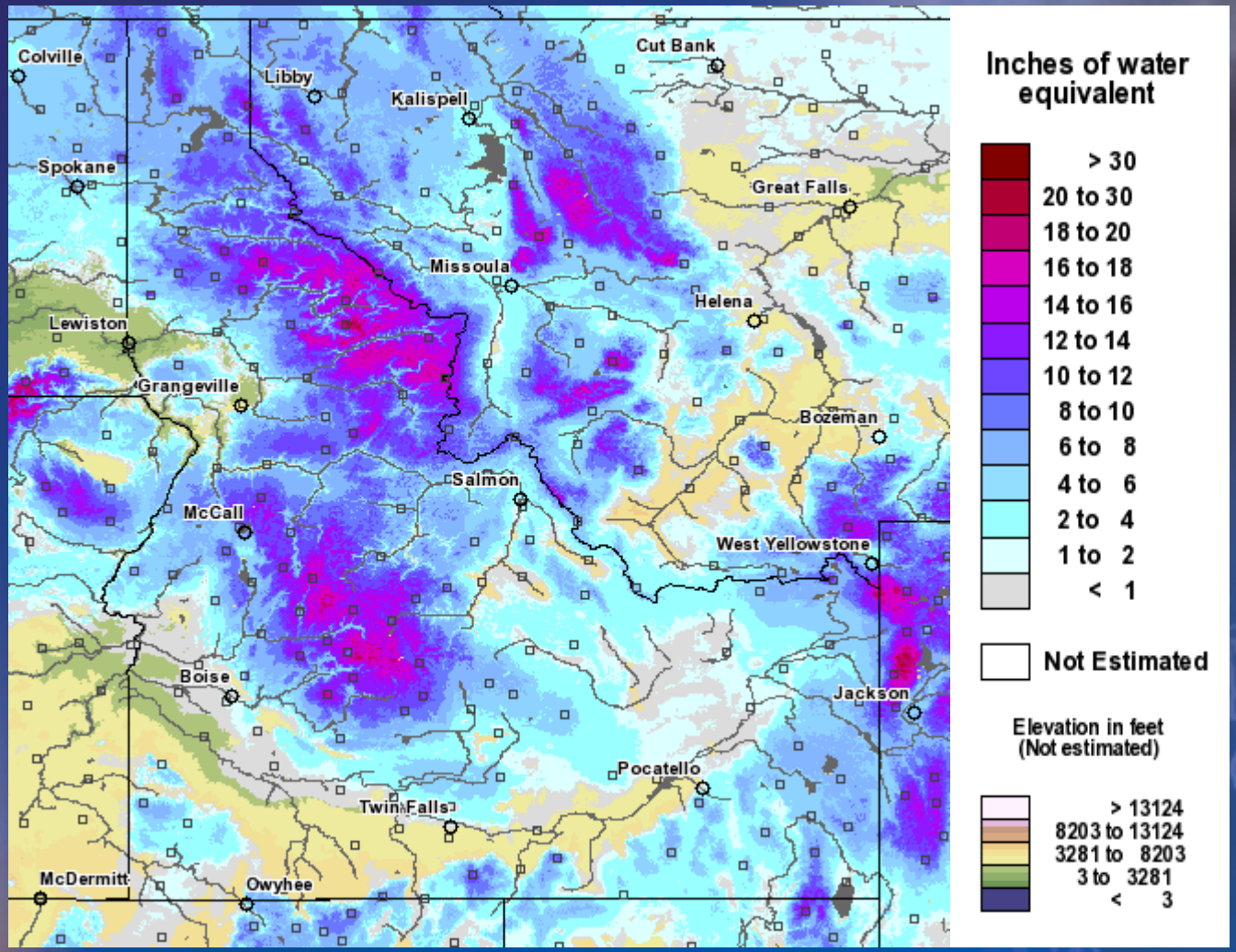
Boise – Temperature, Precipitation, Snow 2009 WY



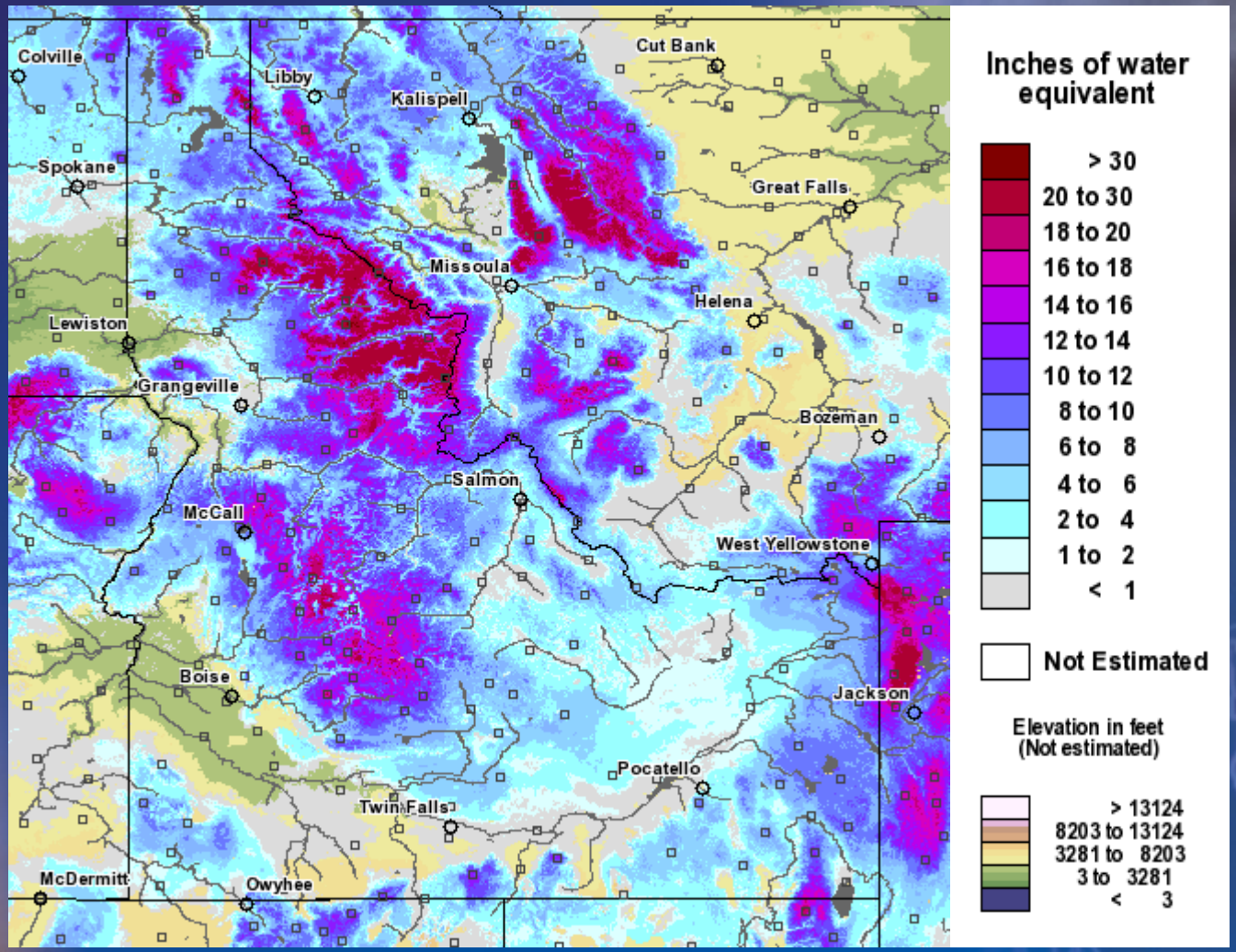

Monthly Precipitation
January 2009
Revelstoke
Princeton
Cranbrook
Castlegar
Seattle
Spokane
Missoula
Portland
Pendleton
Salem
Boise
Pocatello
Medford
Monthly Precip
< 50 %
50 - 70 %
70 - 90 %
90 - 110 %
110 - 130 %
>130 %
No Data
Creation Time: Thu, Feb 05 2009
Produced by the Northwest River Forecast Center


Seasonal Precipitation
October 2008 - January 2009
Revelstoke
Princeton
Cranbrook
Castlegar
Seattle
Spokane
Missoula
Portland
Pendleton
Salem
Boise
Pocatello
Medford
Seasonal Precip
< 50 %
50 - 70 %
70 - 90 %
90 - 110 %
110 - 130 %
>130 %
No Data
Creation Date: Thu, Feb 05 2009
Produced by the Northwest River Forecast Center

