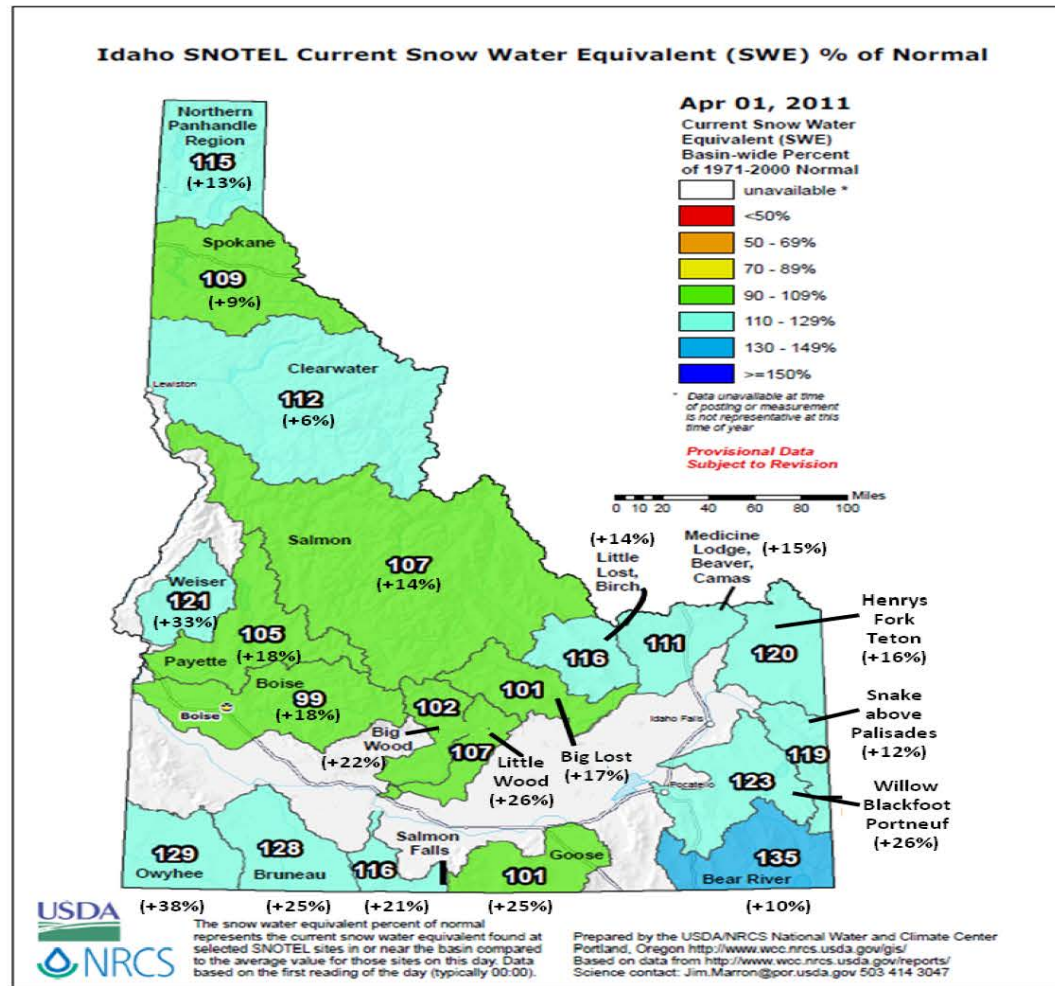


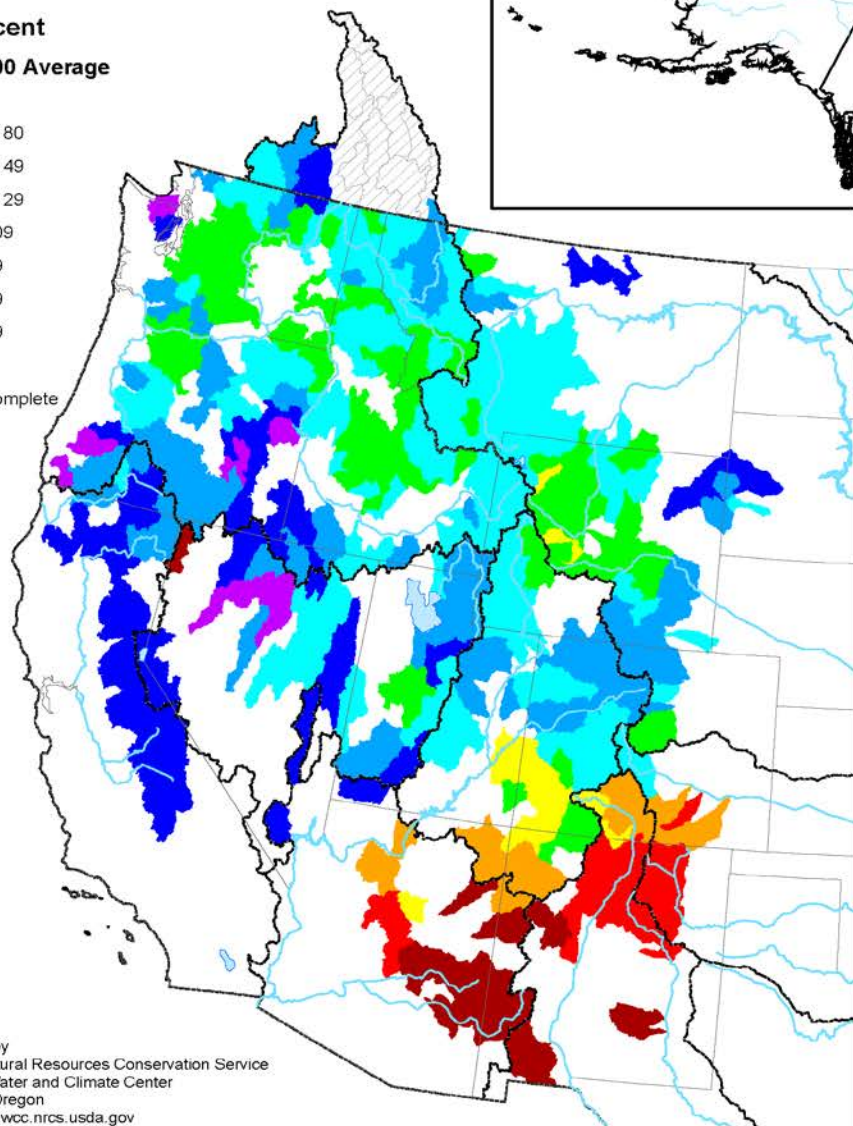
Idaho Water Supply Outlook Report April 1, 2011



Up to twice the normal monthly precipitation fell in March, breaking records at some SNOTEL sites. The above map shows the April 1 snowpack as percent of normal based on SNOTEL data, as well as, the percent increase since March 1 in parentheses. Snowpacks saw a dramatic increase of 15-38% across most of Idaho, ensuring what should be an adequate water supply statewide this summer.

Mountain Snowpack as of April 1, 2011

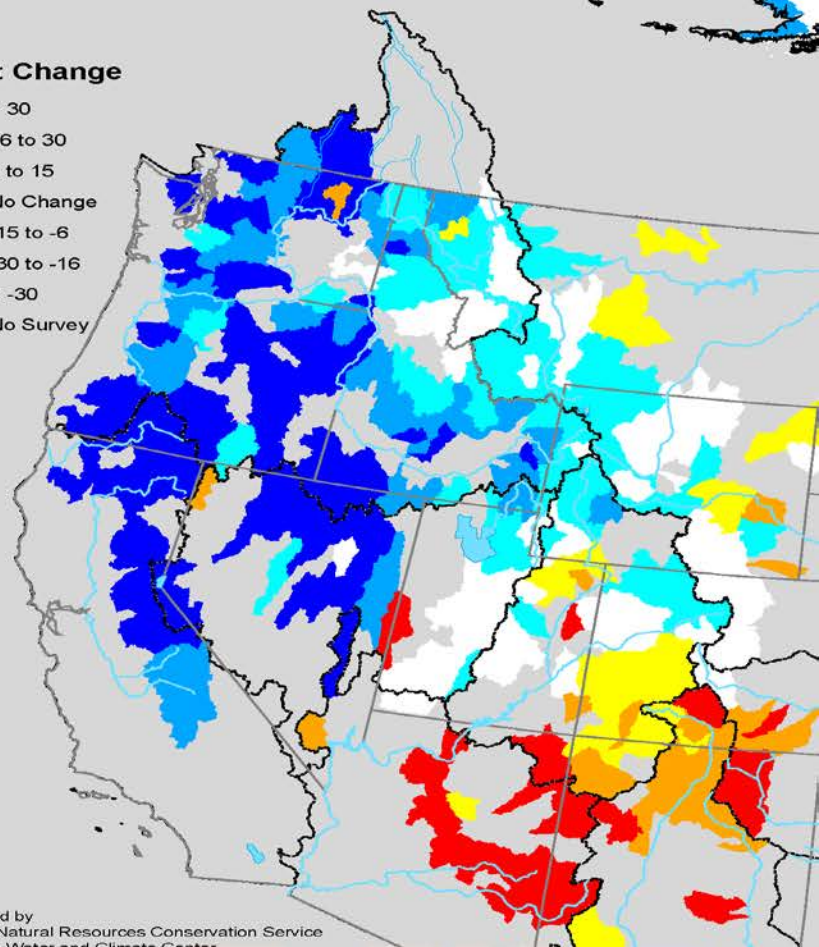
Percent
1971 to 2000 Average



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

Mountain Snowpack Change between March 1 and April 1

Percent Change



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

SNOTEL Current Snow Water Equivalent (SWE) Records

Apr 06, 2011

Current Snow Water (SWE) Equivalent Records

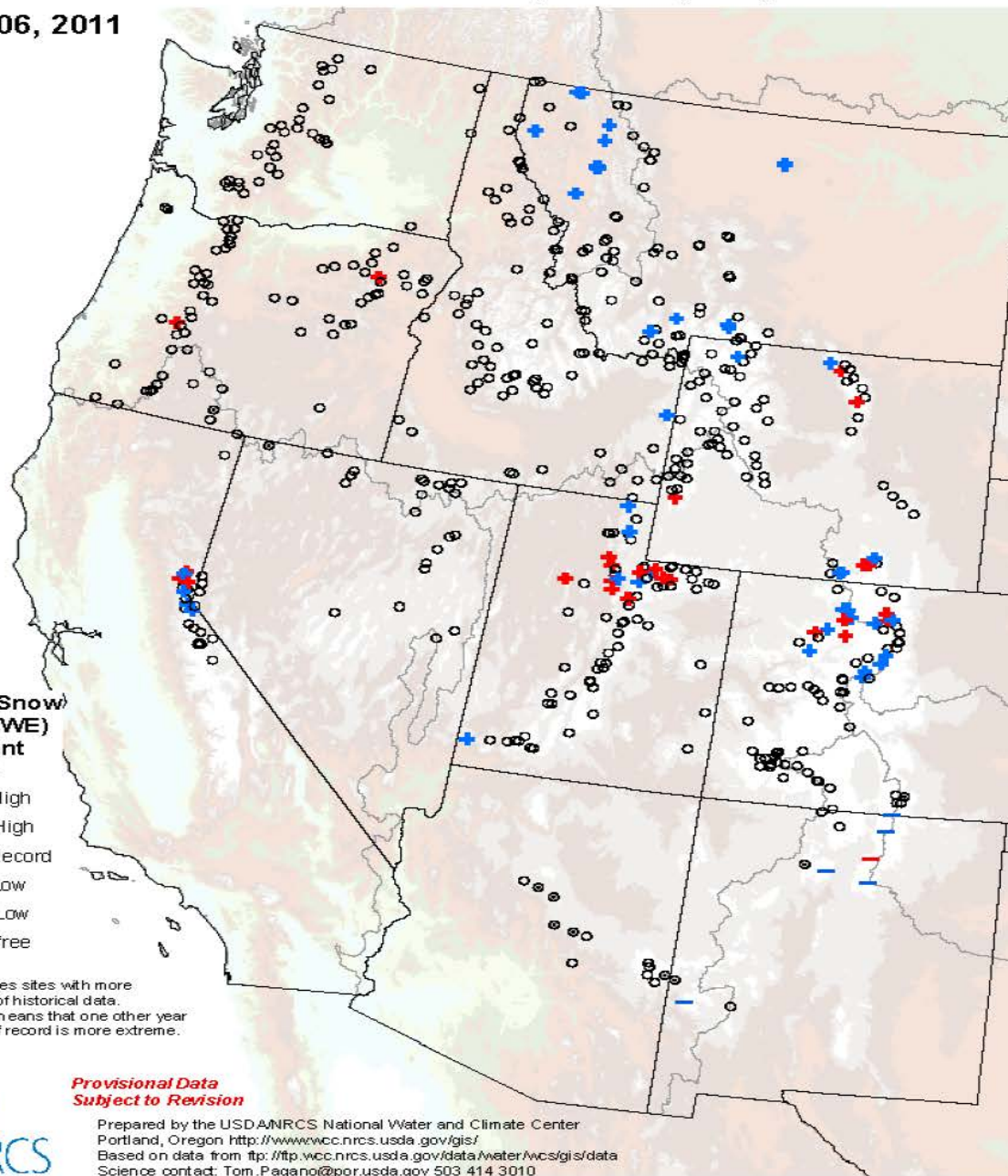
- + New High
- + Near High
- o Non-Record
- New Low
- Near Low
- snow free

Analysis includes sites with more than 20 years of historical data.
"Near" record means that one other year of the period of record is more extreme.



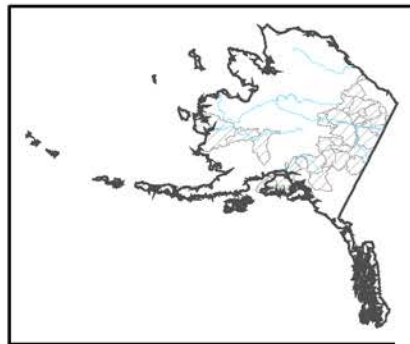
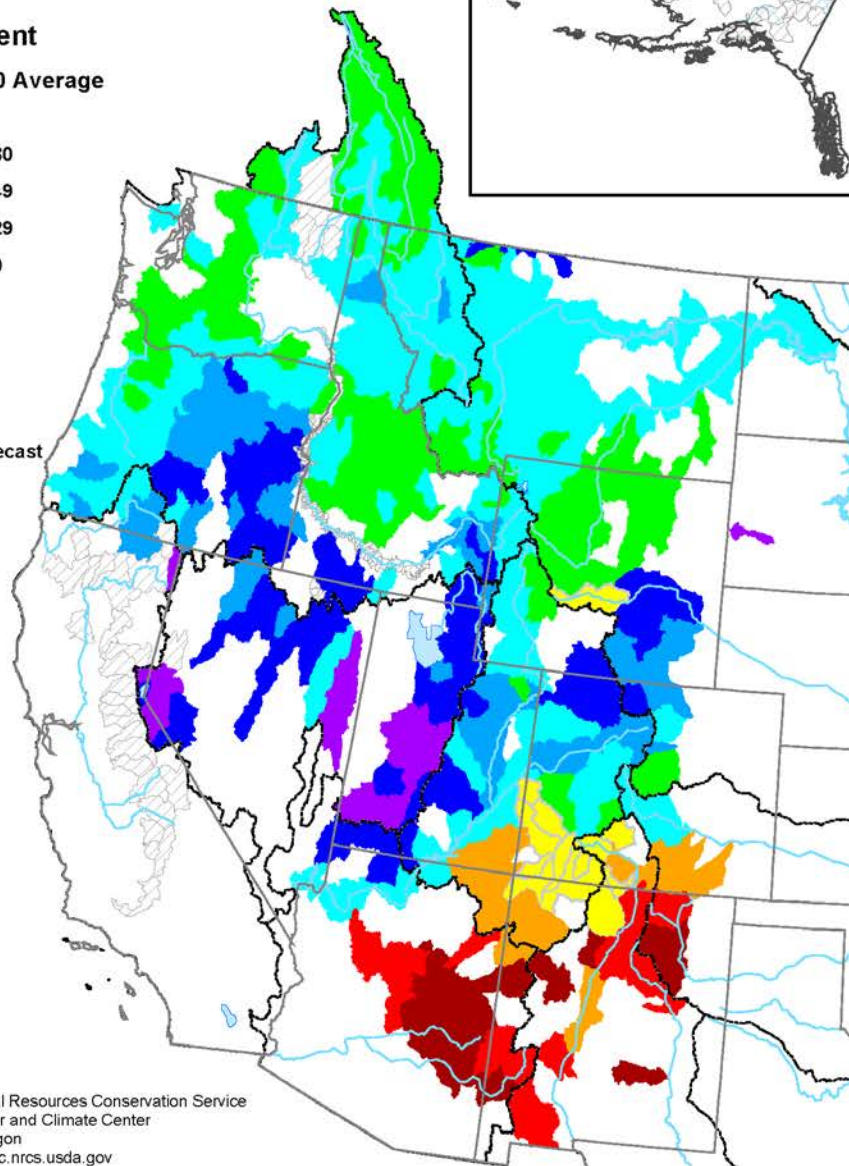
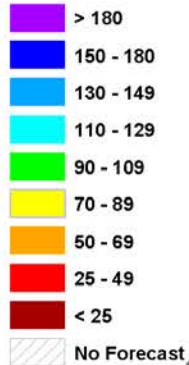
**Provisional Data
Subject to Revision**

Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon <http://www.wcc.nrcs.usda.gov/gis/>
Based on data from <http://ftp.wcc.nrcs.usda.gov/data/water/wcc/gis/data>
Science contact: Tom.Pagano@por.usda.gov 503 414 3010

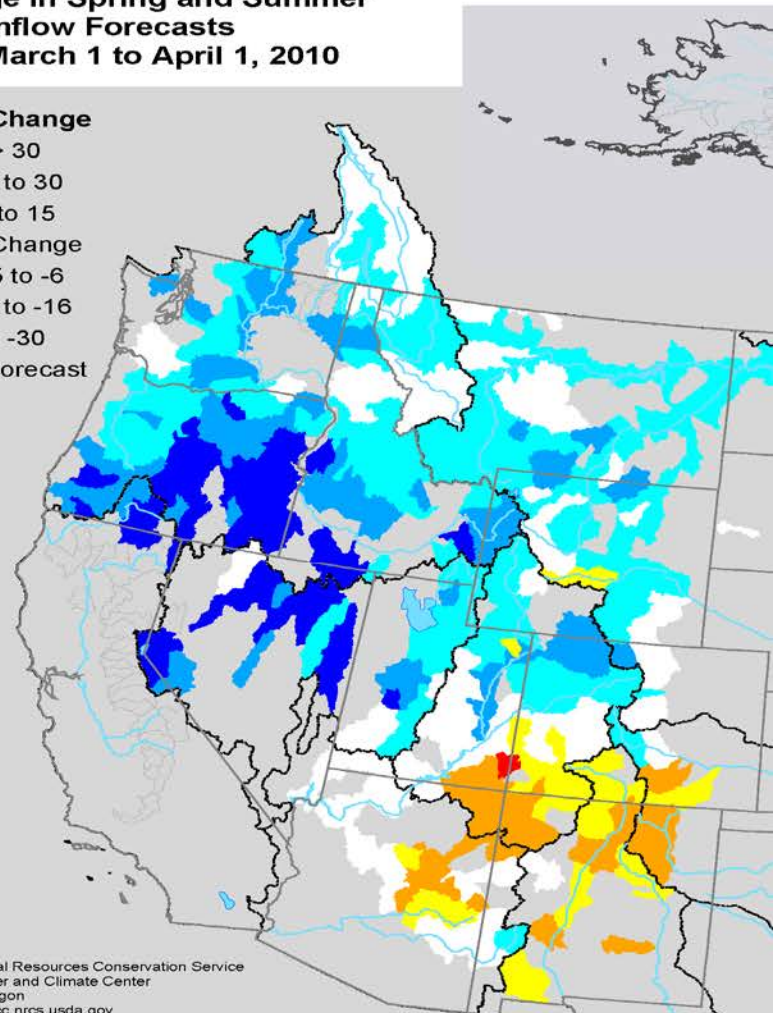
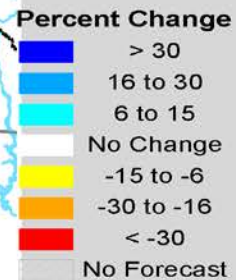


Spring and Summer Streamflow Forecasts as of April 1, 2011

Percent
1971 to 2000 Average



Change in Spring and Summer Streamflow Forecasts from March 1 to April 1, 2010



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

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

April 1, 2011 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



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

Apr 11, 2011

Current Snow Water
Equivalent (SWE)
Basin-wide Percent
of 1971-2000 Normal

unavailable *

<50%

50 - 69%

70 - 89%

90 - 109%

110 - 129%

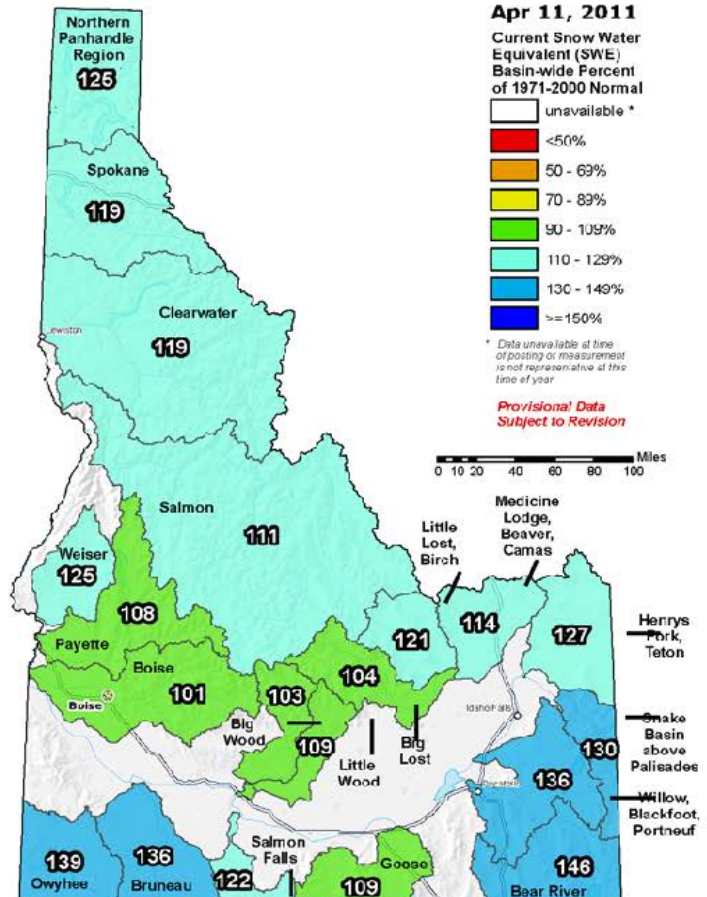
130 - 149%

>=150%

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

Provisional Data
Subject to Revision

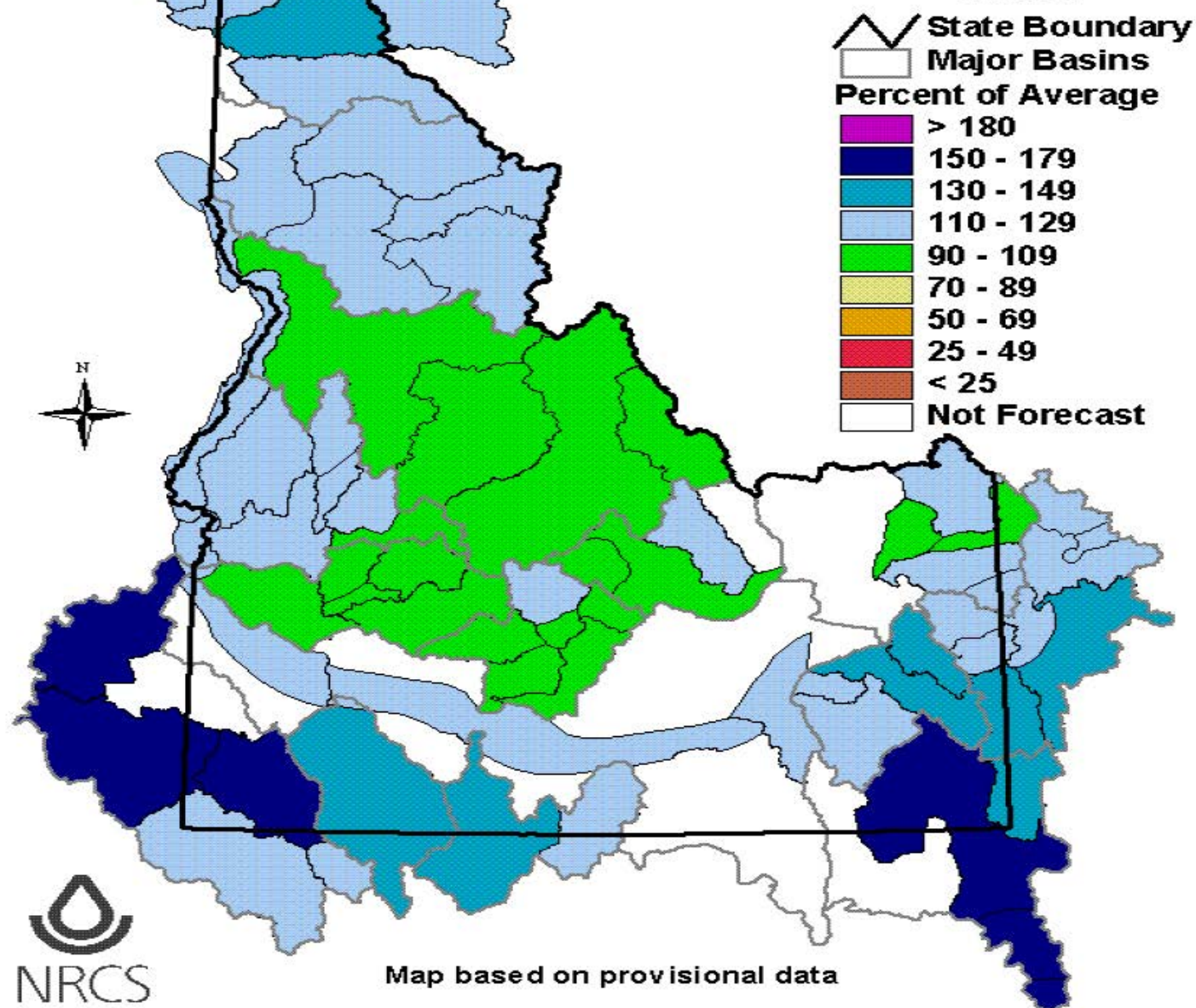
0 10 20 40 60 80 100 Miles



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.Mairon@pol.usda.gov 503.414.2047

April 1, 2011
50% Exceedance
Summer Streamflow For
Idaho



SNOTEL Precipitation Summary Report

<u>Region or Basin</u>	<u>March</u> Precipitation as % of Average	<u>Water Year-to-Date</u> Precipitation as % of Average
NORTHERN PANHANDLE REGION	163	116
SPOKANE	158	120
CLEARWATER BASIN	138	117
SALMON BASIN	157	105
WEISER BASIN	193	119
PAYETTE BASIN	168	106
BOISE BASIN	181	110
BIG WOOD BASIN	181	103
LITTLE WOOD BASIN	191	115
BIG LOST BASIN	187	110
LITTLE LOST, BIRCH BASINS	181	114
MEDICINE LODGE, BEAVER, CAMAS BASINS	148	115
HENRYS FORK, TETON BASINS	162	114
SNAKE BASIN ABOVE PALISADES	160	115
WILLOW, BLACKFOOT, PORTNEUF BASINS	168	130
SNAKE BASIN ABOVE AMERICAN FALLS	162	119
GOOSE CREEK BASIN	184	129
SALMON FALLS BASIN	174	135
BRUNEAU BASIN	159	134
OWYHEE BASIN	188	132
BEAR RIVER BASIN	146	135

SNOTEL Precipitation Summary Report

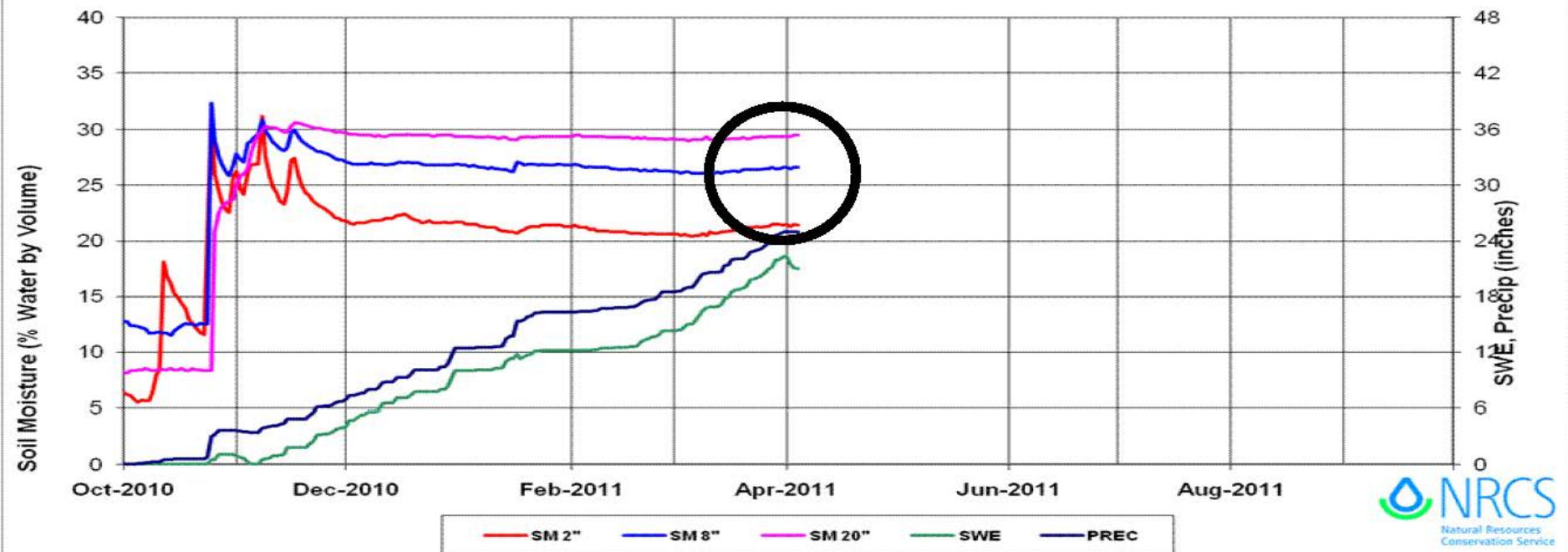
<u>Region or Basin</u>	<u>April 1- 11 Precipitation</u> Compared to Normal Monthly April Precipitation Amounts
NORTHERN PANHANDLE REGION	83
SPOKANE	90
CLEARWATER BASIN	81
SALMON BASIN	50
WEISER BASIN	35
PAYETTE BASIN	41
BOISE BASIN	48
BIG WOOD BASIN	38
LITTLE WOOD BASIN	45
BIG LOST BASIN	47
LITTLE LOST, BIRCH BASINS	60
MEDICINE LODGE, BEAVER, CAMAS BASINS	49
HENRYS FORK, TETON BASINS	70
SNAKE BASIN ABOVE PALISADES	86
WILLOW, BLACKFOOT, PORTNEUF BASINS	46
SNAKE BASIN ABOVE AMERICAN FALLS	73
GOOSE CREEK BASIN	40
SALMON FALLS BASIN	39
BRUNEAU BASIN	35
OWYHEE BASIN	47
BEAR RIVER BASIN	69