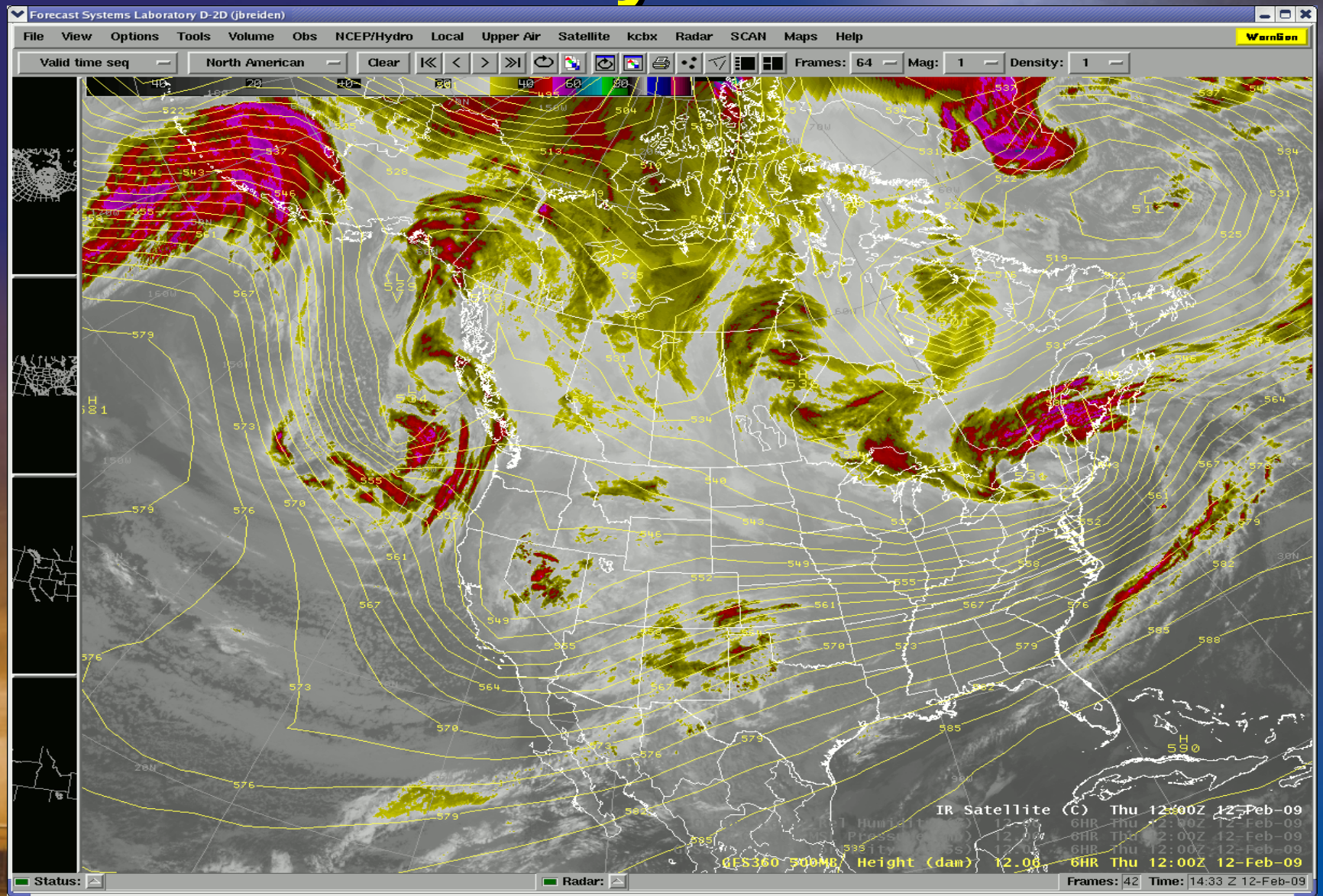
Snow Water Equivalent
Jan 8th, 2009



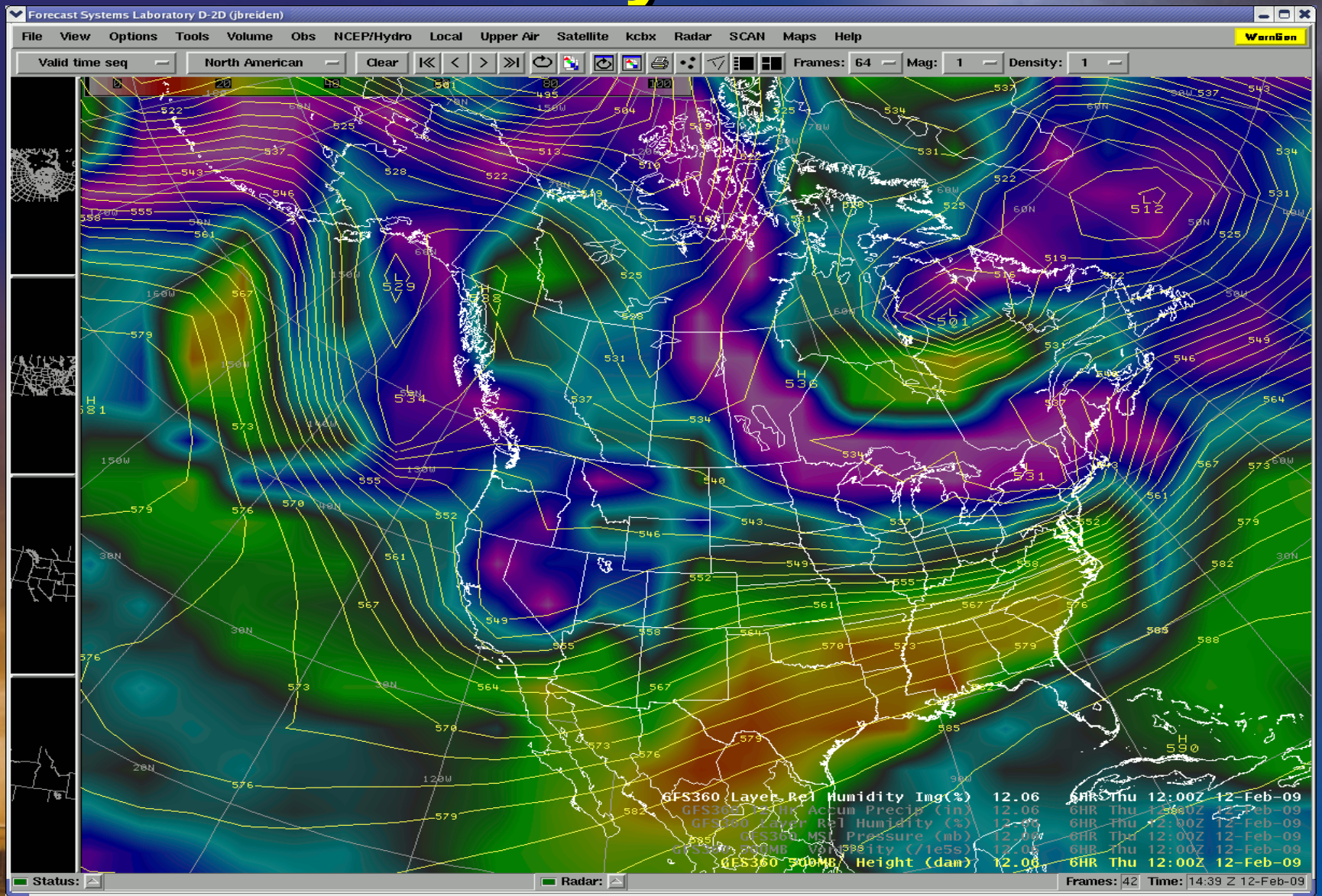
Snow Water Equivalent
Feb 8th, 2009



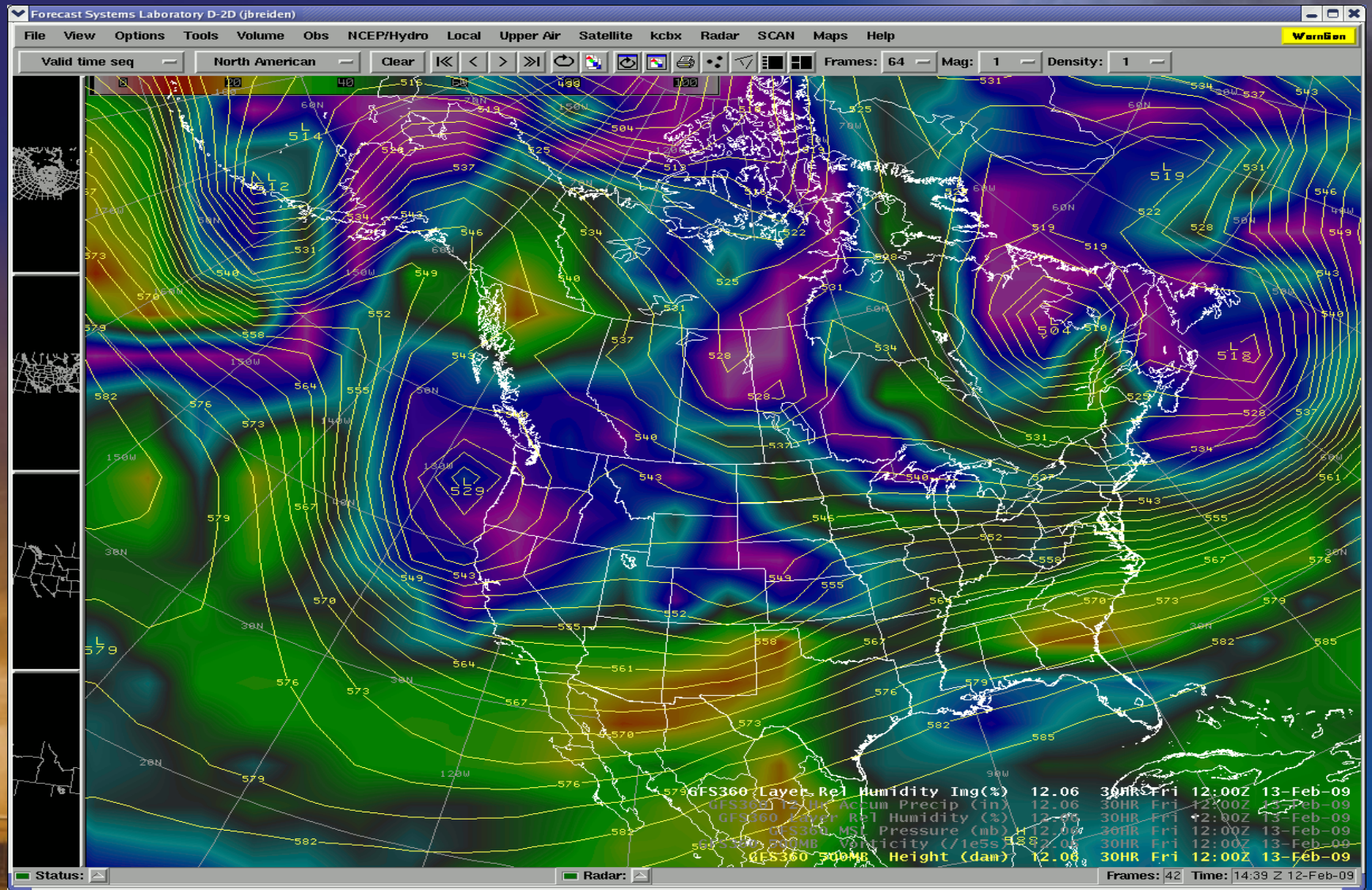
Thursday Feb 12th



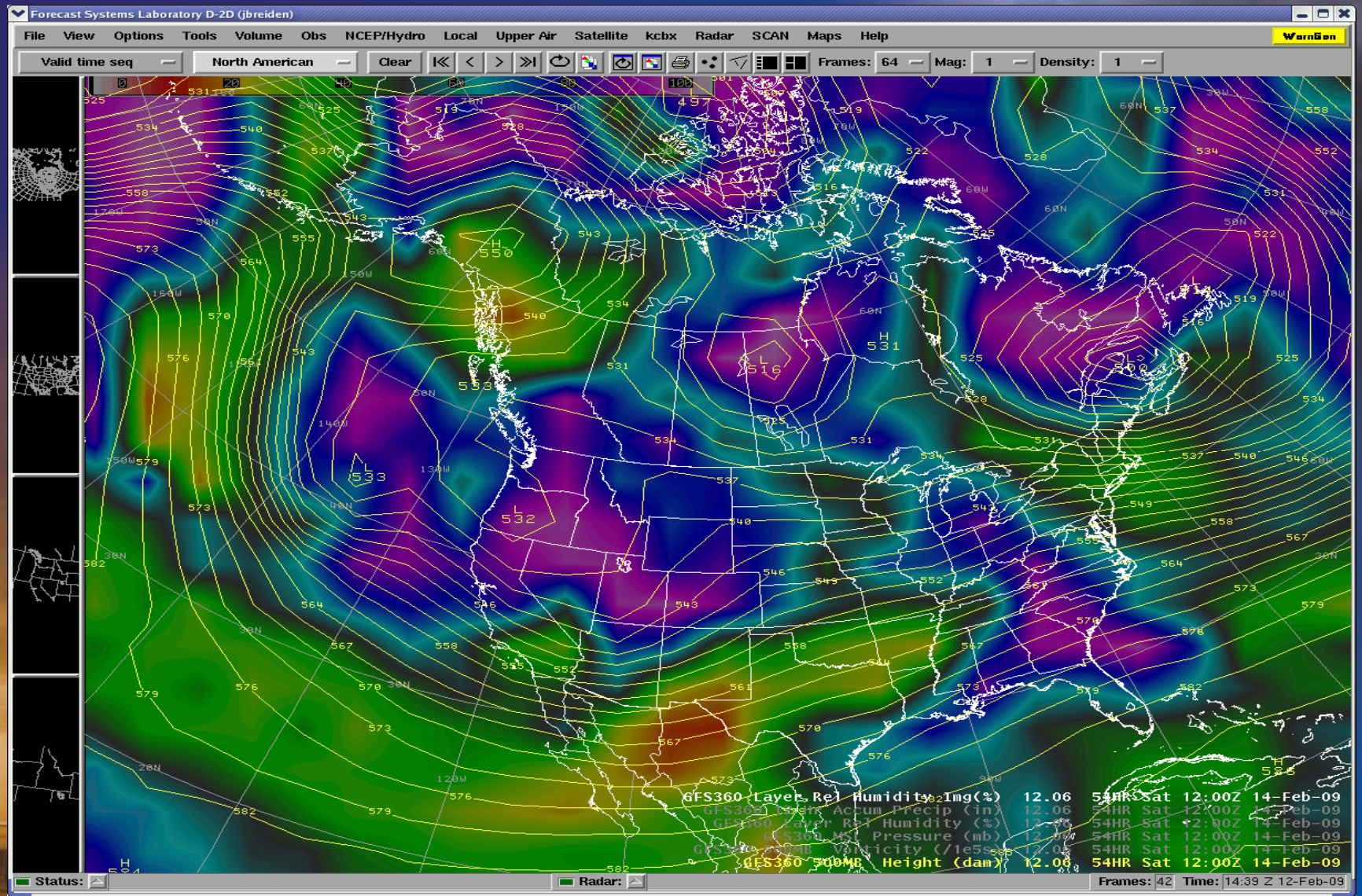
Thursday Feb 12th



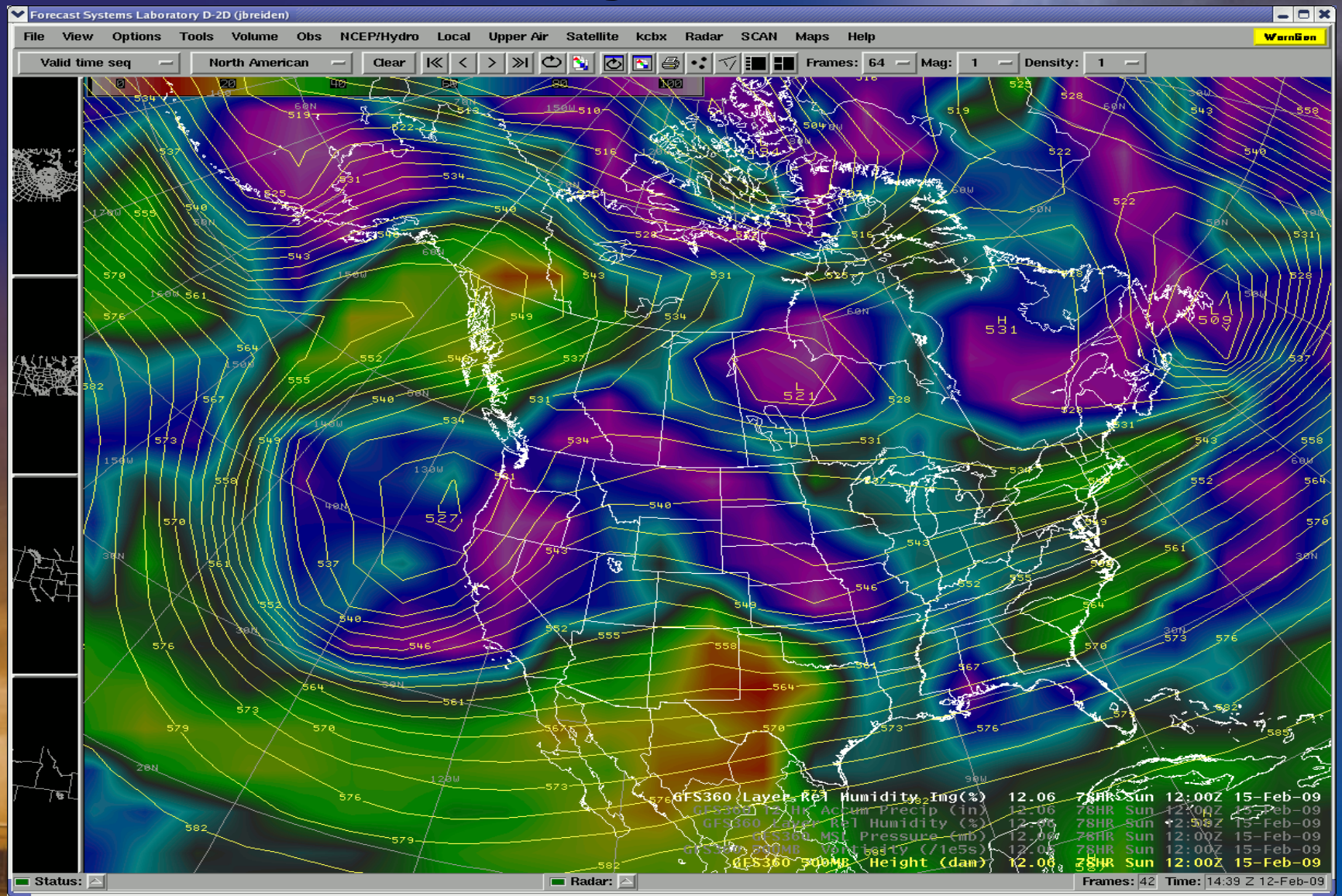
Friday Feb 13th



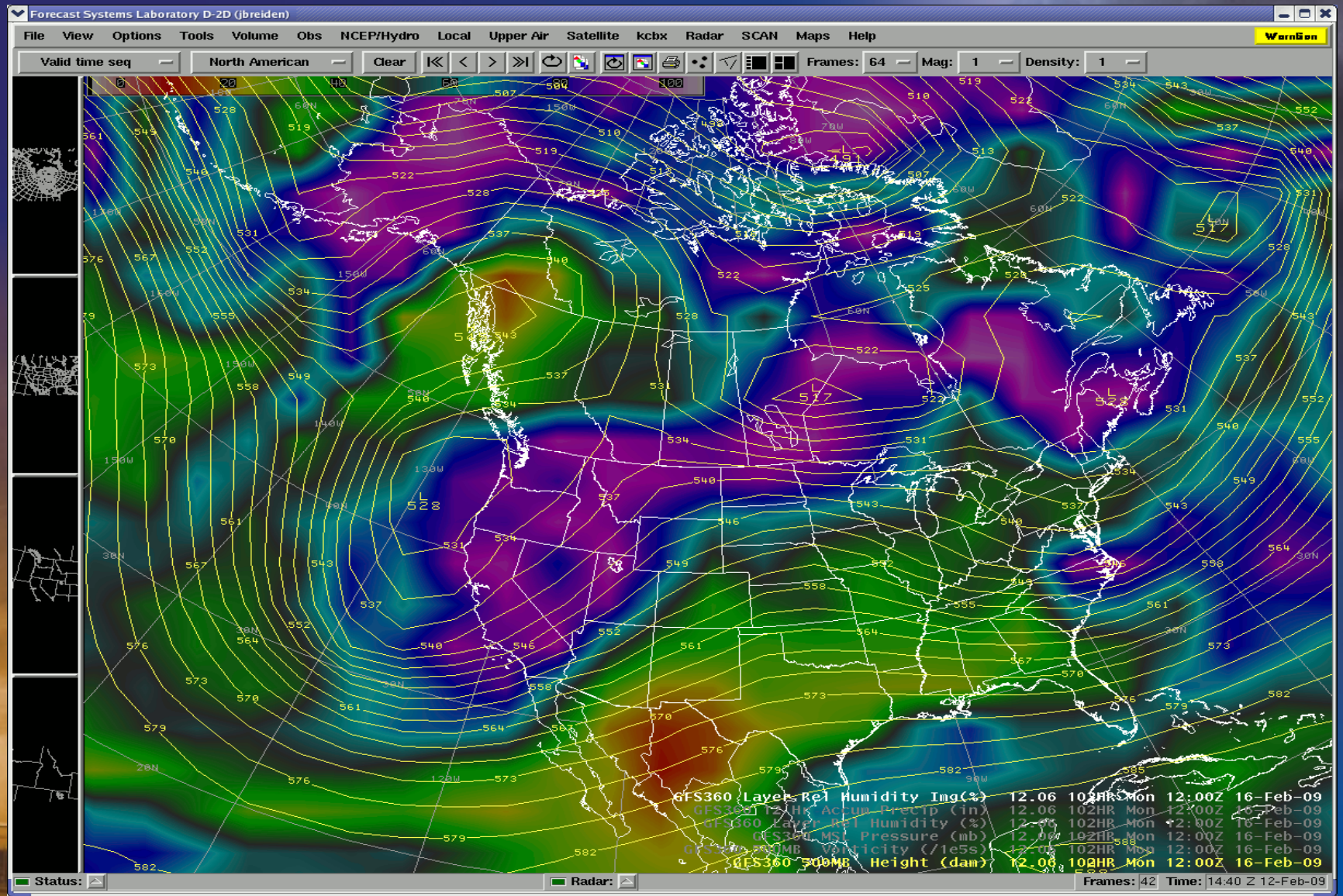
Saturday Feb 14th



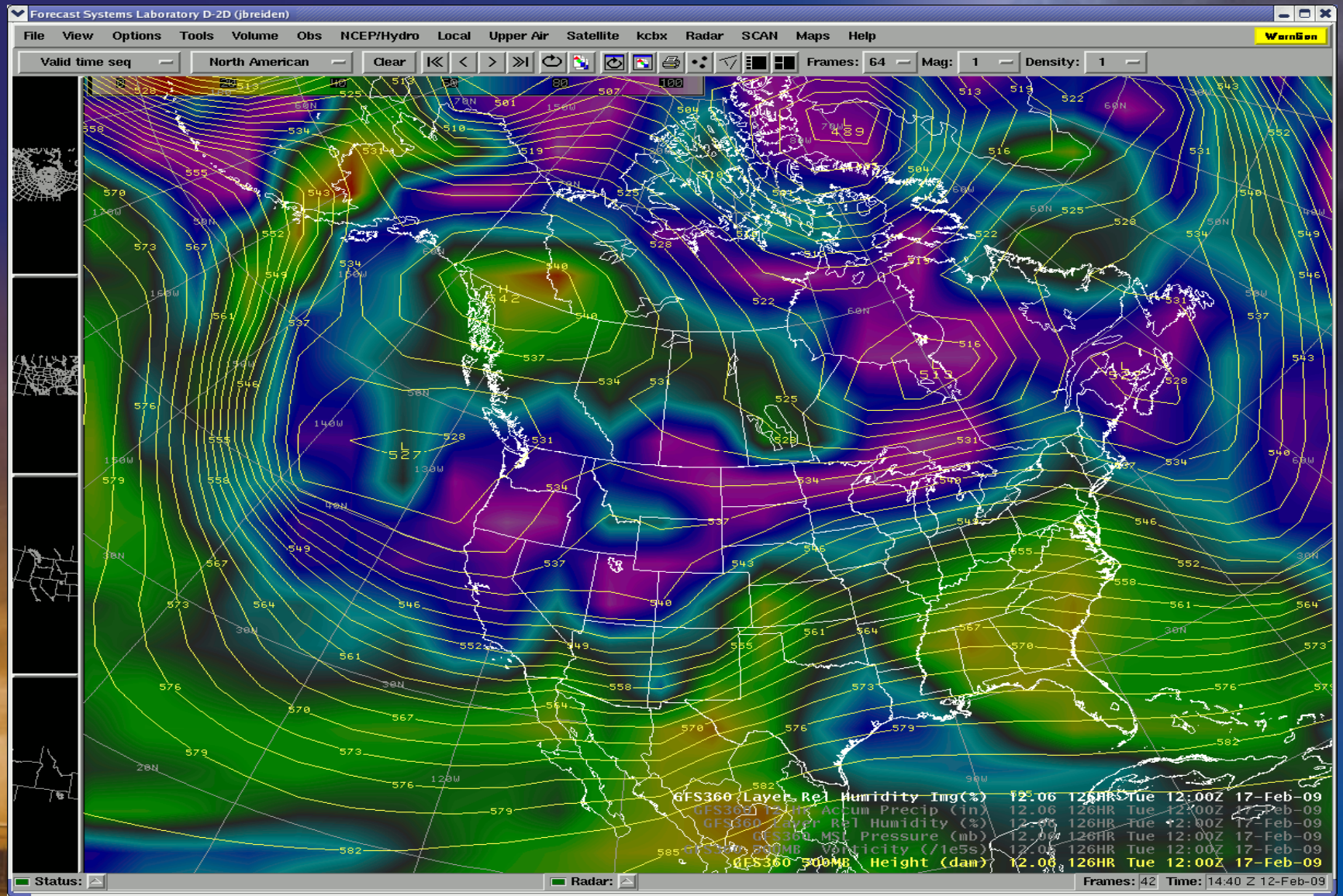
Sunday Feb 15th



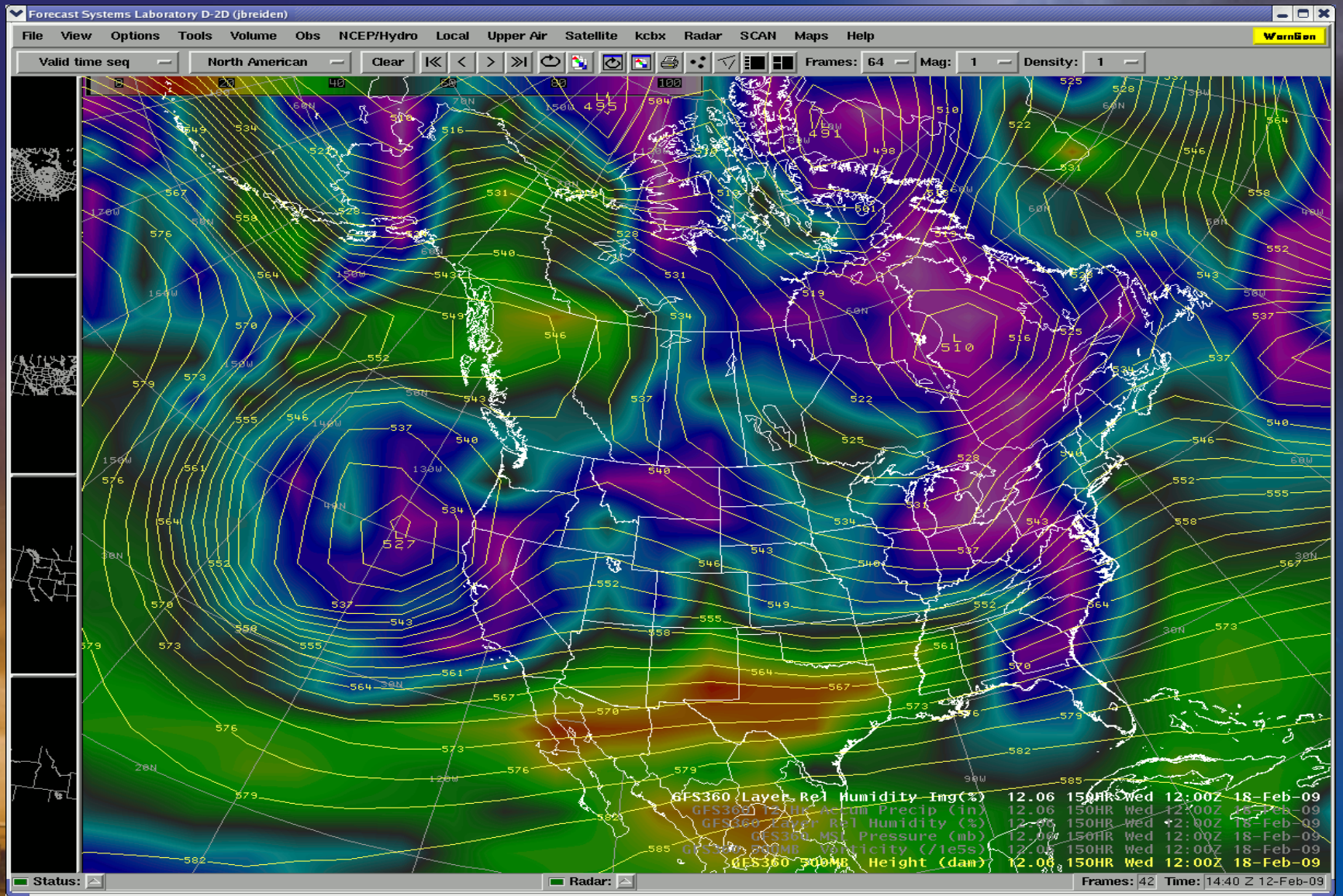
Monday Feb 16th



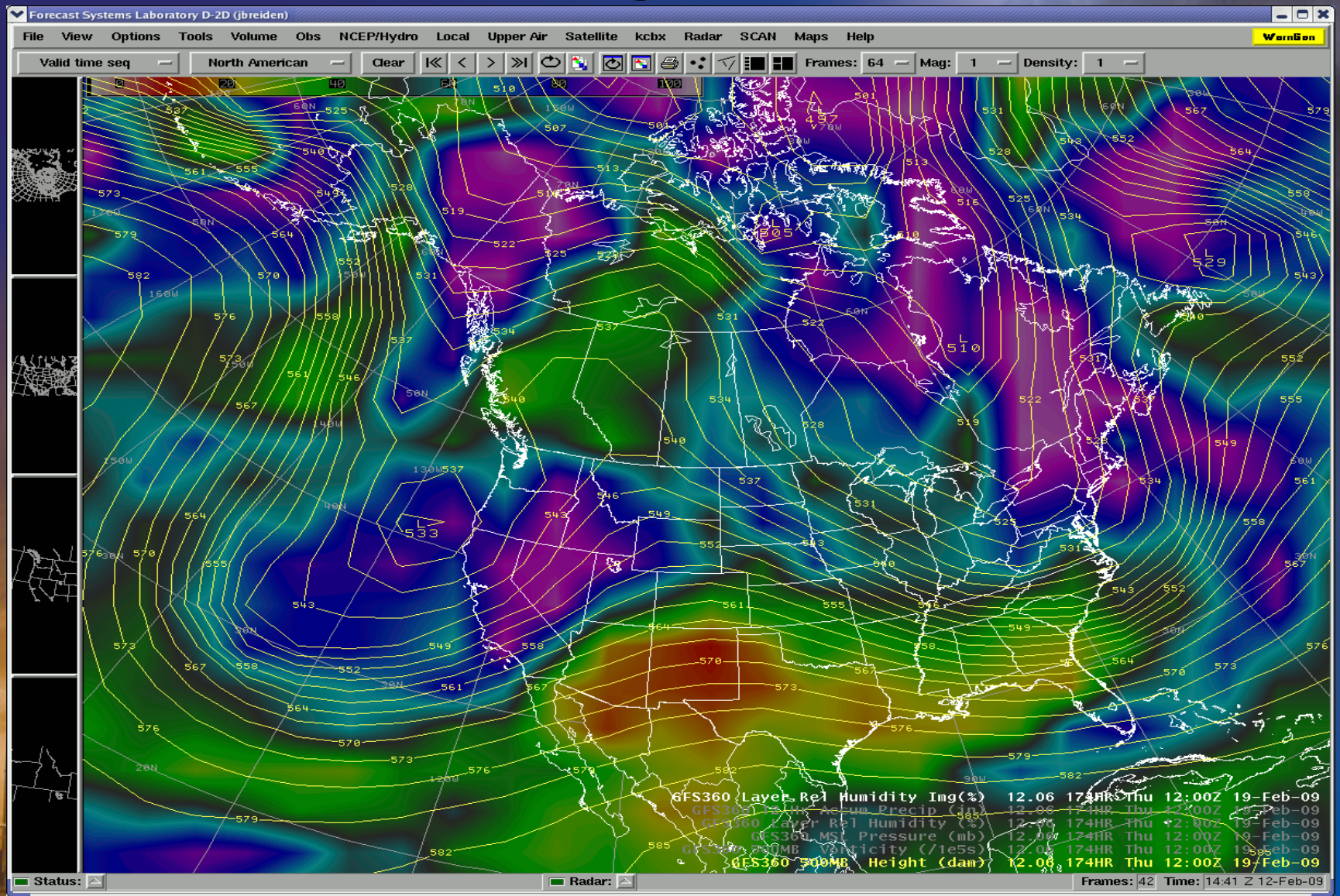
Tuesday Feb 17th



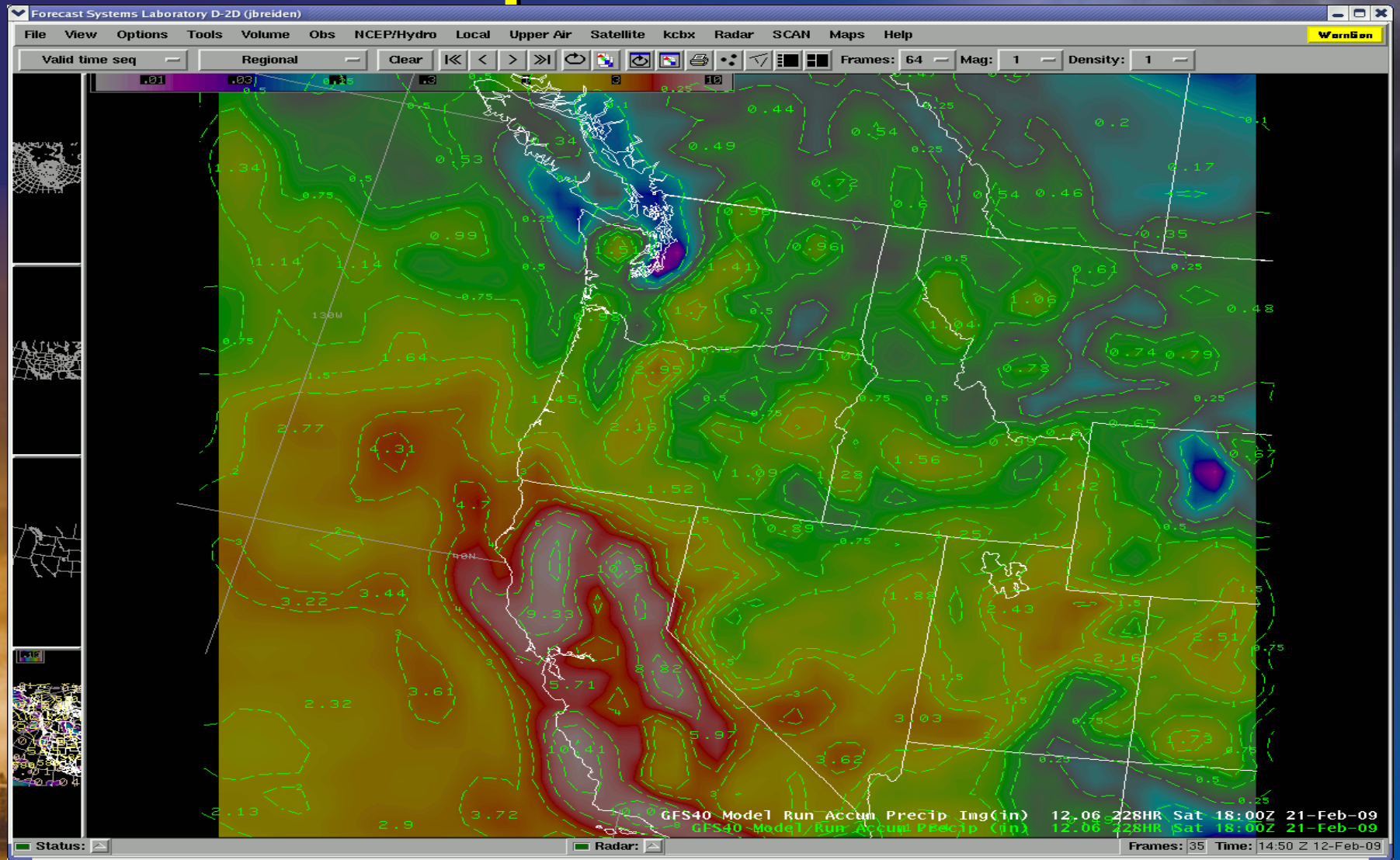
Wednesday Feb 18th



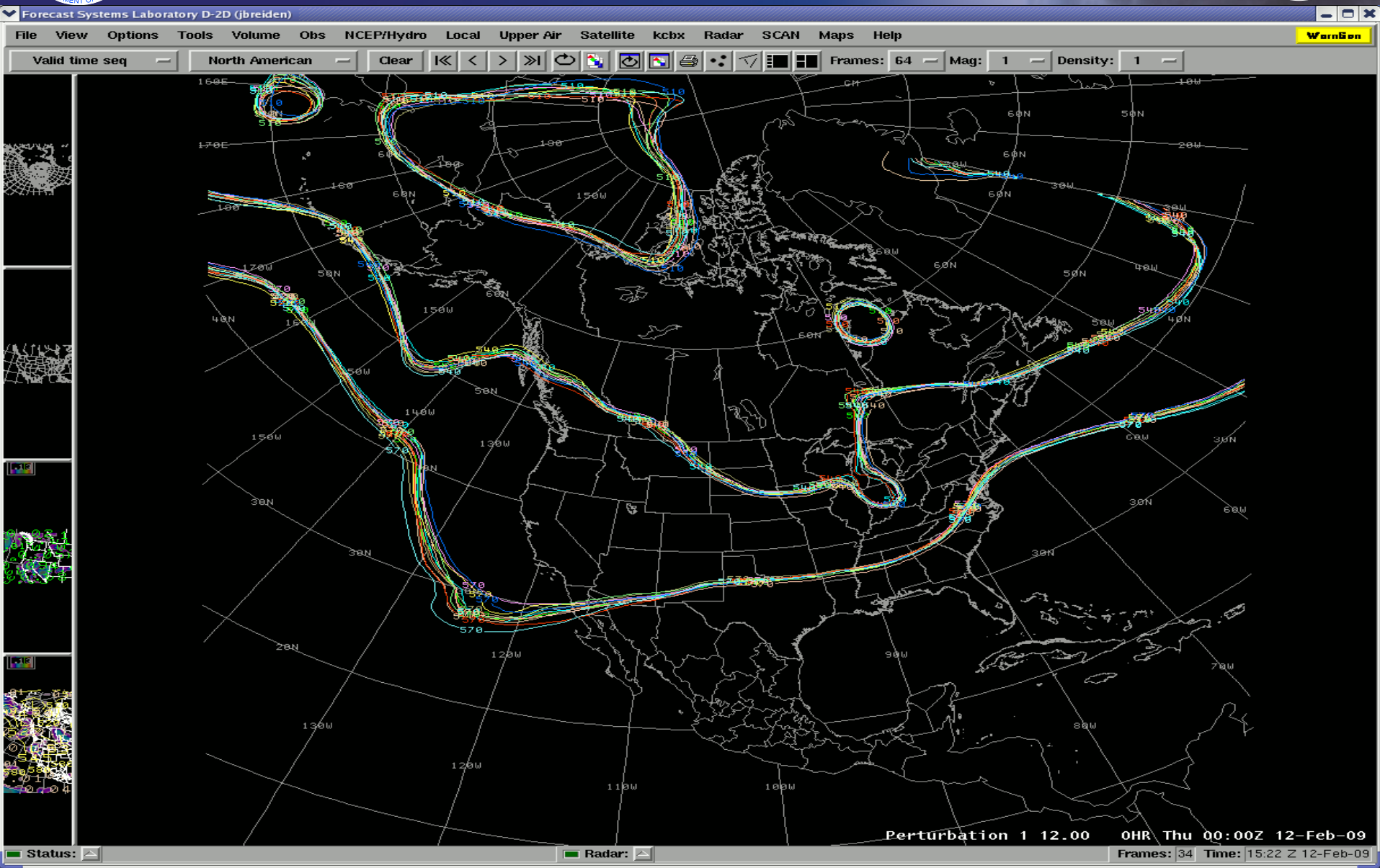
Thursday Feb 19th



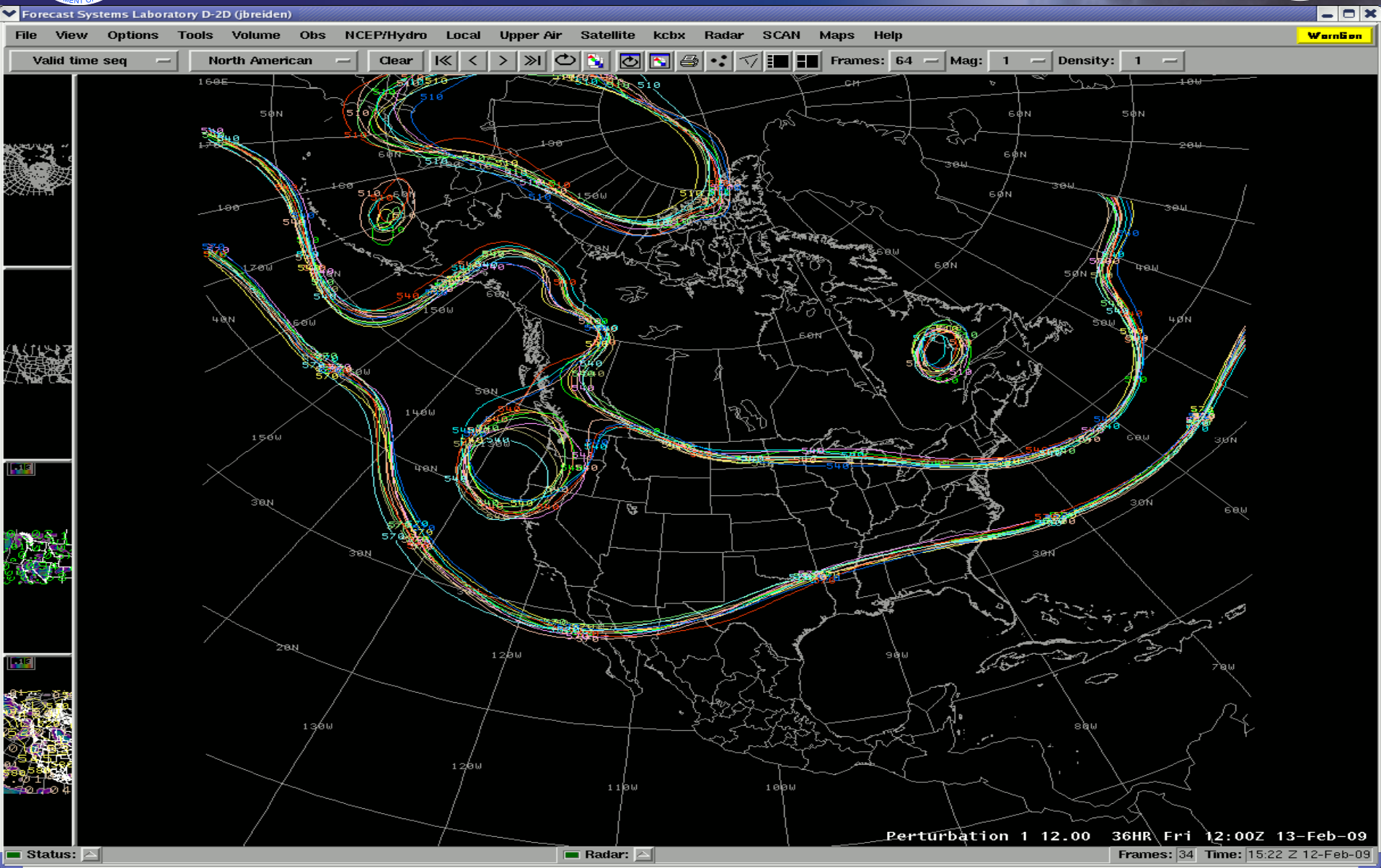
10 Day Cumulative Precipitation Forecast



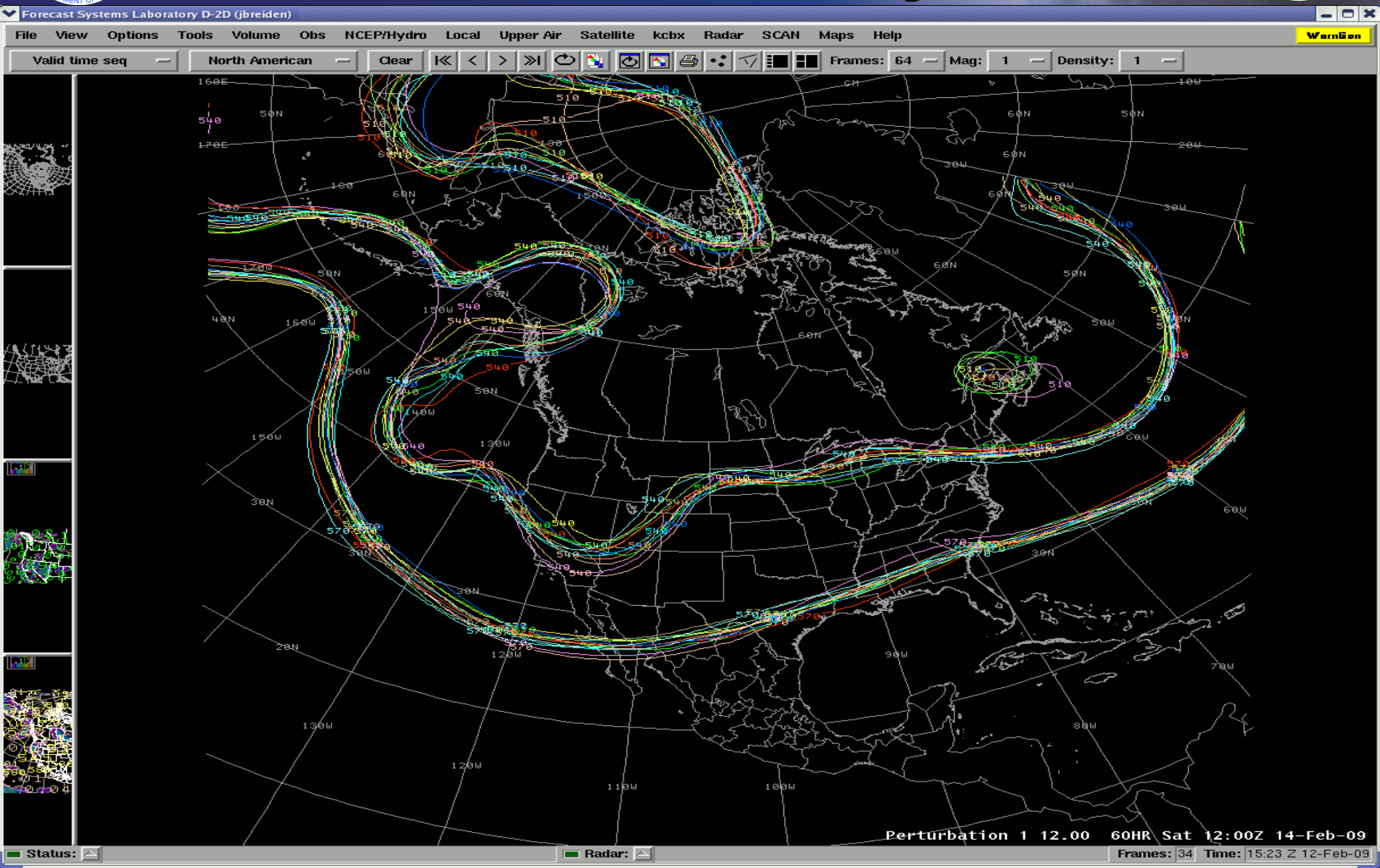
Predictability



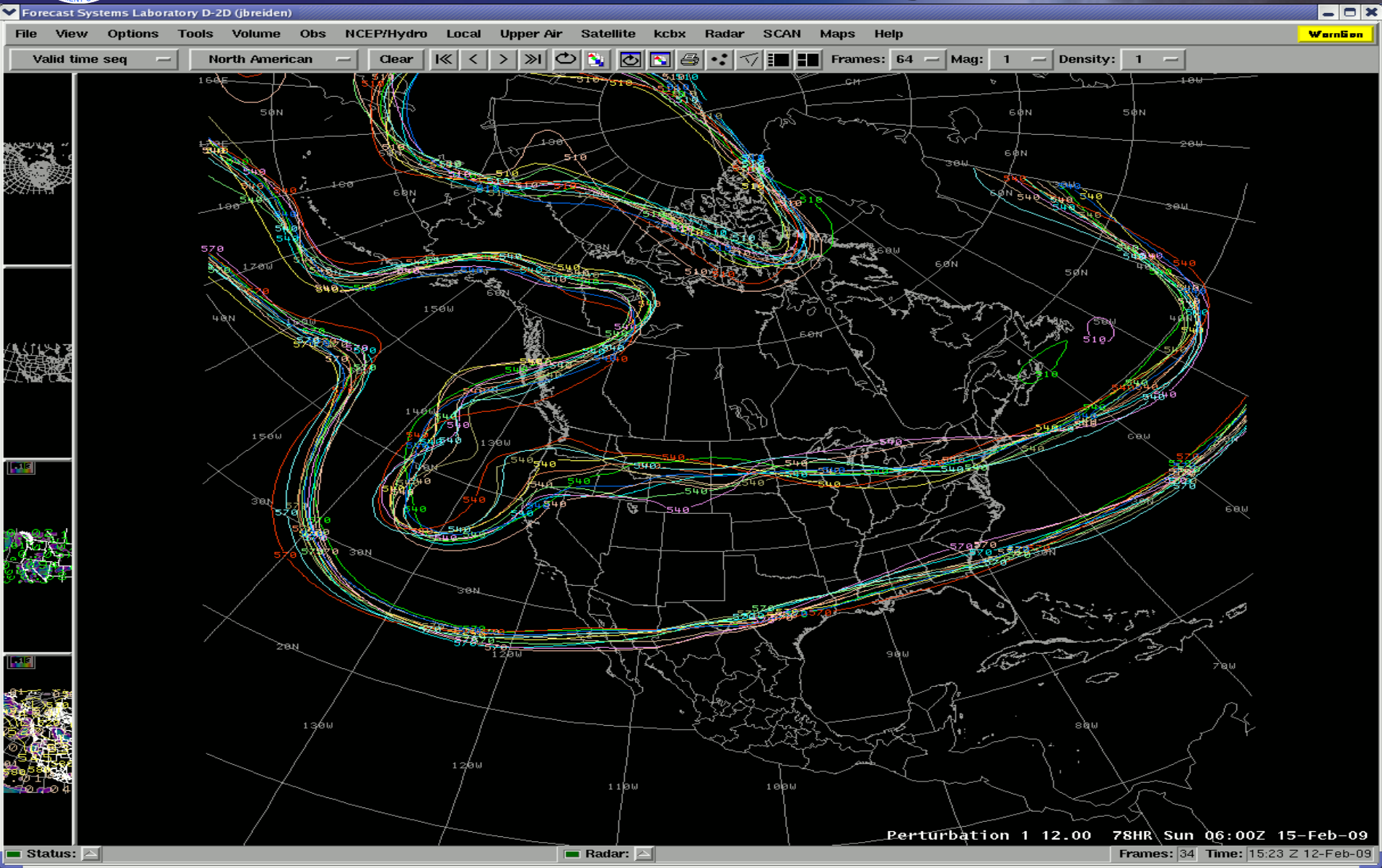
Predictability



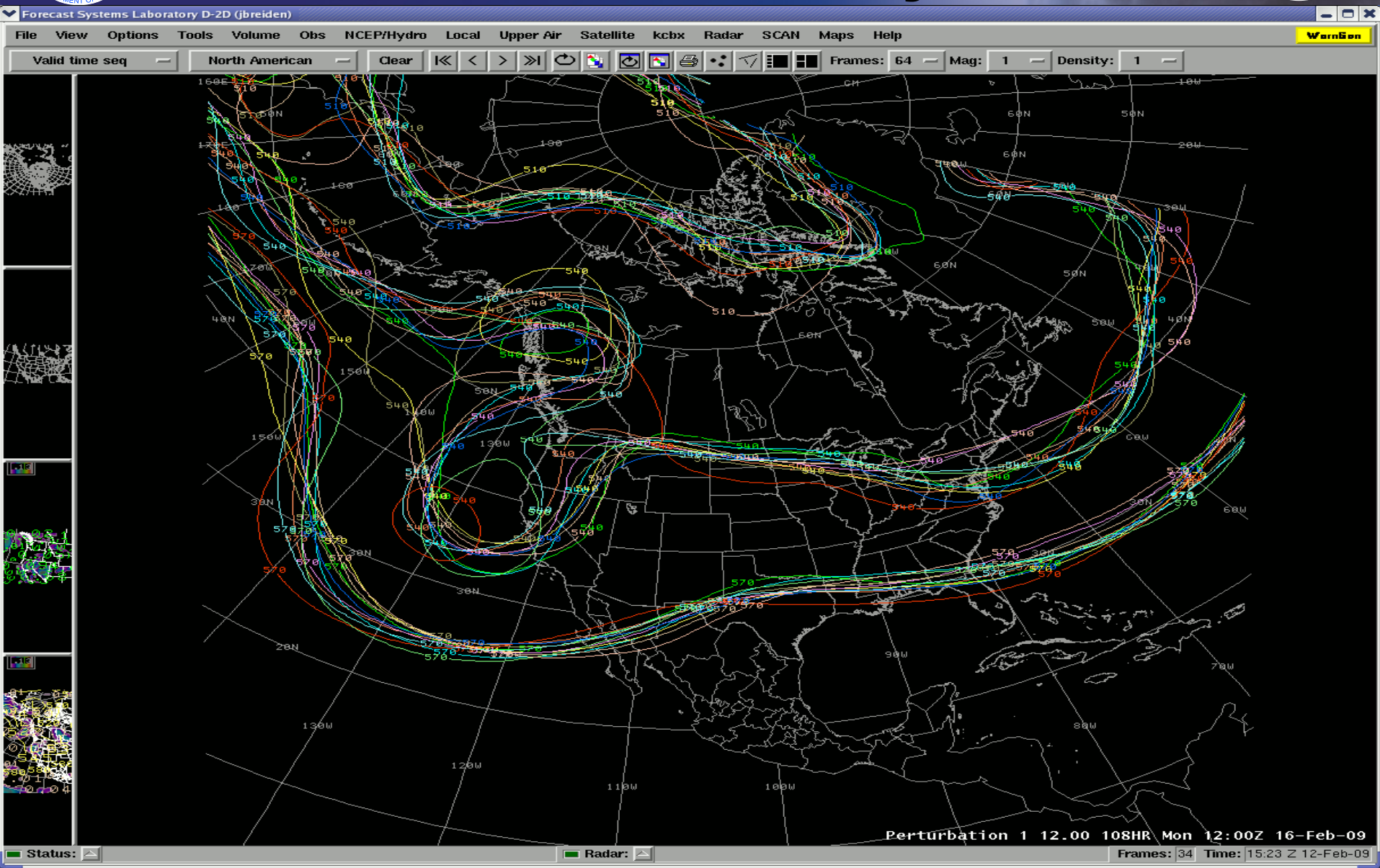
Predictability



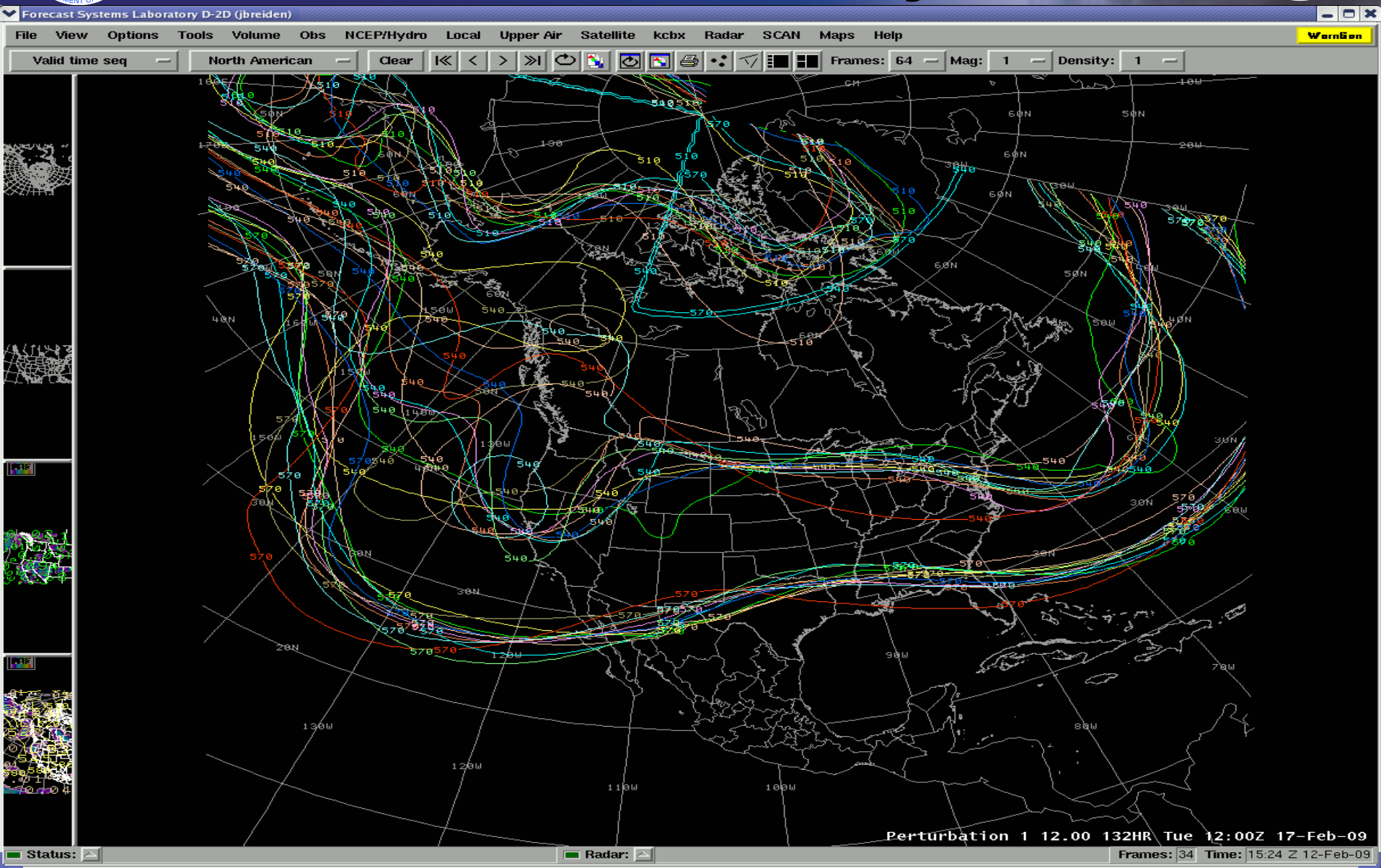
Predictability



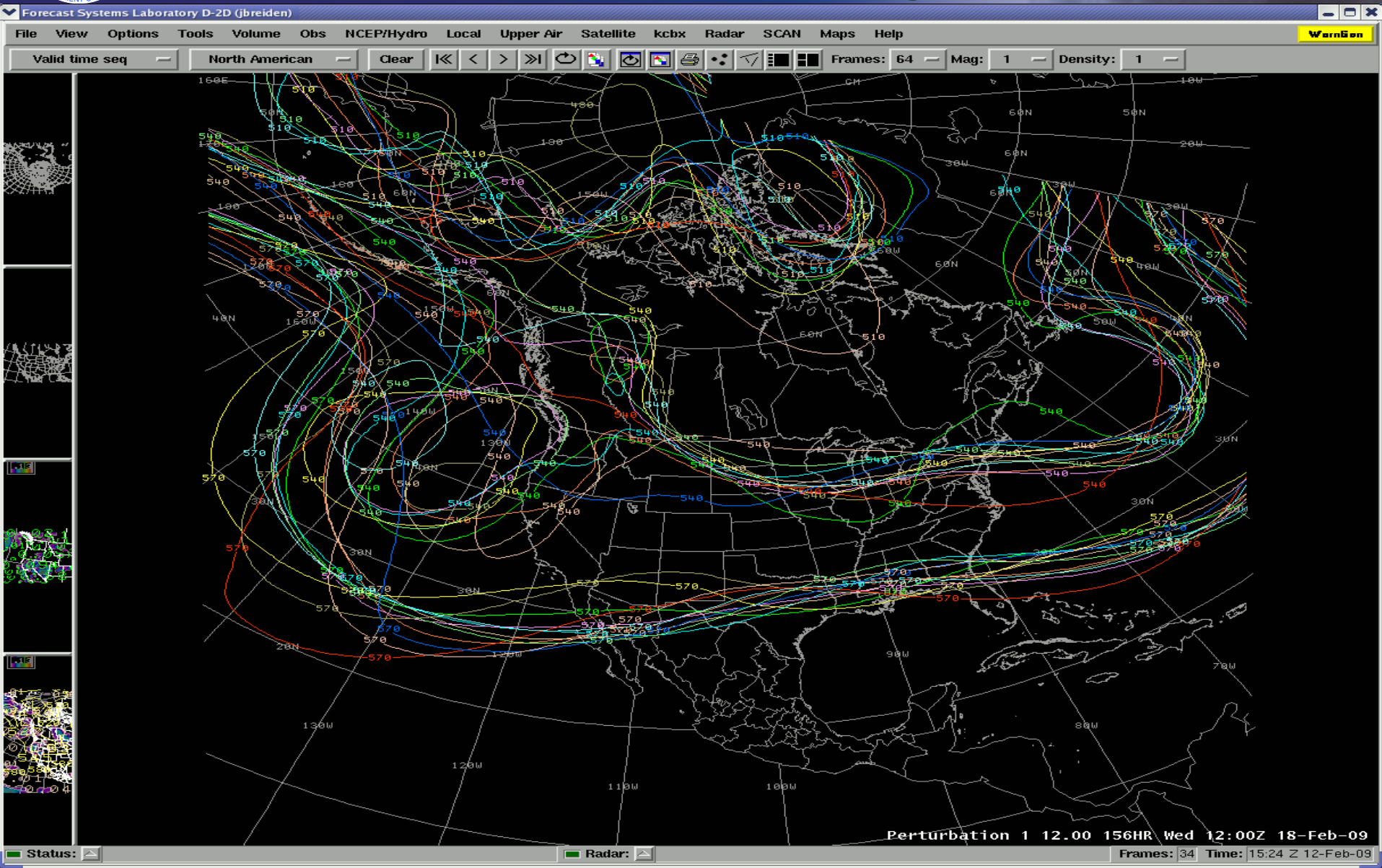
Predictability



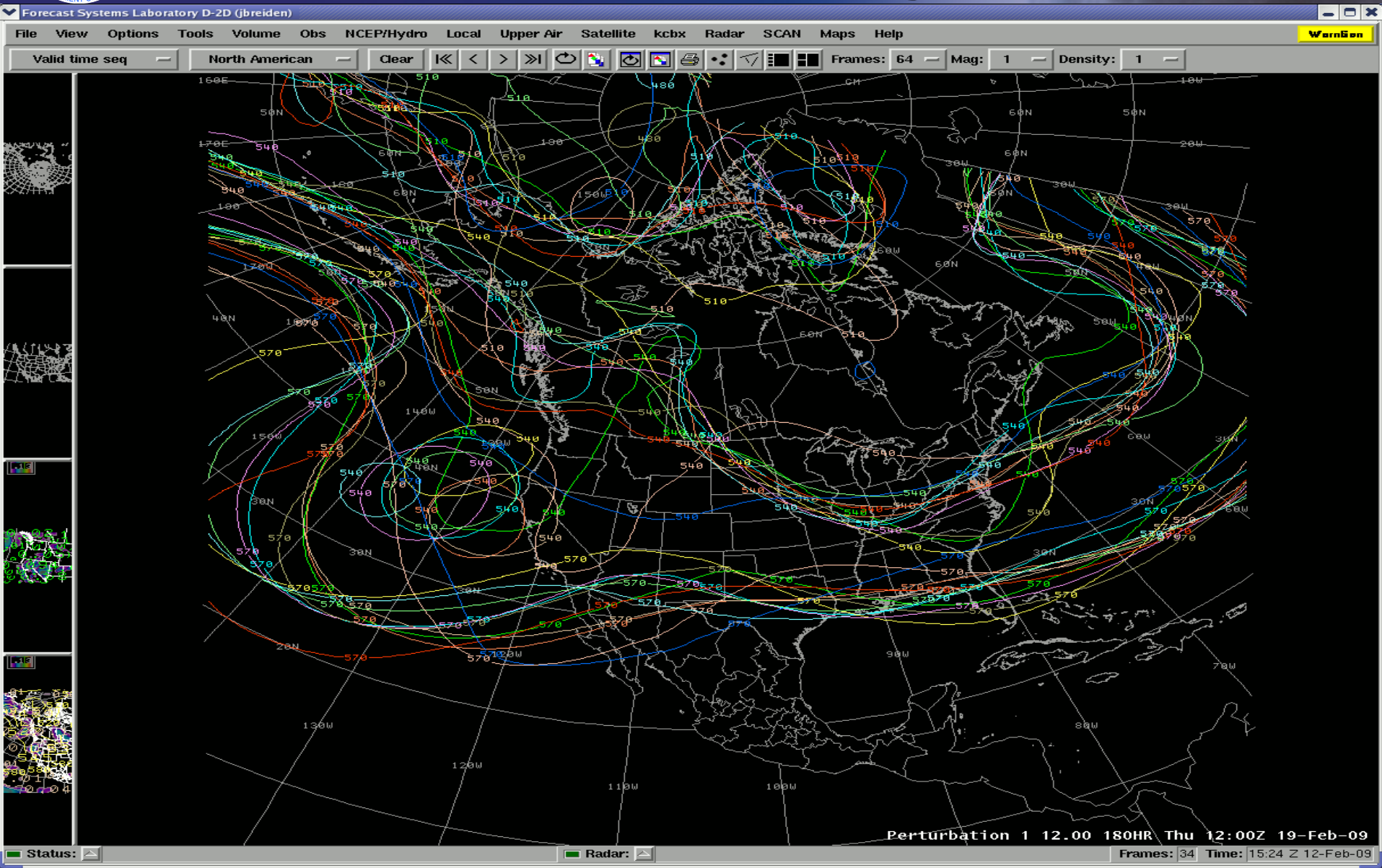
Predictability



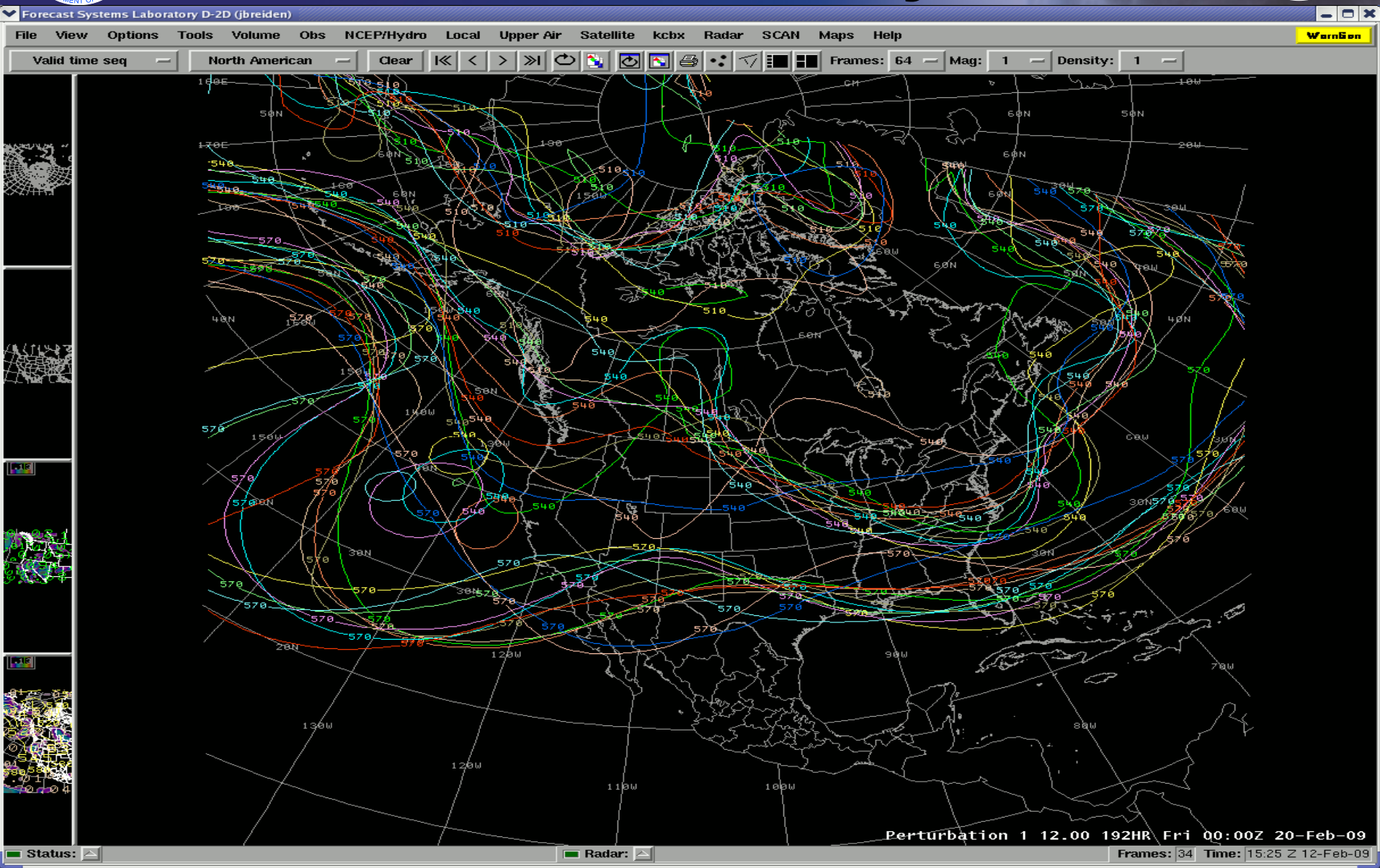
Predictability



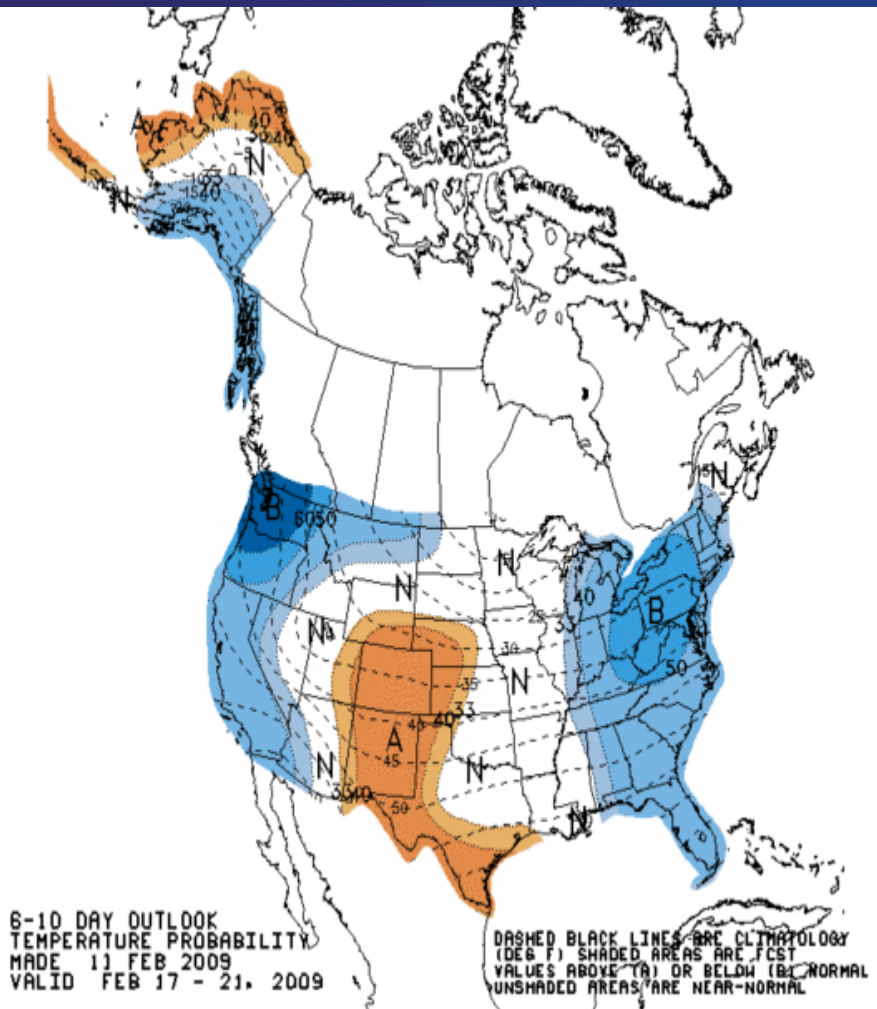
Predictability

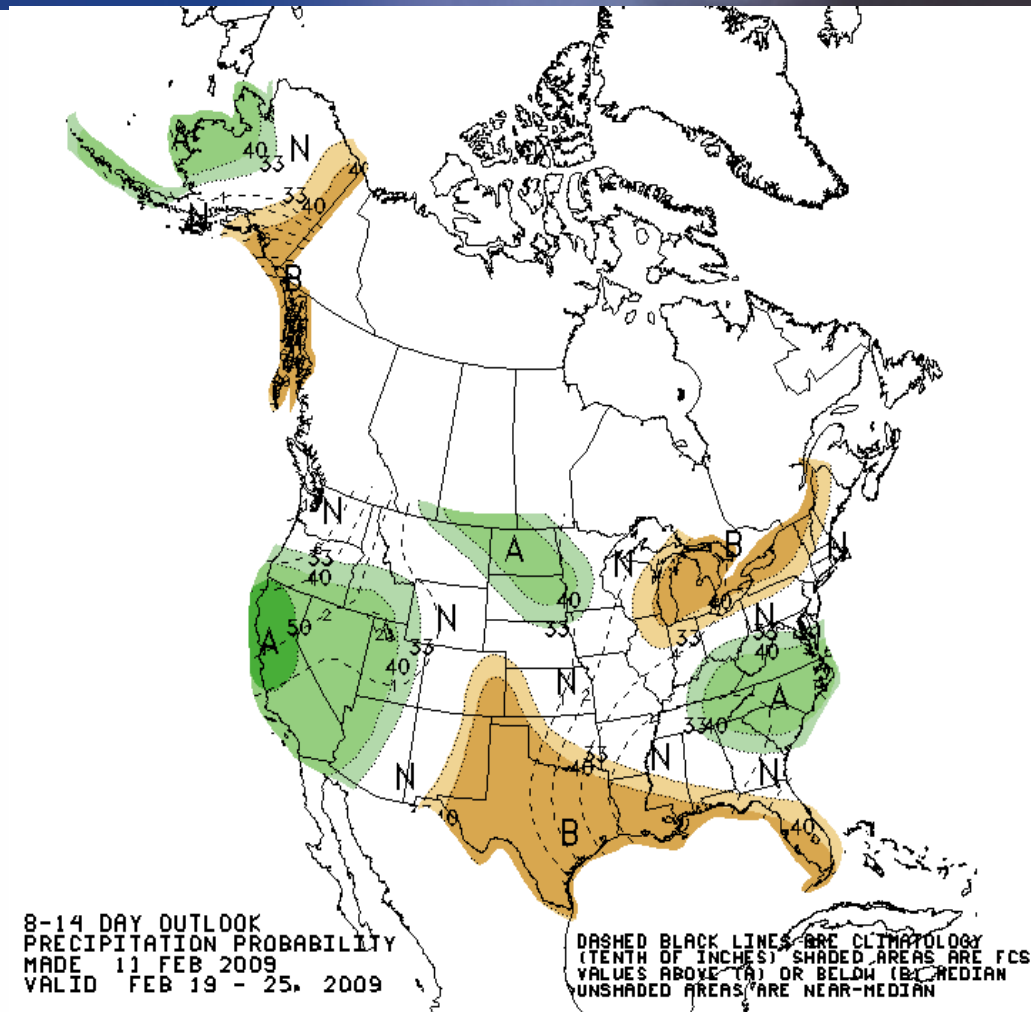


Predictability

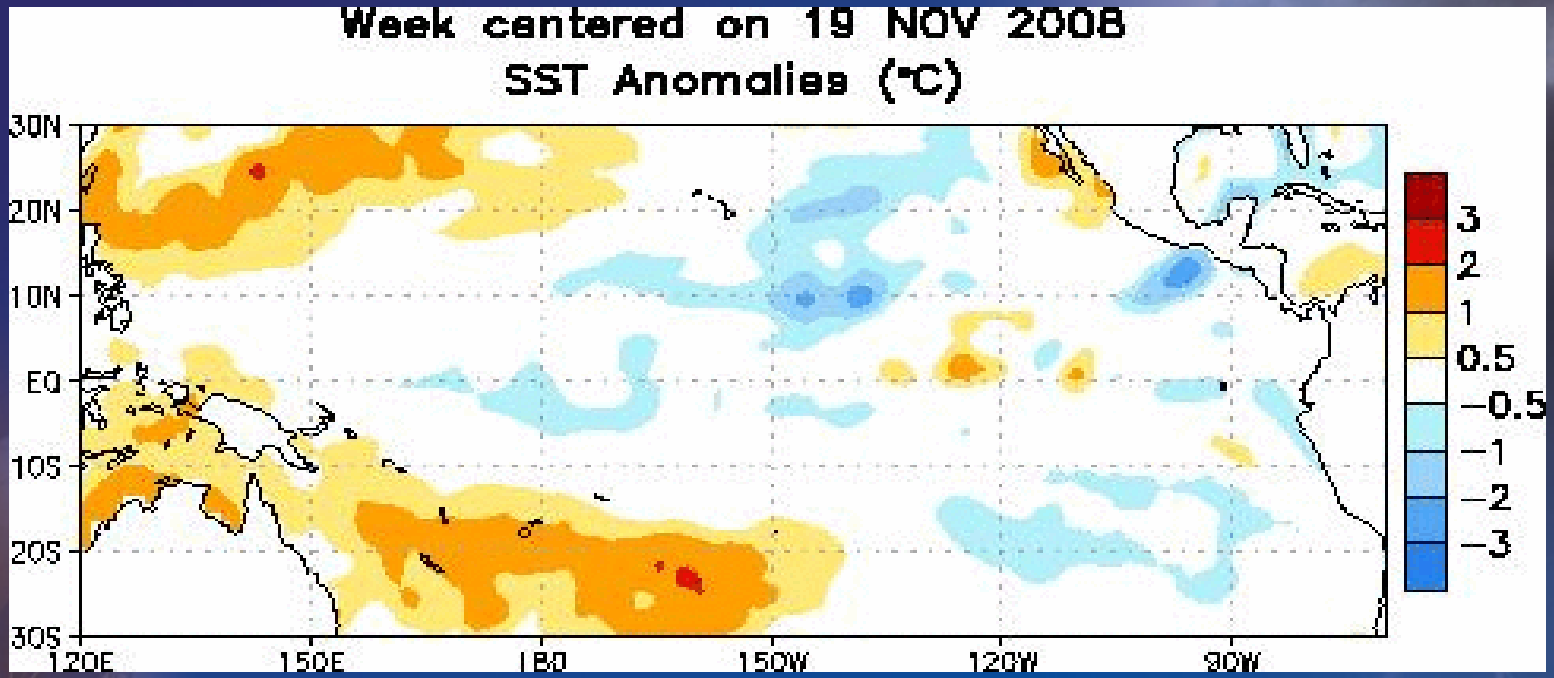


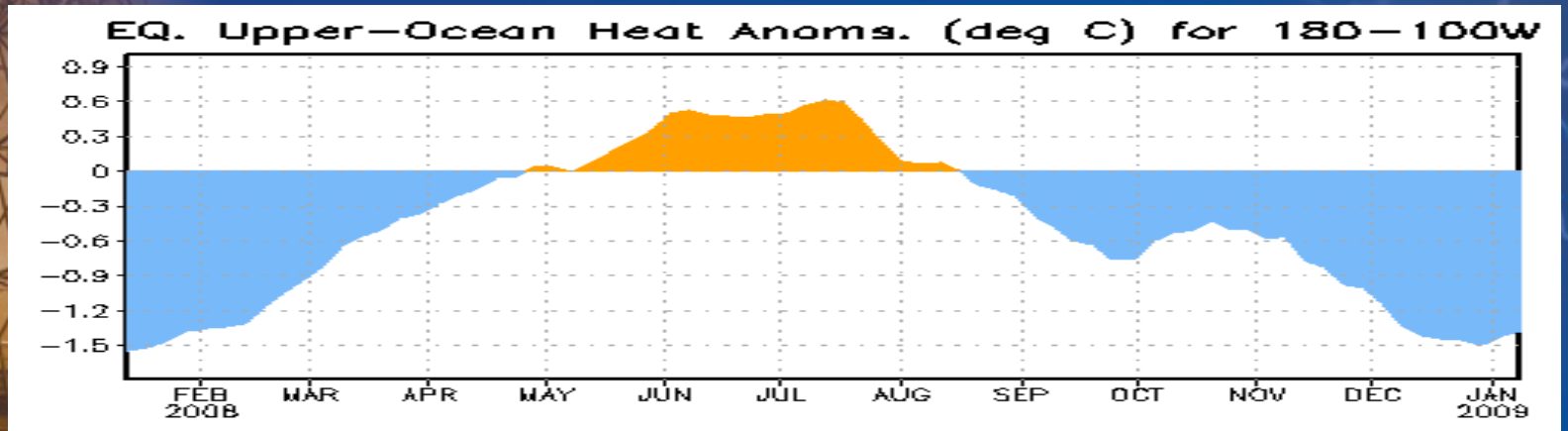
Temperature and Precipitation Outlook from 6 to 10 days



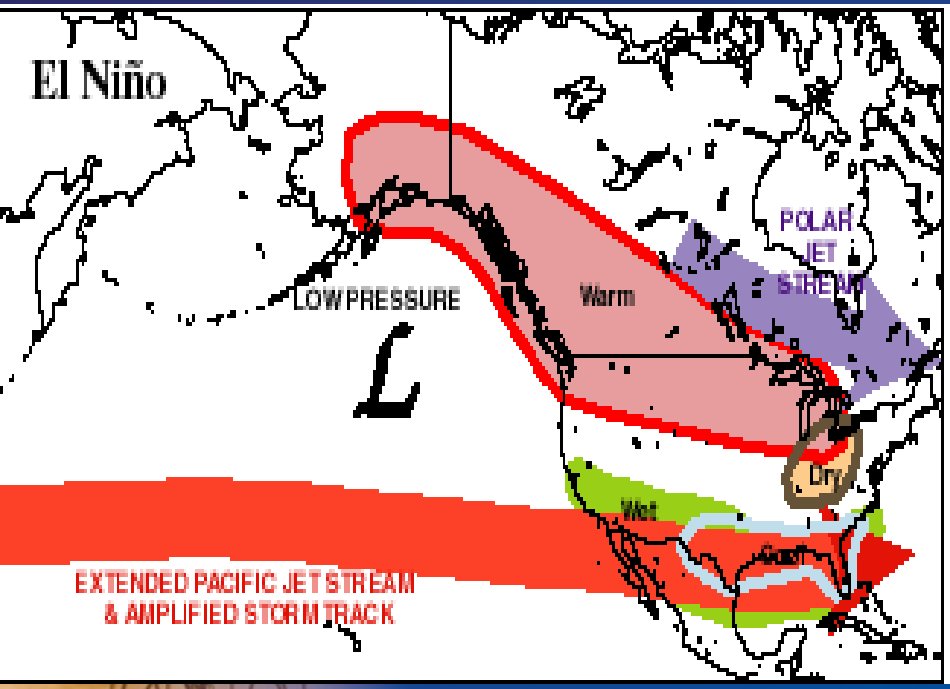


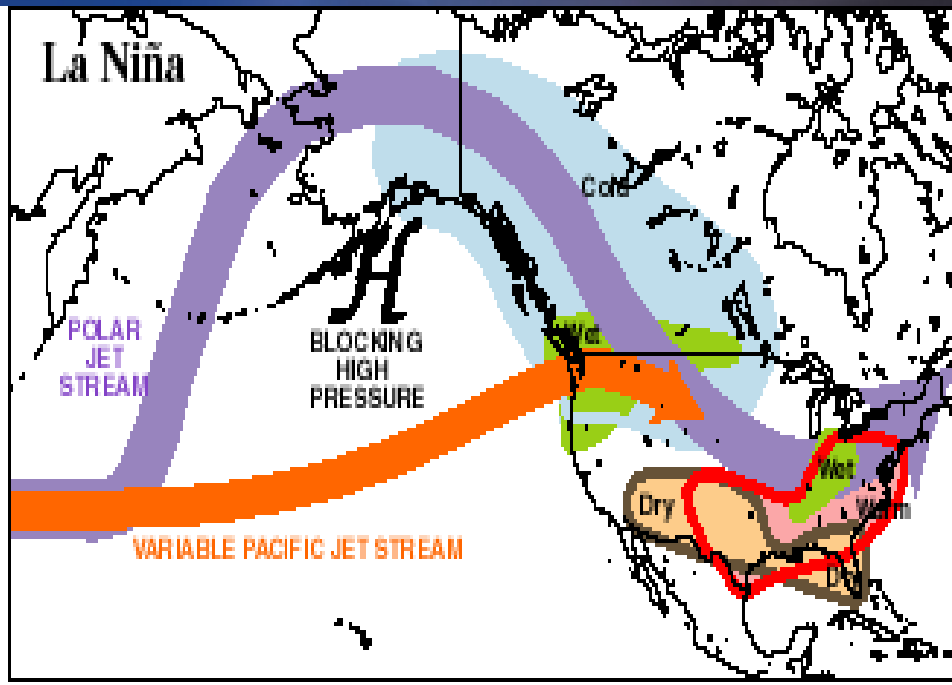
Equatorial Sea Surface Temperature Anomalies





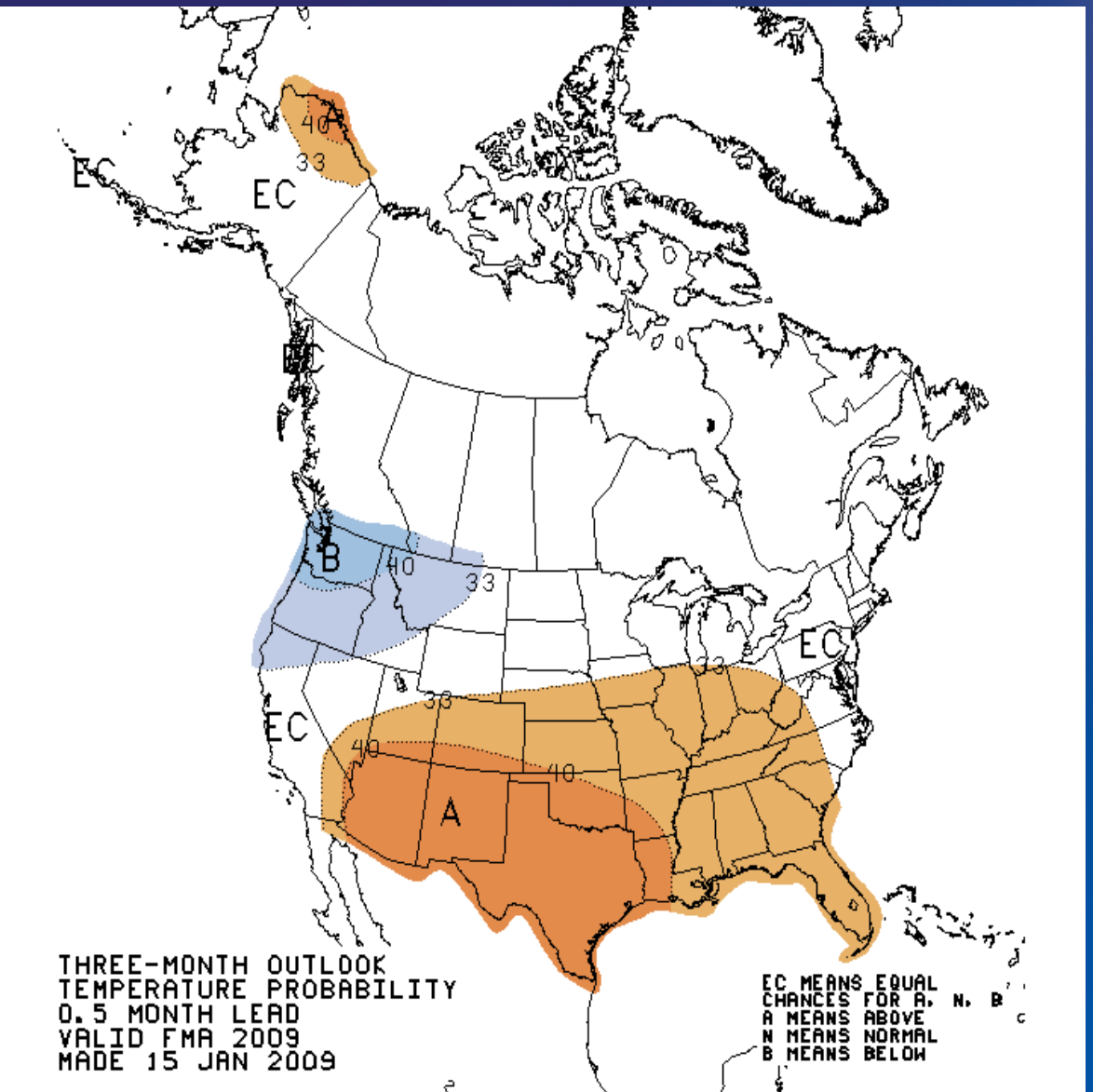
Typical North American Impacts of La Nina

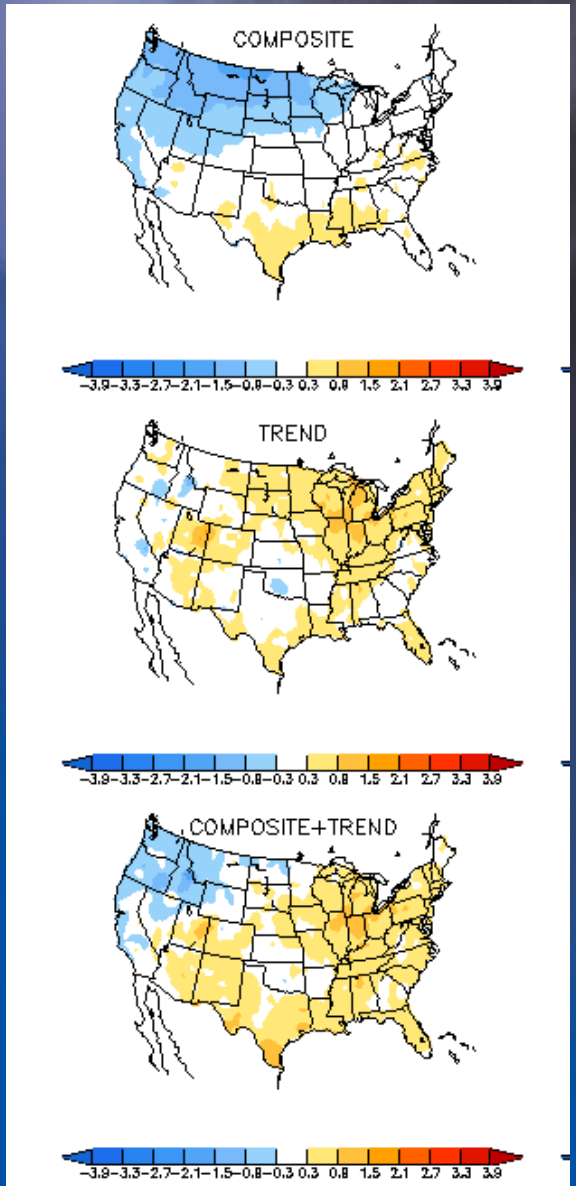




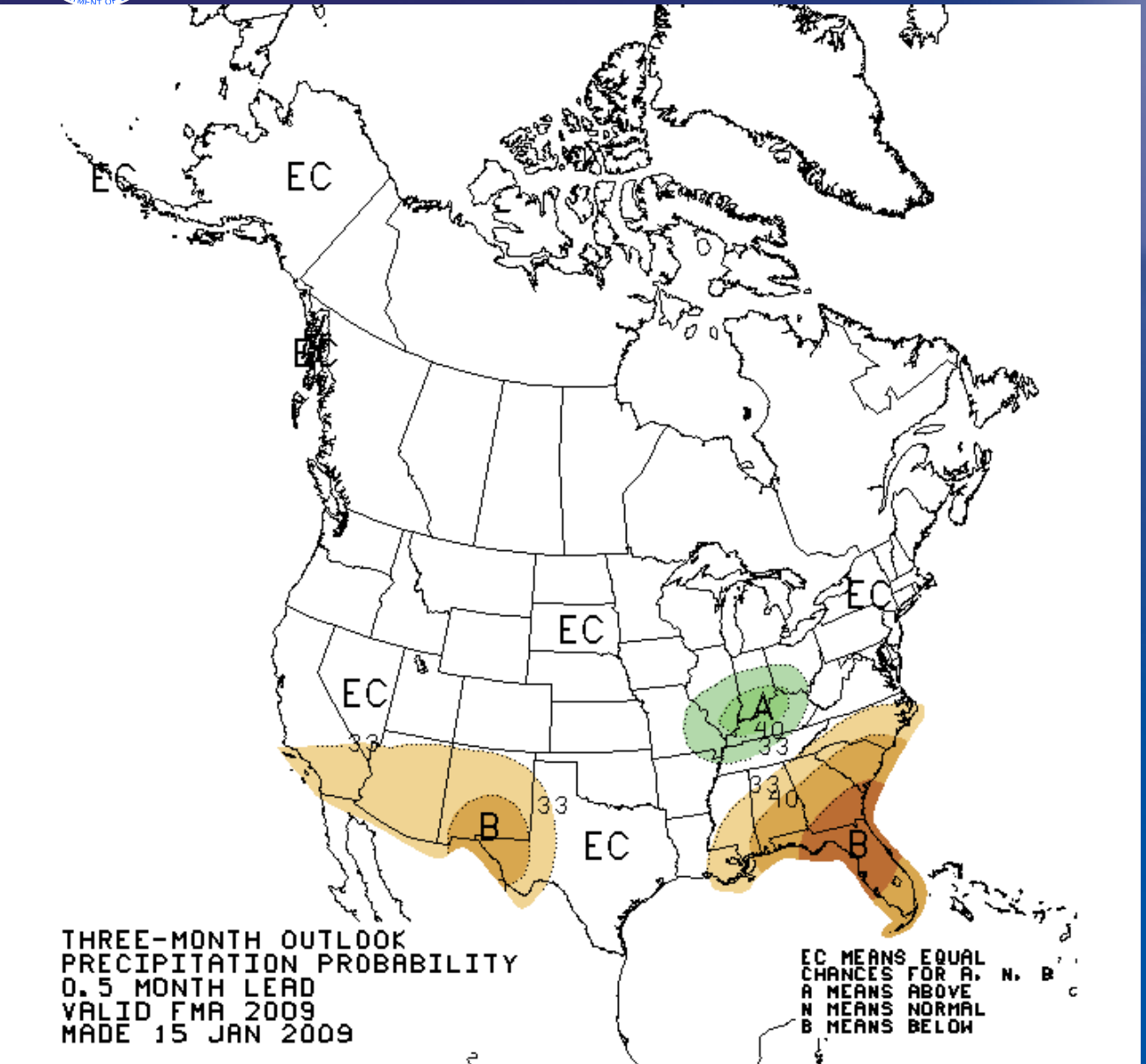
Most Recent Seasonal Forecast

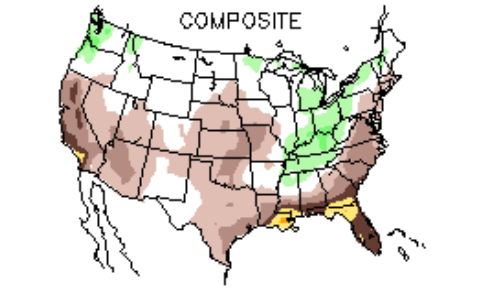
Feb through Apr 2009

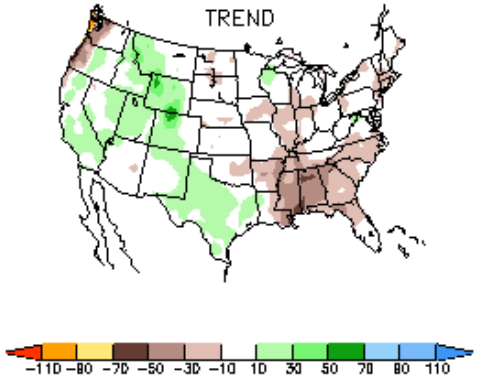


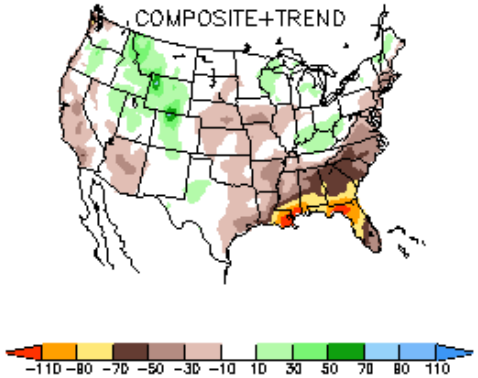


Most Recent Seasonal Forecast
Feb through Apr 2009









Drought Situation

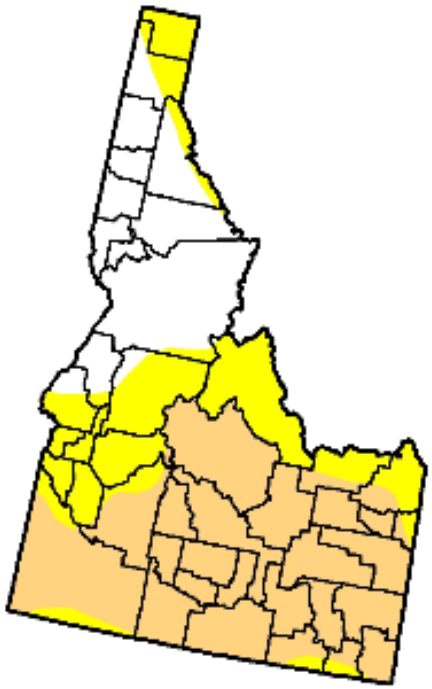
U.S. Drought Monitor

Idaho

February 10, 2009
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	24.1	75.9	49.4	0.0	0.0	0.0
Last Week (02/03/2009 map)	24.5	75.5	49.5	0.0	0.0	0.0
3 Months Ago (11/18/2008 map)	27.3	72.7	59.5	0.0	0.0	0.0
Start of Calendar Year (01/06/2009 map)	22.4	77.6	53.5	0.0	0.0	0.0
Start of Water Year (10/07/2008 map)	23.2	76.8	34.5	0.0	0.0	0.0
One Year Ago (02/12/2008 map)	30.5	69.5	52.4	39.5	0.0	0.0



Intensity:

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

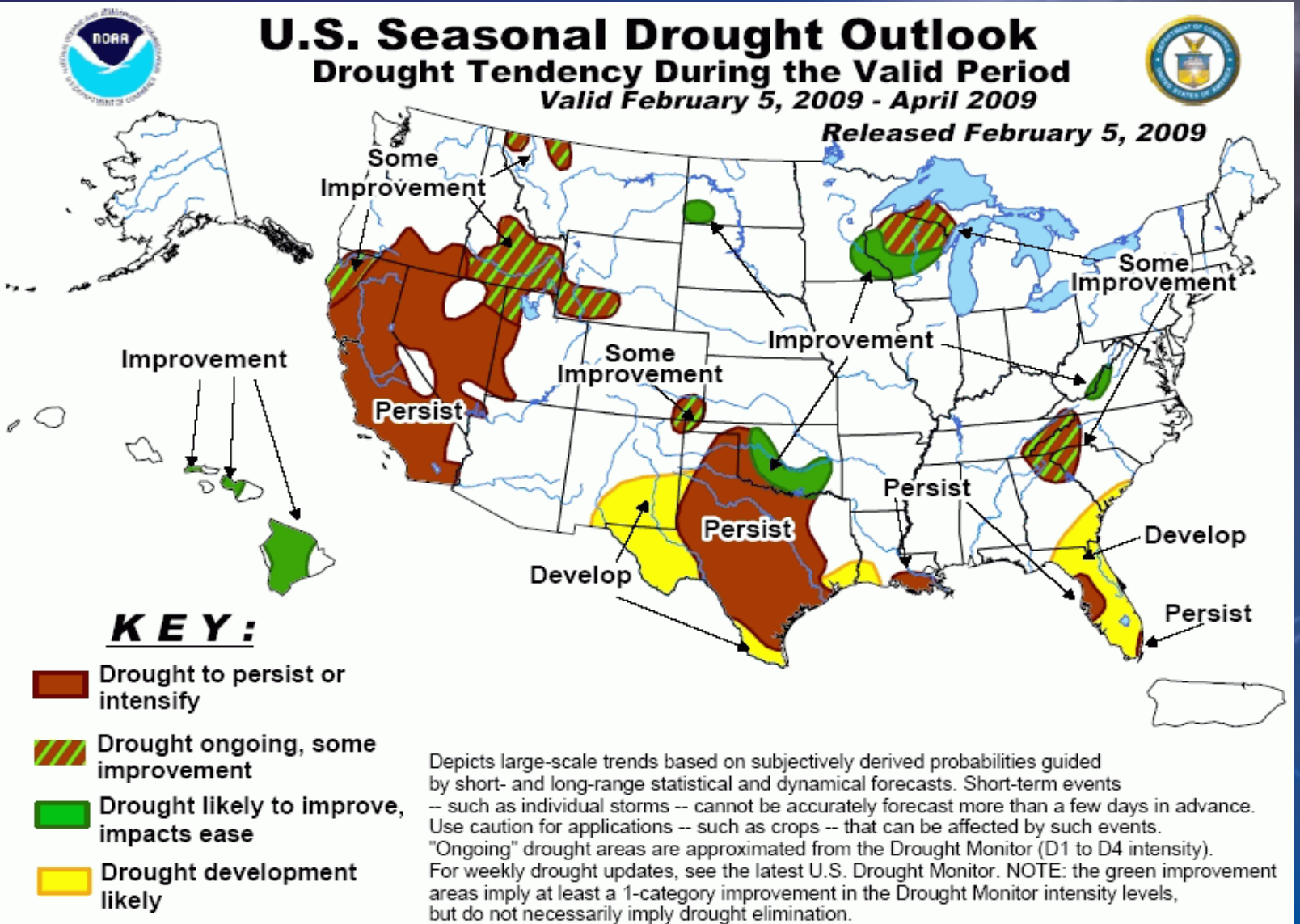
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements

http://drought.unl.edu/dm

Released Thursday, February 12, 2009

Author: Rich Tinker, CPC/NOAA

Drought Outlook



Current Information on Web

www.weather.gov/boise

www.nwrfc.noaa.gov/westernwater

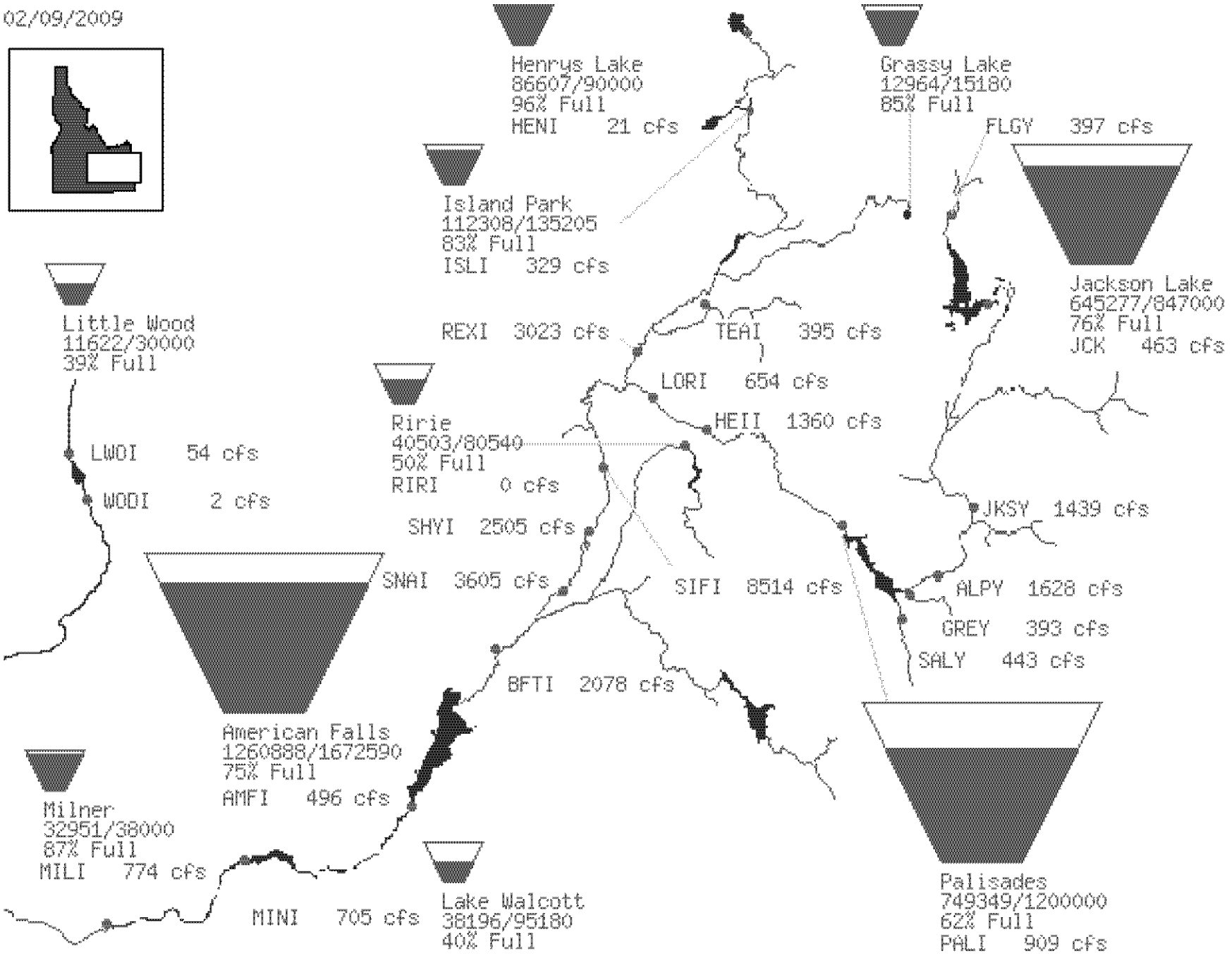
RECLAMATION

Managing Water in the West

Upper Snake River Water Supply Outlook February 12, 2009

U.S. Department of the Interior
Bureau of Reclamation

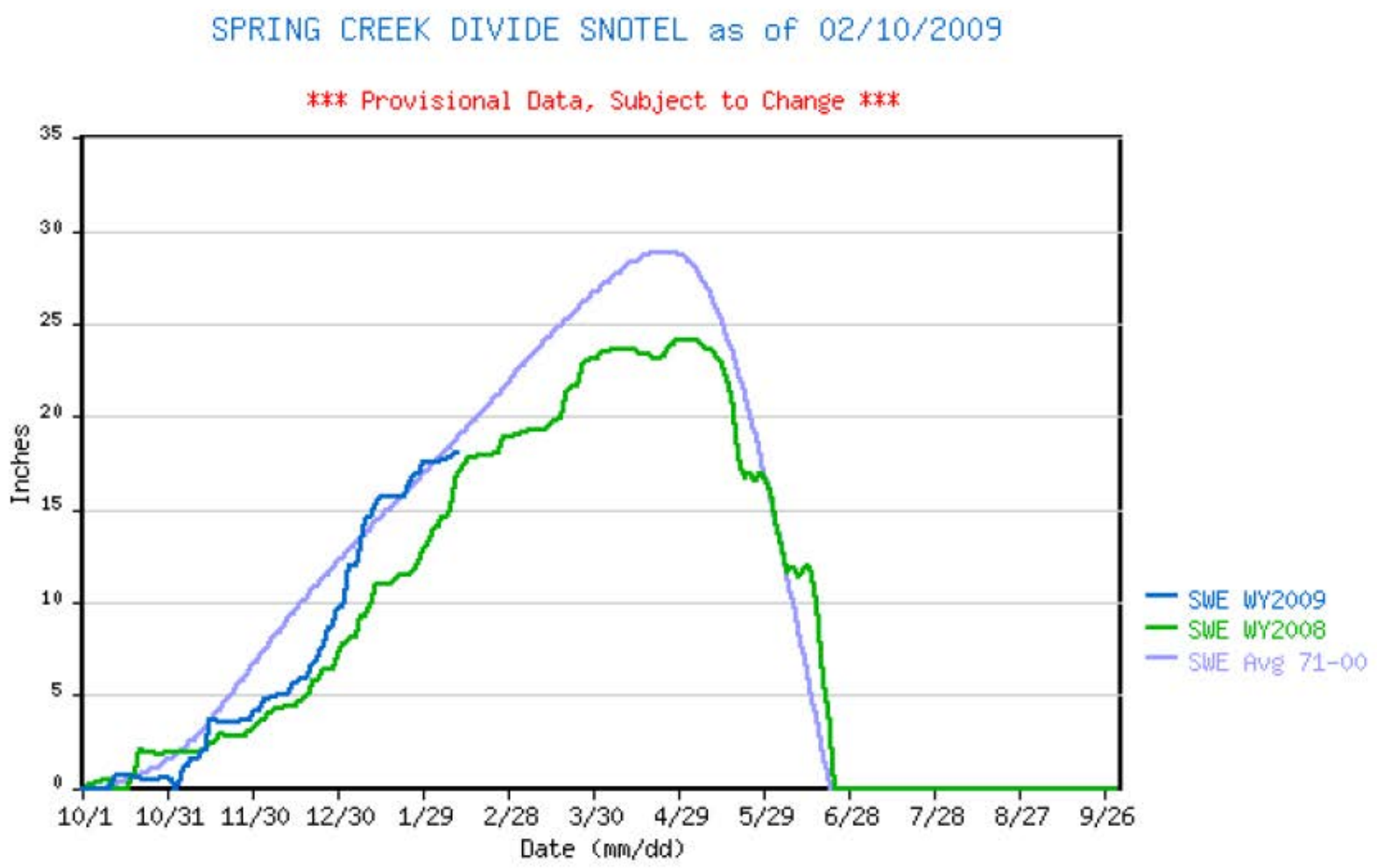
02/09/2009


Henrys Lake
86607/90000
96% Full
HENI 21 cfs
Grassy Lake
12964/15180
85% Full
FLGY 397 cfs
Island Park
112308/135205
83% Full
ISLI 329 cfs
Jackson Lake
645277/847000
76% Full
JCK 463 cfs
Little Wood
11622/30000
39% Full
REXI 3023 cfs
TEAI 395 cfs
LORI 654 cfs
Ririe
40503/80540
50% Full
RIRI 0 cfs
HEII 1360 cfs
LWOI 54 cfs
WODI 2 cfs
JKSY 1439 cfs
SHYI 2505 cfs
SNAI 3605 cfs
SIFI 8514 cfs
ALPY 1628 cfs
GREY 393 cfs
SALY 443 cfs
BFTI 2078 cfs
American Falls
1260888/1672590
75% Full
AMFI 496 cfs
Milner
32951/38000
87% Full
MILI 774 cfs
MINI 705 cfs
Lake Walcott
38196/95180
40% Full
Palisades
749349/1200000
62% Full
PALI 909 cfs