IDAHO RESERVOIR STORAGE

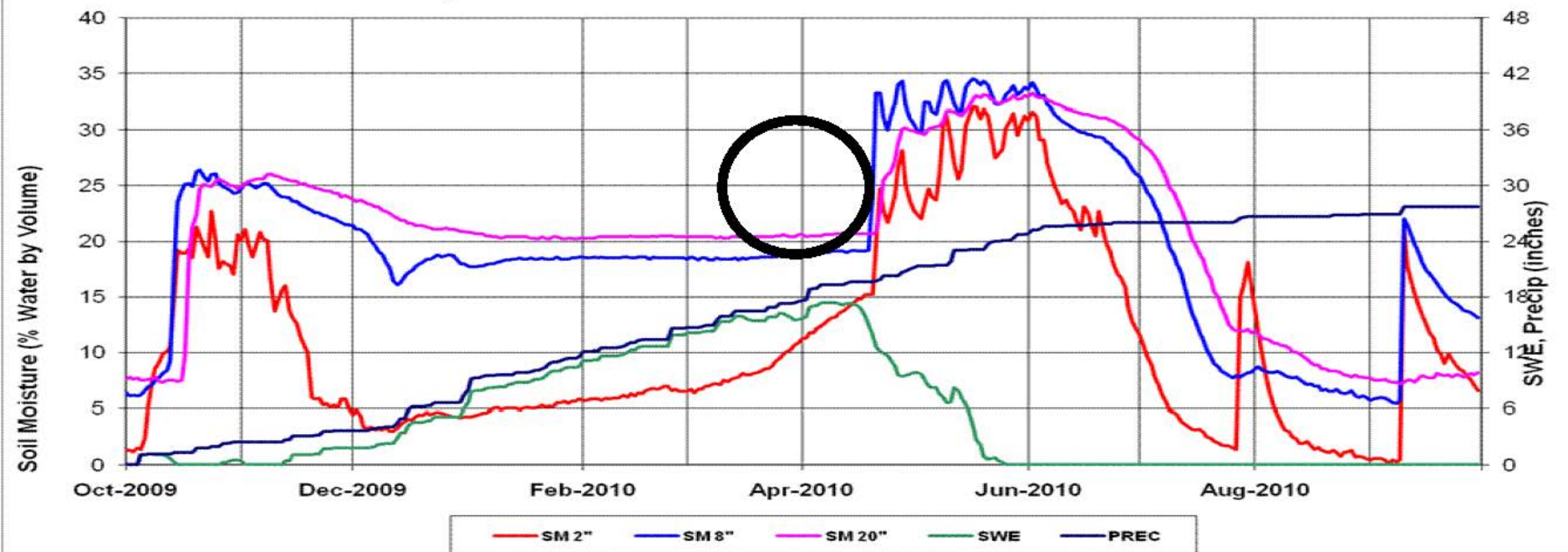
Usable Contents

Reservoir (s)	Percent of Capacity March 31, 2011	Percent of Average March 31, 2011
Salmon Falls	33	86
Oakley	34	71
Bear Lake	41	62
Dworshak	47	72
Magic	58	104
Blackfoot	58	88
Palisades & Jackson	66	105
Payette (2)	70	115
Coeur d' Alene	75	105
Little Wood	76	118
Boise (3)	77	125
American Falls	79	92
Mackay	87	118
Owyhee	88	106

Magic Mountain Soil Moisture - Water Year 2011



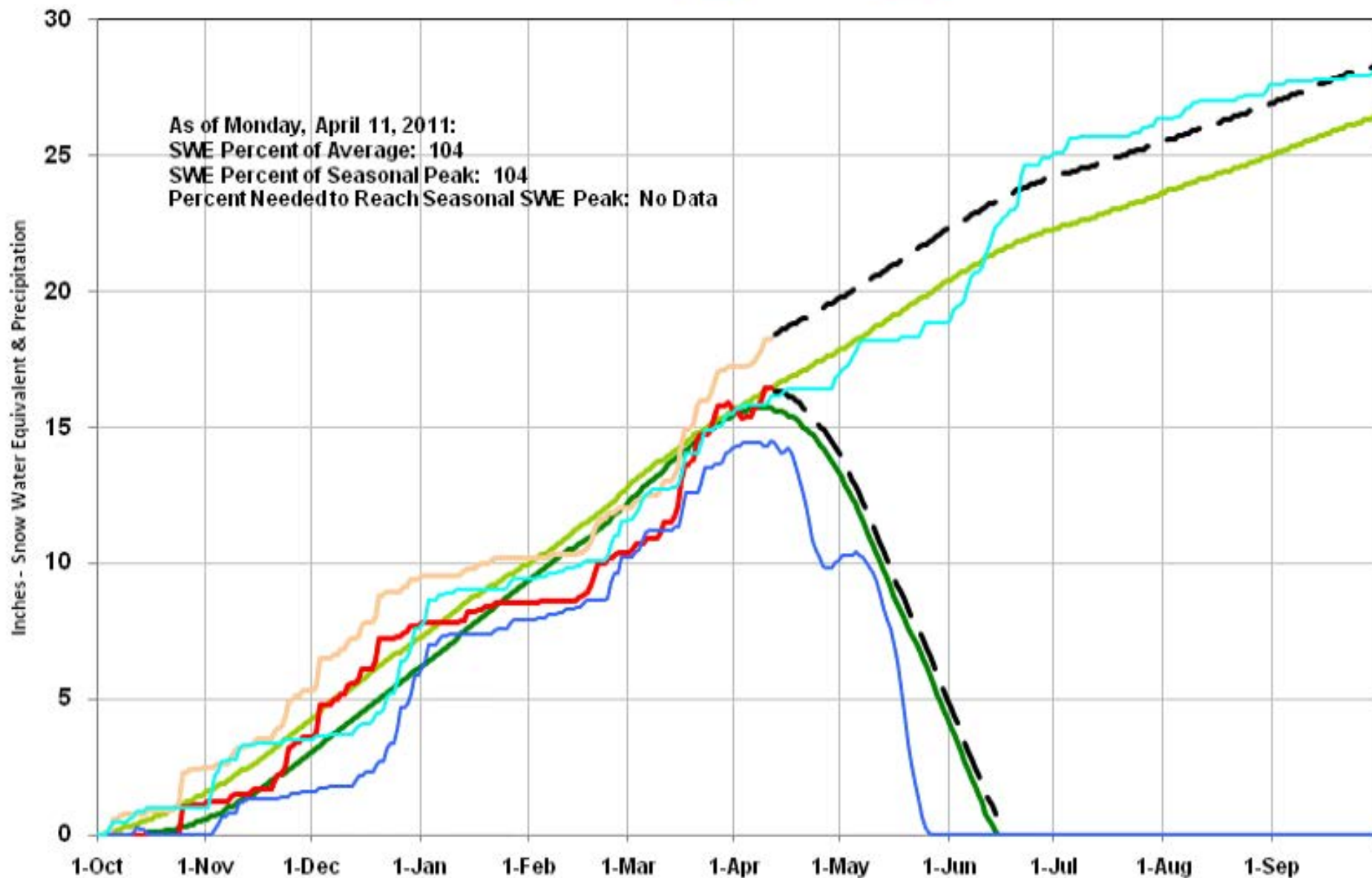
Magic Mountain Soil Moisture - Water Year 2010



Big Lost Basin 2011 Snowpack Graph (4 Sites)

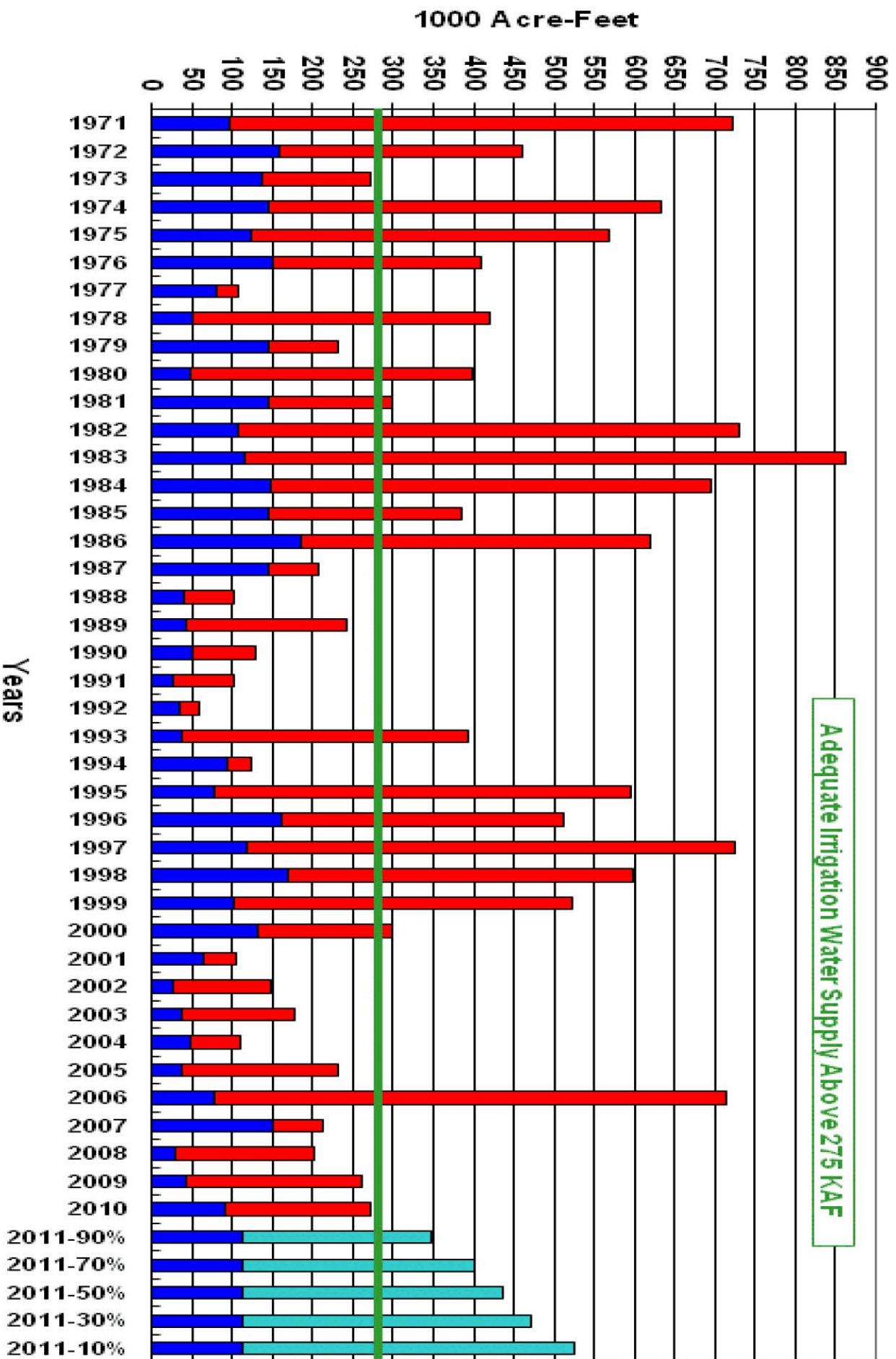
SWE Average Prec Average SWE 2011 Prec2011
SWE Projected Prec Projected SWE 2009 Prec2009

As of Monday, April 11, 2011:
SWE Percent of Average: 104
SWE Percent of Seasonal Peak: 104
Percent Needed to Reach Seasonal SWE Peak: No Data

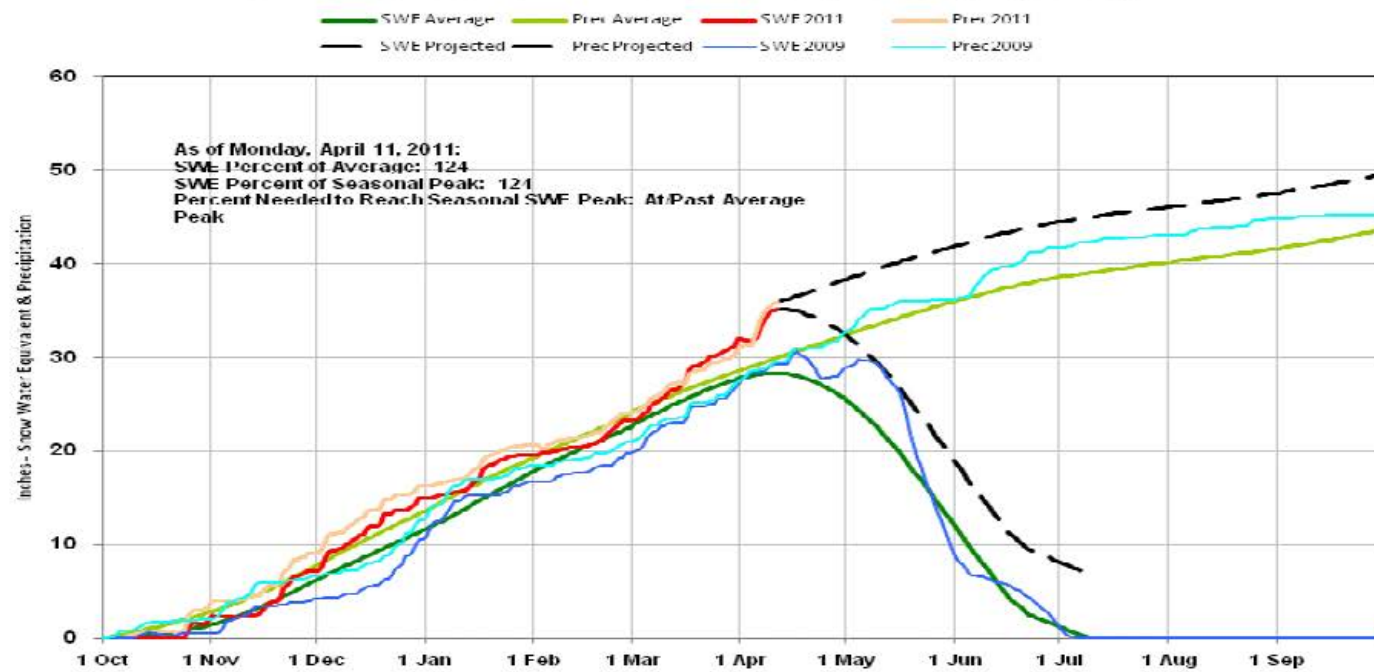


Big Wood River below Magic & Magic Reservoir

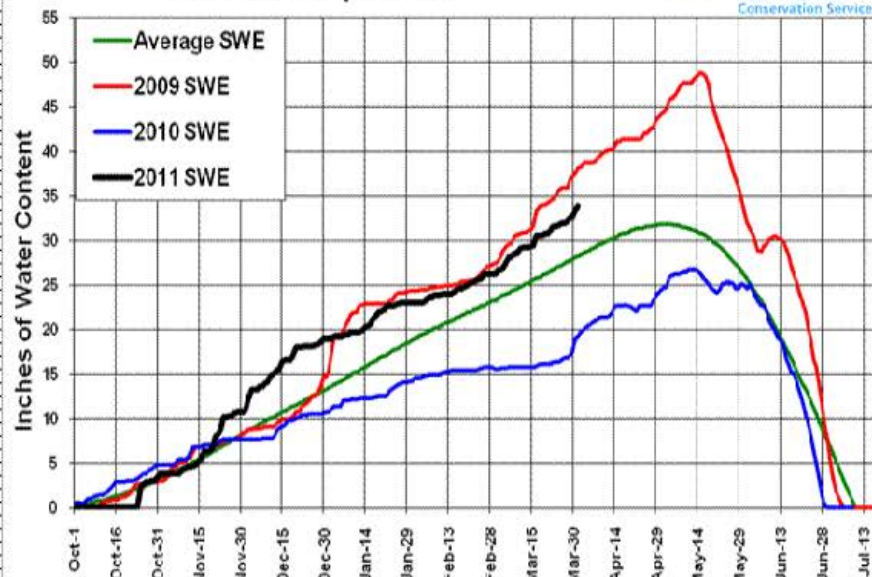
■ Streamflow Apr-Sep
■ Reservoir 31-Mar



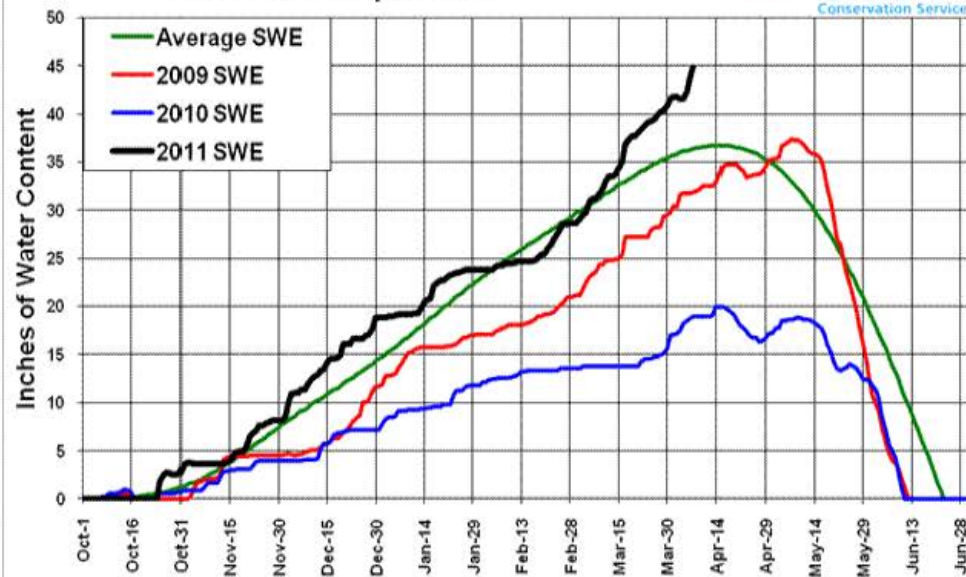
Snake Above Jackson Lake 2011 Snowpack Graph (5 Sites)



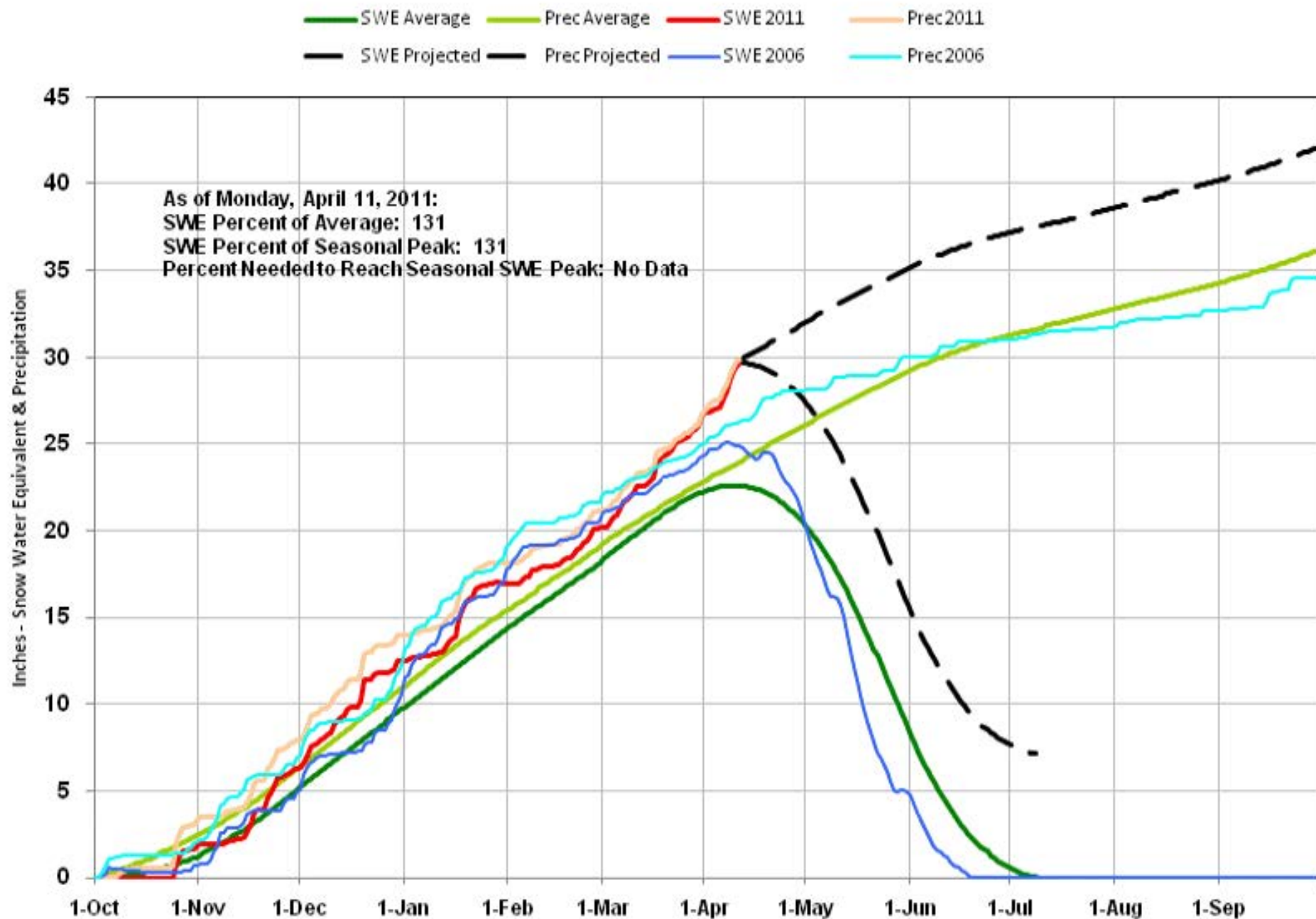
Two Ocean Plateau SNOTEL EI. 9240 Snow Water Equivalent



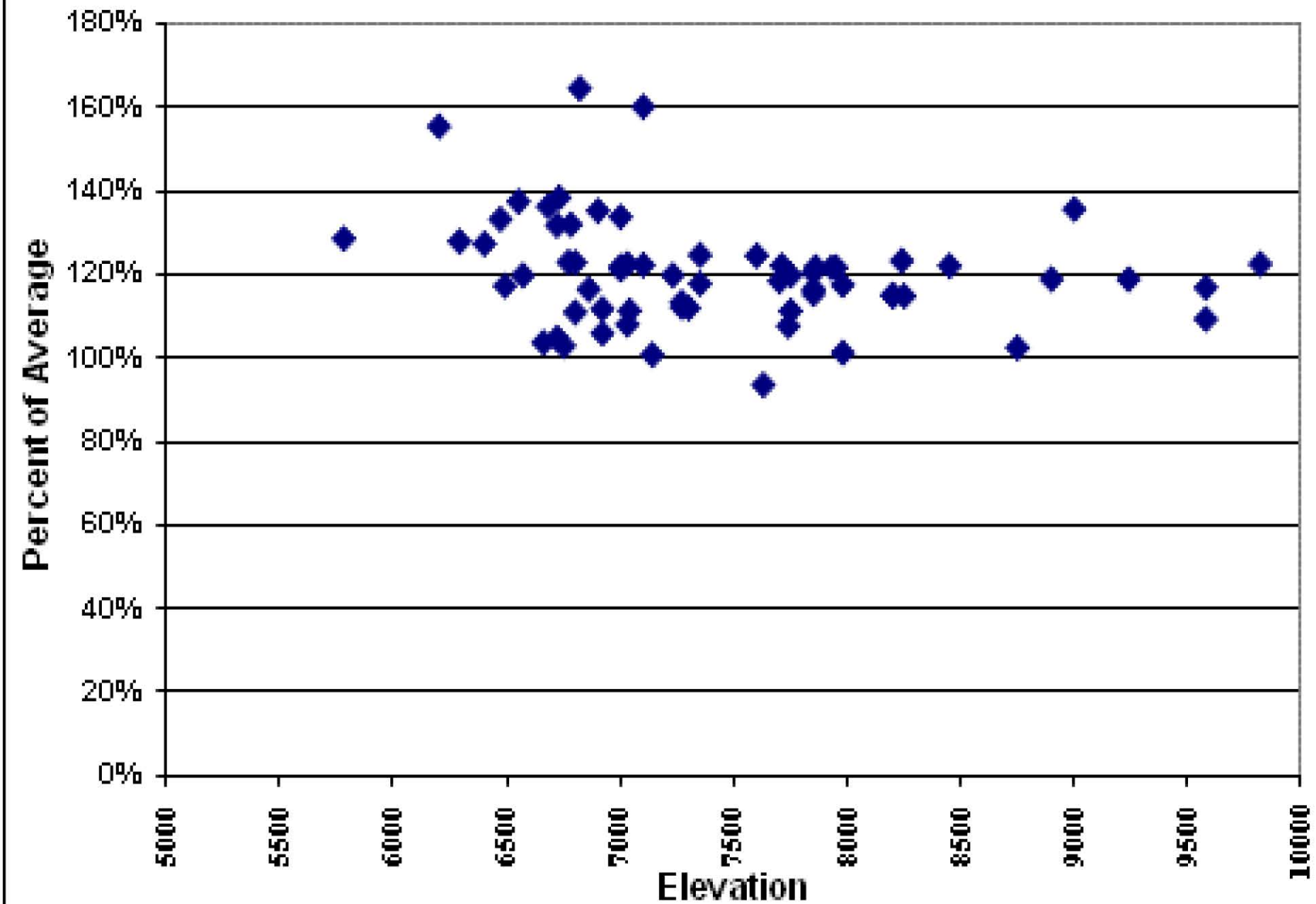
Lewis Lake Divide SNOTEL EI. 7850 Snow Water Equivalent



Snake Basin above Palisades 2011 Snowpack Graph (17 Sites)



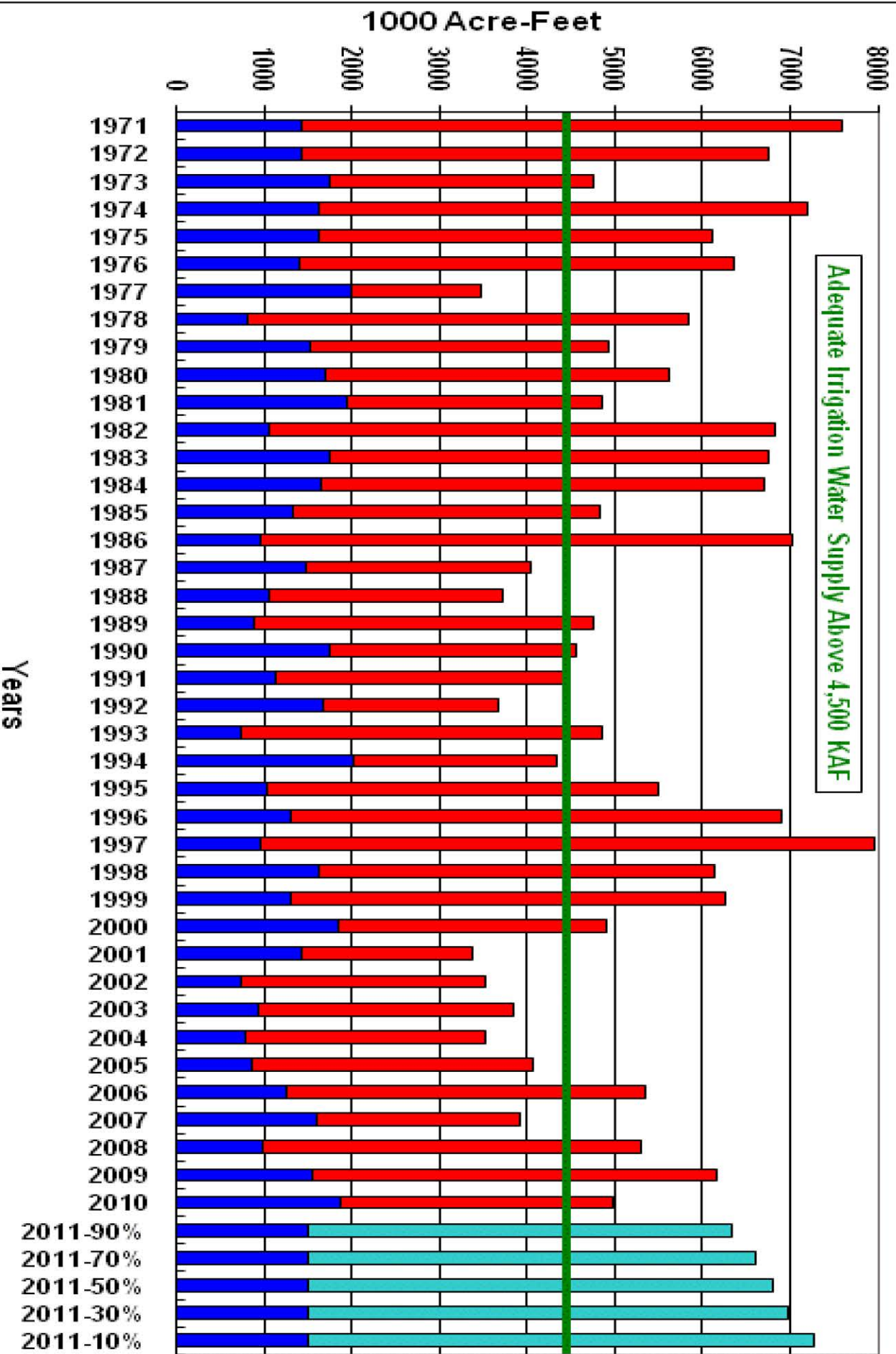
Upper Snake Basins Snowpack April 1, 2011



April 1 Surface Water Supply Index (SWSI)

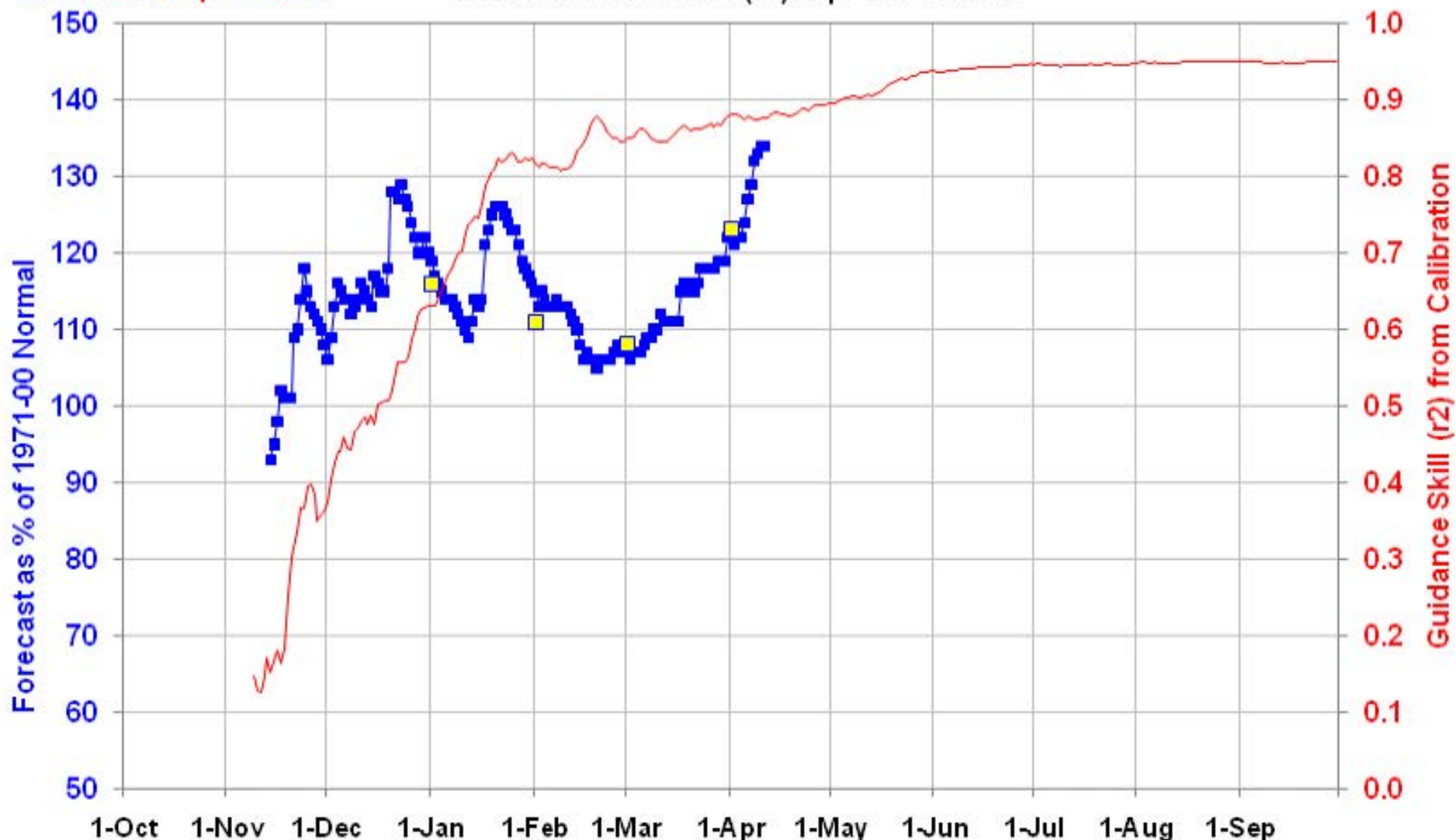
Snake River near Heise & Jackson and Palisades Reservoirs