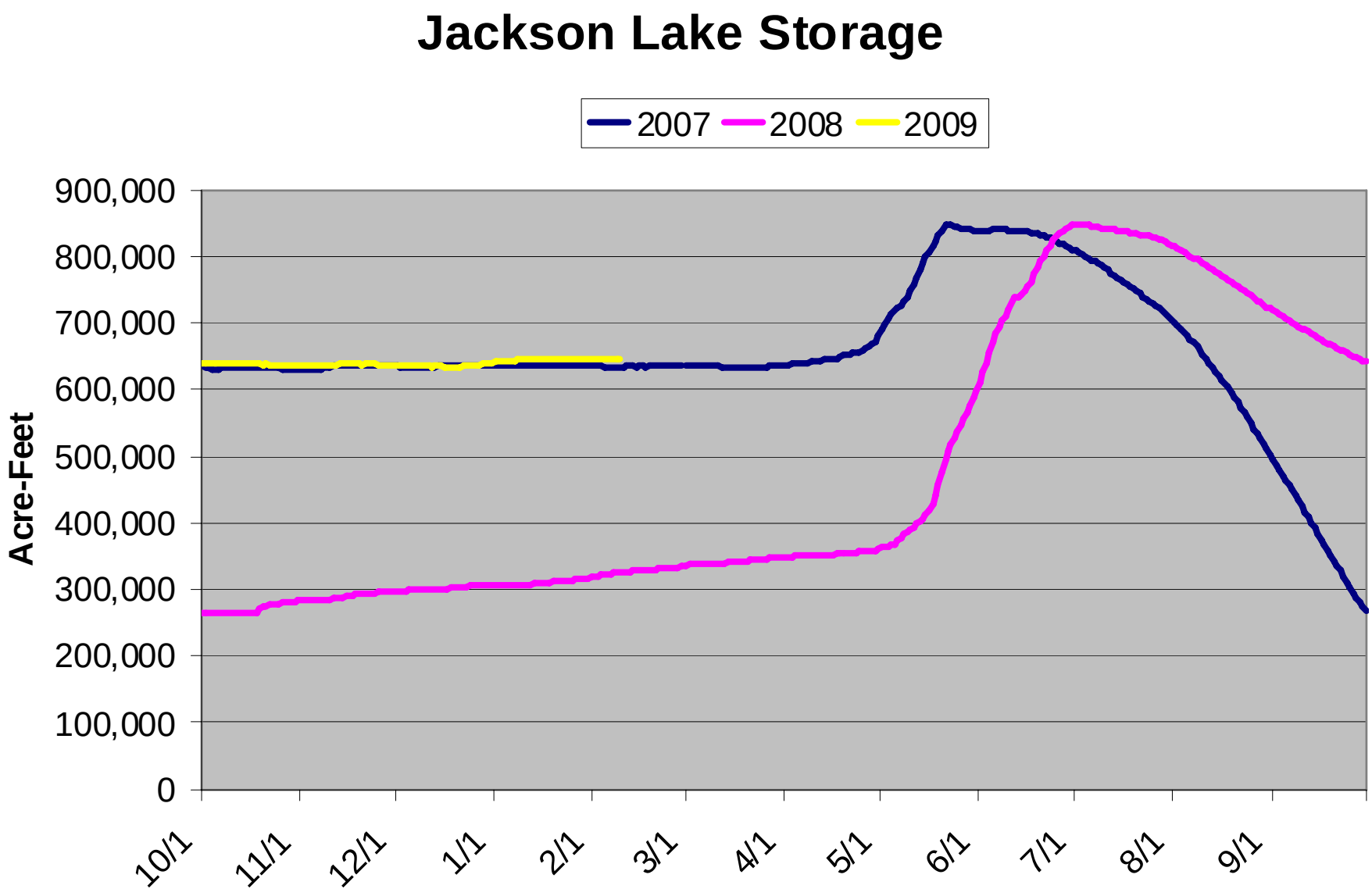
Basin Site Name	Elev (ft)	Snow Water Equivalent			Year-to-Date Precipitation		
		Current (in)	Average (in)	Pct of Avg	Current (in)	Average (in)	Pct of Avg
SNAKE BASIN ABOVE PALISADES							
BASE CAMP	7030	11.2	13.8	81	13.9	16	87
BLIND BULL SUM	8650	17.5	19.8	88	14.7	16.5	89
COTTONWOOD CREEK	7670	18.1	15.4	118	21.7	19.9	109
EAST RIM DIVIDE	7930	6.8	9.3	73	9.4	8.7	108
GRANITE CREEK	6770	11.7	13.6	86	16.2	14.9	109
GRASSY LAKE	7265	21.6	25.1	86	24.9	26.9	93
GROS VENTRE SUMMIT	8750	8.9	10	89	10.5	9.2	114
GUNSIGHT PASS	9820	10.3	N/A	*	11.3	N/A	*
LEWIS LAKE DIVIDE	7850	18	25.2	71	22.3	26.9	83
LOOMIS PARK	8240	12	12.2	98	14.4	12.7	113
PHILLIPS BENCH	8200	18.1	20.2	90	20.3	21.1	96
SALT RIVER SUMMIT	7760	9.2	10.3	89	10.8	13.6	79
SNAKE RIVER STATION	6920	11.6	13.9	83	15.6	16.8	93
SPRING CREEK DIVIDE	9000	18.1	18.8	96	18.6	19.6	95
THUMB DIVIDE	7980	11.2	12.9	87	13.1	13.7	96
TOGWOTEE PASS	9580	19.7	18.2	108	21.6	18	120
TWO OCEAN PLATEAU	9240	24.8	20.4	122	19.2	19.9	96
WILLOW CREEK	8380	22.9	21.8	105	27.4	23.3	118
Basin-wide percent of average				**93**			**99**

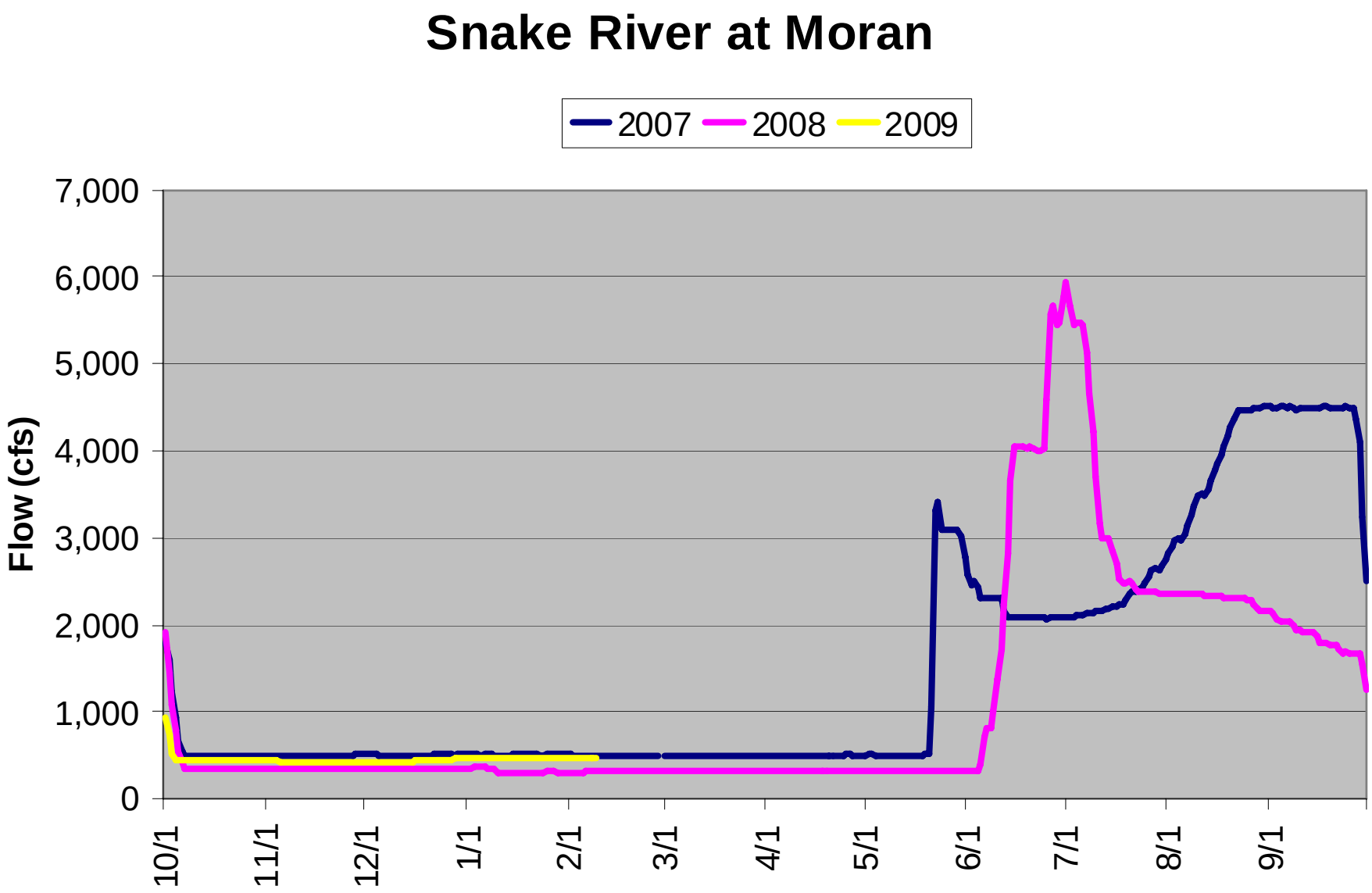
http://www.id.nrcs.usda.gov/snow/data/current.html

RECLAMATION

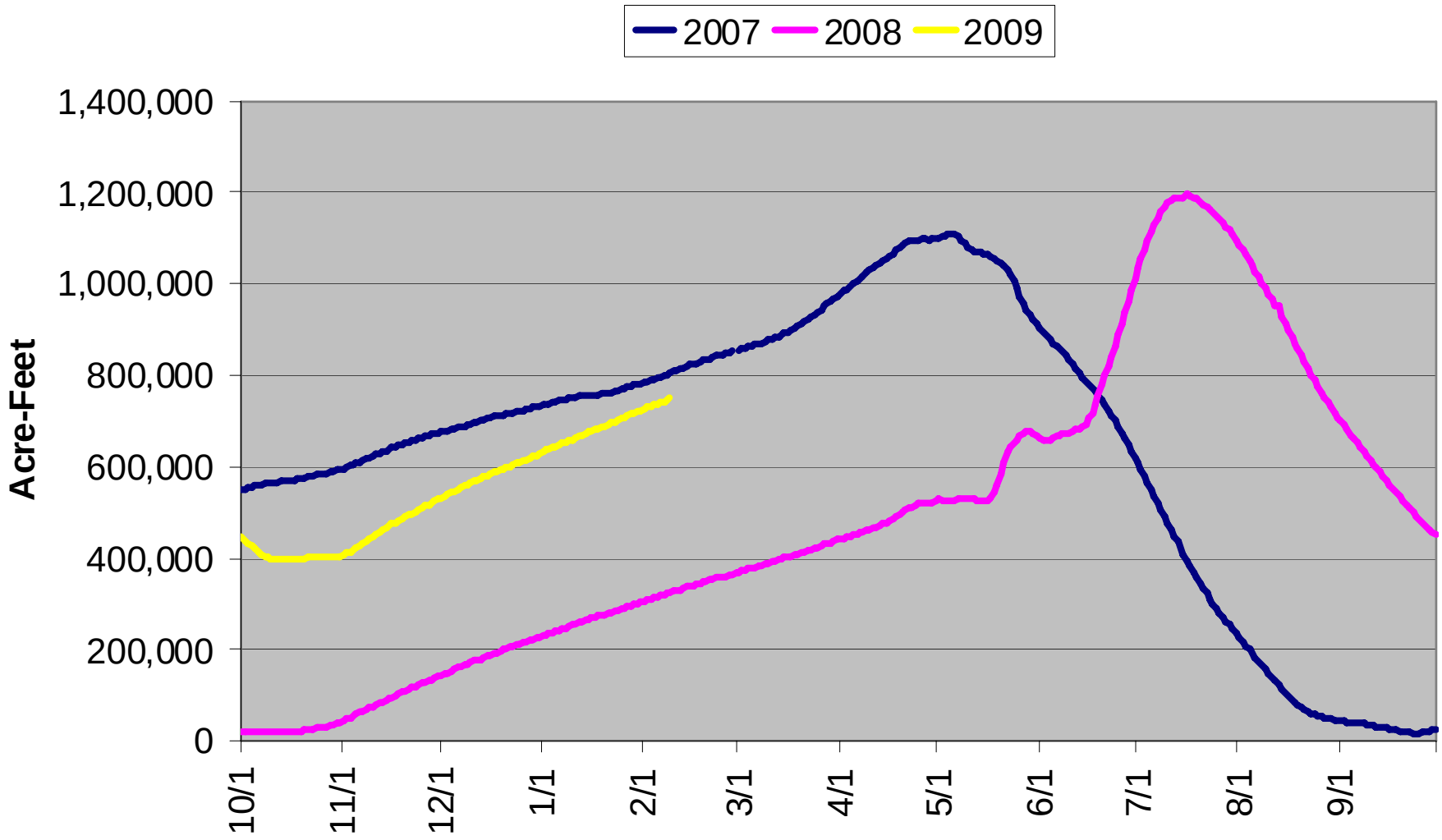


RECLAMATION

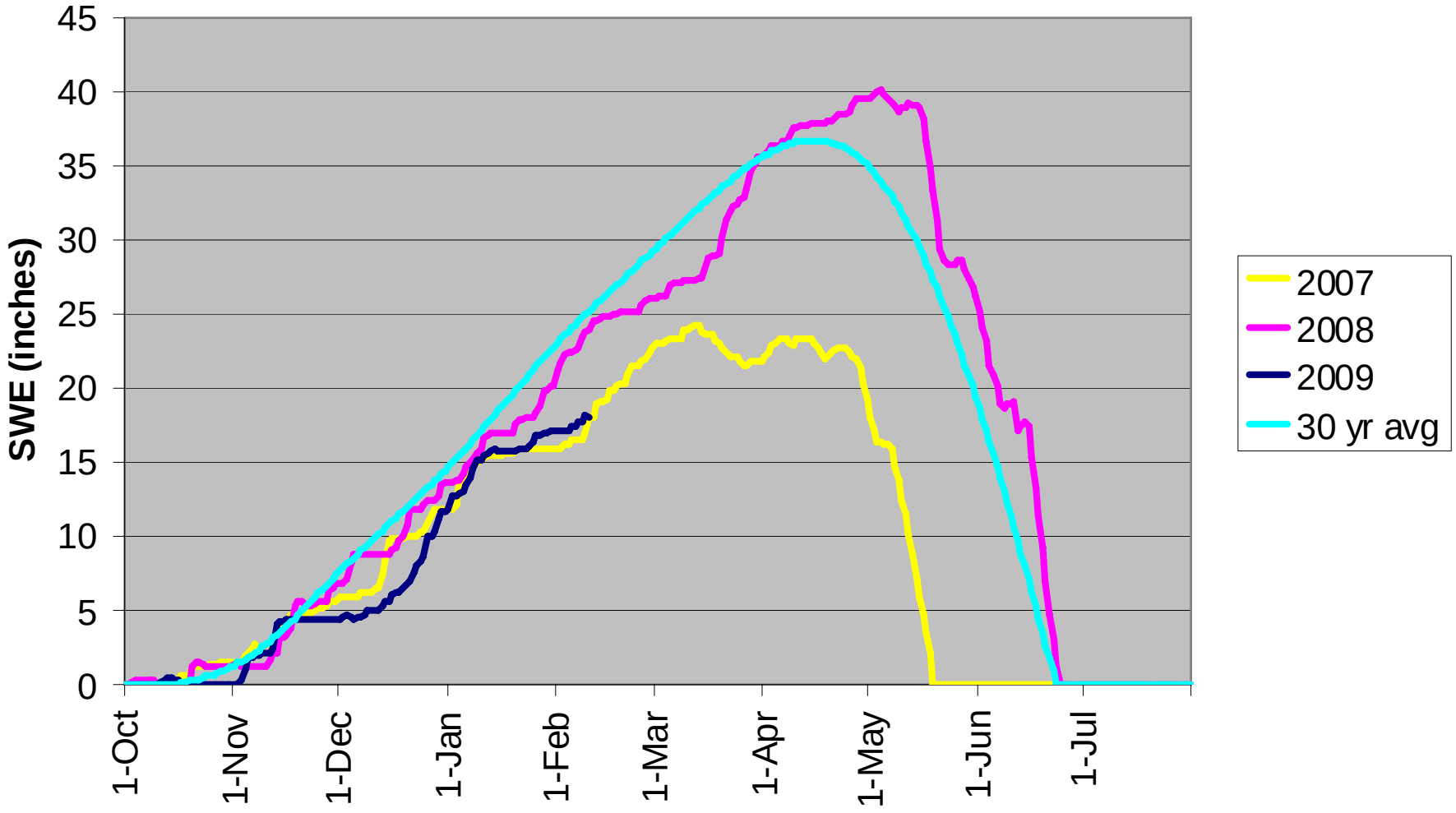

Jackson Lake Storage
2007
2008
2009
Acre-Feet
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
10/1
11/1
12/1
1/1
2/1
3/1
4/1
5/1
6/1
7/1
8/1
9/1

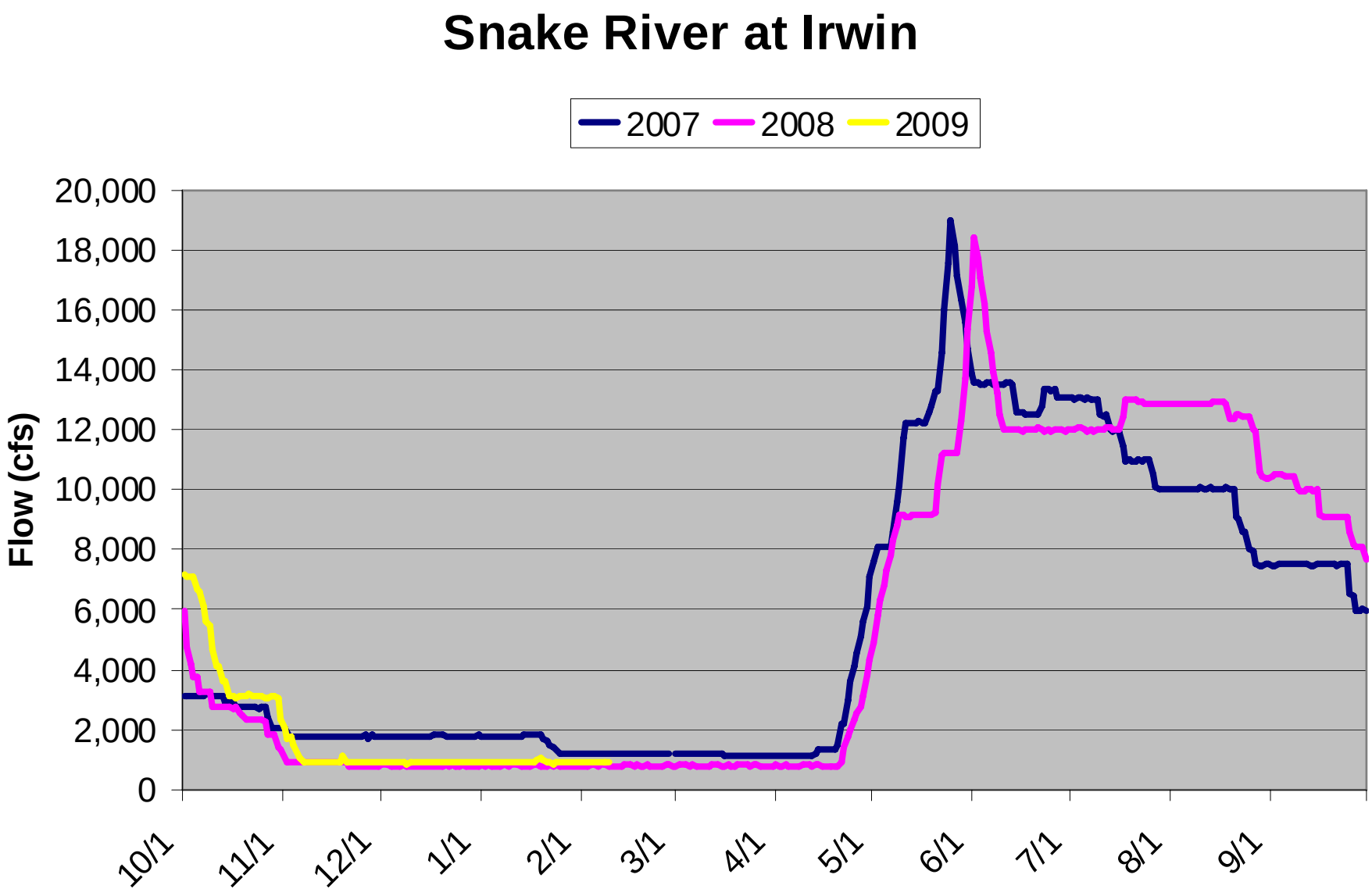

Snake River at Moran
2007
2008
2009
Flow (cfs)
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
10/1
11/1
12/1
1/1
2/1
3/1
4/1
5/1
6/1
7/1
8/1
9/1

Palisades Reservoir Storage

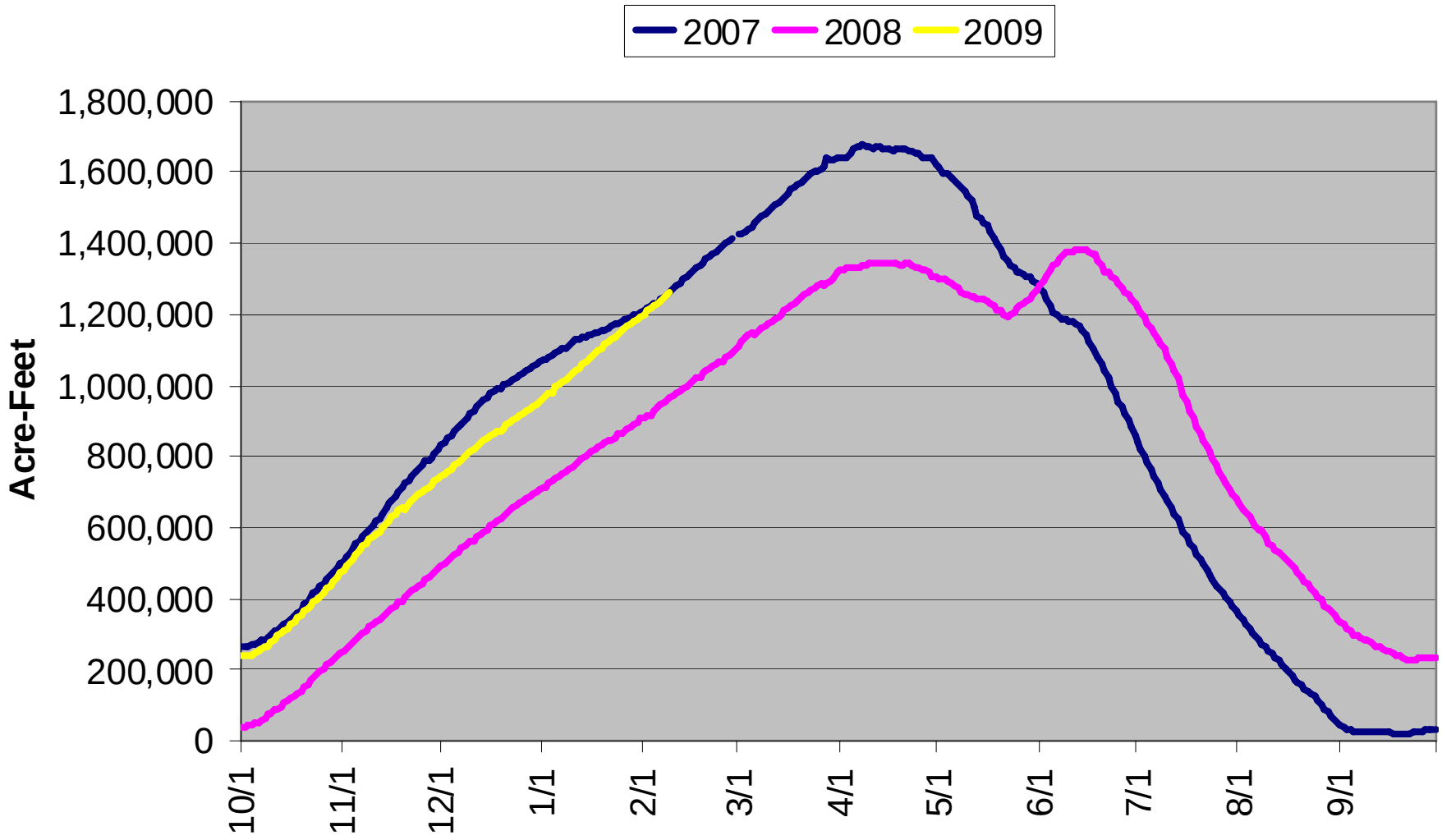


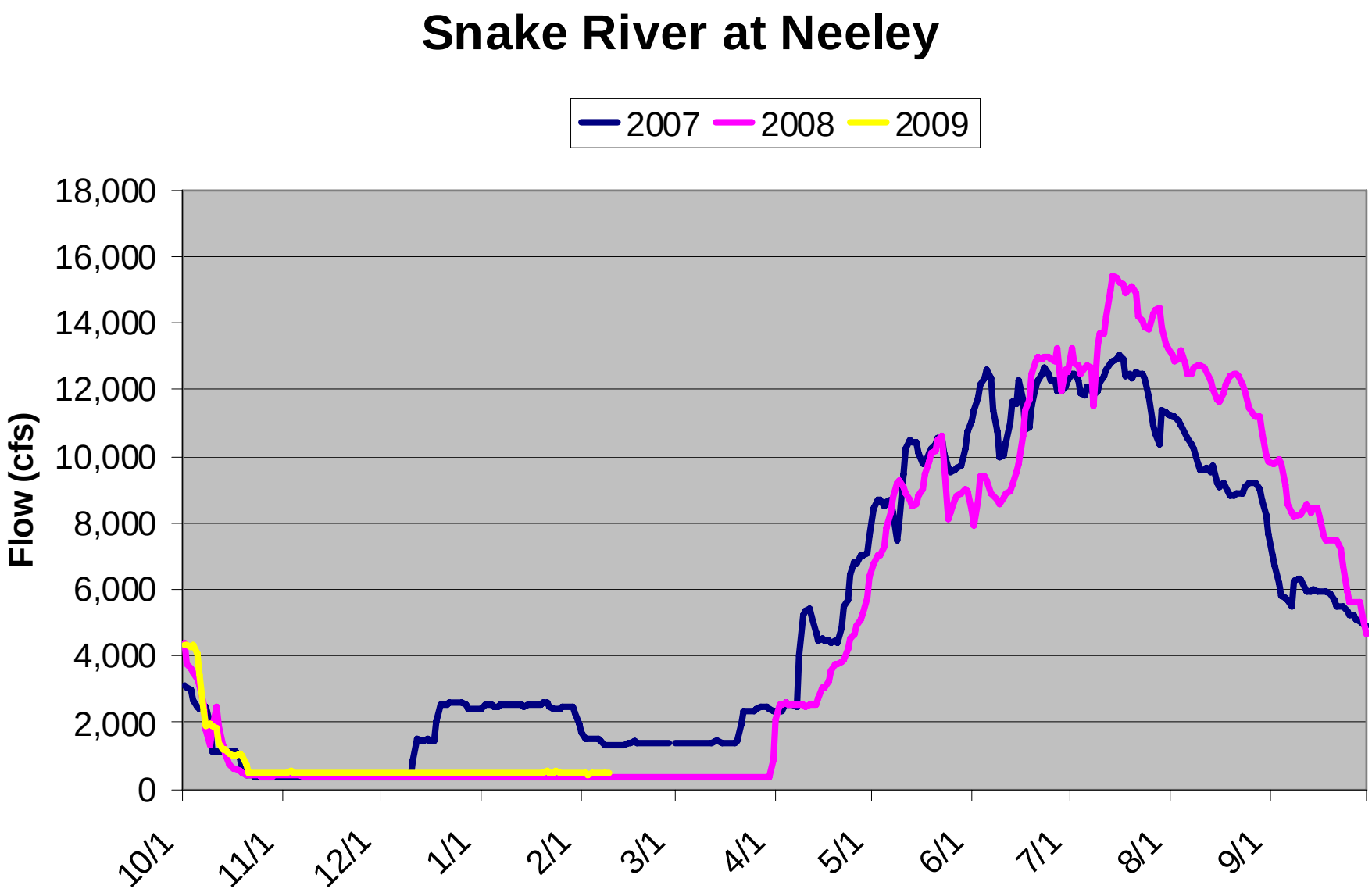
Lewis Lake Divide SnoTel



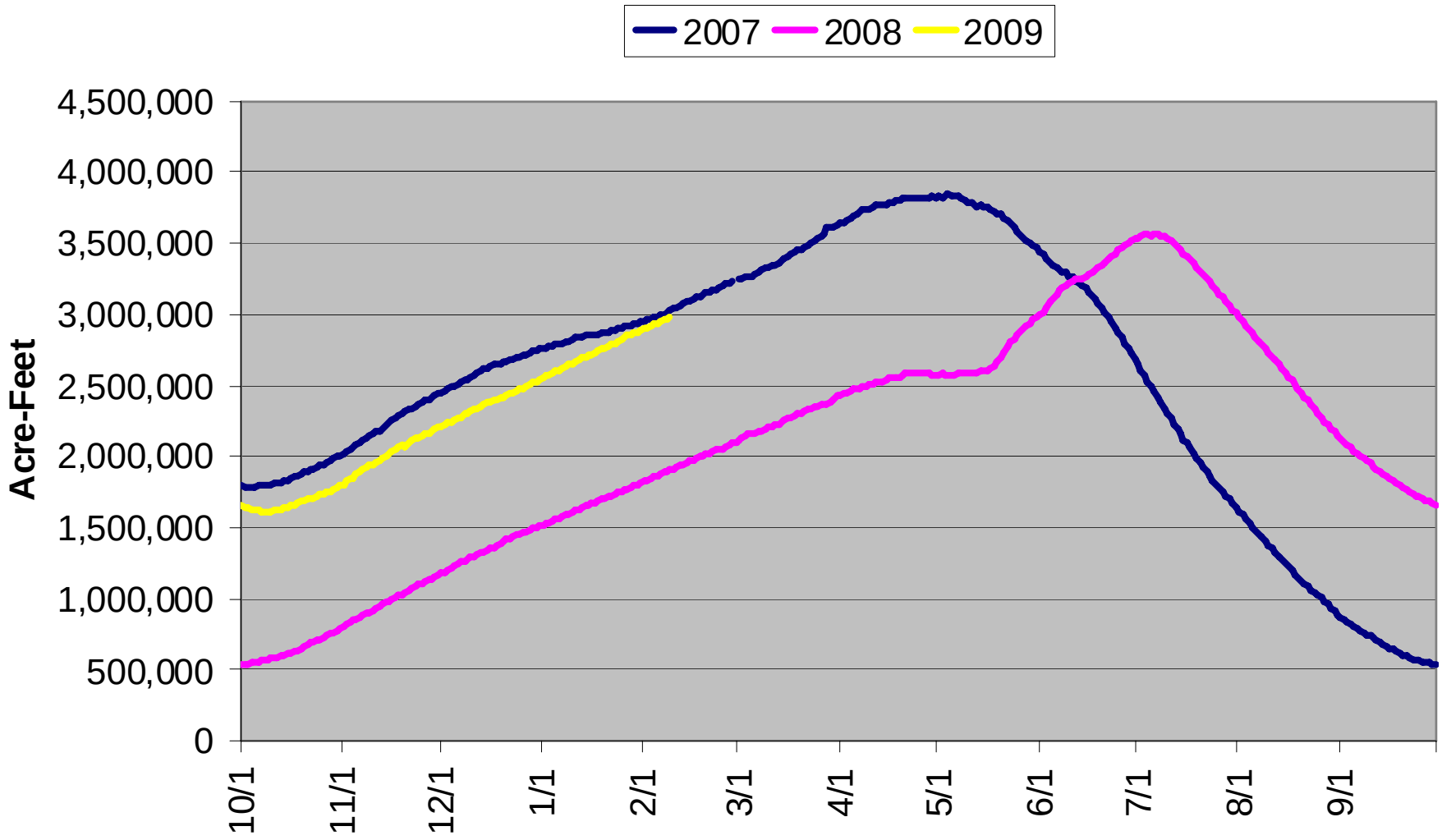

Snake River at Irwin
2007
2008
2009
Flow (cfs)
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
10/1
11/1
12/1
1/1
2/1
3/1
4/1
5/1
6/1
7/1
8/1
9/1

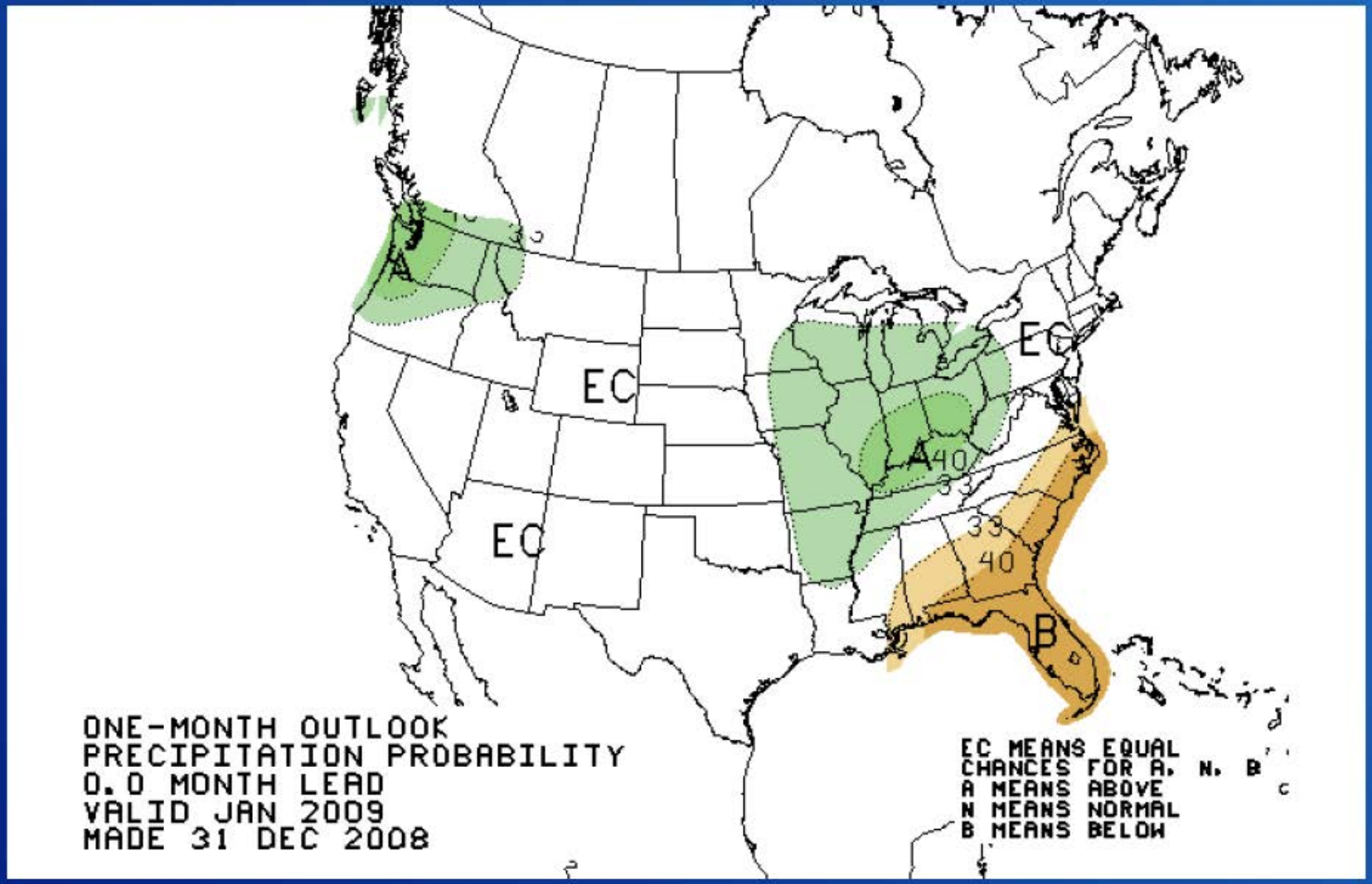
American Falls Reservoir Storage



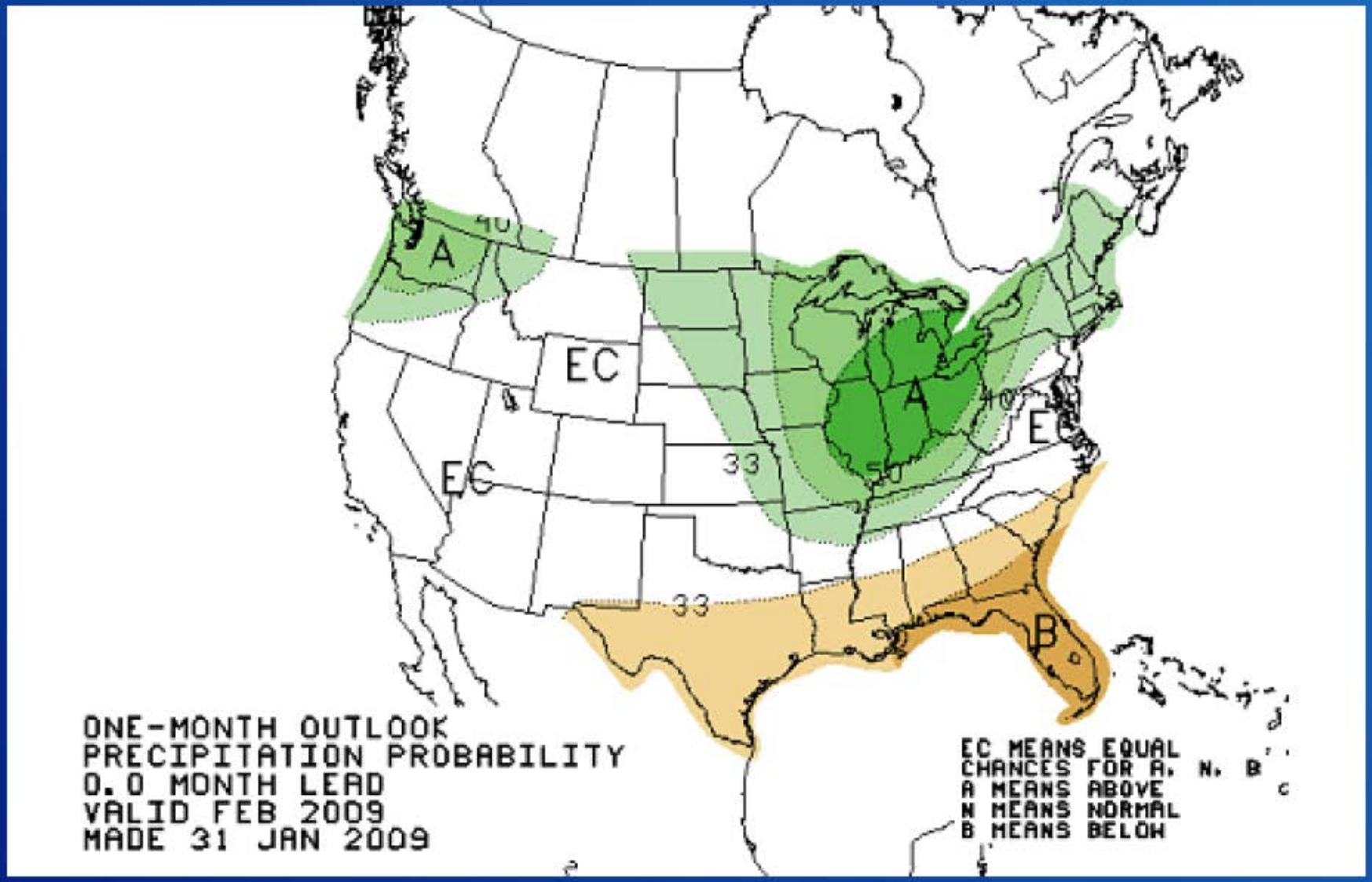

Snake River at Neeley
2007
2008
2009
Flow (cfs)
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
10/1
11/1
12/1
1/1
2/1
3/1
4/1
5/1
6/1
7/1
8/1
9/1

Snake River Storage above Milner

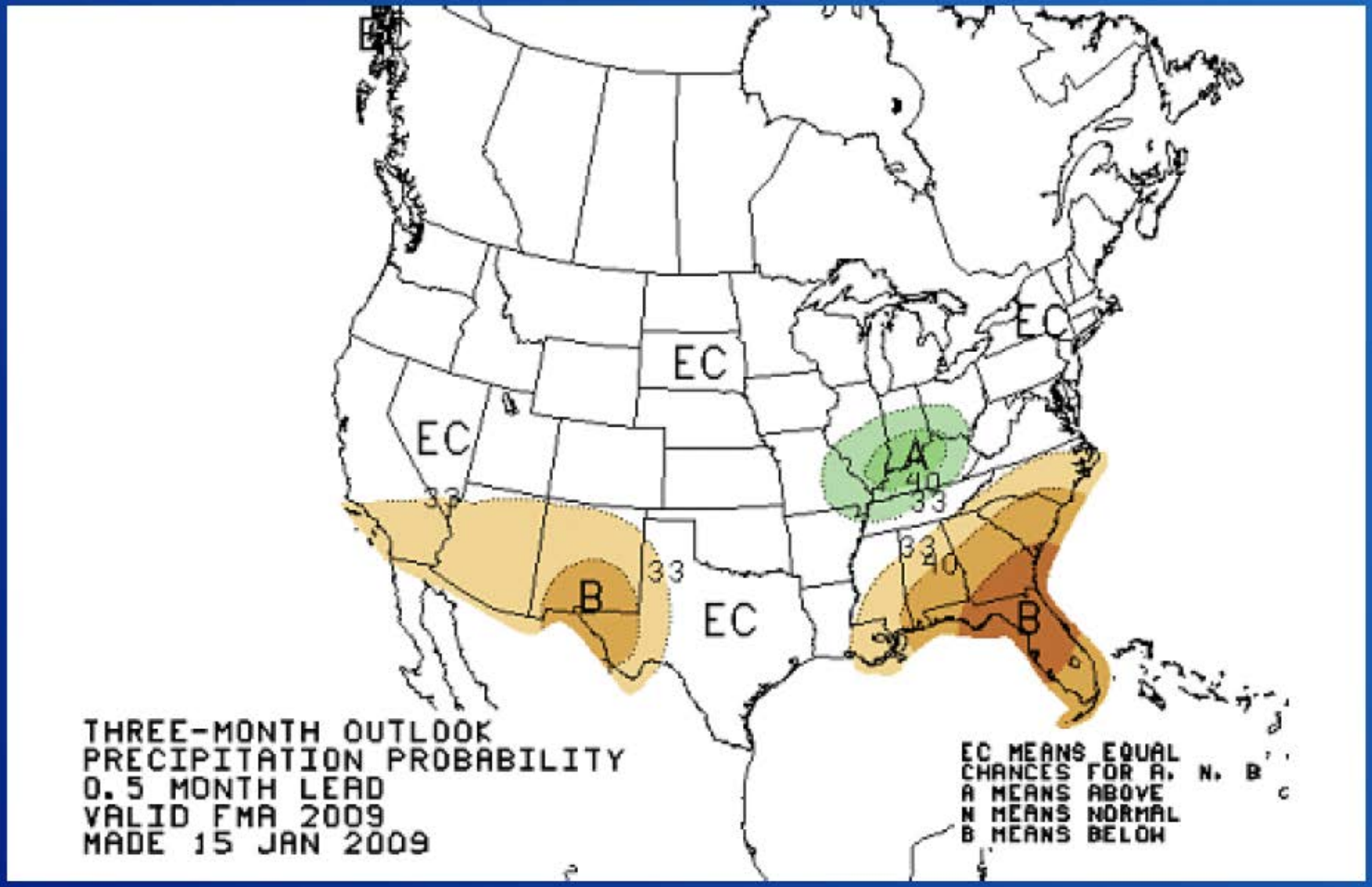




RECLAMATION



RECLAMATION



RECLAMATION

Questions?