■ Streamflow Apr-Sep
■ Reservoir 31-Mar



Created 7:48 Apr 11 2011

Snake River ne Heise (ID): Apr-Jul Volume



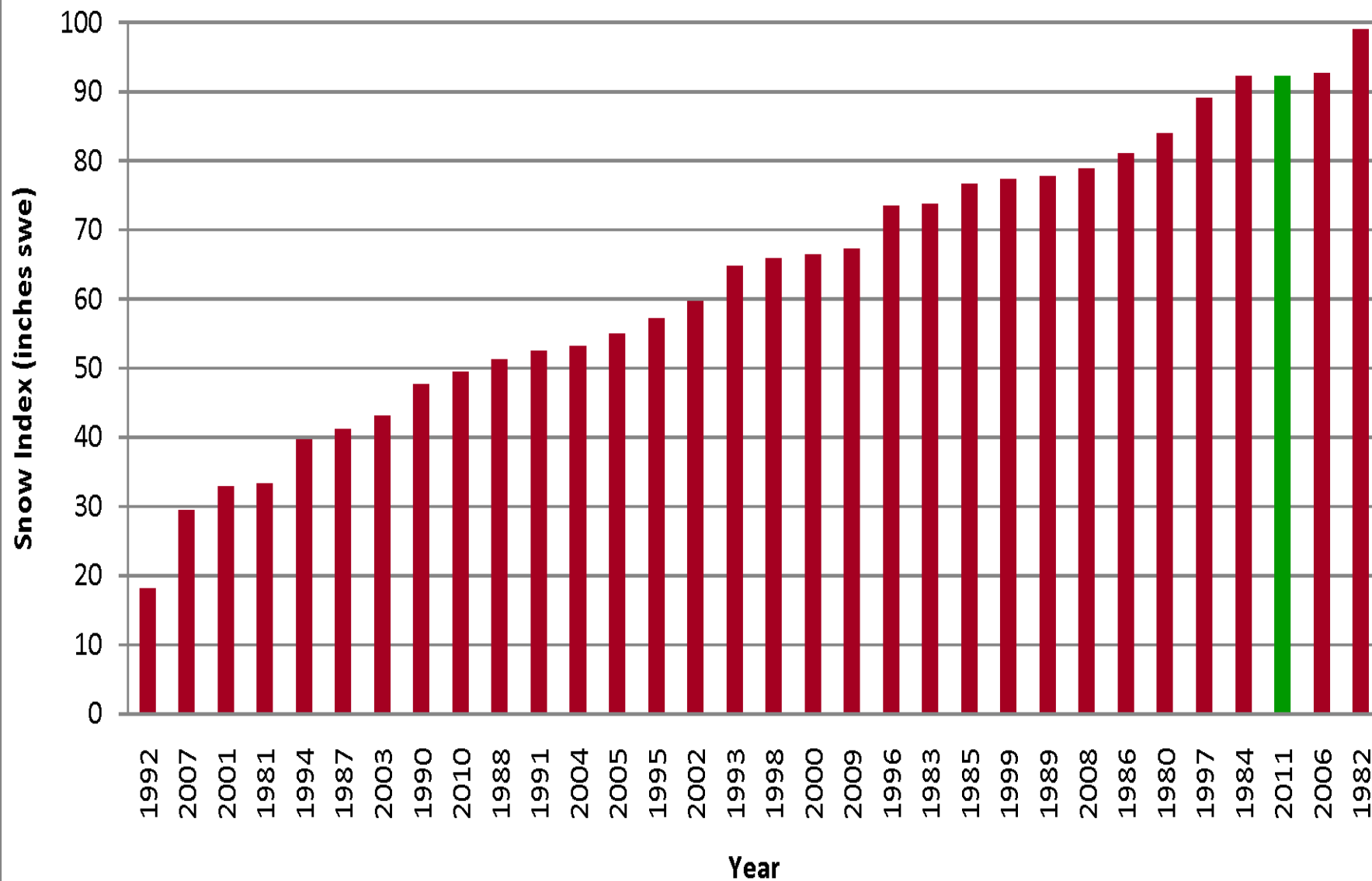
- Guidance fcst % norm
- Official fcst % norm
- Guidance Skill (r2)

This is an automated product based solely on SNOTEL data, provisional data are subject to change. This product is a statistically based guidance forecast combining indices of snowpack and precipitation. Skill is defined as the correlation (squared) between the guidance and observed during calibration. This product does not consider climate information such as El Nino or short range weather forecasts, or a variety of other factors considered in the official forecasts. This product is not meant to replace or supercede the official forecasts produced in coordination with the National Weather Service. Science Contact: Jim.Marron@por.usda.gov www.wcc.nrcs.usda.gov/wsf/daily_forecasts.html

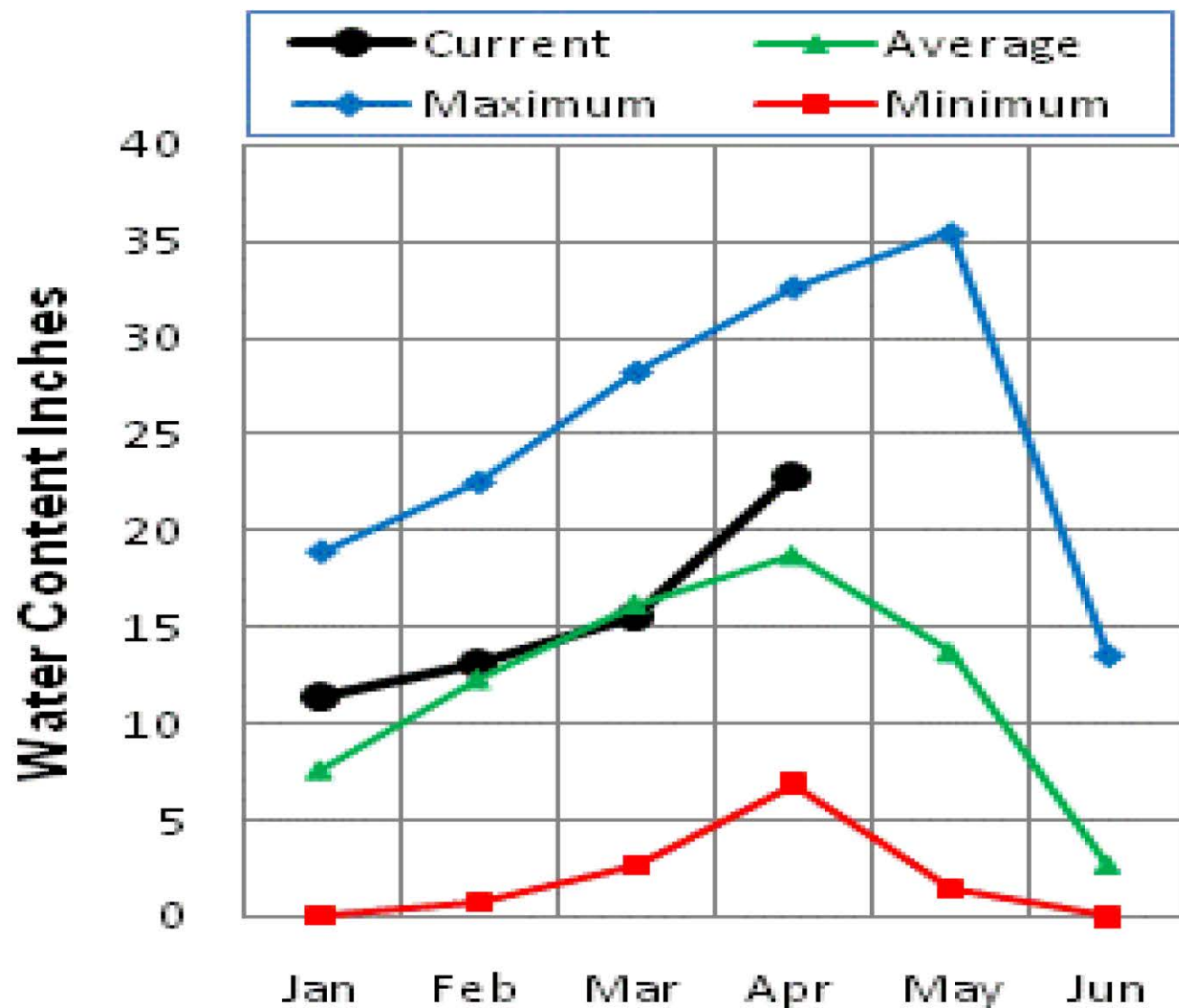


Figure 1: April 1 Snow Index for 5 sites

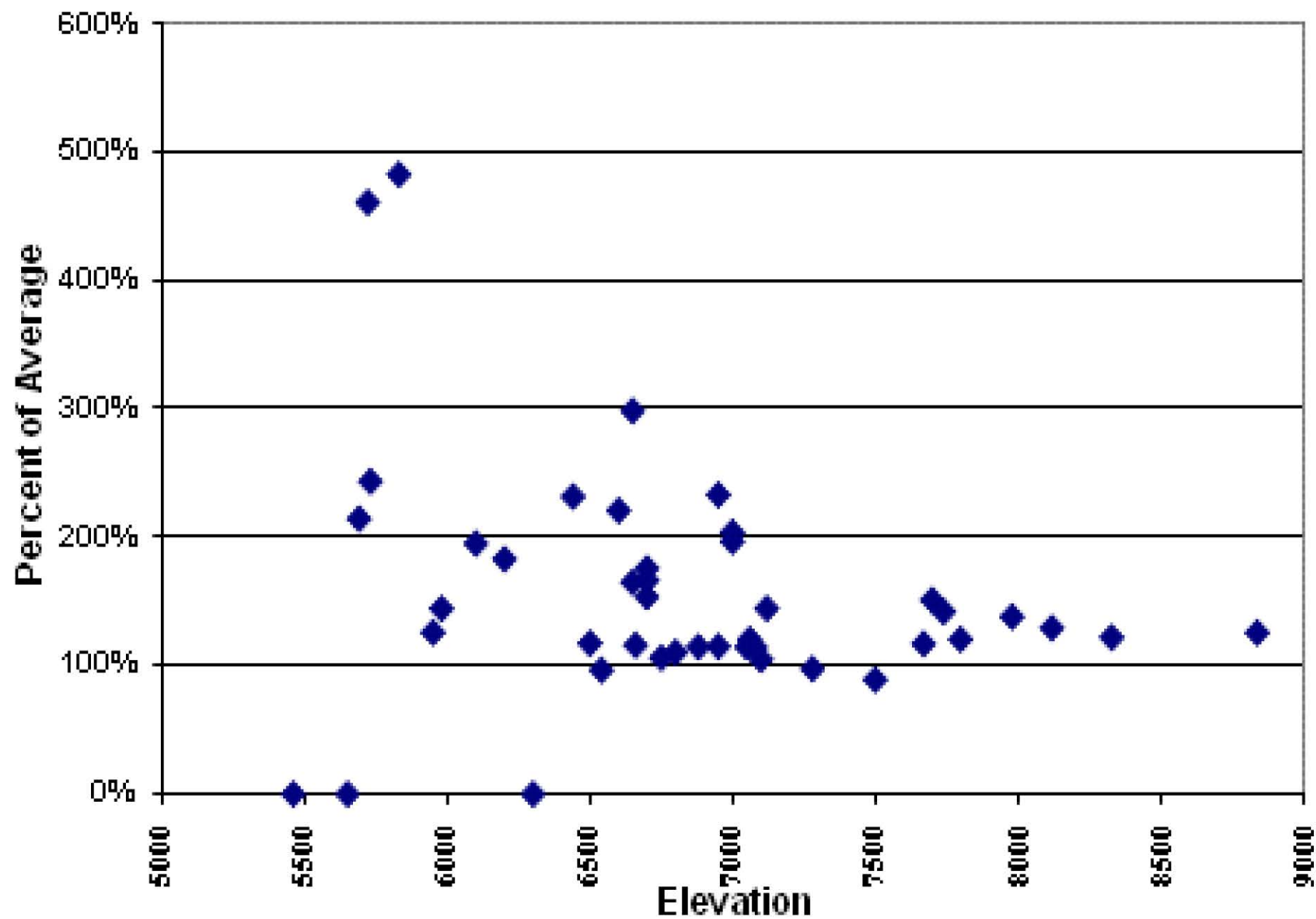
Pebble Ck, Lower Pebble, Allen Ranch, Johnson Ck, Blue Ridge



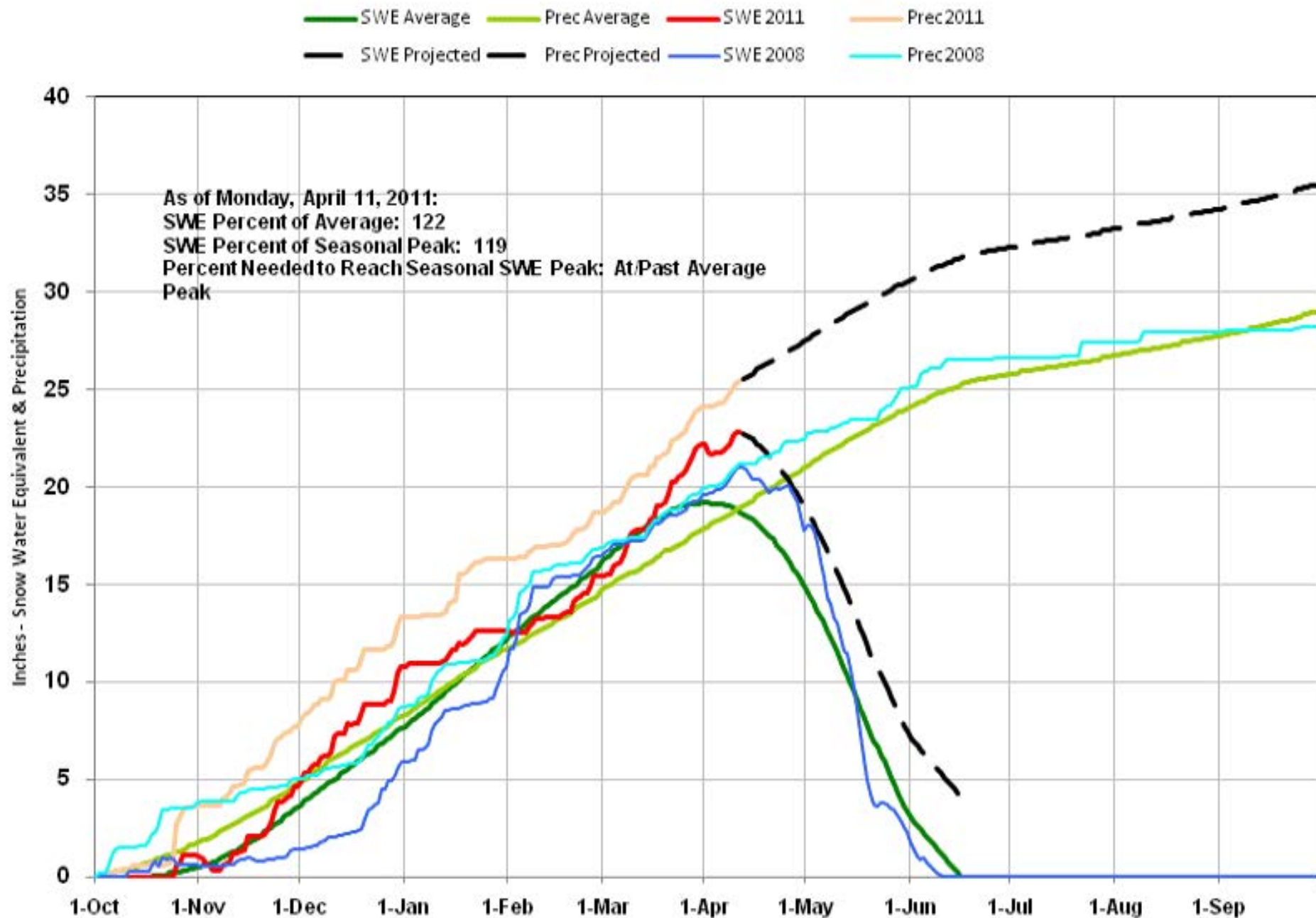
Mountain Snowpack (inches) SOUTHSIDE SNAKE RIVER BASINS