RECLAMATION

RECLAMATION

Managing Water in the West

Idaho Water Supply Committee Meeting

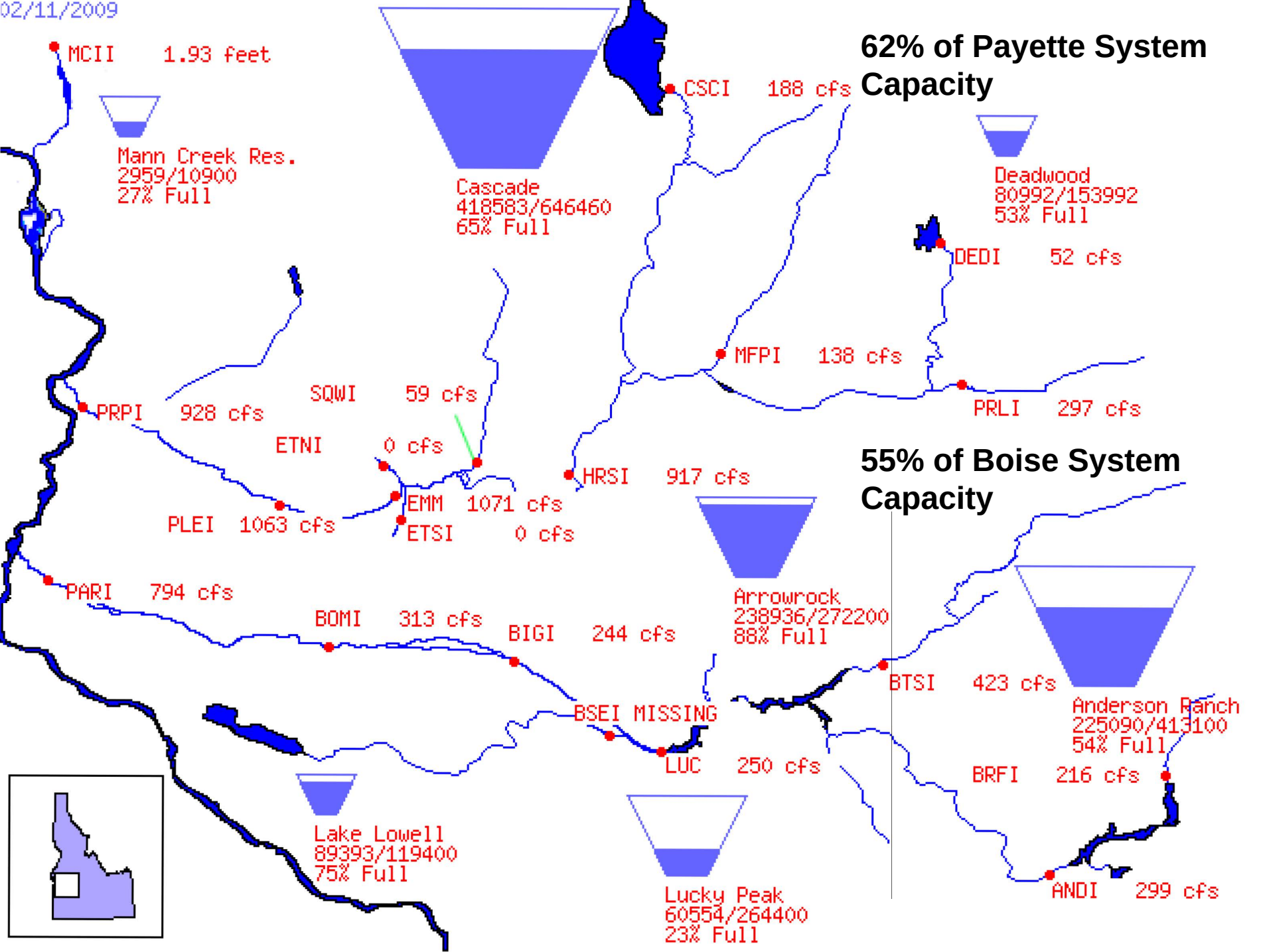
Southwest Idaho Report

February 12, 2009

U.S. Department of the Interior
Bureau of Reclamation

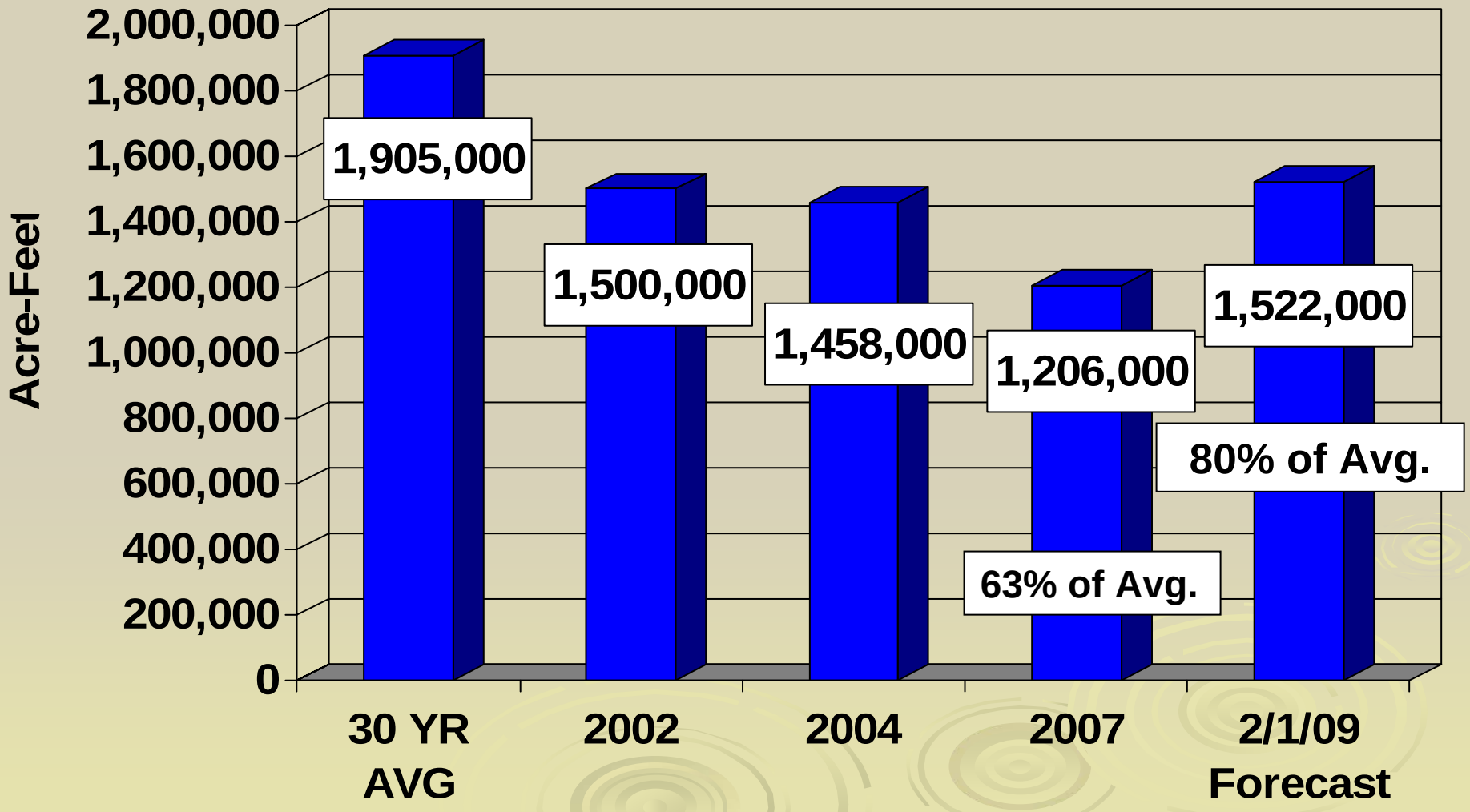
"If we could first know where we are, and whither we are tending, we could then better judge what to do, and how to do it."

- Abraham Lincoln, born February 12,1809

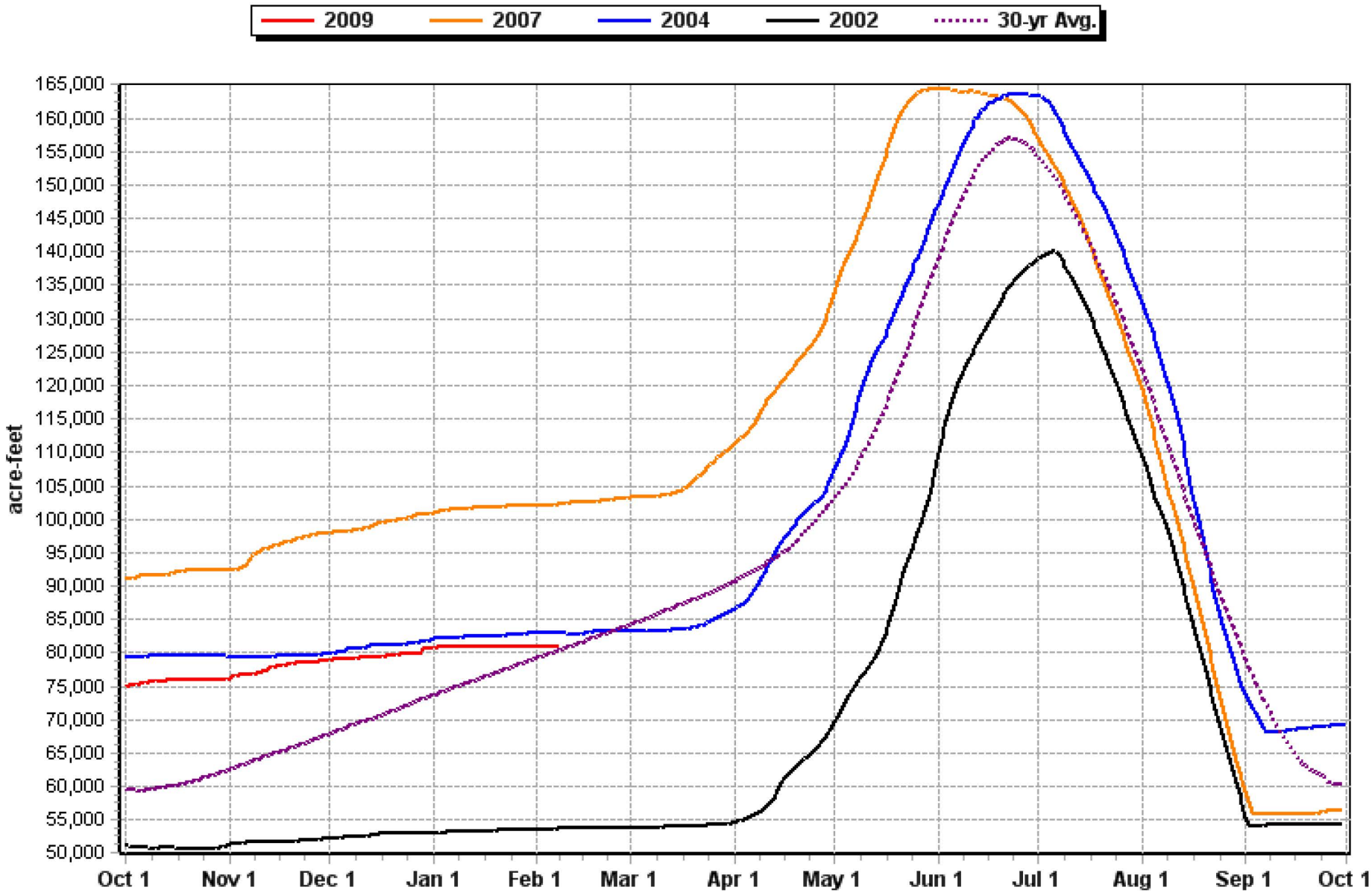

02/11/2009
MCII 1.93 feet
Mann Creek Res.
2959/10900
27% Full
Cascade
418583/646460
65% Full
CSCI 188 cfs
62% of Payette System Capacity
Deadwood
80992/153992
53% Full
DEDI 52 cfs
MFPI 138 cfs
PRLI 297 cfs
SQWI 59 cfs
PRPI 928 cfs
ETNI 0 cfs
HRSI 917 cfs
55% of Boise System Capacity
EMM 1071 cfs
ETSI 0 cfs
PLEI 1063 cfs
PARI 794 cfs
Arrowrock
238936/272200
88% Full
BOMI 313 cfs
BIGI 244 cfs
BTSI 423 cfs
Anderson Ranch
225090/413100
54% Full
BSEI MISSING
LUC 250 cfs
BRFI 216 cfs
Lake Lowell
89393/119400
75% Full
Lucky Peak
60554/264400
23% Full
ANDI 299 cfs

Payette River Runoff at Horseshoe Bend

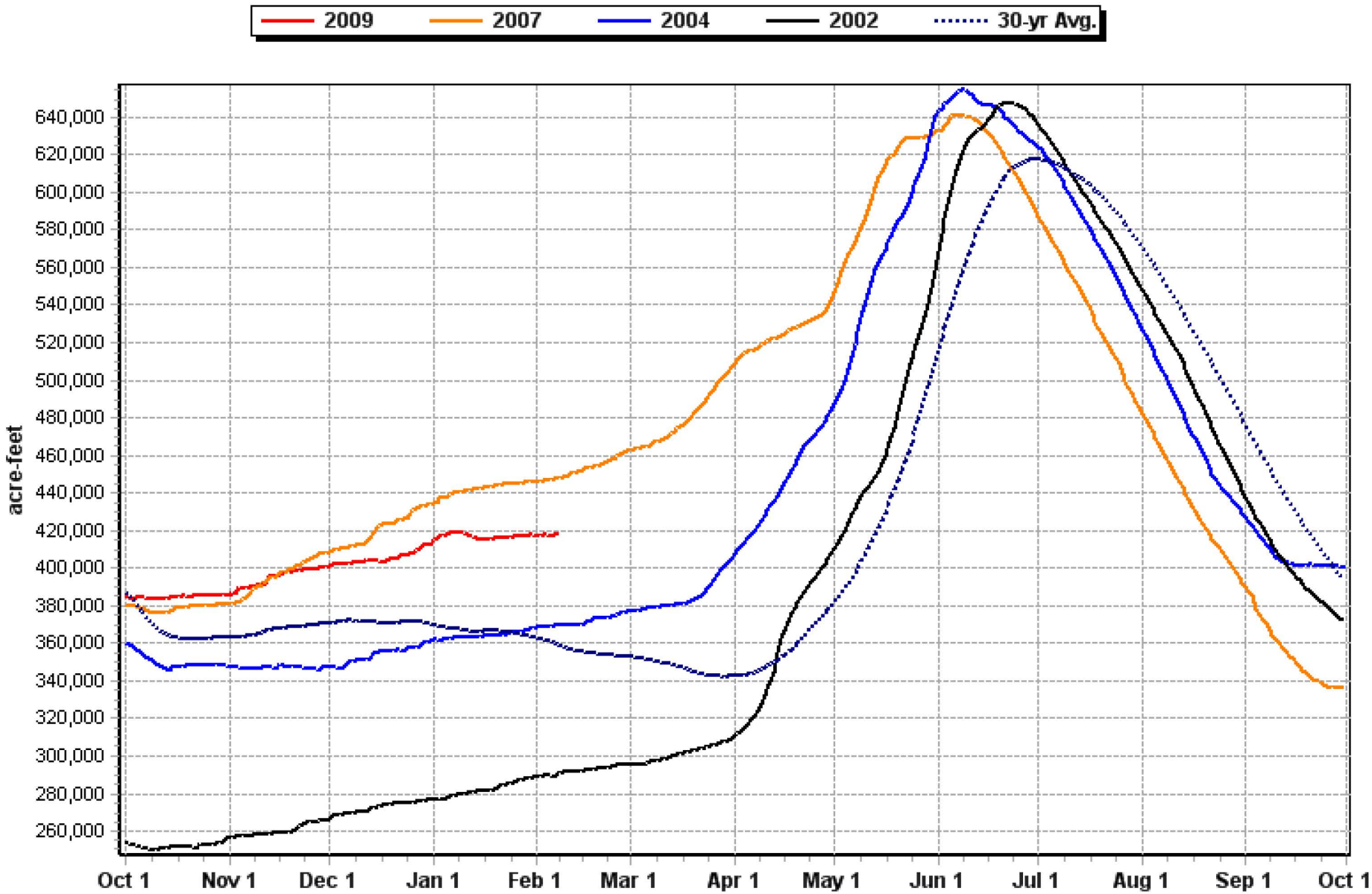
February 1 – July 31



Deadwood Reservoir Storage
(capacity = 154,000 ac-ft)

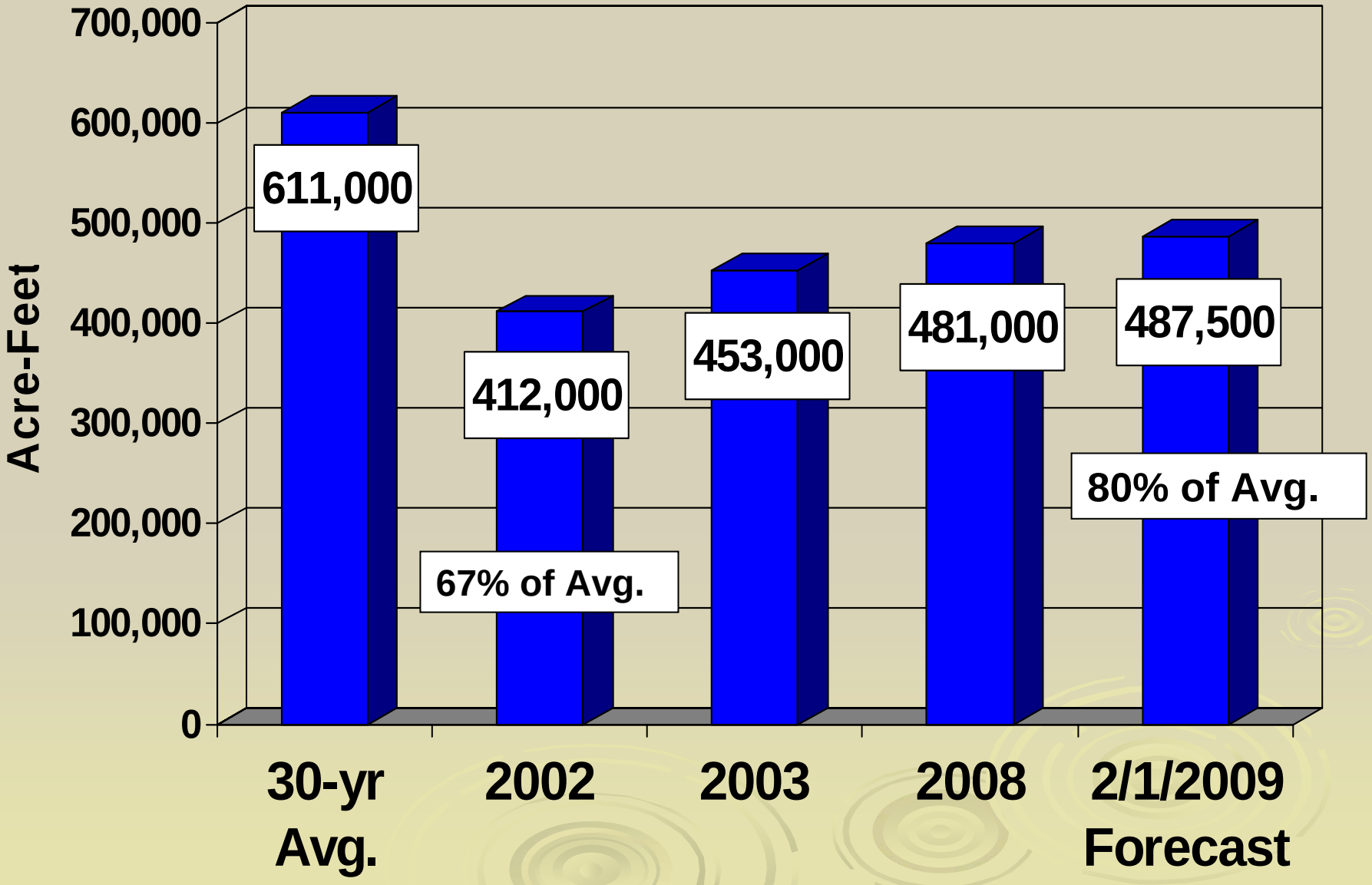


Cascade Reservoir Storage
(capacity = 646,460 ac-ft)

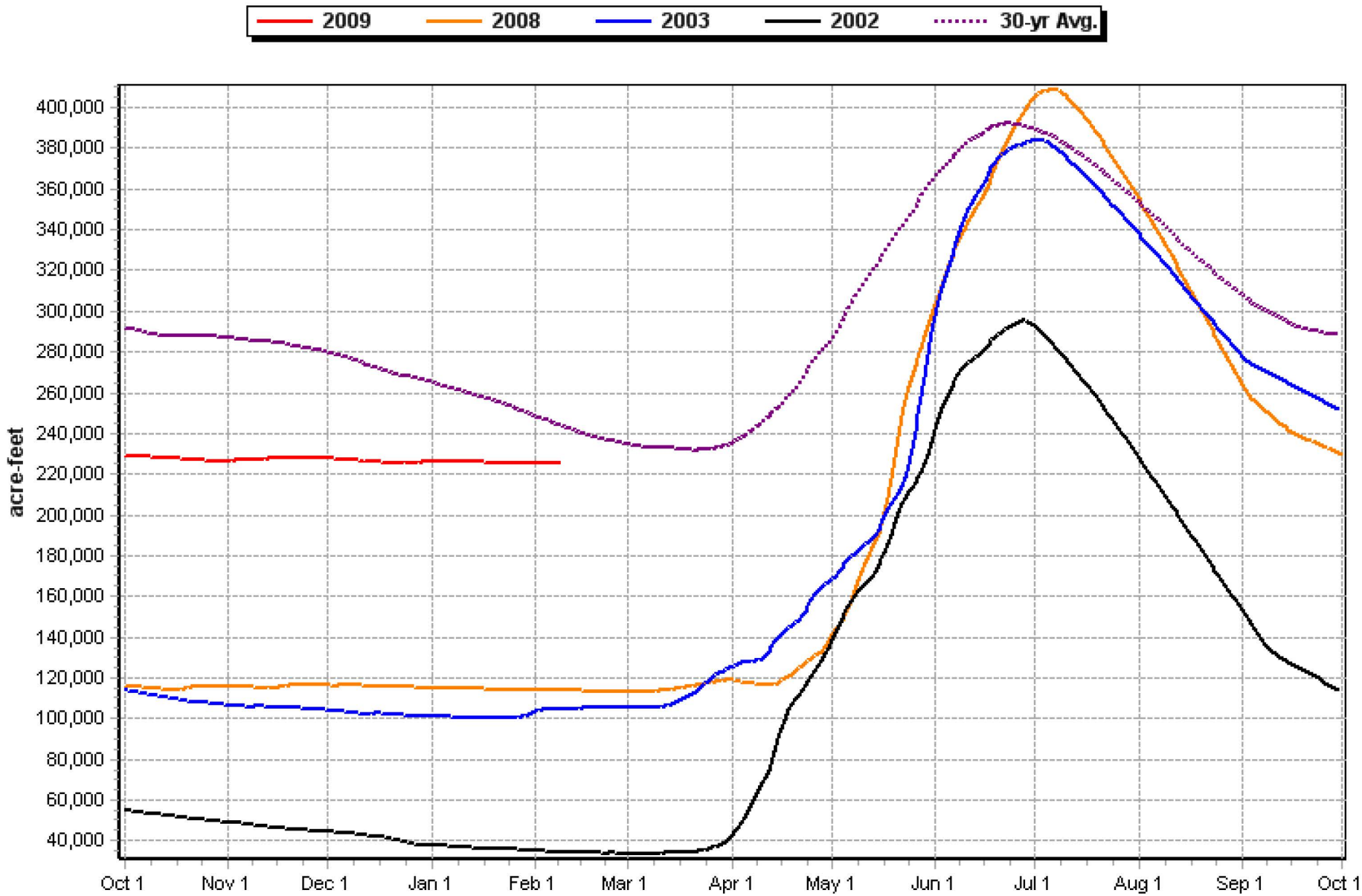


S. Fork Boise (Anderson Ranch) Runoff

February 1 – July 30

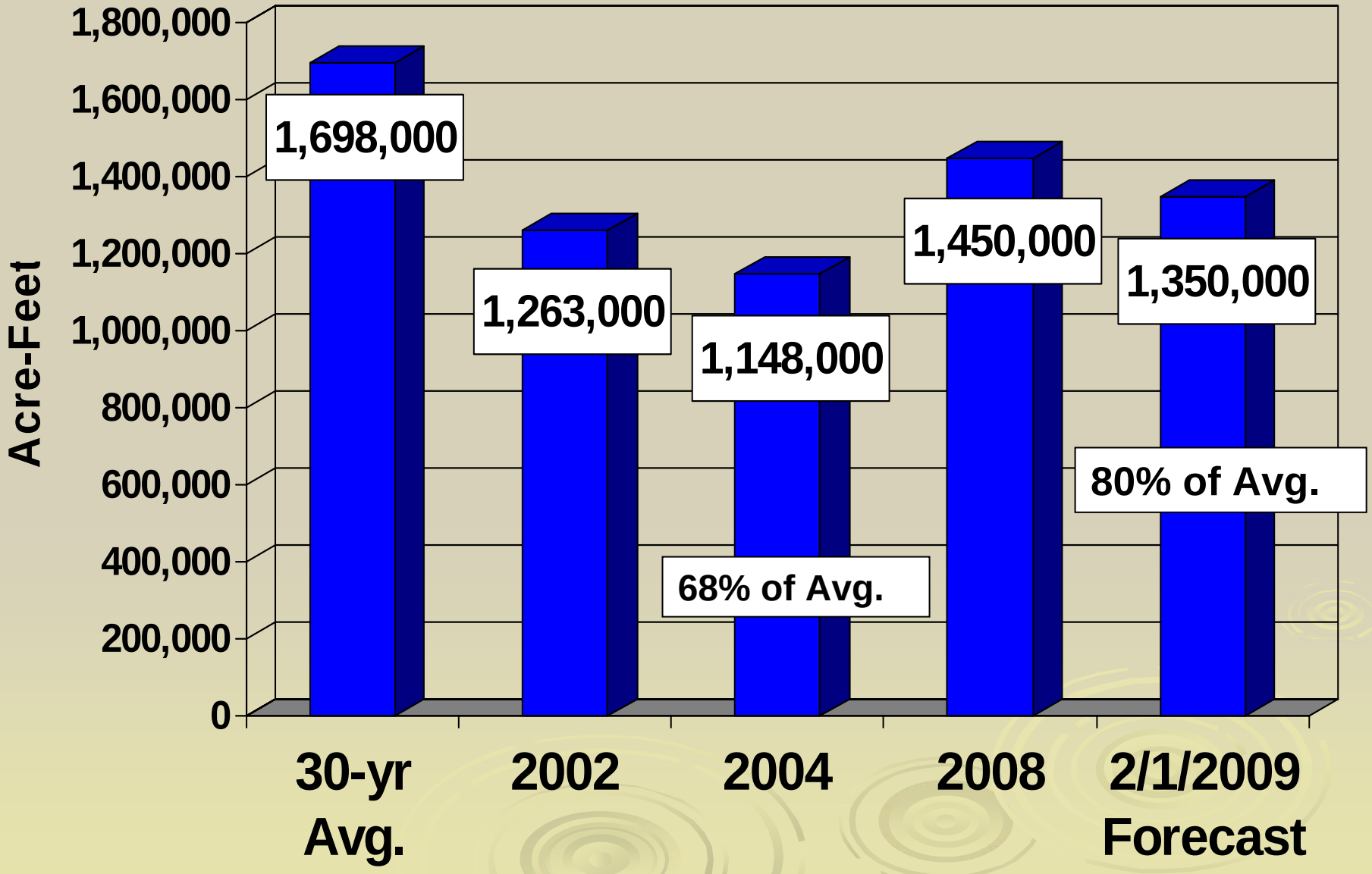


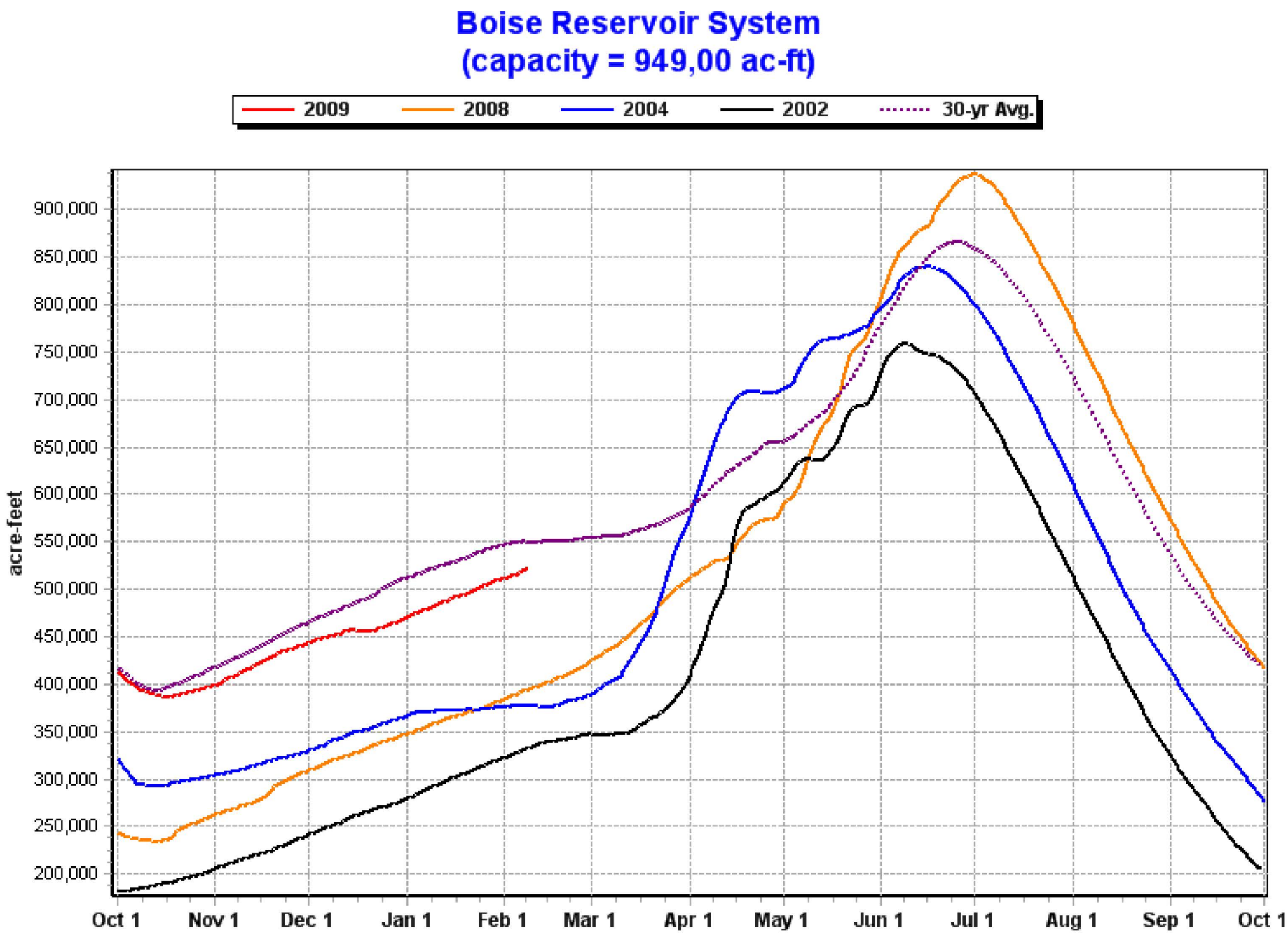
Anderson Ranch Reservoir Storage
(capacity = 413,000 ac-ft)



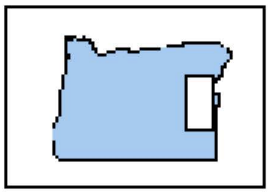
Boise Basin Runoff

February 1 – July 30



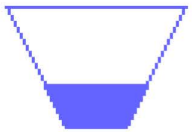

Boise Reservoir System
(capacity = 949,00 ac-ft)
2009
2008
2004
2002
30-yr Avg.
acre-feet
900,000
850,000
800,000
750,000
700,000
650,000
600,000
550,000
500,000
450,000
400,000
350,000
300,000
250,000
200,000
Oct 1
Nov 1
Dec 1
Jan 1
Feb 1
Mar 1
Apr 1
May 1
Jun 1
Jul 1
Aug 1
Sep 1
Oct 1