Southside Snake Basins Snowpack April 1, 2011

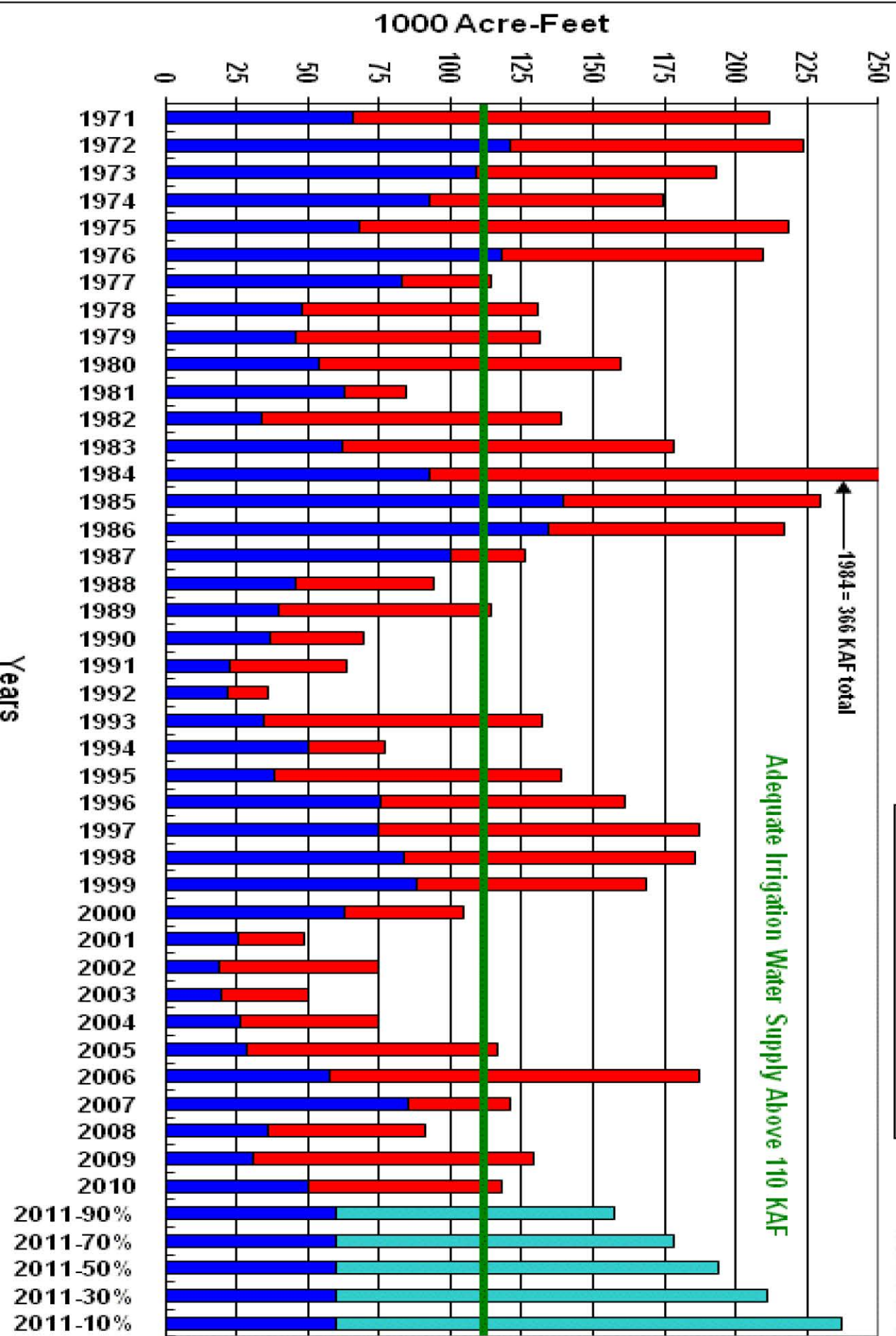


Salmon Falls Basin 2011 Snowpack Graph (5 Sites)



April 1 Surface Water Supply Index (SWSI) Salmon Falls Creek near San Jacinto & Salmon Falls Reservoir

■ Streamflow Apr-Sep
■ Reservoir 31-Mar

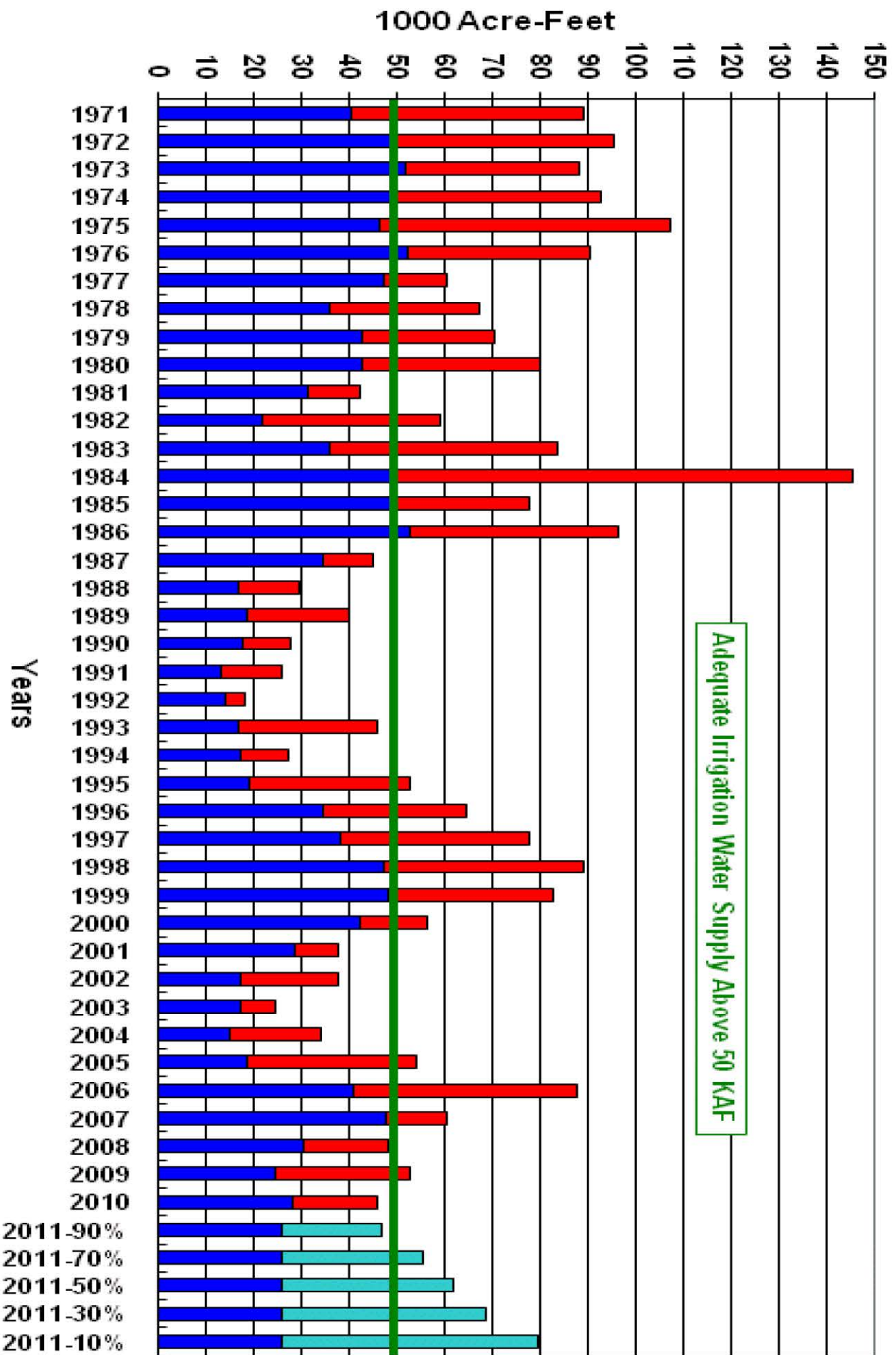


Twin Falls Soil & Water Conservation District Salmon Falls Reservoir Storage Allotment		Updated April 17, 2011					
		Based on NRCS April 1 Streamflow Forecasts					
Note: Allotment formula is based on March 31 reservoir storage and April 1 - September 30 forecasts.							
Inflow Forecast, April 1-September 30, acre-feet Storage in Dam, March 31 , acre-feet Total Storage (Inflow Forecast + Storage) Less Dead Storage in Reservoir (5000 A-F) Projected Reservoir Loss of 20% In Dam, Available for Delivery Projected Delivery Efficiency: 2010 56% 2009 59.8% 2008 55% 2007 59.4% 2006 65.3% 2005 59.4% Less Water for Callen Less Individual Storage Carryover Water to be Delivered Over the Weir		Chance of Exceedance Streamflow Forecasts					2006
		90%	70%	50%	30%	10%	Runoff
		97000	118000	134000	151000	177000	130000
	60100	60100	60100	60100	60100	60100	57400
		157100	178100	194100	211100	237100	187400
	5000	152100	173100	189100	206100	232100	182400
	0.20	30420	34620	37820	41220	46420	36480
		121680	138480	151280	164880	185680	145920
	0.55	66924	76164	83204	90684	102124	80256
	485	485	485	485	485	485	485
8922	8922	8922	8922	8922	8922	8922	
	57517	66757	73797	81277	92717	70849	
Divided by Total Shares	60050.65	0.958	1.112	1.229	1.353	1.544	1.180
Allotment if 'Individual Storage Carryover' is not subtracted from 'In Dam, Available for Delivery'		1.106	1.260	1.377	1.502	1.693	1.328
Average Allotment							
1924-2006 0.761							
1971-2000 0.934							
2002-2006 0.616							
Full Allotment 1.167							
2010 allotment 0.68 Runoff 67,900 AF Apr-Sep							

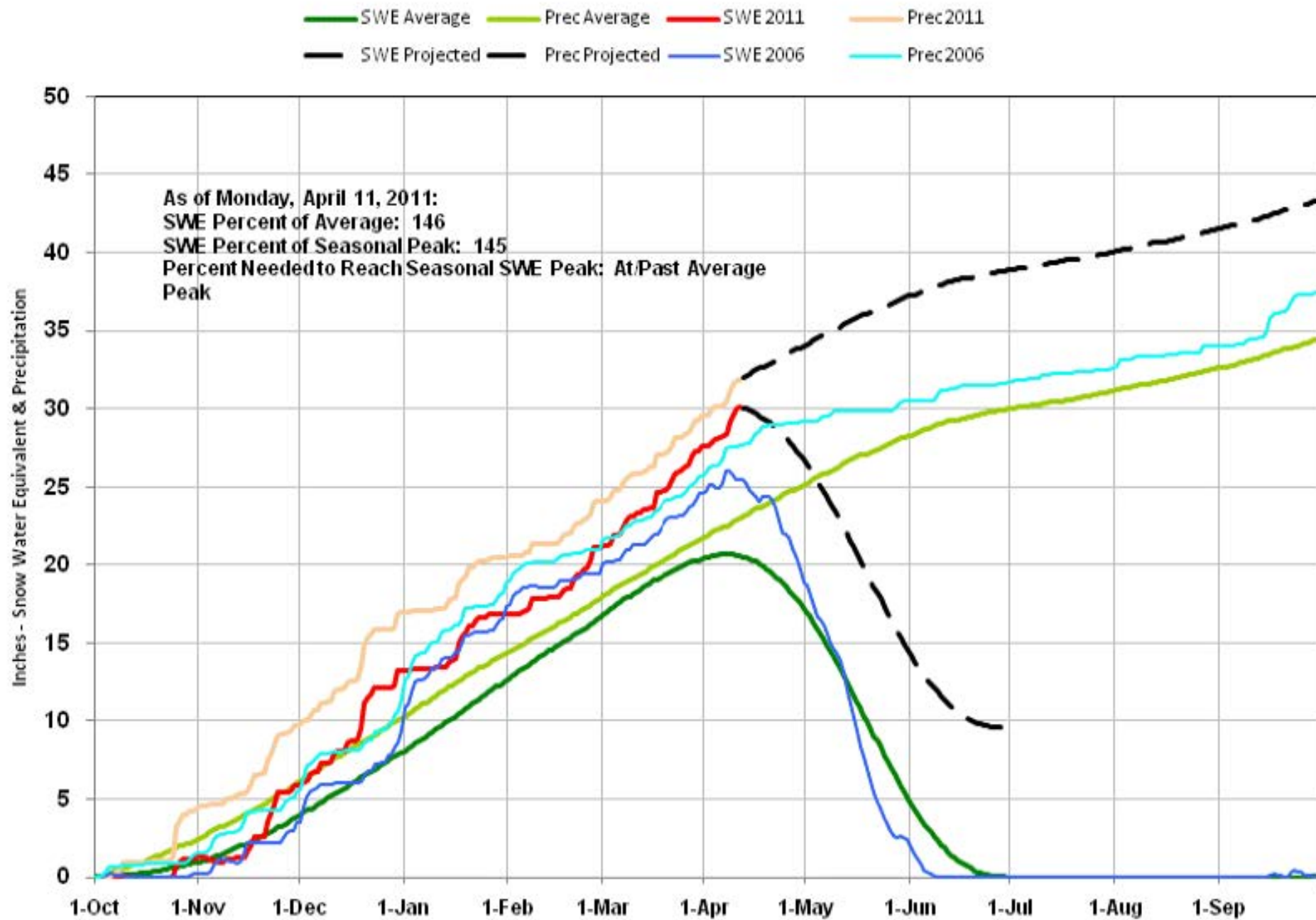
April 1 Oakley Surface Water Supply Index (SWSI)

Oakley Inflow & Reservoir

■ Streamflow Apr-Sep
■ Reservoir 31-Mar



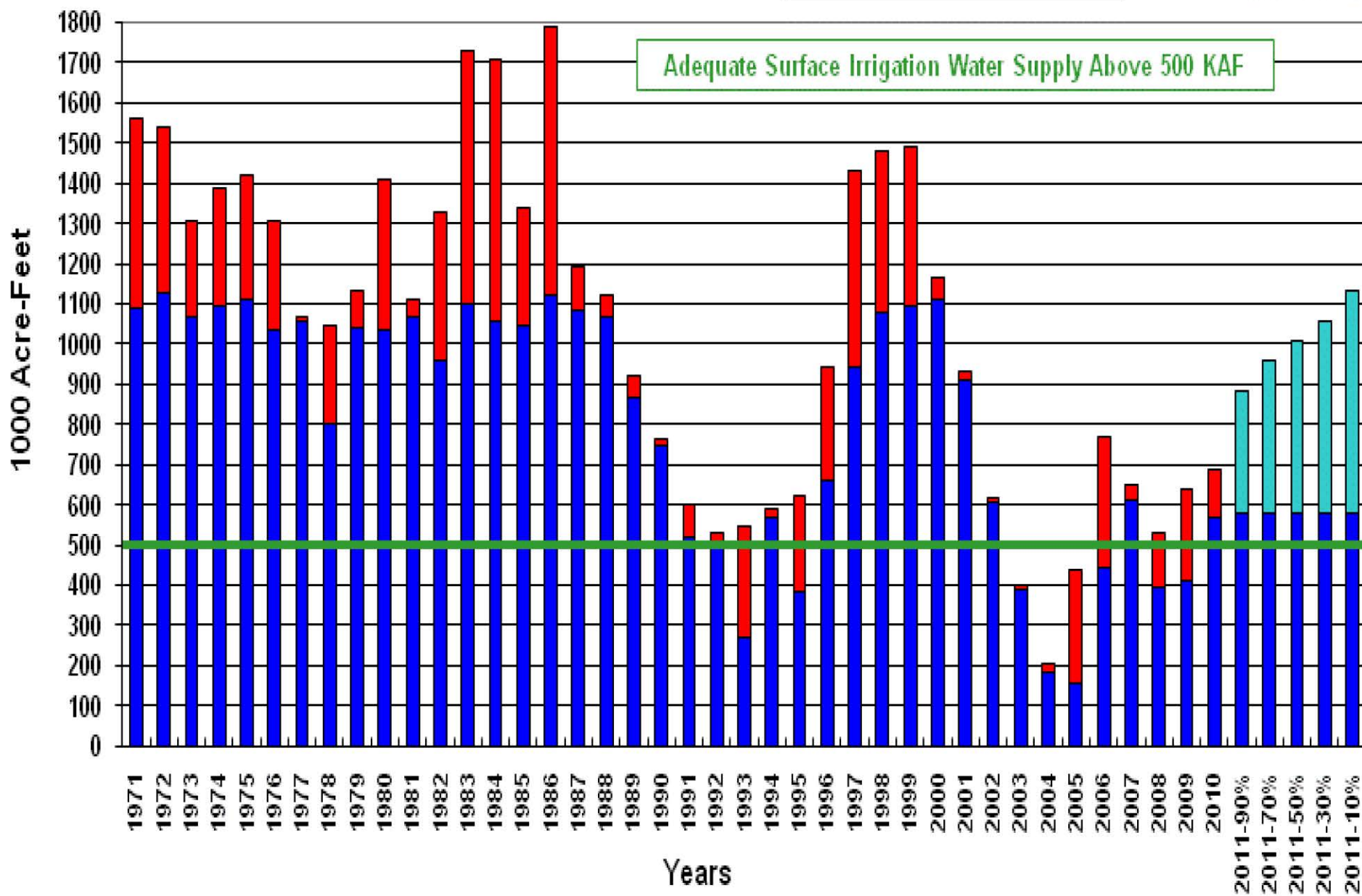
Bear River Basin 2011 Snowpack Graph (15 Sites)