02/11/2009

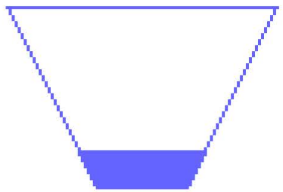


Phillips
36829/73000
50% Full

Unity
10867/25200
43% Full



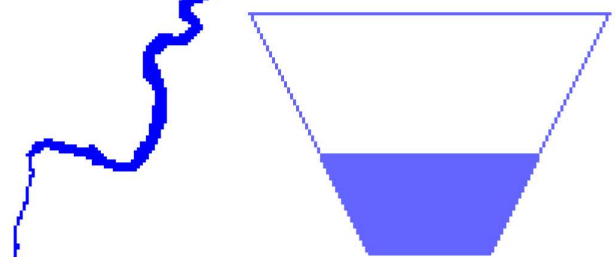
Beulah
14451/59900
24% Full



Warm Springs
21222/169639
13% Full

Thief Valley
13527/13307
102% Full

Bully Creek
10080/23676
43% Full



Owyhee
215488/715000
30% Full

NPDO 261 cfs

THF 84 cfs

HCDI 15682 cfs

PRHO 24 cfs

DRCO 0 cfs

PWDO 28 cfs

PRRO 289 cfs

PHL 10 cfs

UNY 4 cfs

Snake River

WEII 9318 cfs

MABO 59 cfs

MALO 83 cfs

VALO 75 cfs

BEUO 0 cfs

SNYI 8261 cfs

MADO 59 cfs

OWY 27 cfs

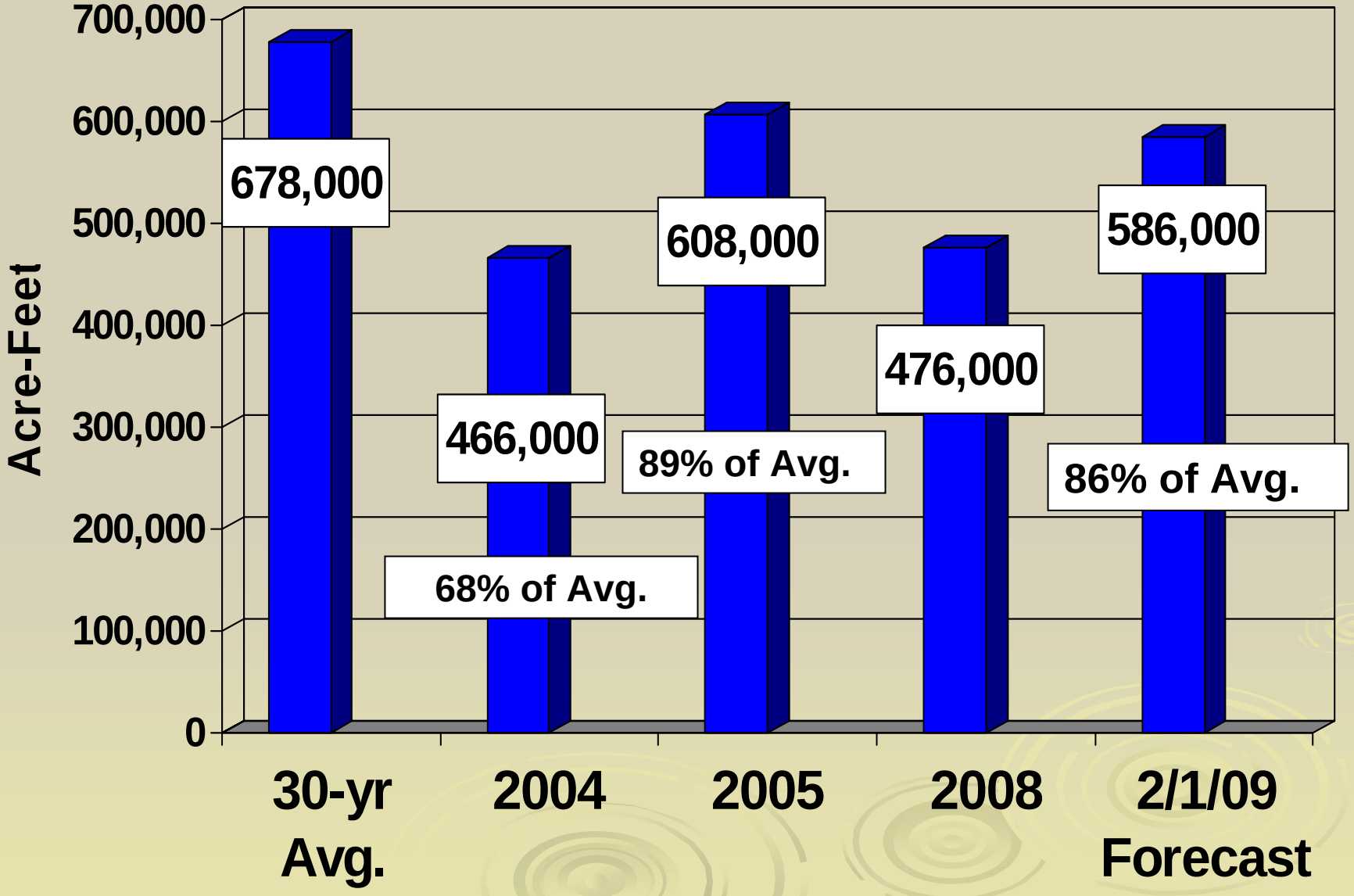
SWAI 7479 cfs

WARO 0 cfs

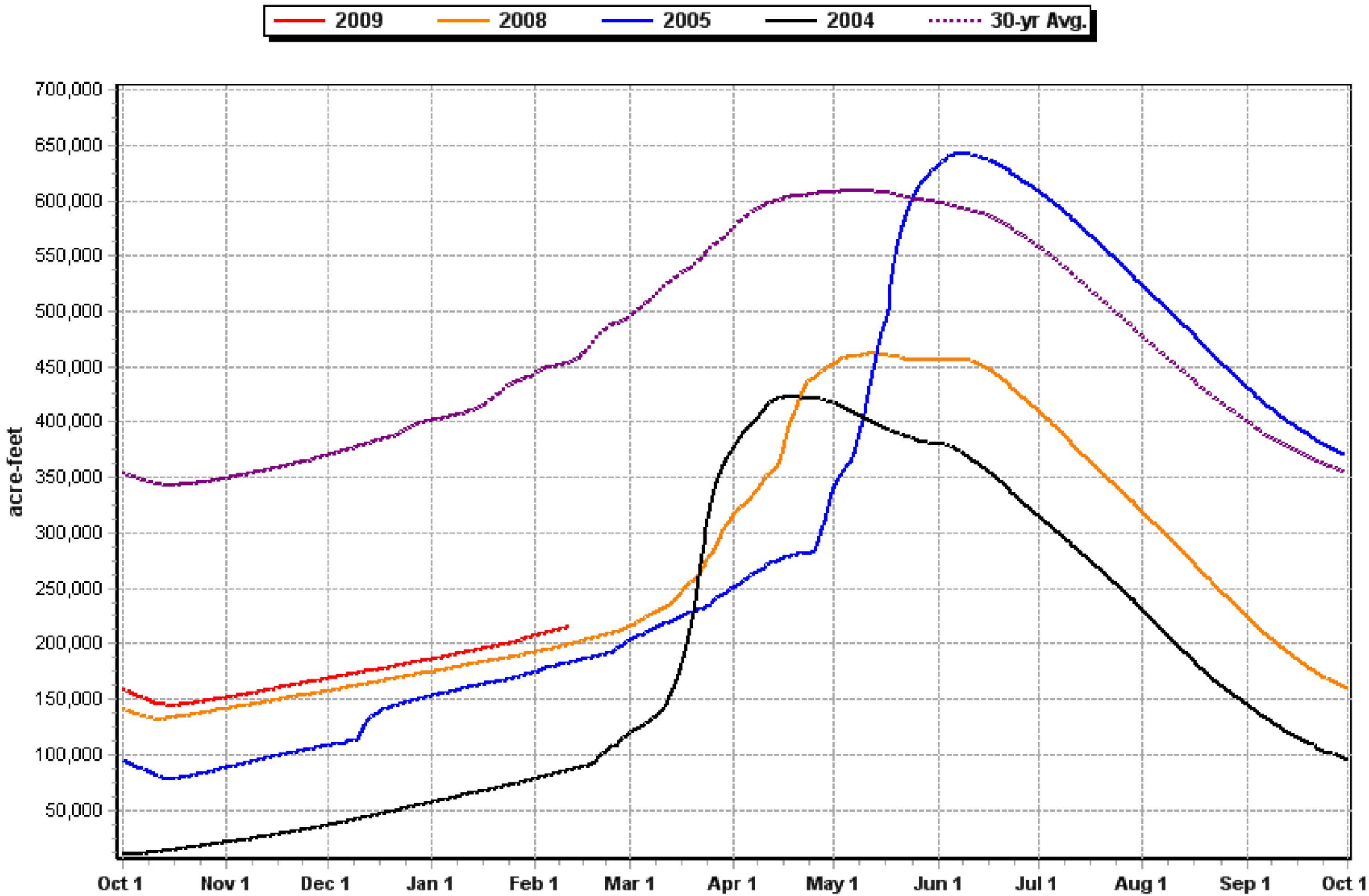
ROMO 267 cfs

Owyhee Basin Runoff

February - June

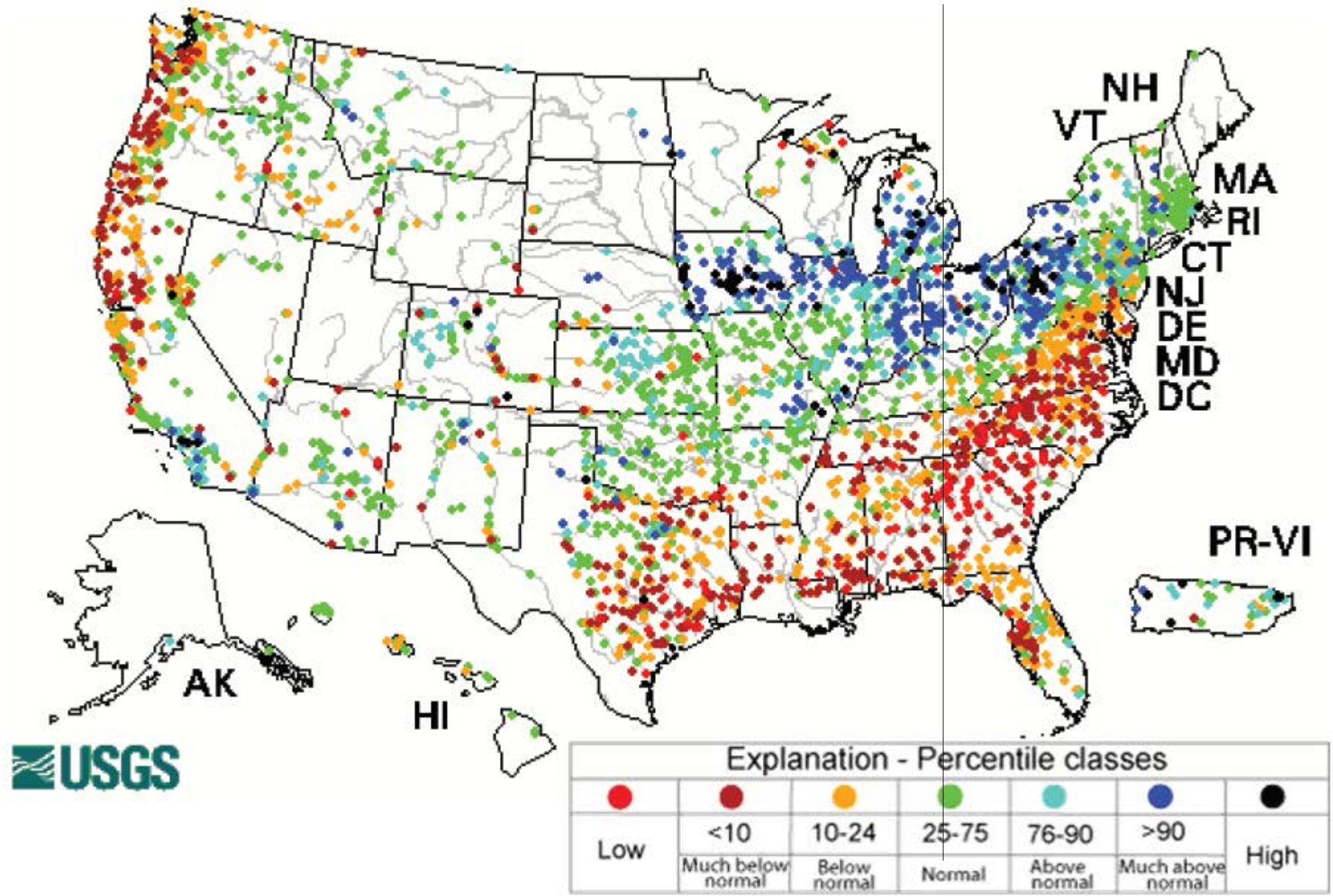


Owyhee Reservoir Storage
(capacity = 715,000 ac-ft)

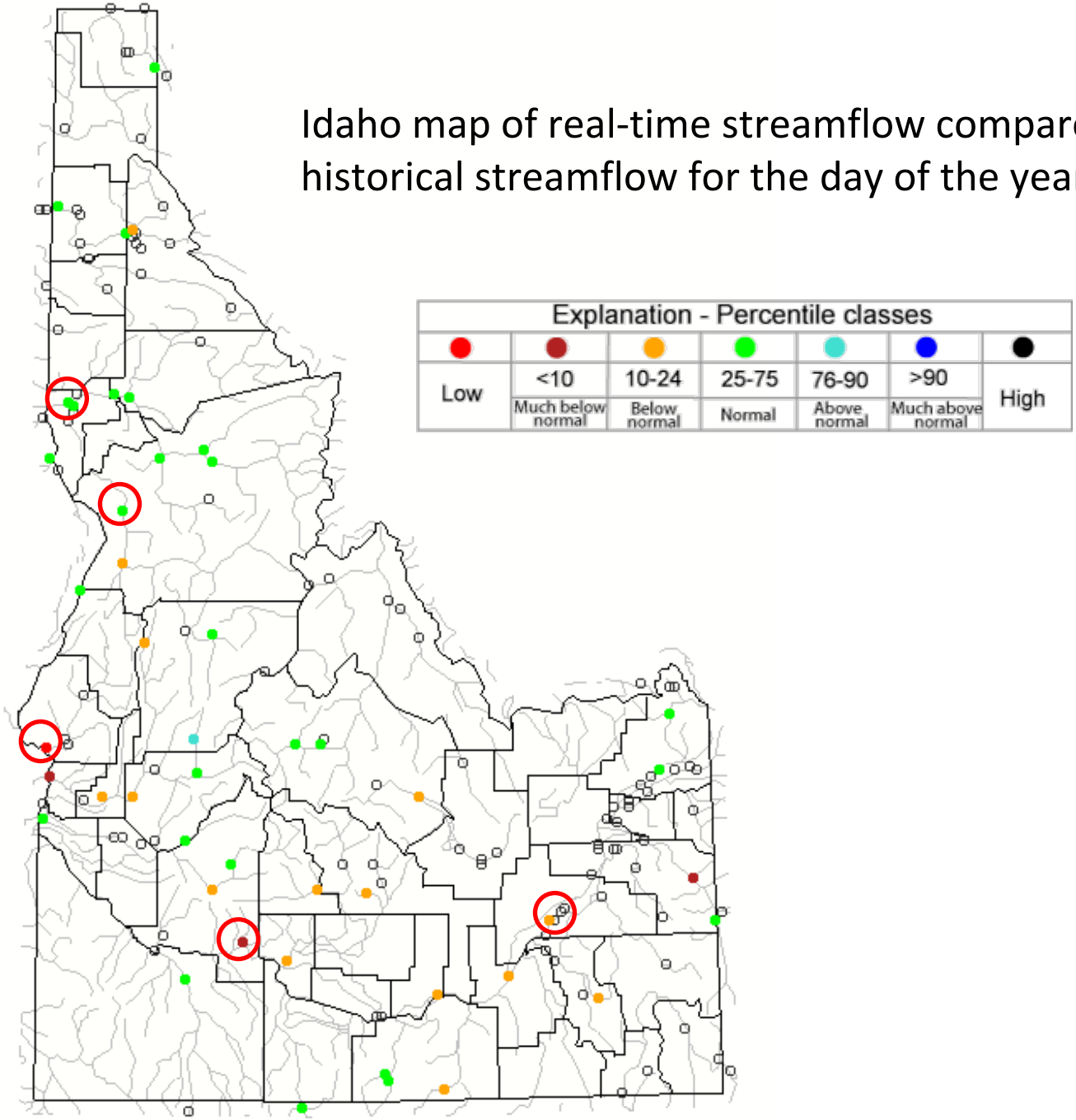


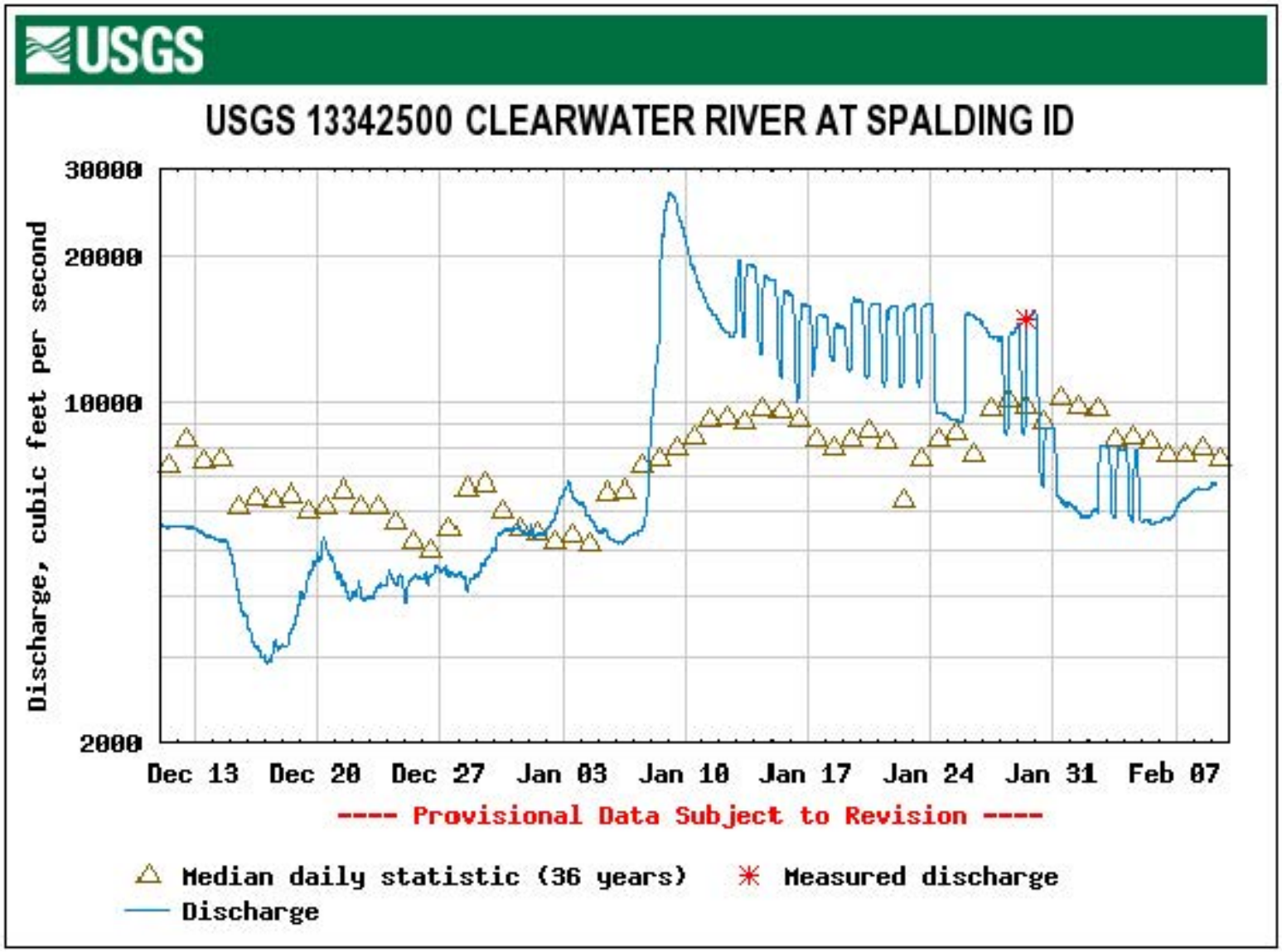
Think Snow!!!!

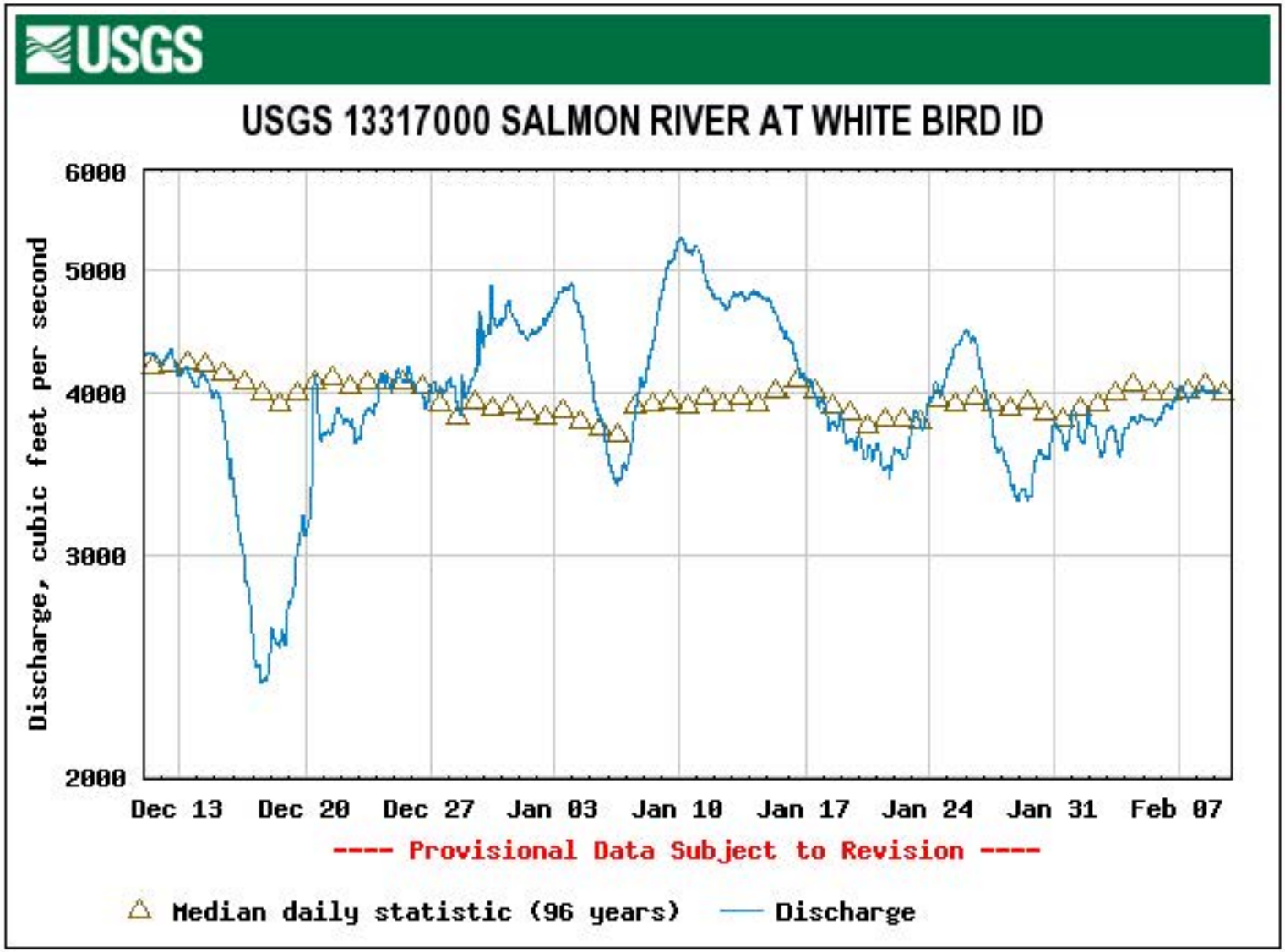
Water Watch – National map of real-time streamflow compared to historical streamflow for the day of the year.

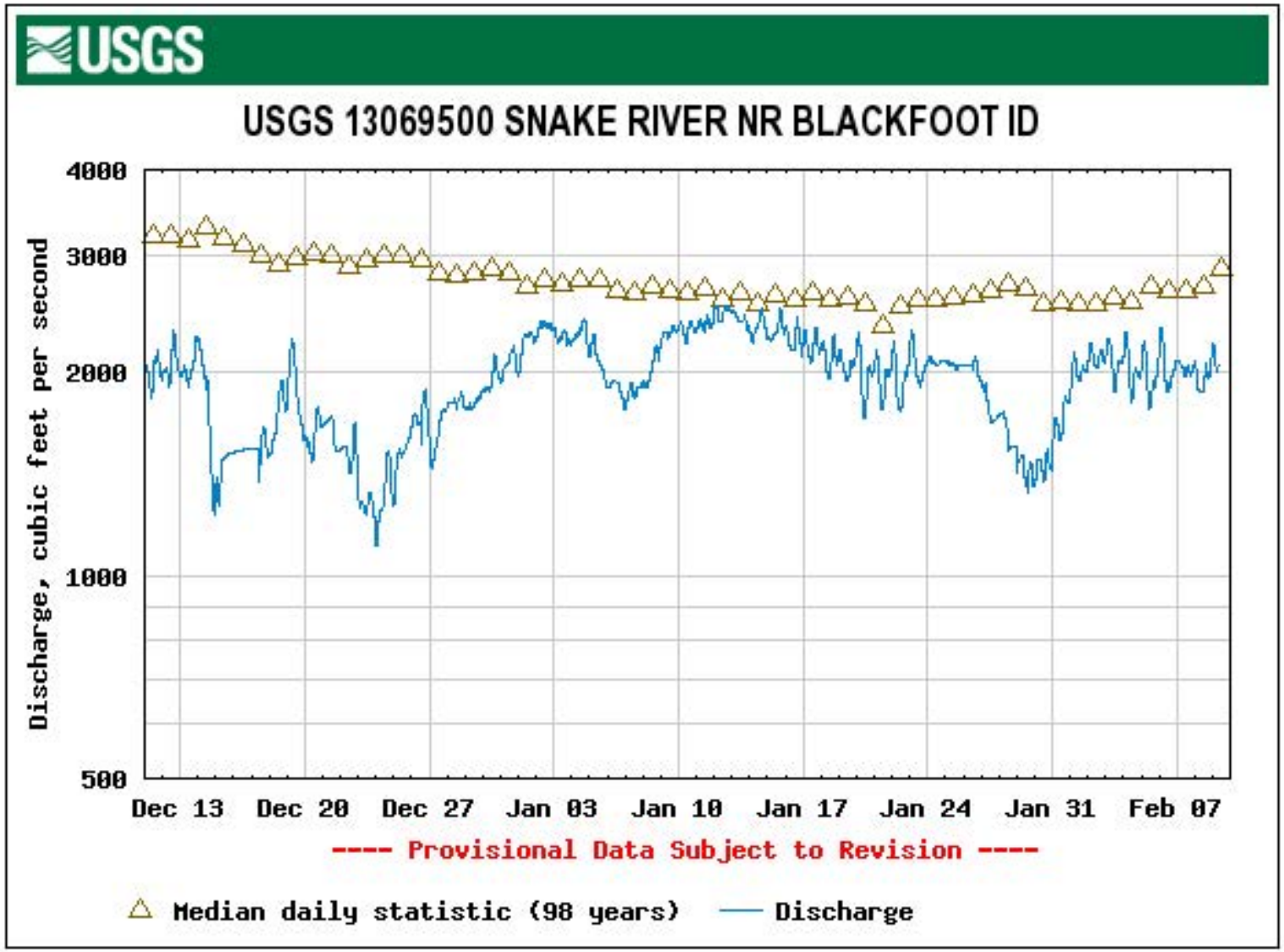


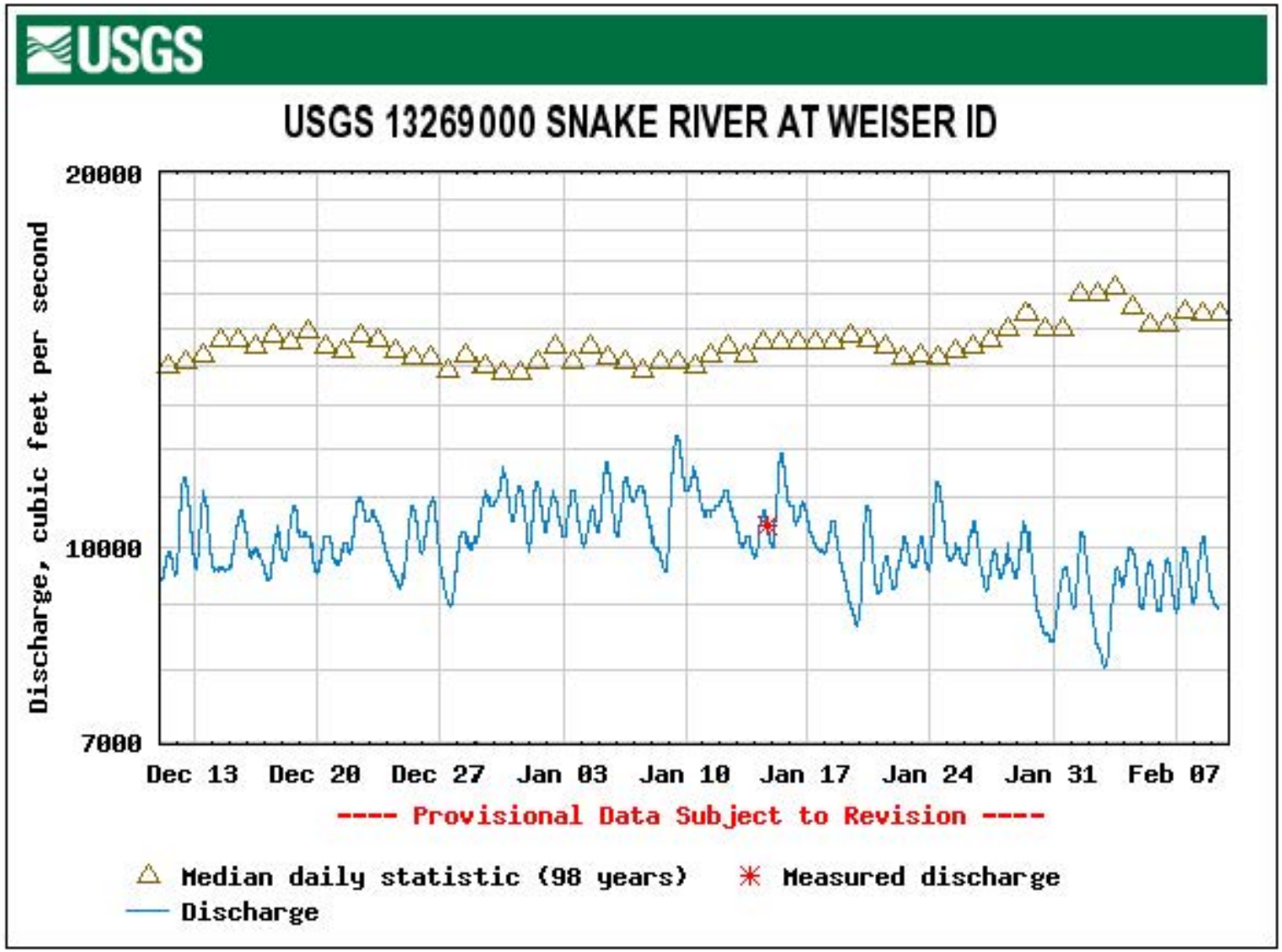
Idaho map of real-time streamflow compared to historical streamflow for the day of the year.

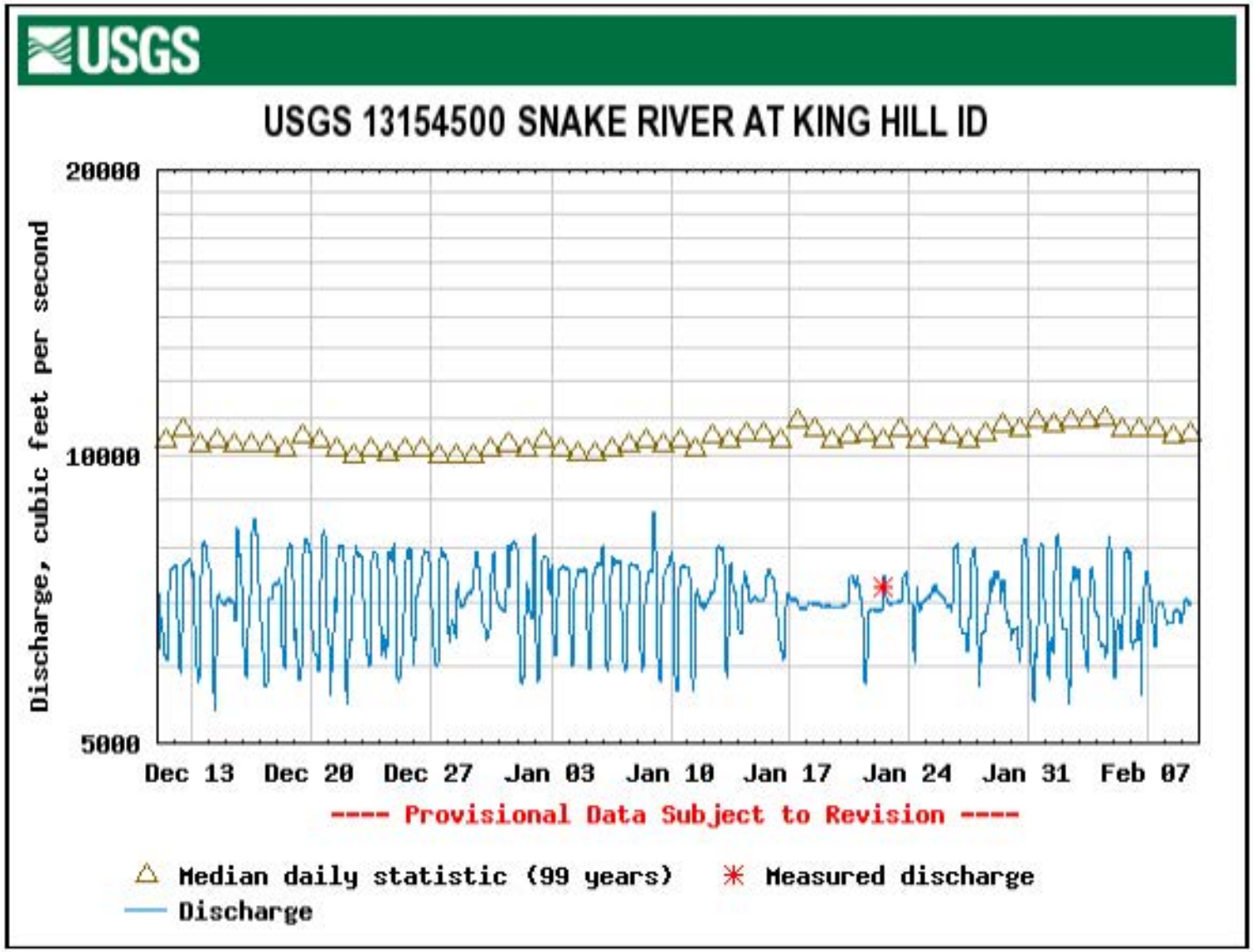



USGS
USGS 13342500 CLEARWATER RIVER AT SPALDING ID
Discharge, cubic feet per second
30000
20000
10000
2000
Dec 13
Dec 20
Dec 27
Jan 03
Jan 10
Jan 17
Jan 24
Jan 31
Feb 07
---- Provisional Data Subject to Revision ----
Median daily statistic (36 years)
Measured discharge
Discharge

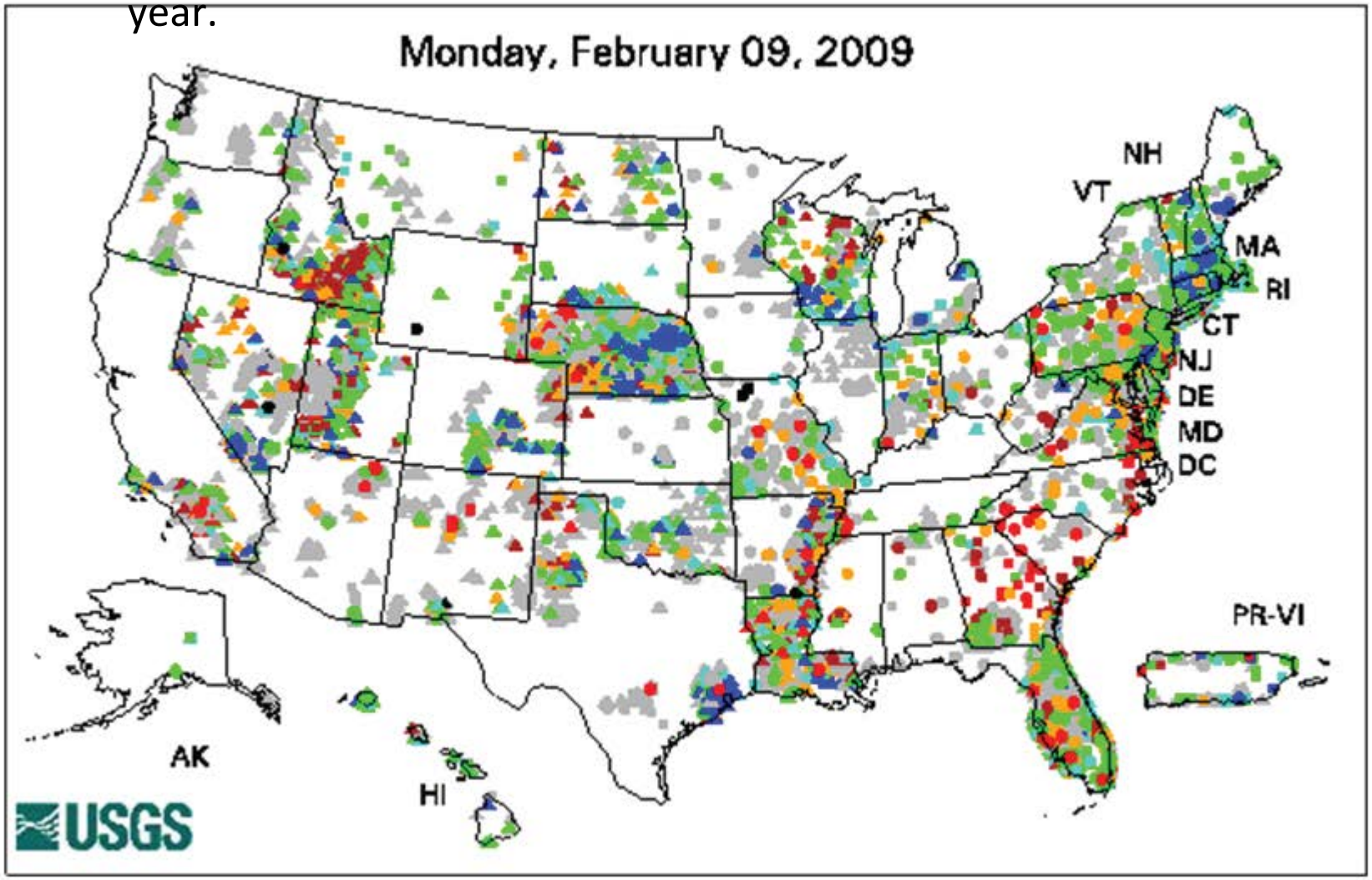

USGS
USGS 13317000 SALMON RIVER AT WHITE BIRD ID
Discharge, cubic feet per second
6000
5000
4000
3000
2000
Dec 13
Dec 20
Dec 27
Jan 03
Jan 10
Jan 17
Jan 24
Jan 31
Feb 07
---- Provisional Data Subject to Revision ----
Median daily statistic (96 years)
Discharge


USGS
USGS 13069500 SNAKE RIVER NR BLACKFOOT ID
Discharge, cubic feet per second
4000
3000
2000
1000
500
Dec 13
Dec 20
Dec 27
Jan 03
Jan 10
Jan 17
Jan 24
Jan 31
Feb 07
---- Provisional Data Subject to Revision ----
Median daily statistic (98 years)
Discharge


USGS
USGS 13269000 SNAKE RIVER AT WEISER ID
Discharge, cubic feet per second
20000
10000
7000
Dec 13
Dec 20
Dec 27
Jan 03
Jan 10
Jan 17
Jan 24
Jan 31
Feb 07
---- Provisional Data Subject to Revision ----
Median daily statistic (98 years)
Measured discharge
Discharge


USGS
USGS 13154500 SNAKE RIVER AT KING HILL ID
Discharge, cubic feet per second
20000
10000
5000
Dec 13
Dec 20
Dec 27
Jan 03
Jan 10
Jan 17
Jan 24
Jan 31
Feb 07
---- Provisional Data Subject to Revision ----
Median daily statistic (99 years)
Measured discharge
Discharge

Ground Water Watch – National map of water levels compared to historical water levels for the month of the year.

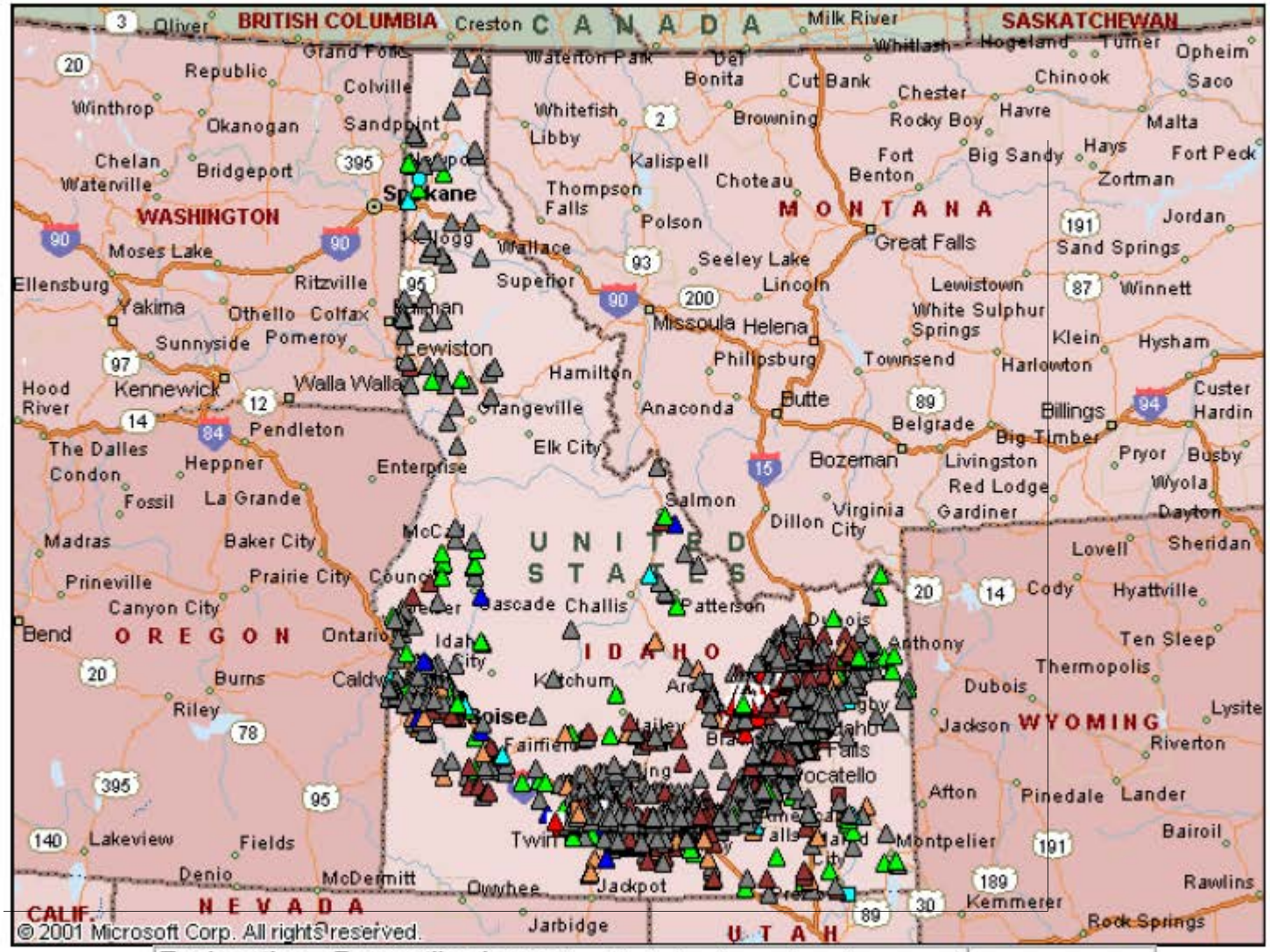


Explanation - Percentile classes (symbol color based on most recent measurement)

New Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	New High	Not Ranked

○ Real Time
□ Continuous
△ Periodic Measurements

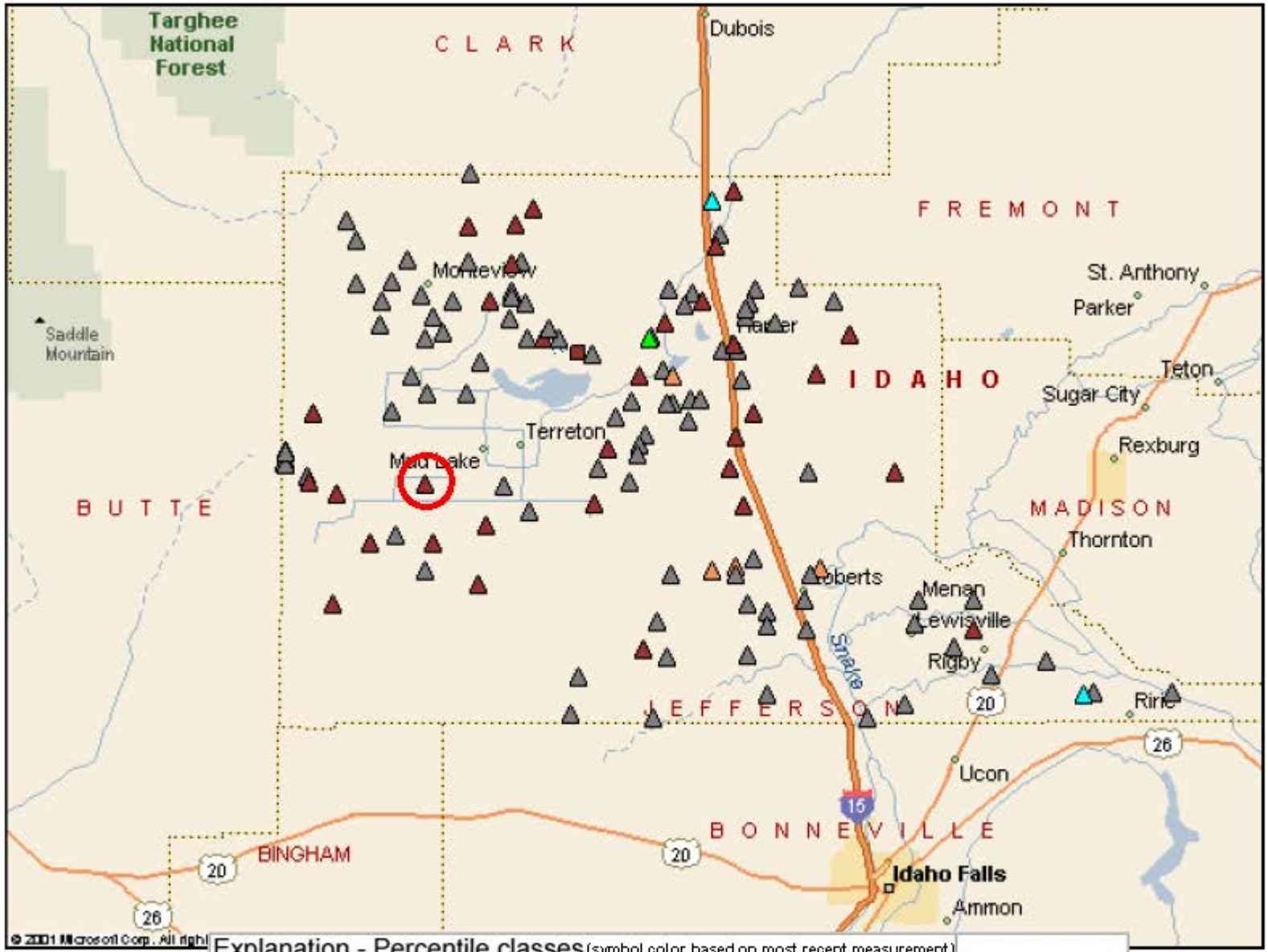
Ground Water Watch – Idaho map of water levels compared to historical water levels for the month of the year.



Explanation - Percentile classes (symbol color based on most recent measurement)

New Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	New High	Not Ranked

○ Real Time
□ Continuous
△ Periodic Measurements



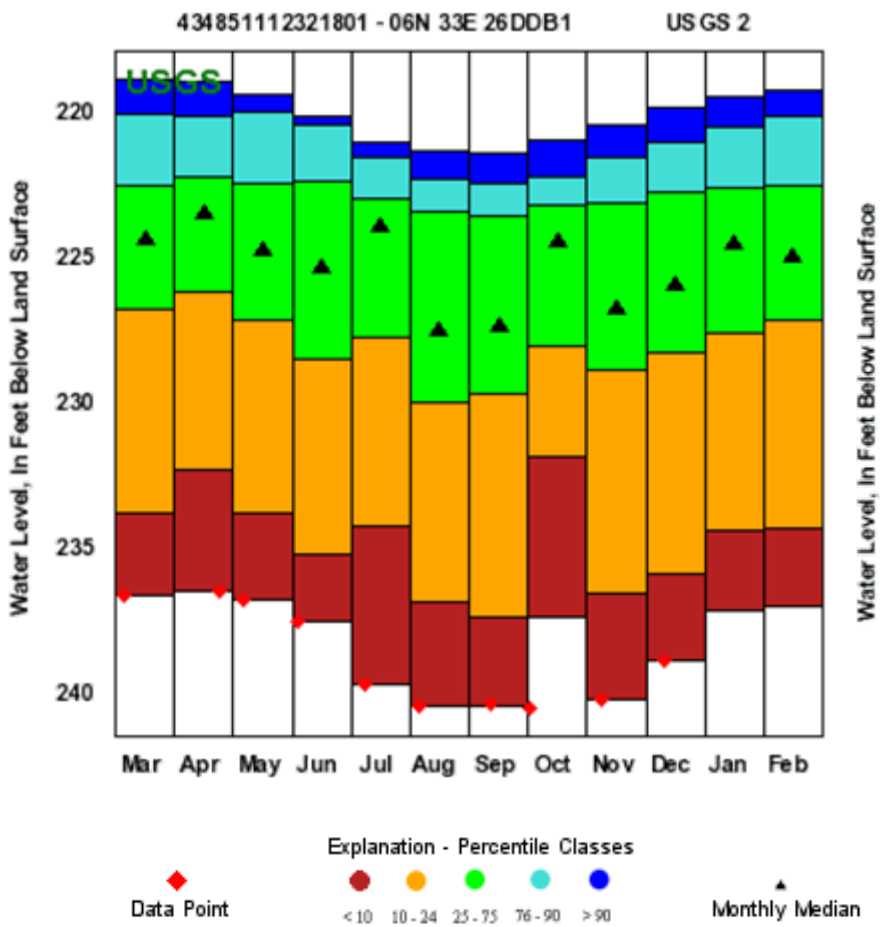
Explanation - Percentile classes (symbol color based on most recent measurement)

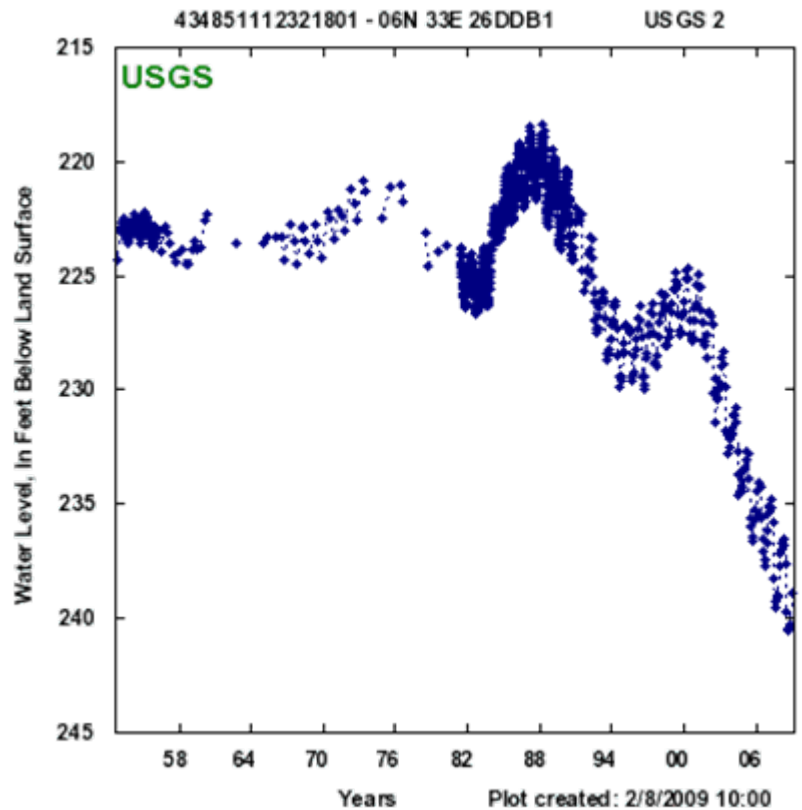
New Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	New High	Not Ranked

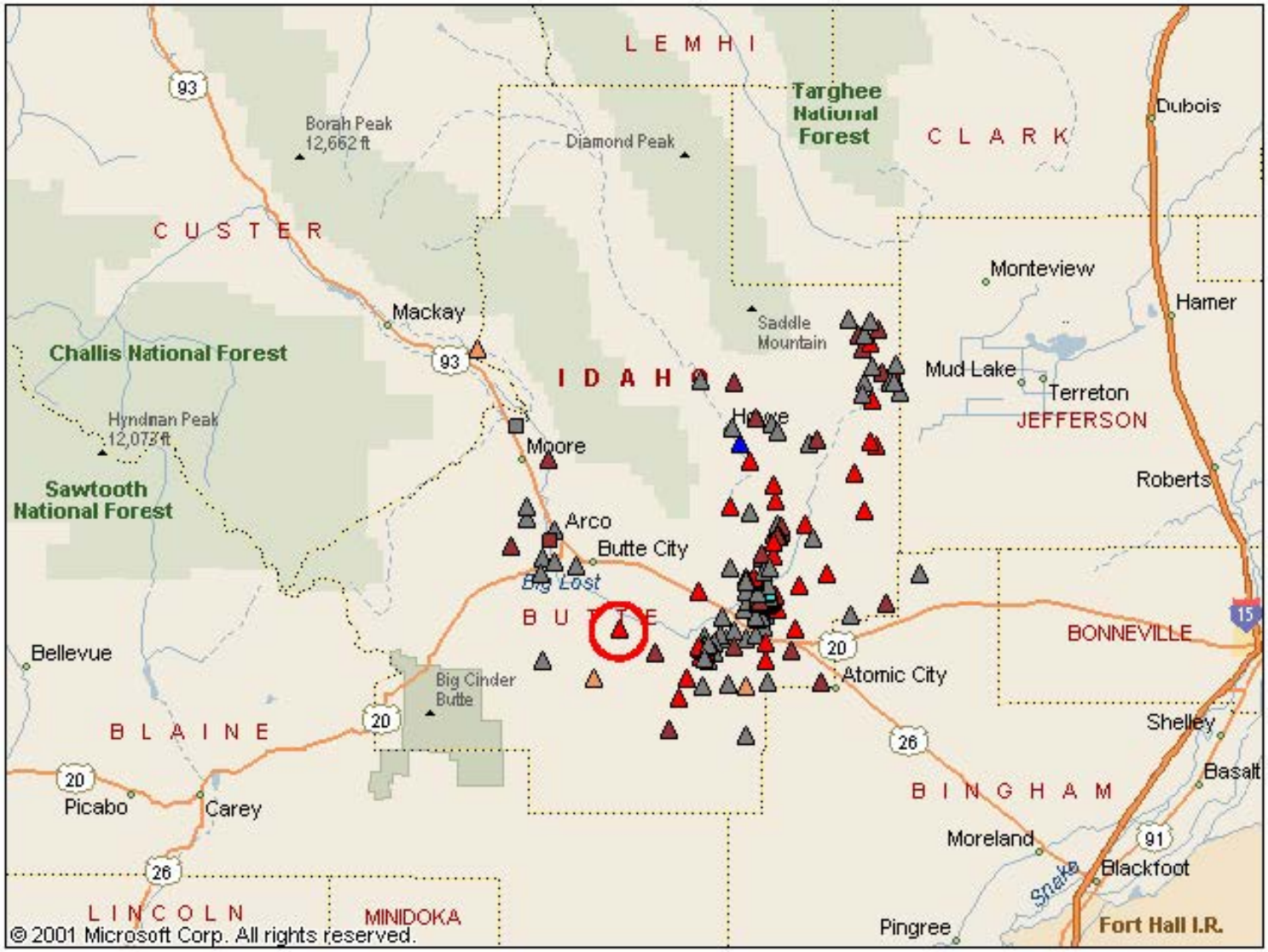
○ Real Time
□ Continuous
△ Periodic Measurements

Latitude 43°48'51.22", Longitude 112°32'18.90" NAD27
Jefferson County, Idaho, Hydrologic Unit 17040215
Land surface altitude: 4,783, Well Depth: 312 feet

Most recent data value: 238.91 feet on 12/08/2008



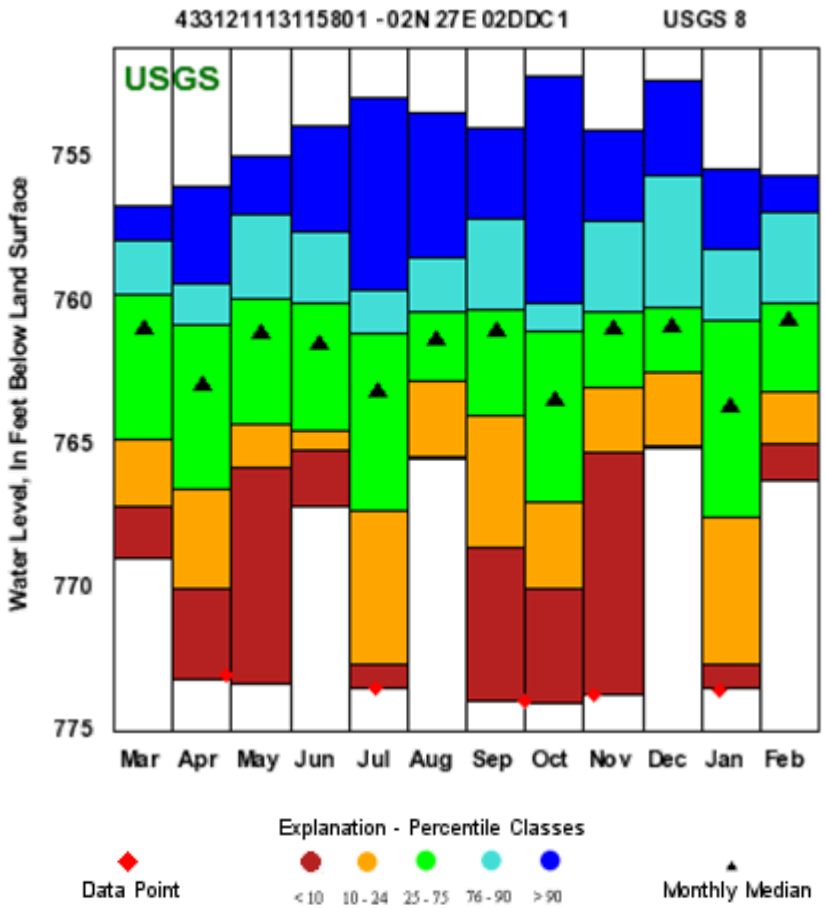


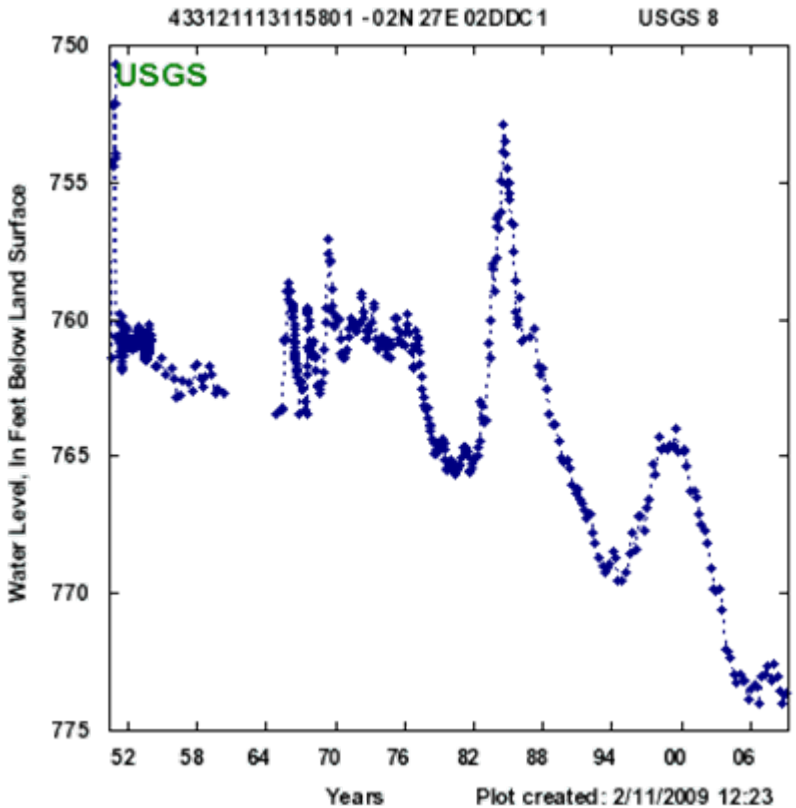


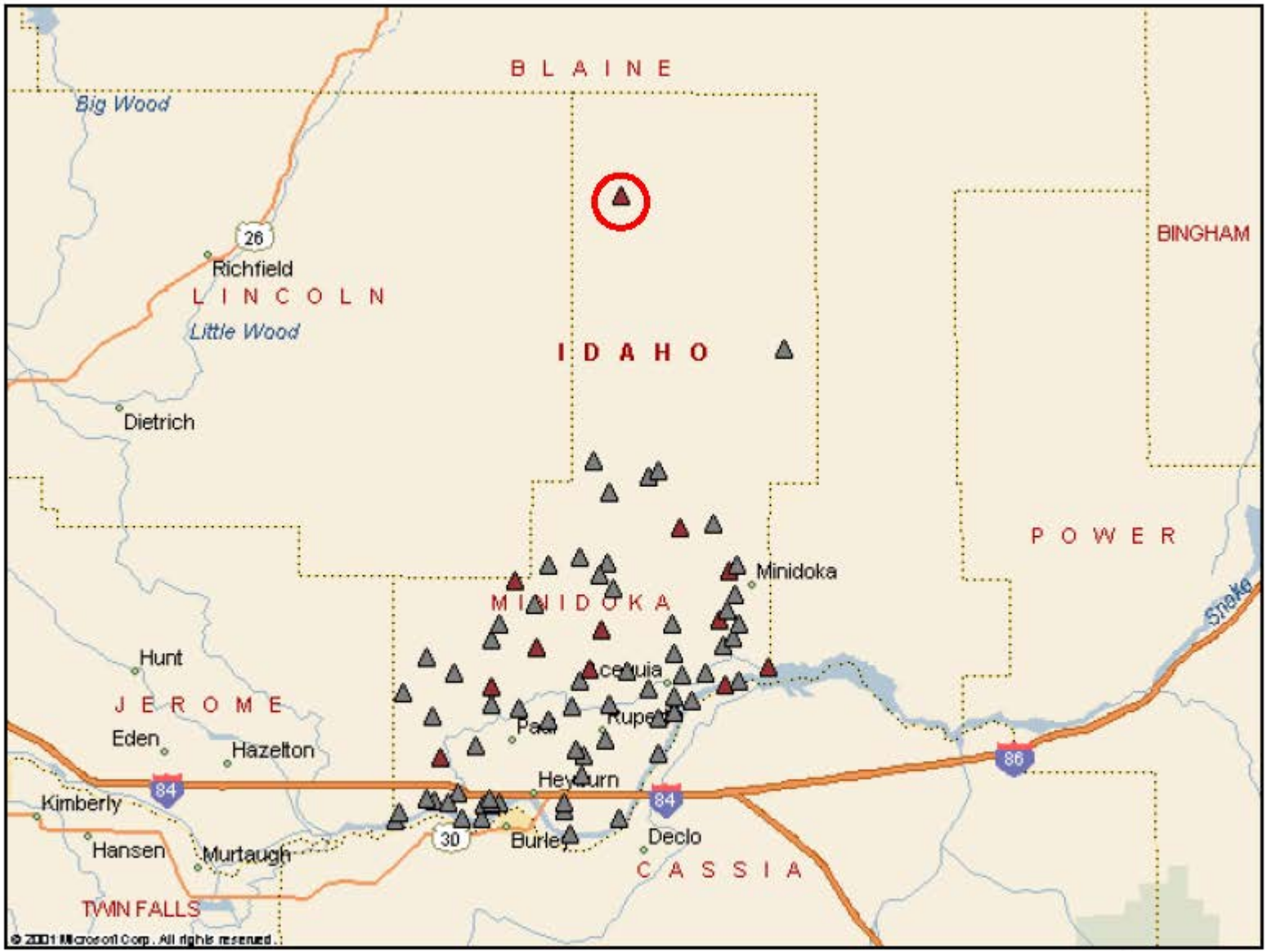
Explanation - Percentile classes (symbol color based on most recent measurement)								
								○ Real Time
								□ Continuous
New Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	New High	Not Ranked	△ Periodic Measurements

Latitude 43°31'20.51", Longitude 113°11'57.43"Butte County, Idaho, Hydrologic Unit 17040218
Land surface altitude: 5,194.94 feet above sea level NGVD29.
Well completed in "SNAKE RIVER GROUP" Well Depth 860 feet

Most recent data value: 773.60 on 1/7/2009





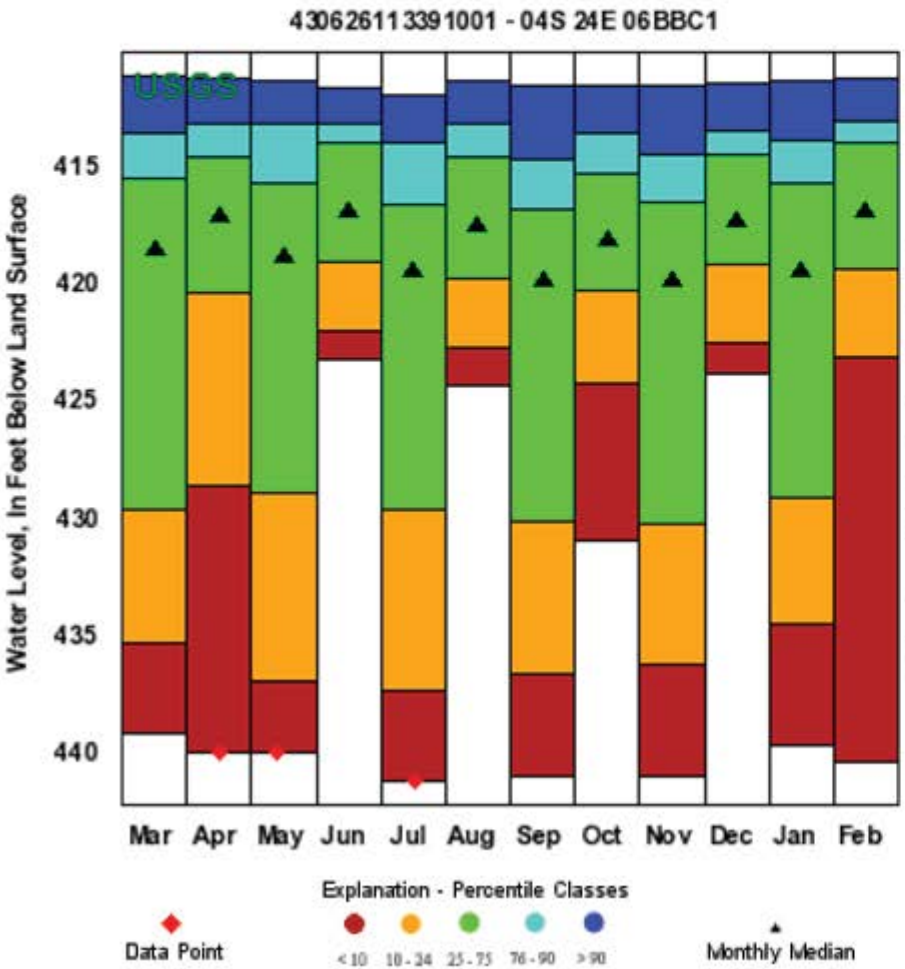


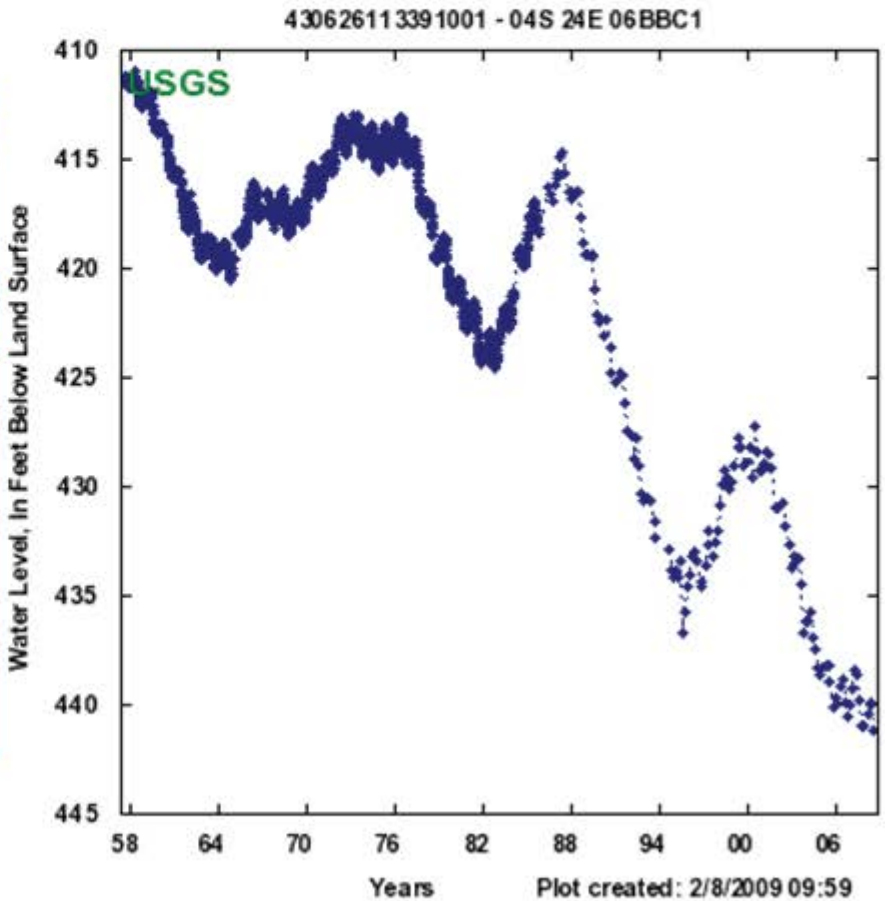
Explanation - Percentile classes (symbol color based on most recent measurement)								
New Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	New High	Not Ranked	○ Real Time □ Continuous △ Periodic Measurements

Latitude 43°06'26.0", Longitude 113°39'10.08“ Minidoka County, Idaho, Hydrologic Unit 17040209
Land surface altitude: 4,493.44 feet above sea level NGVD29.
Well completed in "SNAKE RIVER GROUP" Well Depth: **443.7** feet

Note: The most recent measurement on 10/20/2008 has the following status: **'The well was dry (no water level is recorded)**.'

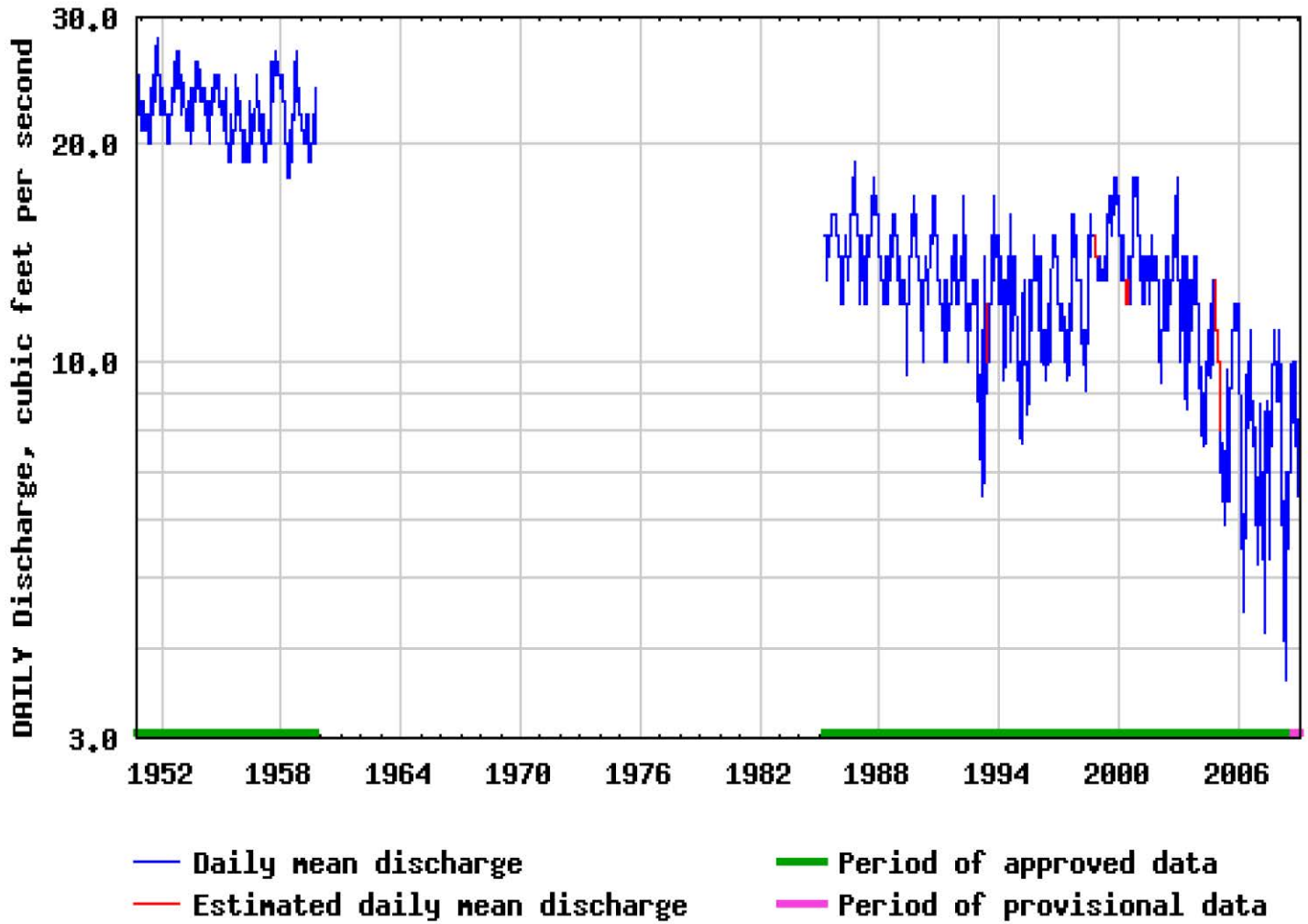
Most recent data value: 441.19 on 7/16/2008