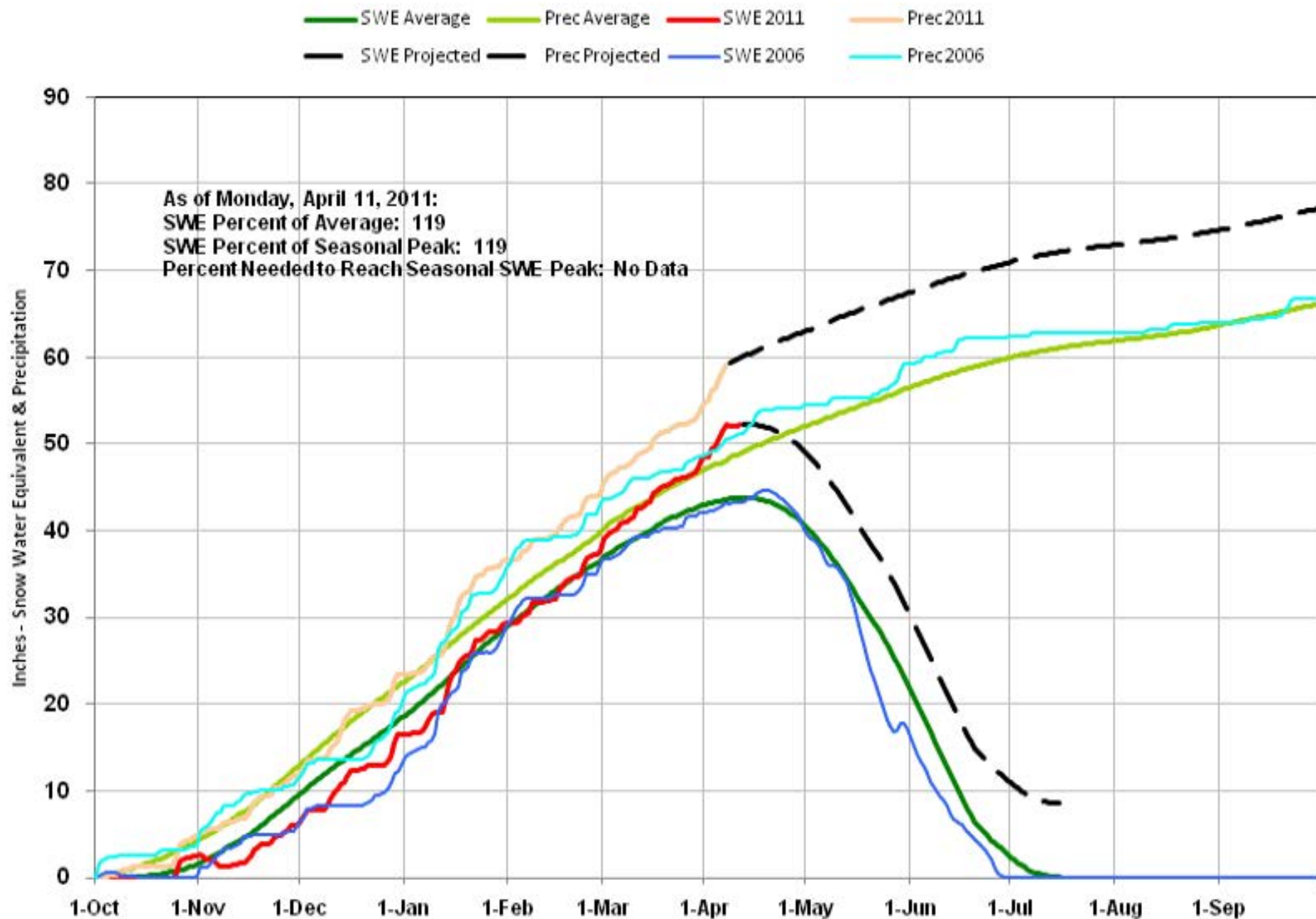
April 1 Bear River Surface Water Supply Index (SWSI)
Bear River at Stewart Dam & Bear Lake

■ Reservoir 31-Mar
 ■ Streamflow Apr-Sep

Adequate Surface Irrigation Water Supply Above 500 KAF

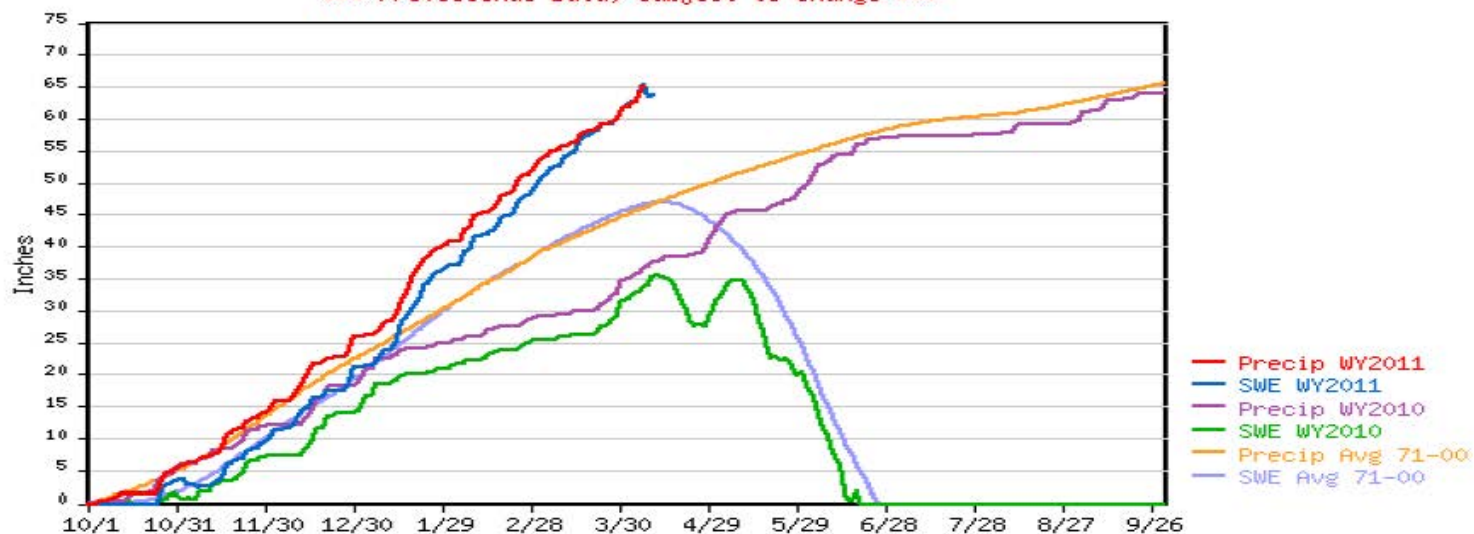


N F Clearwater Basin 2011 Snowpack Graph (8 Sites)



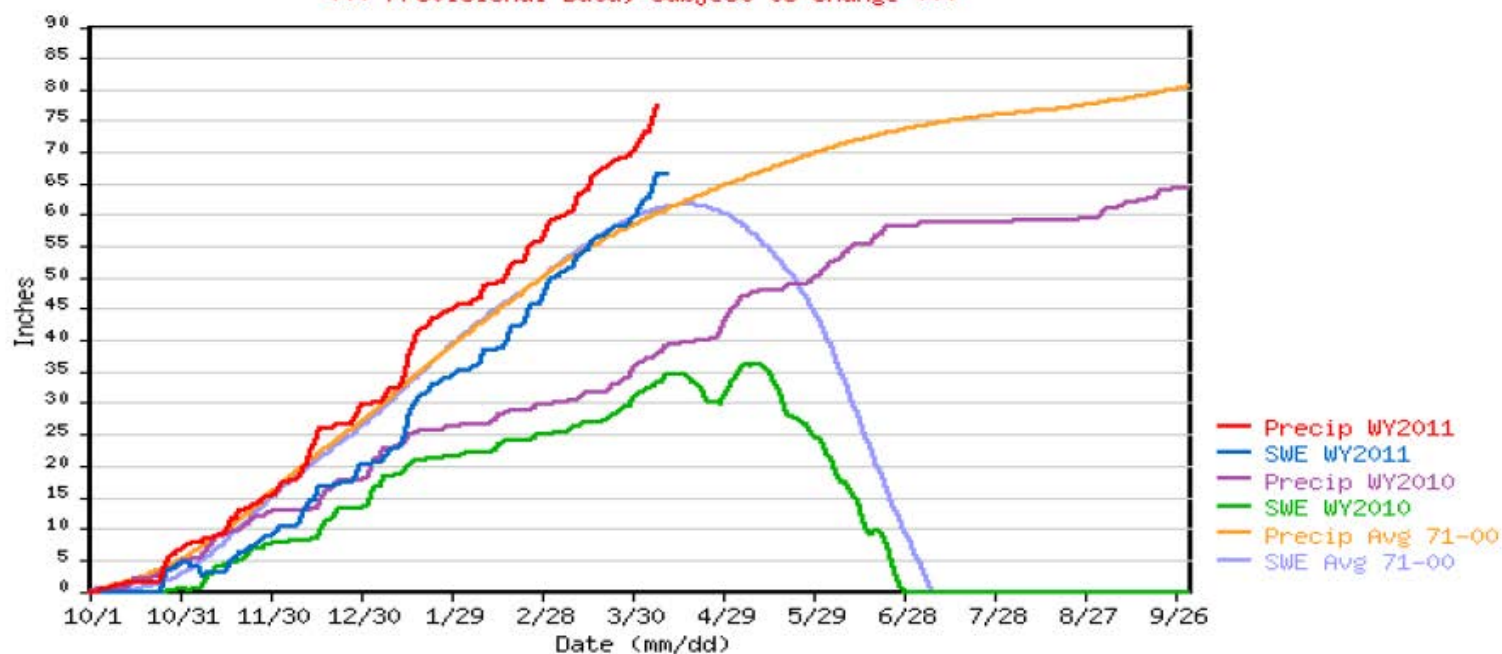
CRATER MEADOWS SNOTEL as of 04/10/2011

*** Provisional Data, Subject to Change ***

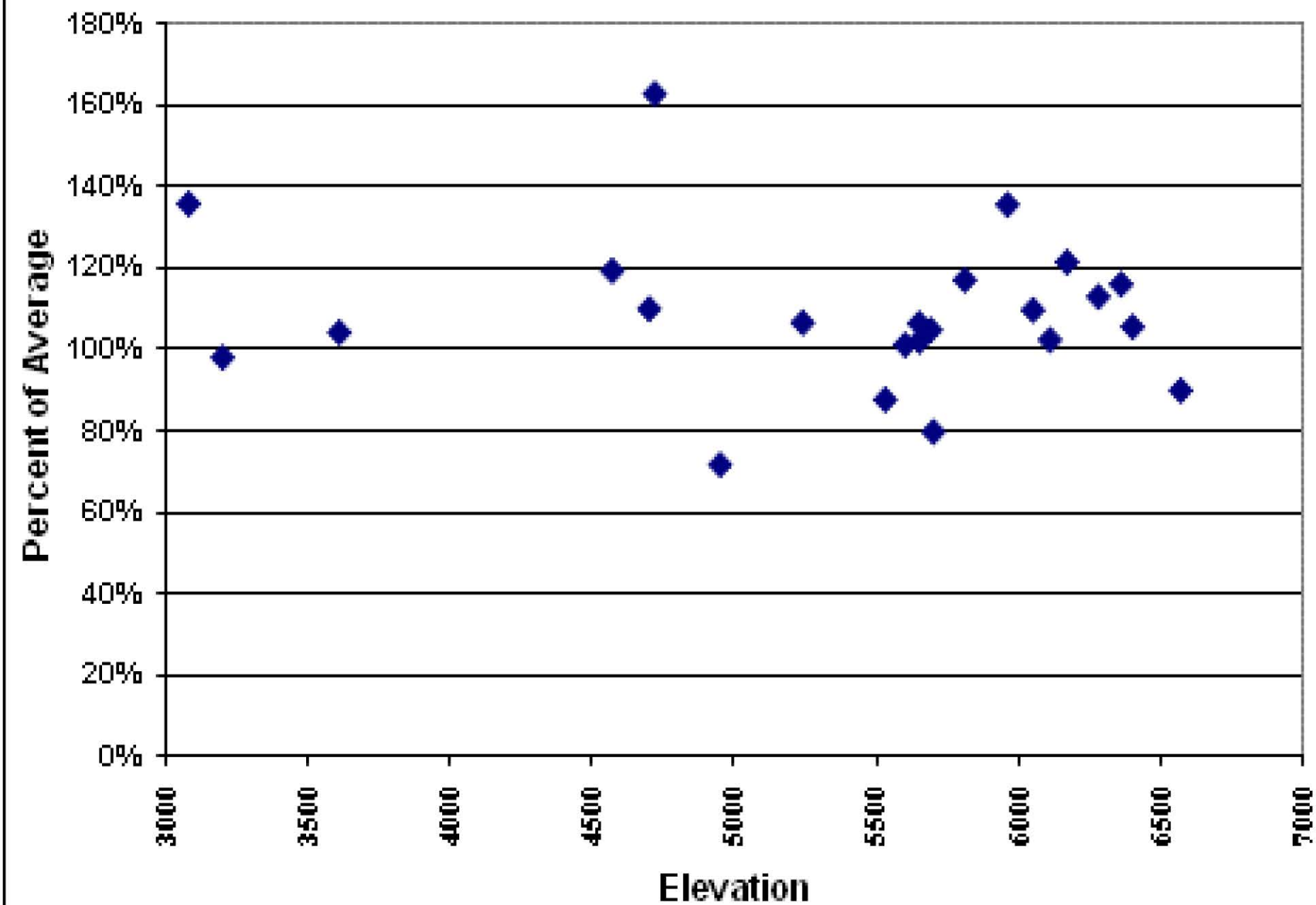


LOST LAKE SNOTEL as of 04/10/2011

*** Provisional Data, Subject to Change ***



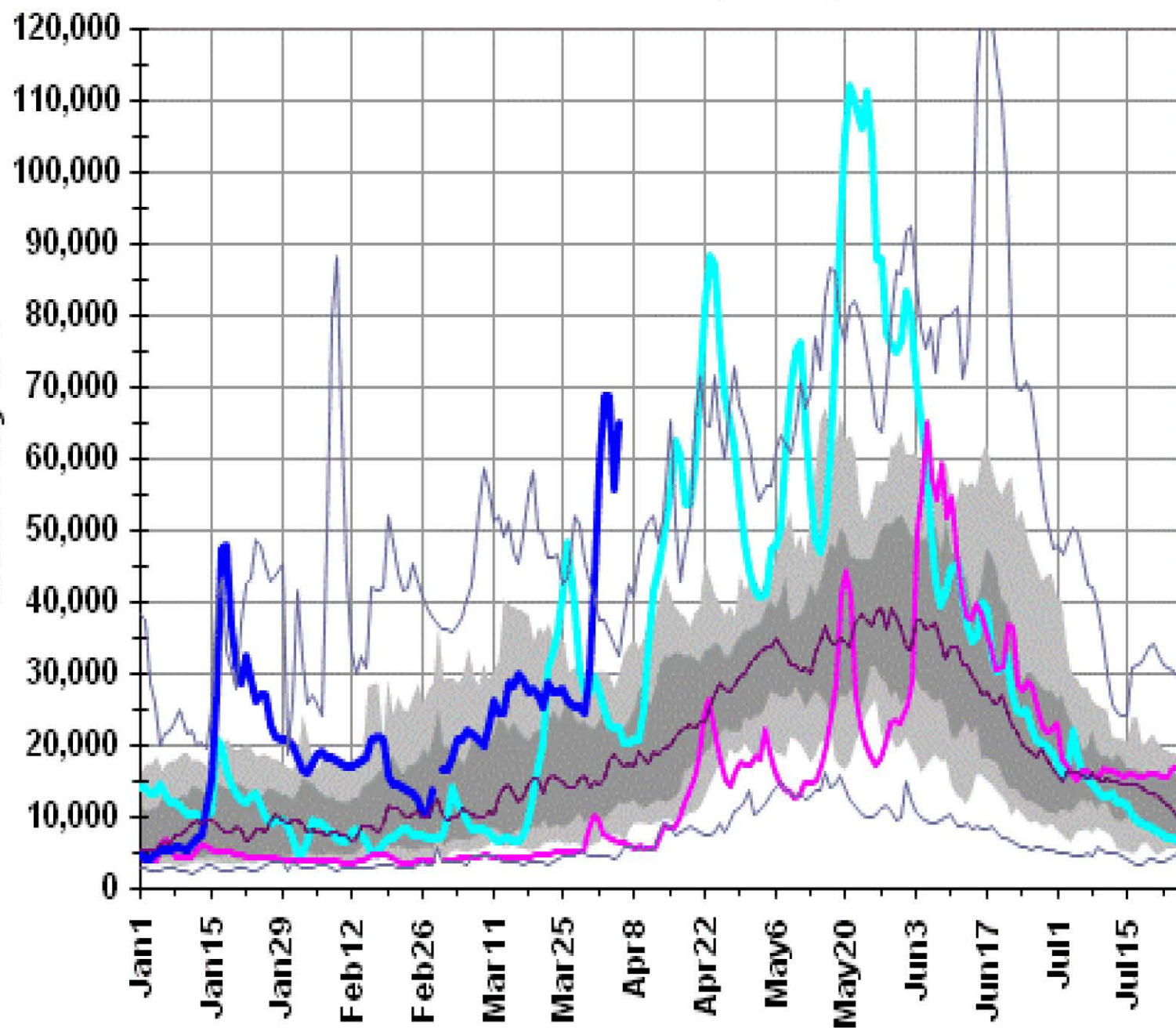
Clearwater Basin Snowpack April 1, 2011



13342500 id: clearwater river at spalding id



Mean Daily CFS



6-Apr-11

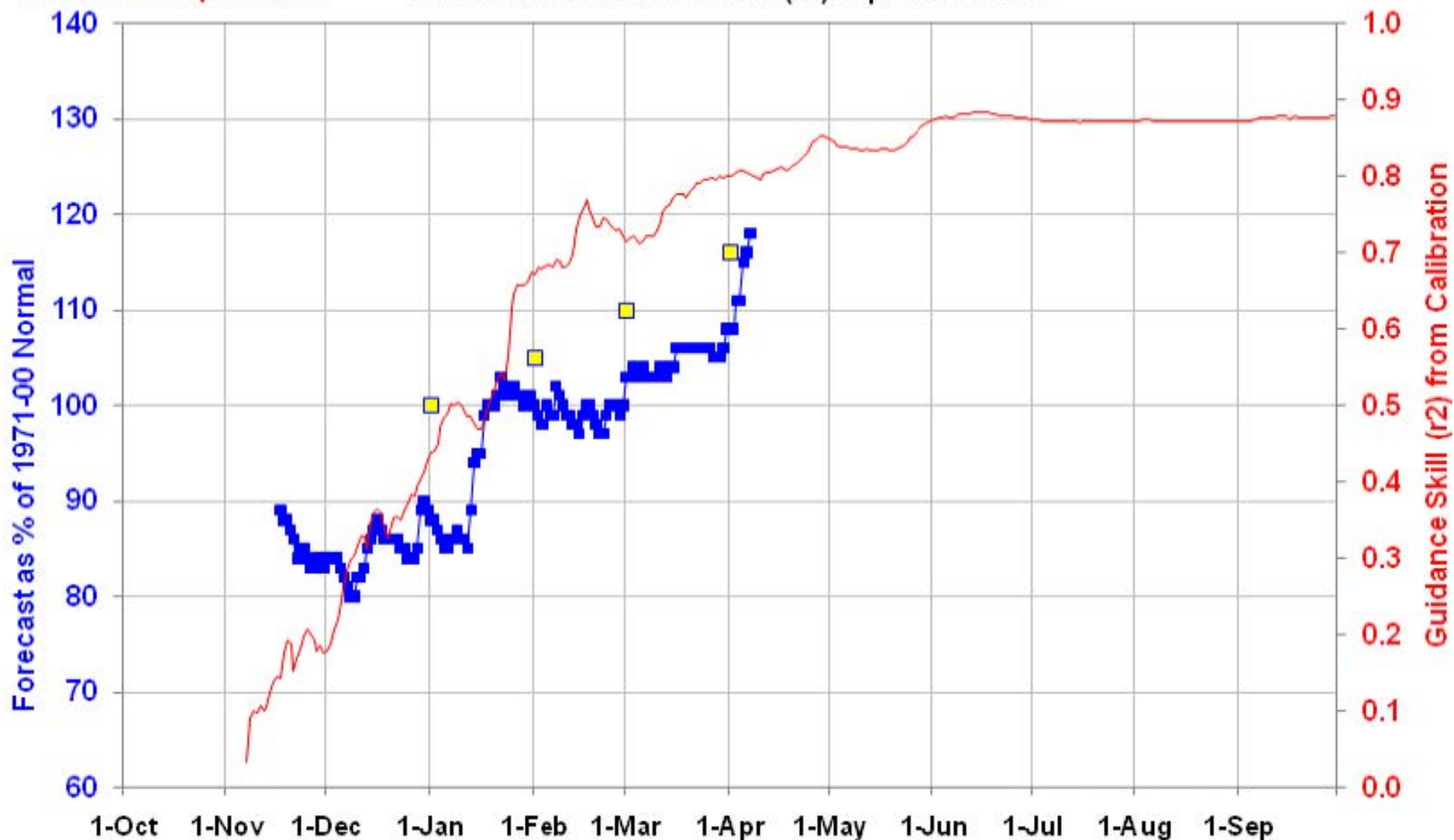
Updated

Similar Year

1956

Created 7:55 Apr 11 2011

Dworshak Reservoir Inflow (ID): Apr-Jul Volume



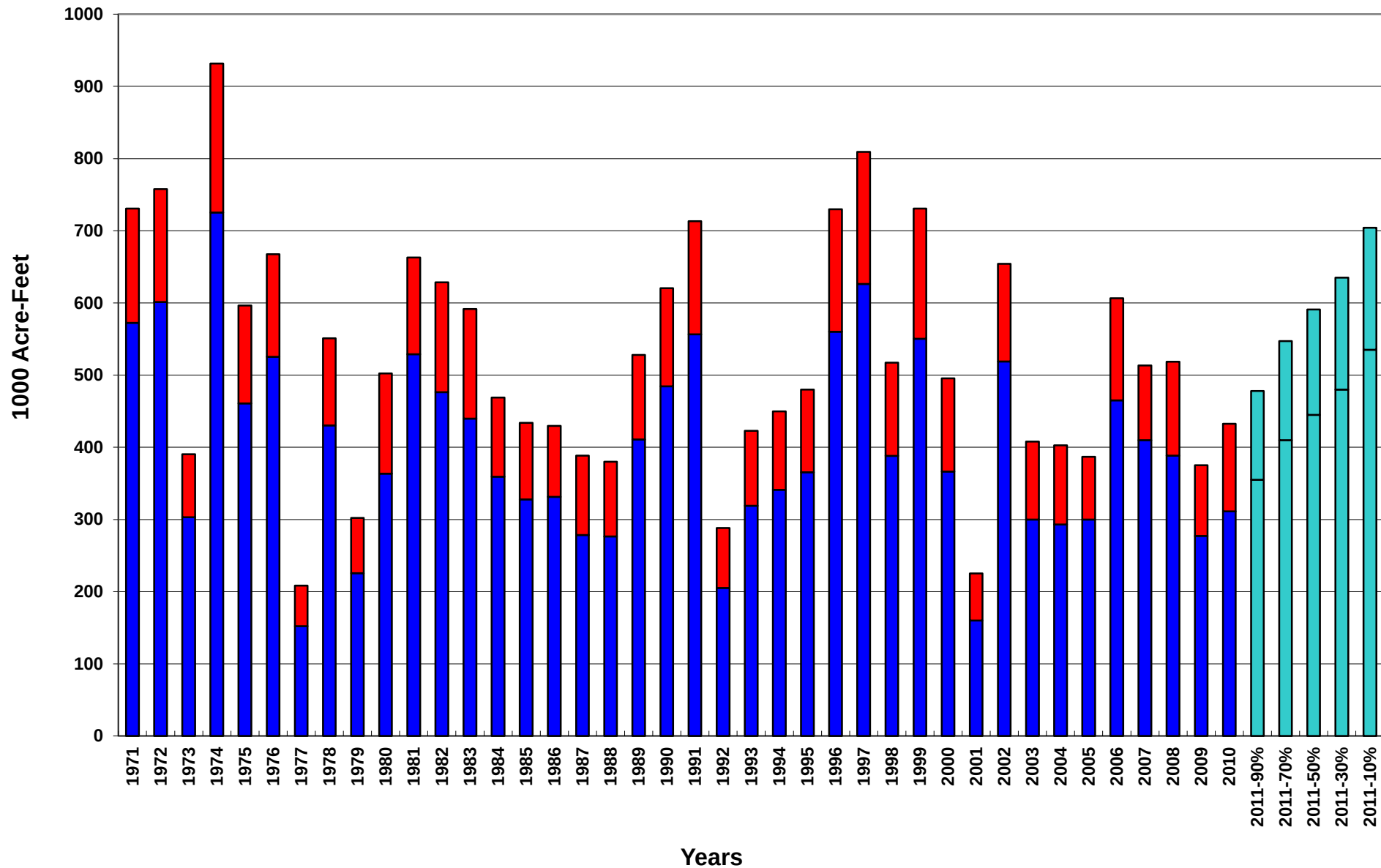
- Guidance fcst % norm
- Official fcst % norm
- Guidance Skill (r^2)

This is an automated product based solely on SNOTEL data, provisional data are subject to change. This product is a statistically based guidance forecast combining indices of snowpack and precipitation. Skill is defined as the correlation (squared) between the guidance and observed during calibration. This product does not consider climate information such as El Nino or short range weather forecasts, or a variety of other factors considered in the official forecasts. This product is not meant to replace or supersede the official forecasts produced in coordination with the National Weather Service. Science Contact: Jim.Marron@por.usda.gov www.wcc.nrcs.usda.gov/wsf/daily_forecasts.html

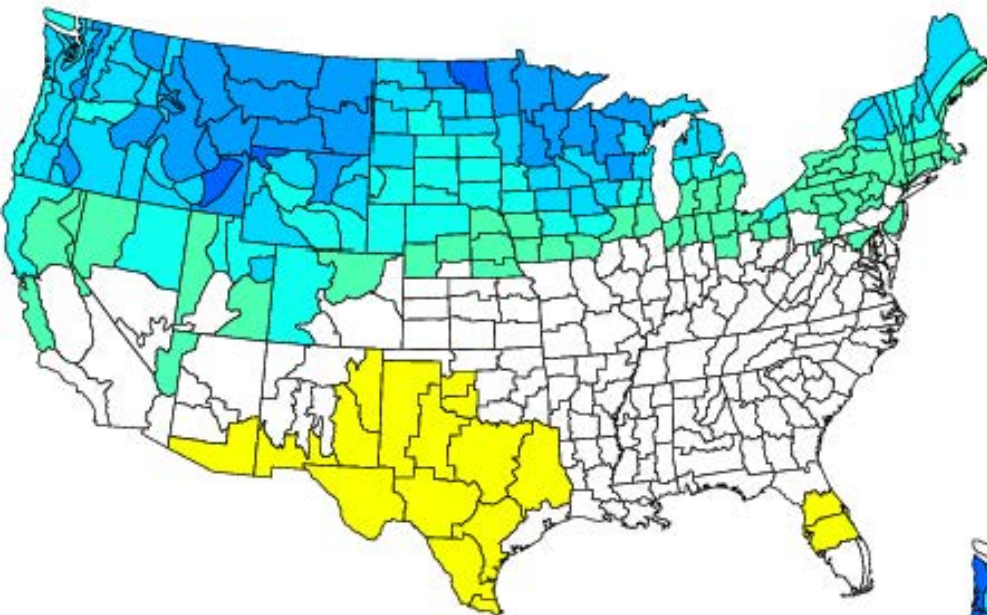


April 1 Surface Water Supply Index (SWSI)
Boundary Creek near Prothill, ID Streamflow
& Moyie River at Eastport, ID Streamflow

- Boundary Creek Streamflow Apr-Sep
- Moyie River Streamflow Apr-Sep



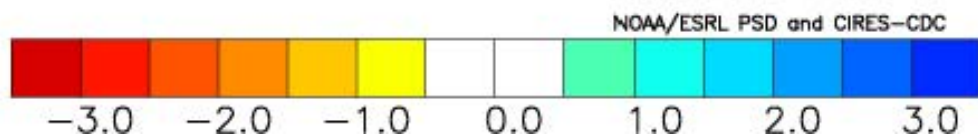
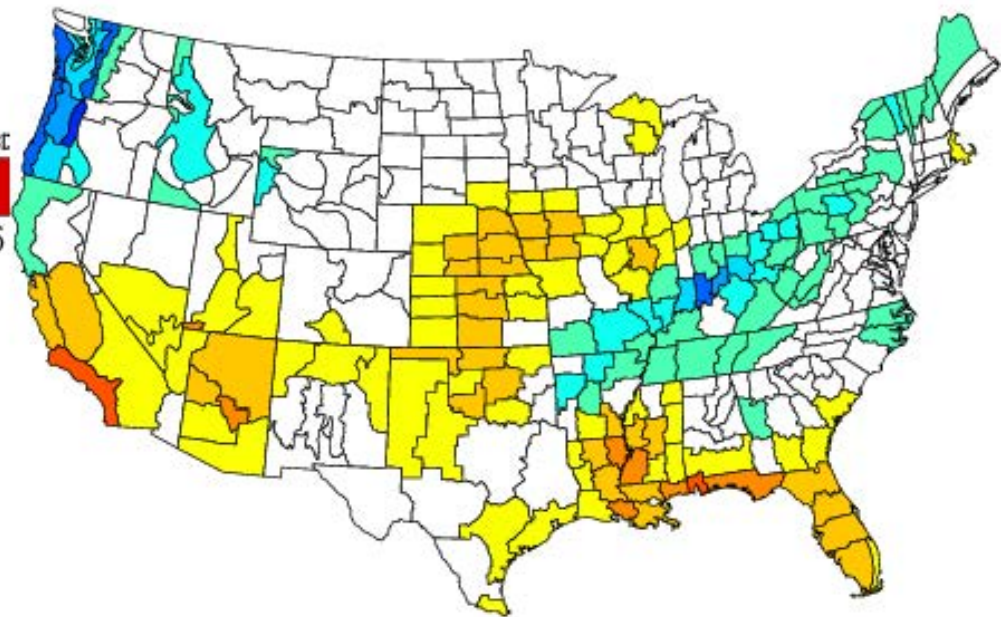
Composite Temperature Anomalies (F)
Mar 1917, 1971, 1974, 1989, 2008
Versus 1971–2000 Longterm Average



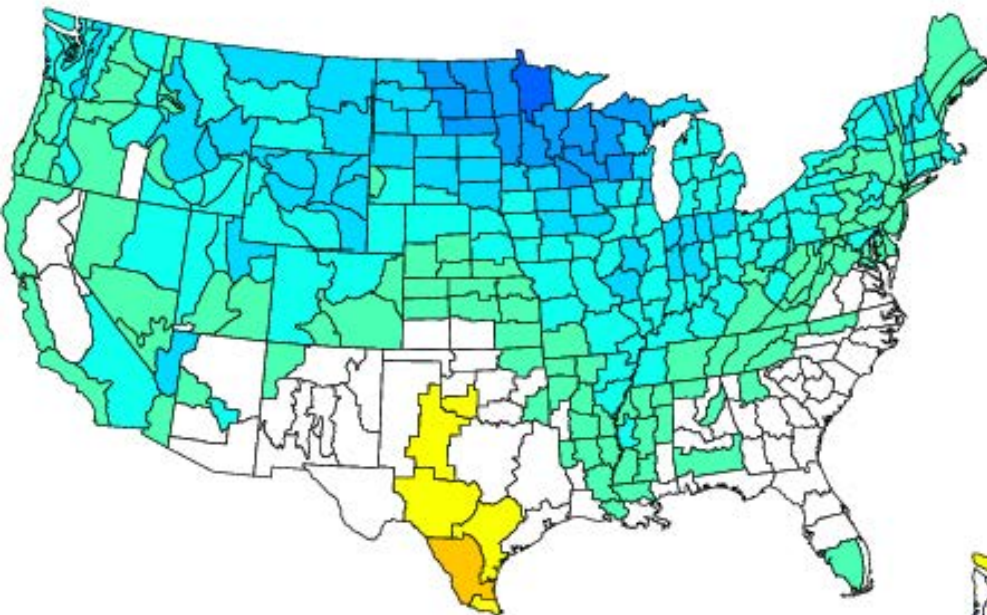
March

Valley Temperature & Precipitation for Analog Years 1917, 71, 74, 89, 08

Composite Precipitation Anomalies (inches)
Mar 1917, 1971, 1974, 1989, 2008
Versus 1971–2000 Longterm Average



Composite Temperature Anomalies (F)
Apr to Jun 1917,1971,1974,1989,2008
Versus 1971–2000 Longterm Average



April to June

Valley Temperature & Precipitation for Analog Years 1917, 71, 74, 89, 08

Composite Precipitation Anomalies (inches)
Apr to Jun 1917,1971,1974,1989,2008
Versus 1971–2000 Longterm Average