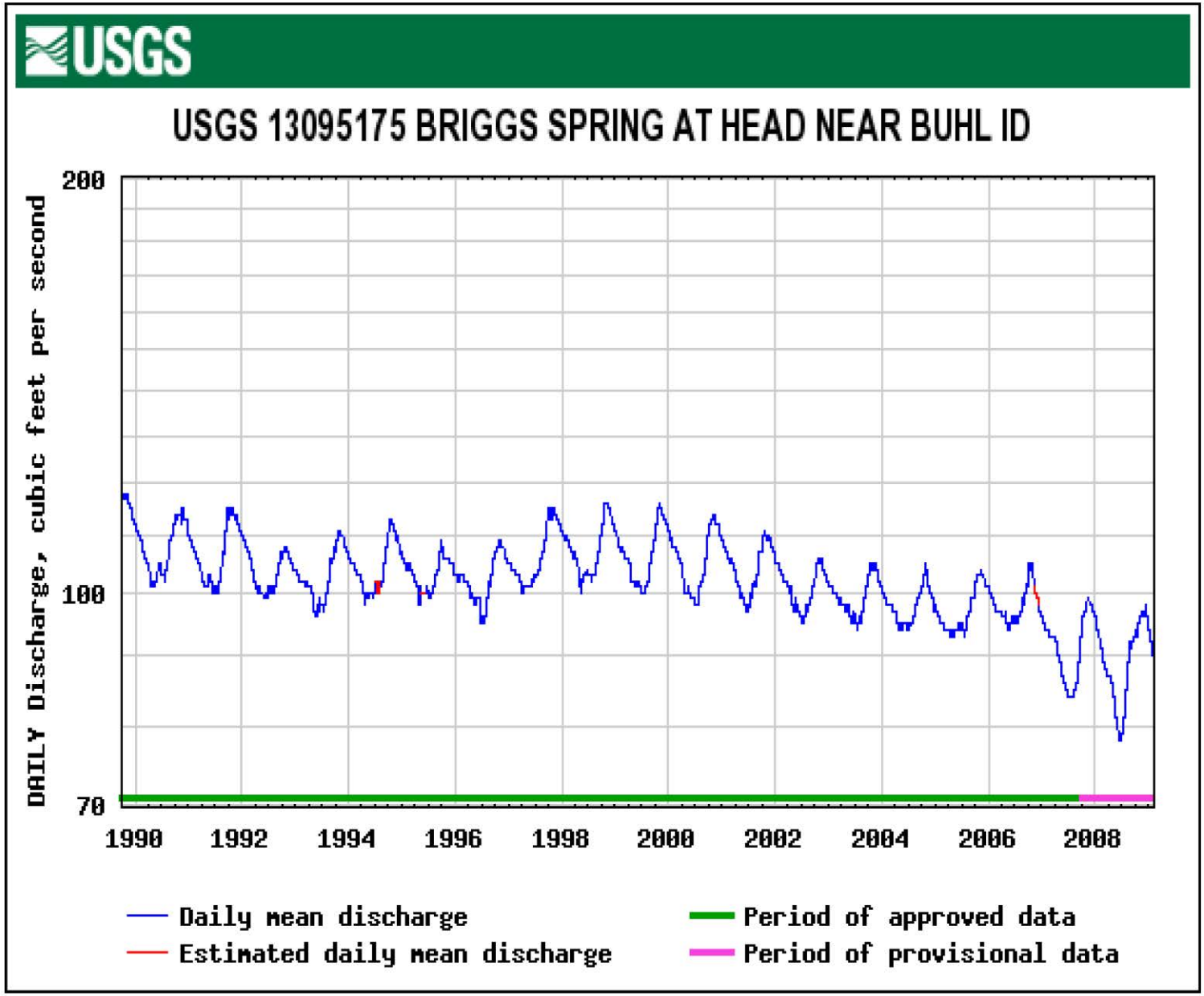




USGS

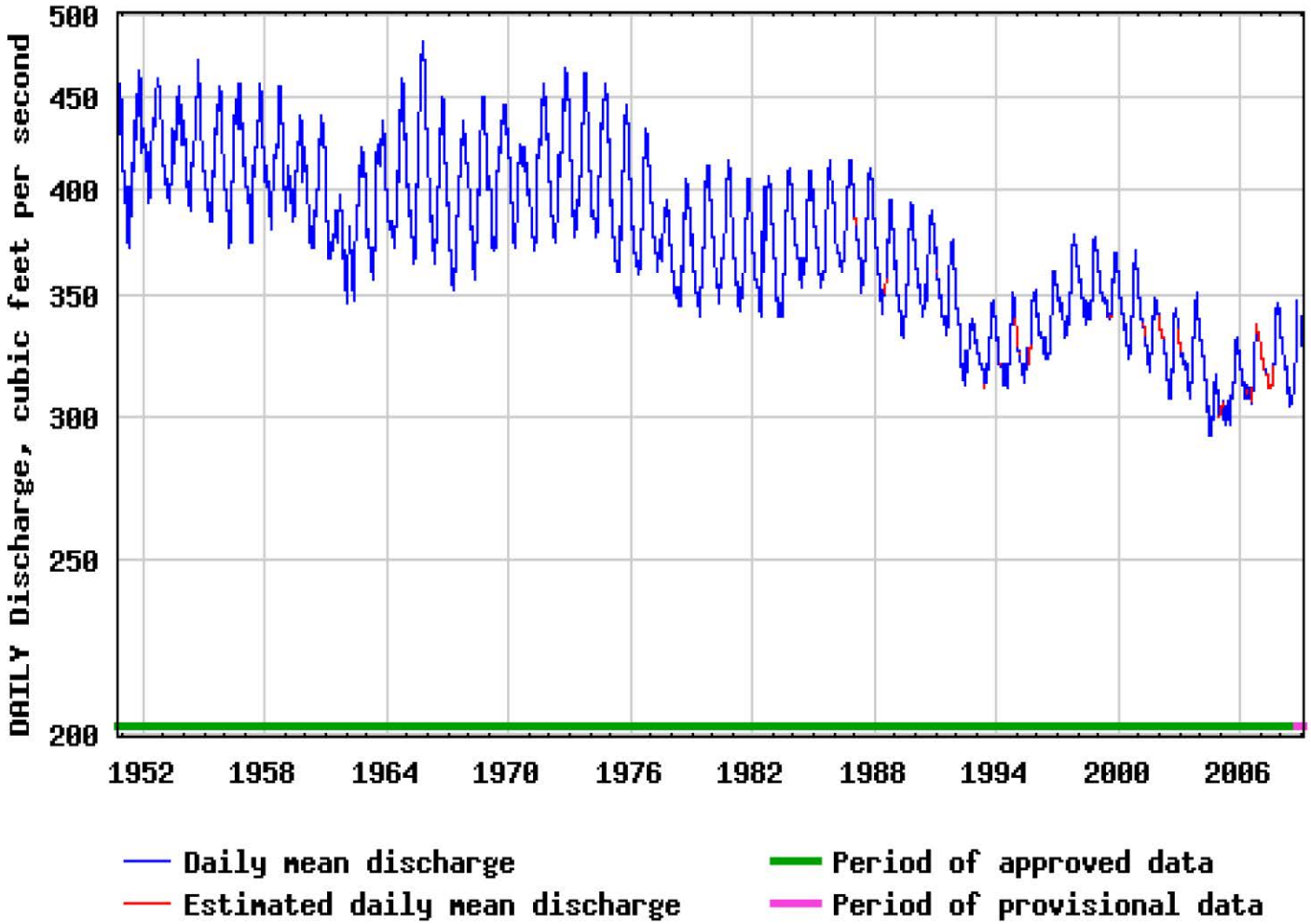
USGS 13089500 DEVILS WASHBOWL SPRING NR KIMBERLY 10S 18E 04AAD1S

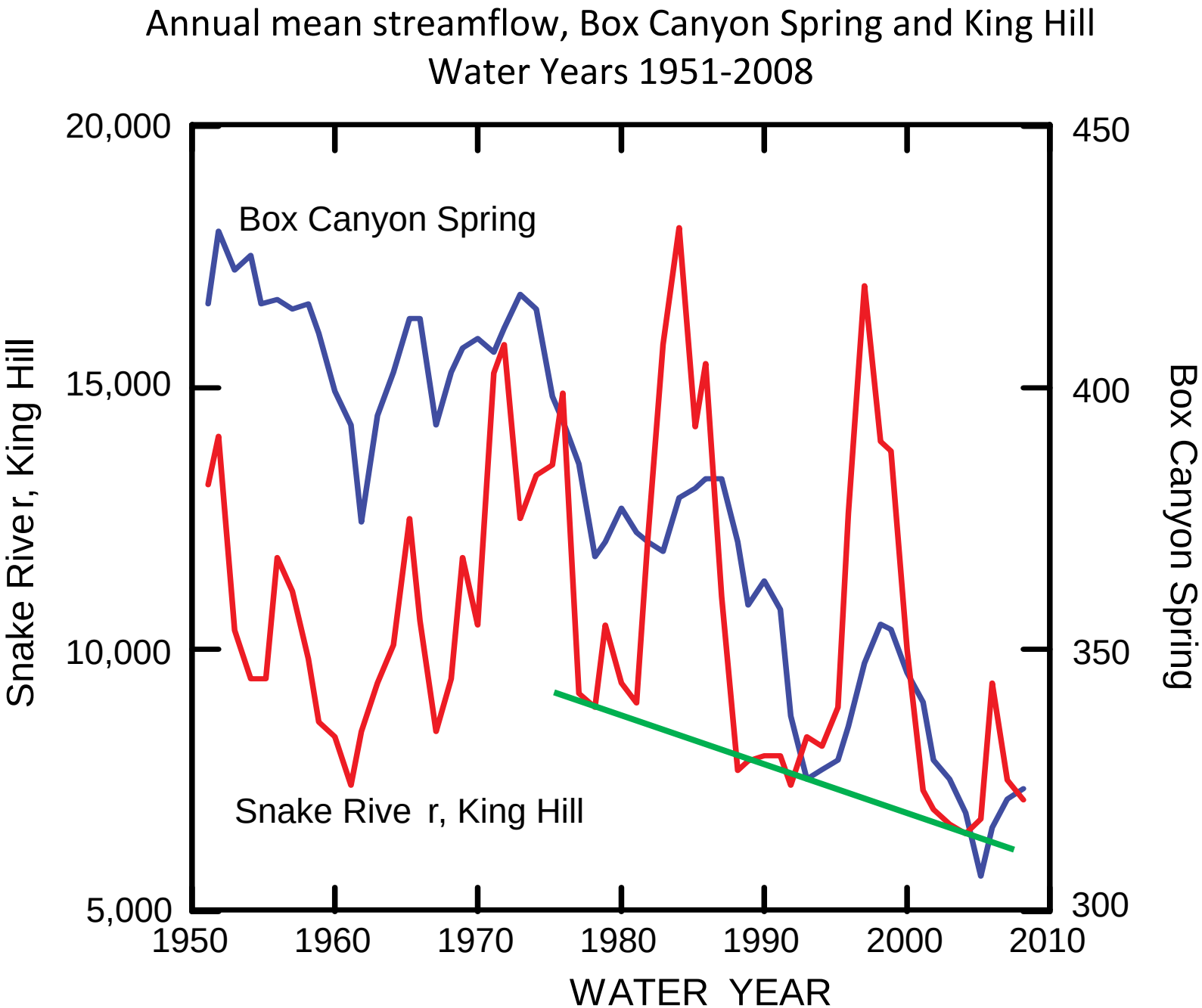



USGS
USGS 13095175 BRIGGS SPRING AT HEAD NEAR BUHL ID
DAILY Discharge, cubic feet per second
200
100
70
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
Daily mean discharge
Estimated daily mean discharge
Period of approved data
Period of provisional data

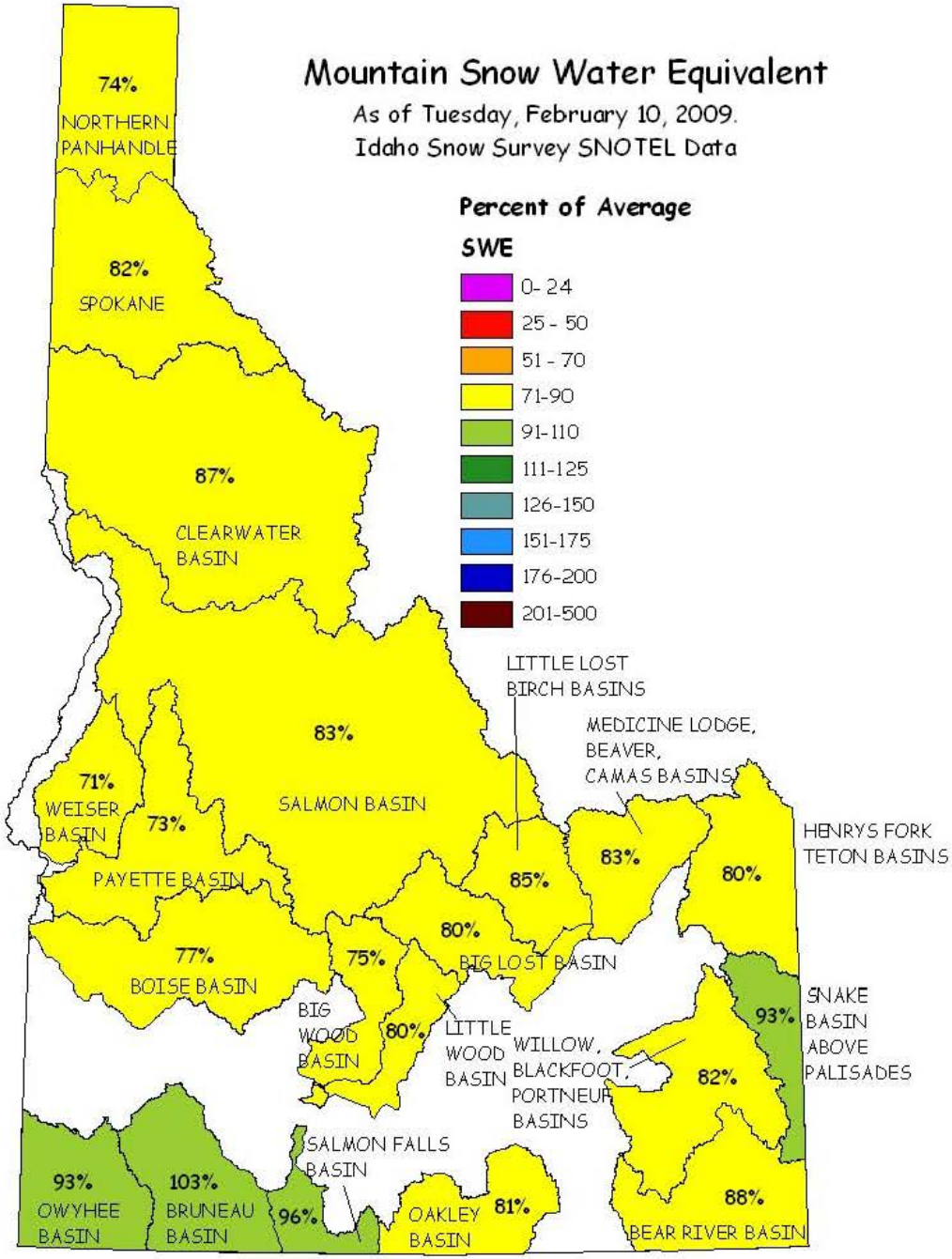
USGS

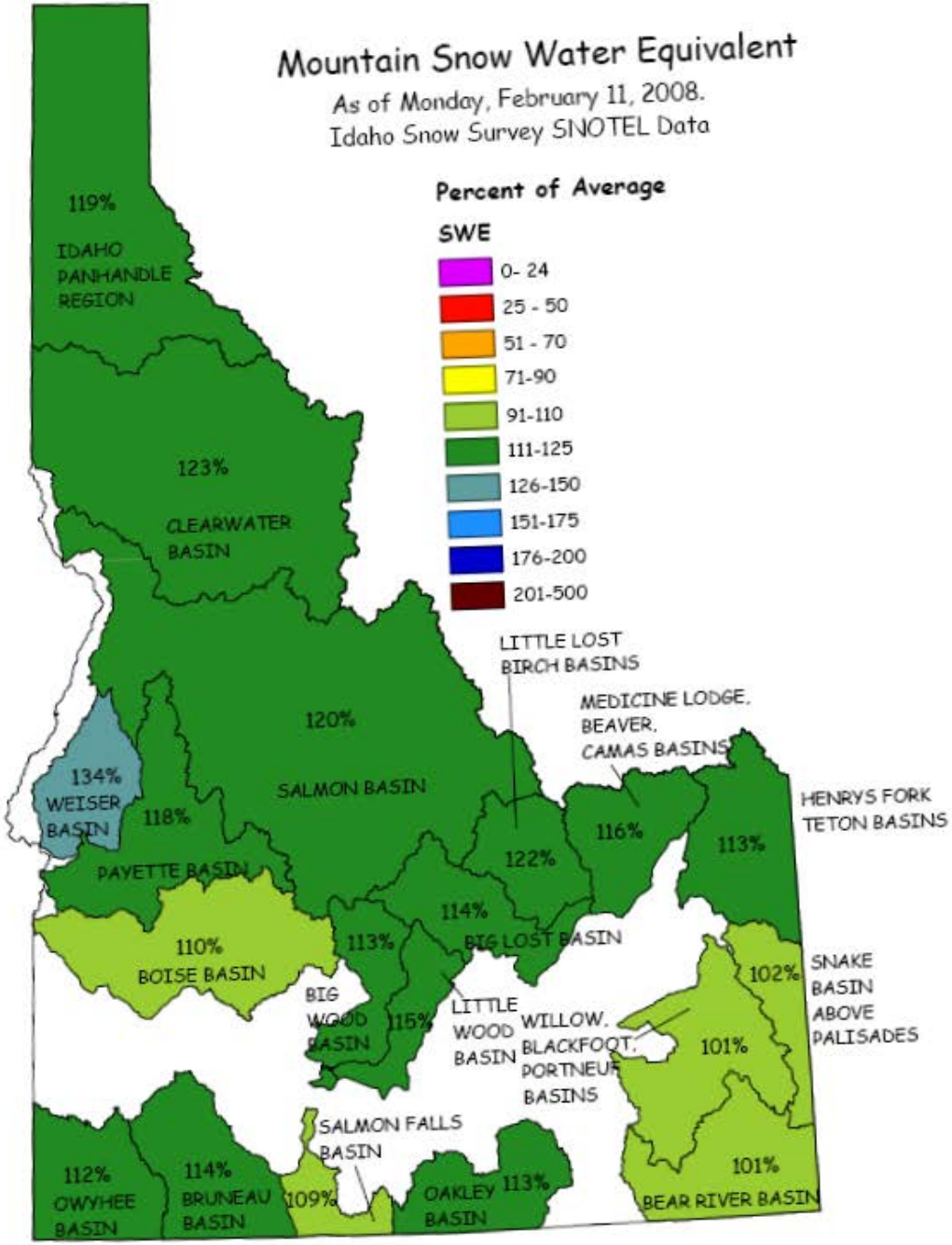
USGS 13095500 BOX CANYON SPRINGS NR WENDELL ID

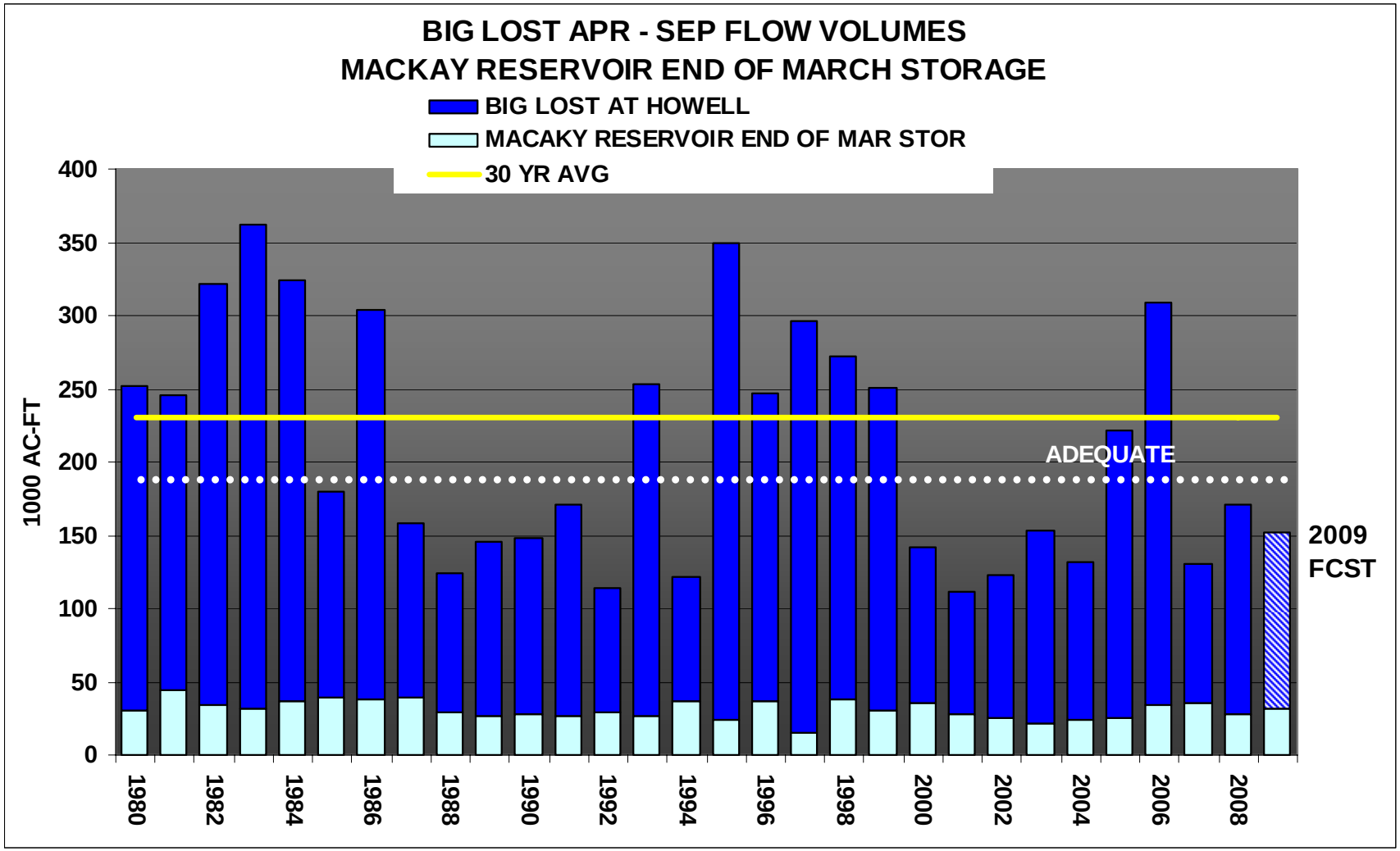



Annual mean streamflow, Box Canyon Spring and King Hill
Water Years 1951-2008
Box Canyon Spring
Snake Rive r, King Hill
Snake River, King Hill
Box Canyon Spring
WATER YEAR
20,000
15,000
10,000
5,000
450
400
350
300
1950
1960
1970
1980
1990
2000
2010

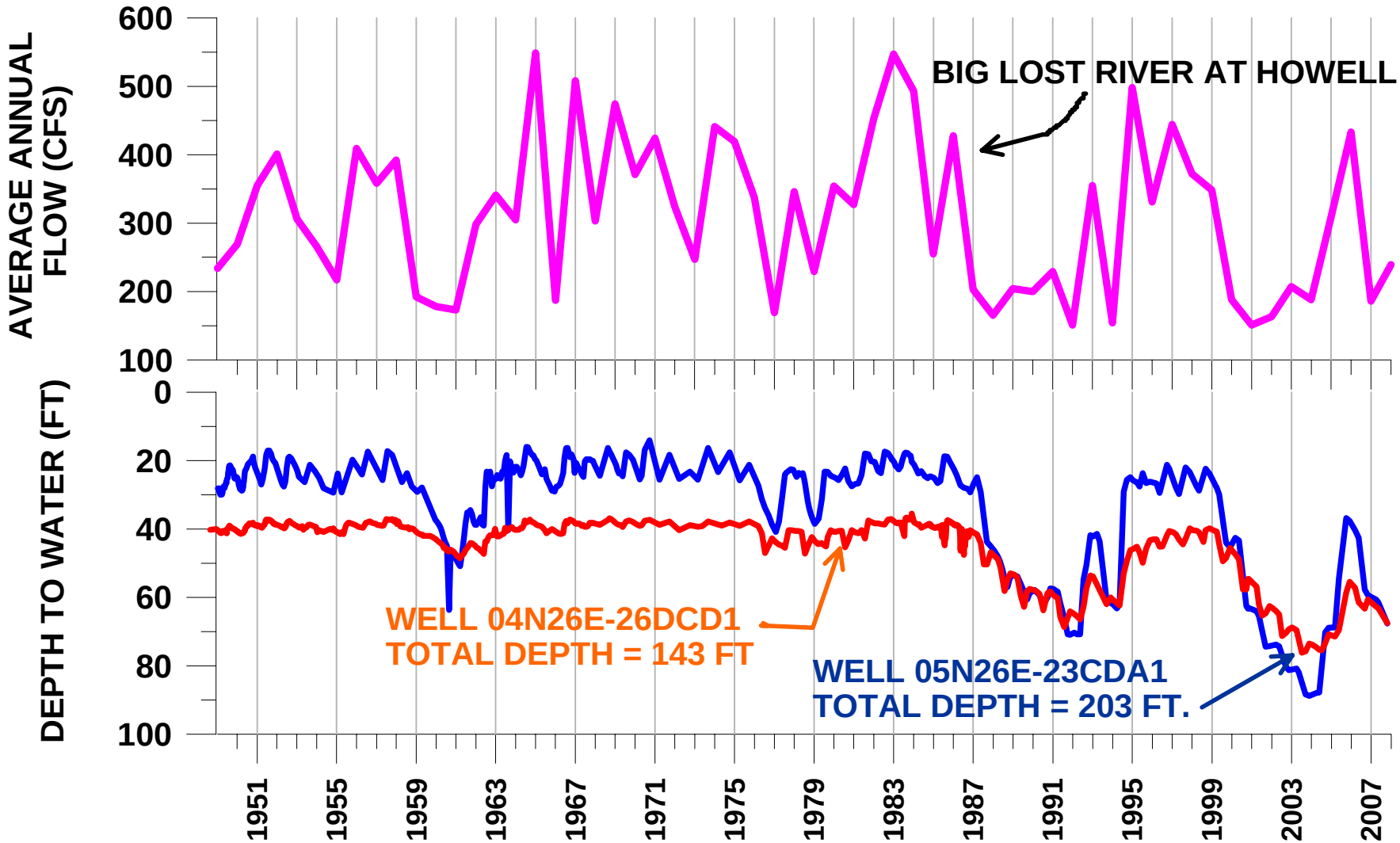
February 2009
Water Supply Committee

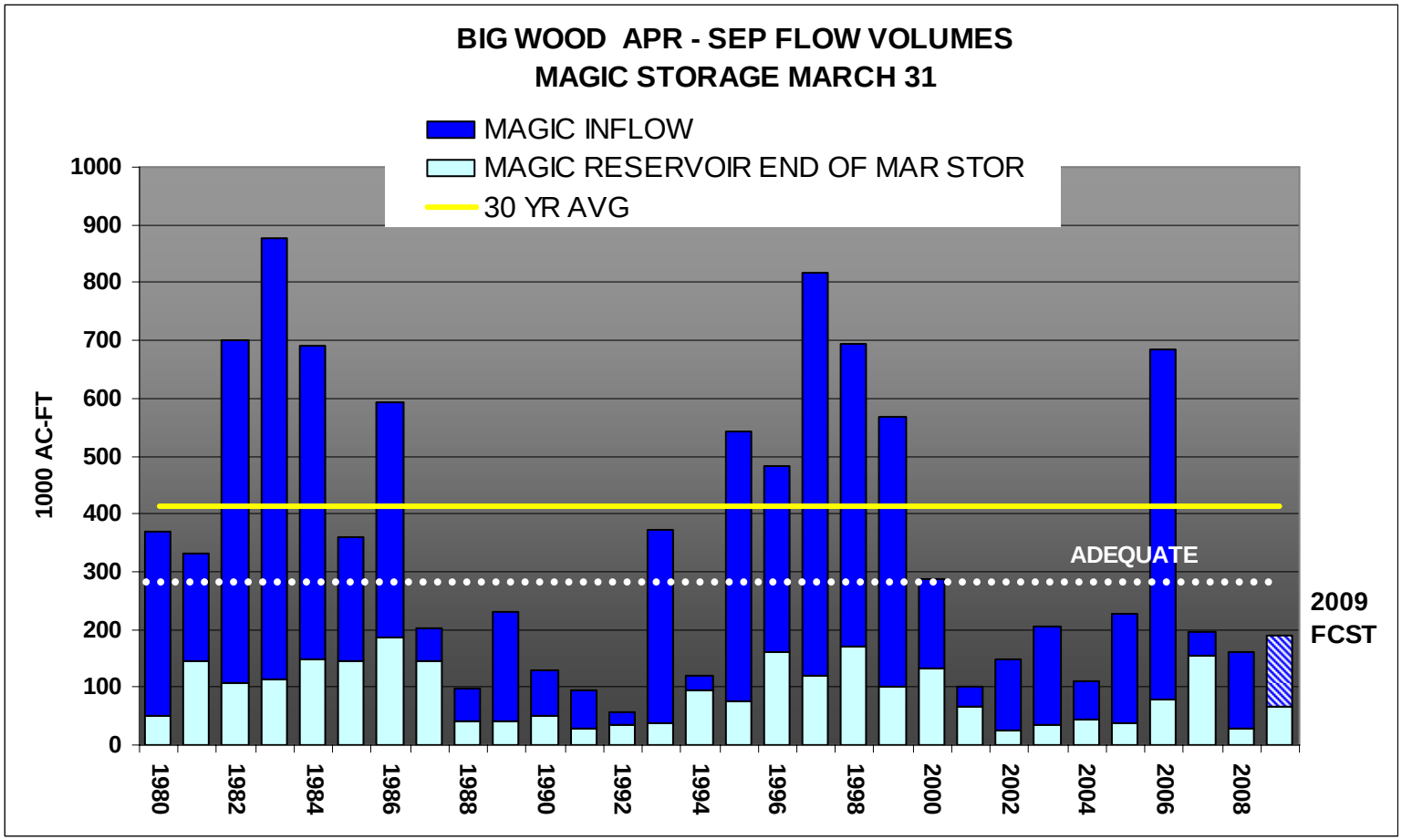

Mountain Snow Water Equivalent
As of Tuesday, February 10, 2009.
Idaho Snow Survey SNOTEL Data
Percent of Average
SWE
0- 24
25 - 50
51 - 70
71-90
91-110
111-125
126-150
151-175
176-200
201-500
74%
NORTHERN PANHANDLE
82%
SPOKANE
87%
CLEARWATER BASIN
83%
SALMON BASIN
71%
WEISER BASIN
73%
PAYETTE BASIN
77%
BOISE BASIN
75%
BIG WOOD BASIN
80%
LITTLE WOOD BASIN
80%
BIG LOST BASIN
85%
LITTLE LOST BIRCH BASINS
83%
MEDICINE LODGE, BEAVER, CAMAS BASINS
80%
HENRYS FORK TETON BASINS
93%
SNAKE BASIN ABOVE PALISADES
82%
WILLOW, BLACKFOOT, PORTNEUF BASINS
88%
BEAR RIVER BASIN
81%
OAKLEY BASIN
96%
SALMON FALLS BASIN
93%
OWYHEE BASIN
103%
BRUNEAU BASIN


Mountain Snow Water Equivalent
As of Monday, February 11, 2008.
Idaho Snow Survey SNOTEL Data
Percent of Average
SWE
0- 24
25 - 50
51 - 70
71-90
91-110
111-125
126-150
151-175
176-200
201-500
119%
IDAHO PANHANDLE REGION
123%
CLEARWATER BASIN
120%
SALMON BASIN
134%
WEISER BASIN
118%
PAYETTE BASIN
110%
BOISE BASIN
LITTLE LOST BIRCH BASINS
MEDICINE LODGE, BEAVER, CAMAS BASINS
122%
116%
113%
HENRYS FORK TETON BASINS
114%
BIG LOST BASIN
113%
BIG WOOD BASIN
115%
LITTLE WOOD BASIN
WILLOW, BLACKFOOT, PORTNEUF BASINS
102%
SNAKE BASIN ABOVE PALISADES
101%
101%
BEAR RIVER BASIN
SALMON FALLS BASIN
109%
OAKLEY BASIN
113%
112%
OWYHEE BASIN
114%
BRUNEAU BASIN

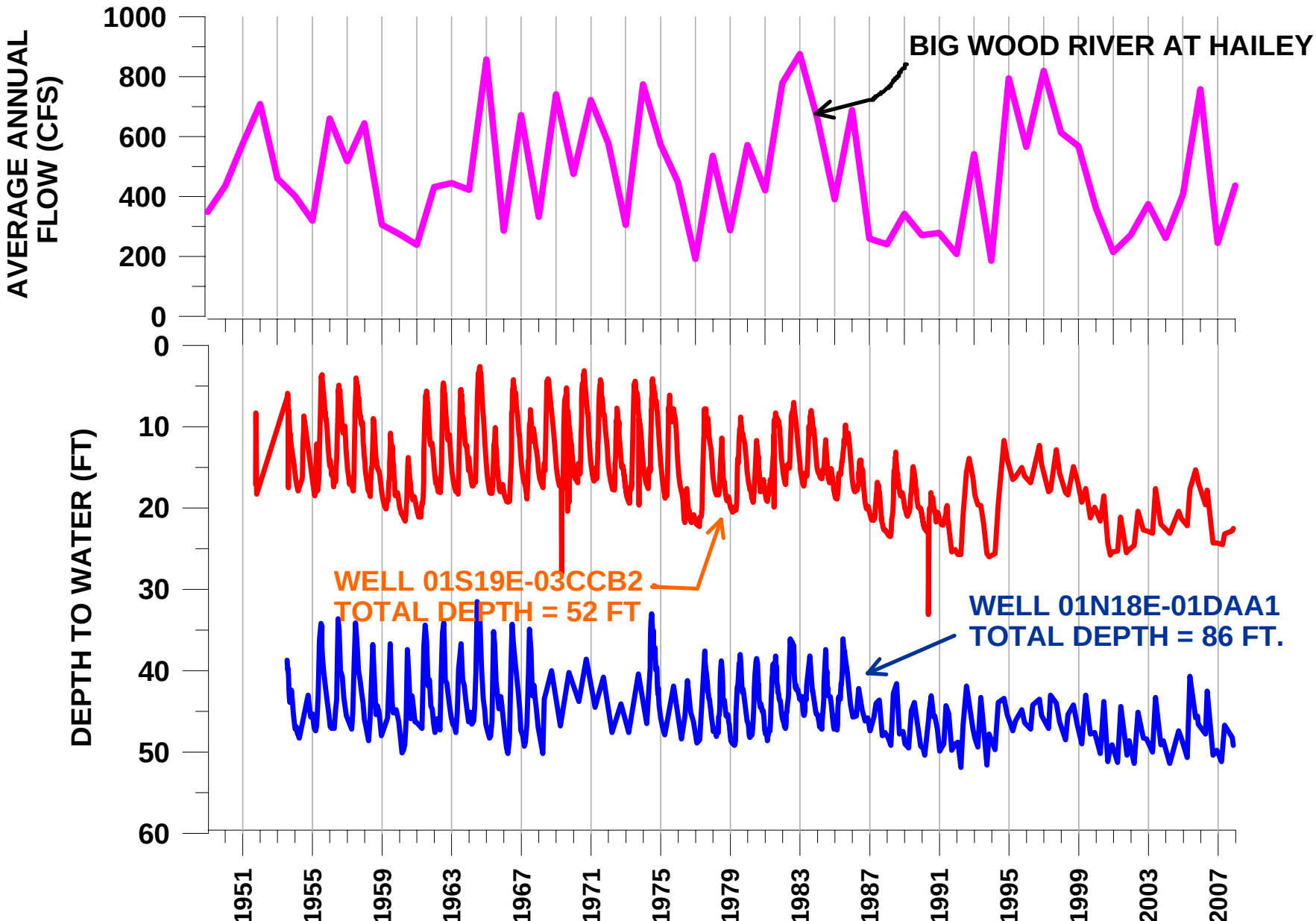
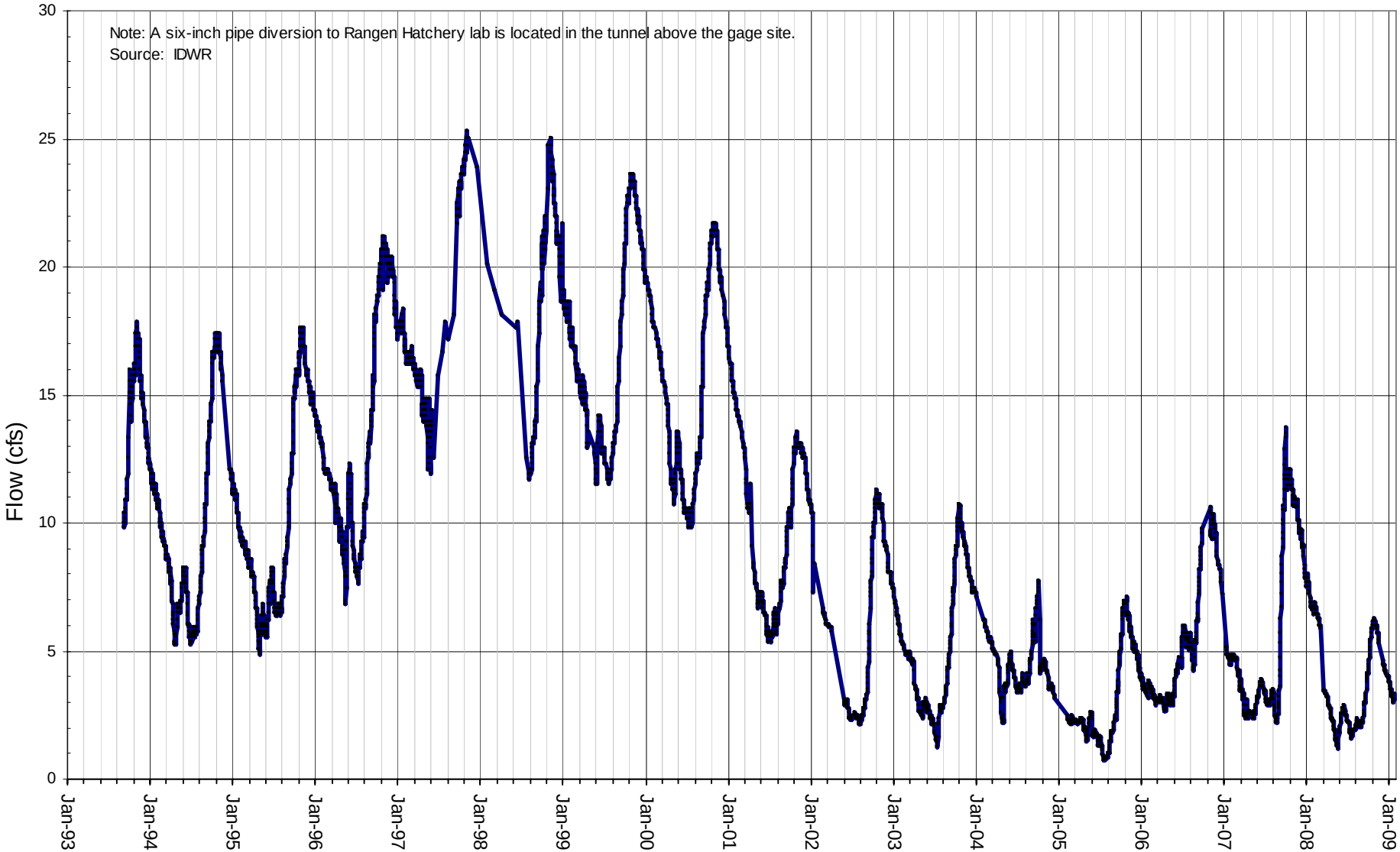
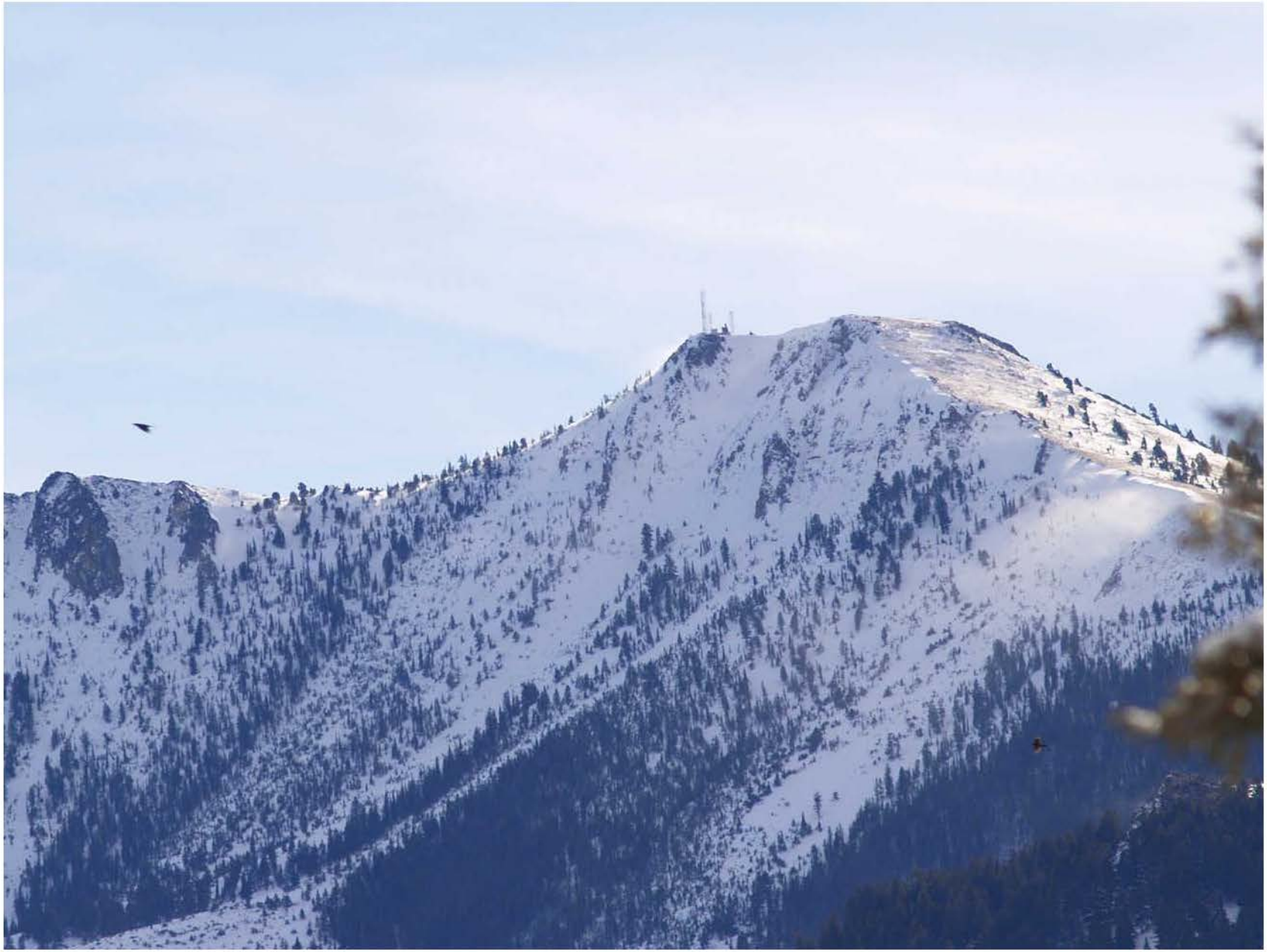

BIG LOST APR - SEP FLOW VOLUMES
MACKAY RESERVOIR END OF MARCH STORAGE
BIG LOST AT HOWELL
MACAKY RESERVOIR END OF MAR STOR
30 YR AVG
1000 AC-FT
400
350
300
250
200
150
100
50
0
ADEQUATE
2009
FCST
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008

BIG LOST RIVER AT HOWELL COMPARISON WITH DEPTH TO WATER IN SELECTED WELLS




BIG WOOD APR - SEP FLOW VOLUMES
MAGIC STORAGE MARCH 31
MAGIC INFLOW
MAGIC RESERVOIR END OF MAR STOR
30 YR AVG
1000 AC-FT
1000
900
800
700
600
500
400
300
200
100
0
ADEQUATE
2009
FCST
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008

BIG WOOD RIVER AT HAILEY COMPARISON WITH DEPTH TO WATER IN SELECTED WELLS



Curren Tunnel Average Daily Flow Rate
September 8, 1993 to January 23, 2009