Snake River Water Supply

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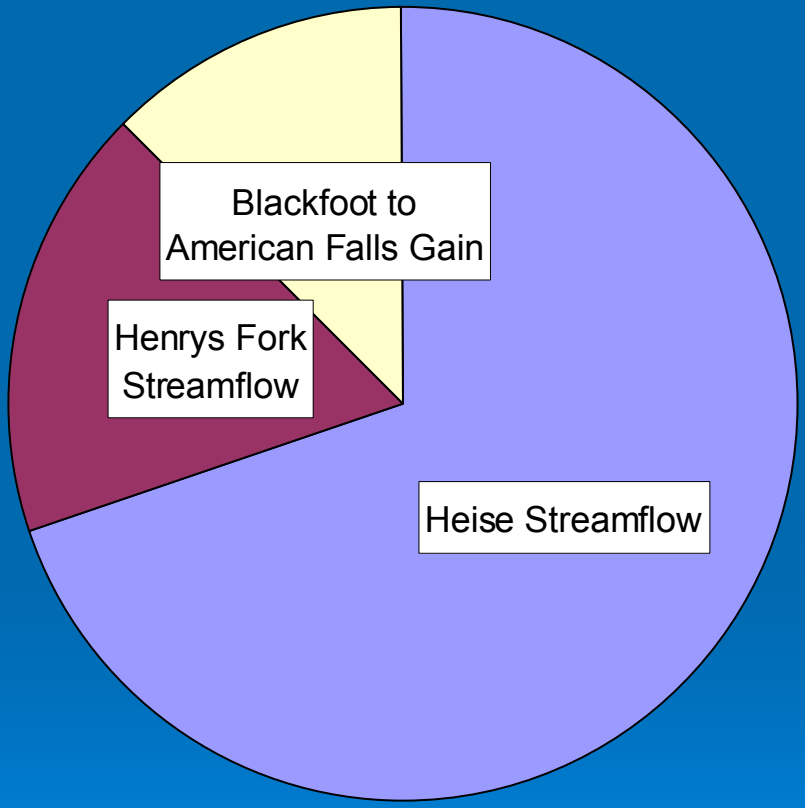
Snake River Area Office
Bureau of Reclamation
March 26, 2003

2002 Operations

- Snake River Water Sources
- Heise Runoff Volume
- Timing of Snowmelt Runoff
- Storage Supply Compared With 2001
- 2002-2003 Carryover

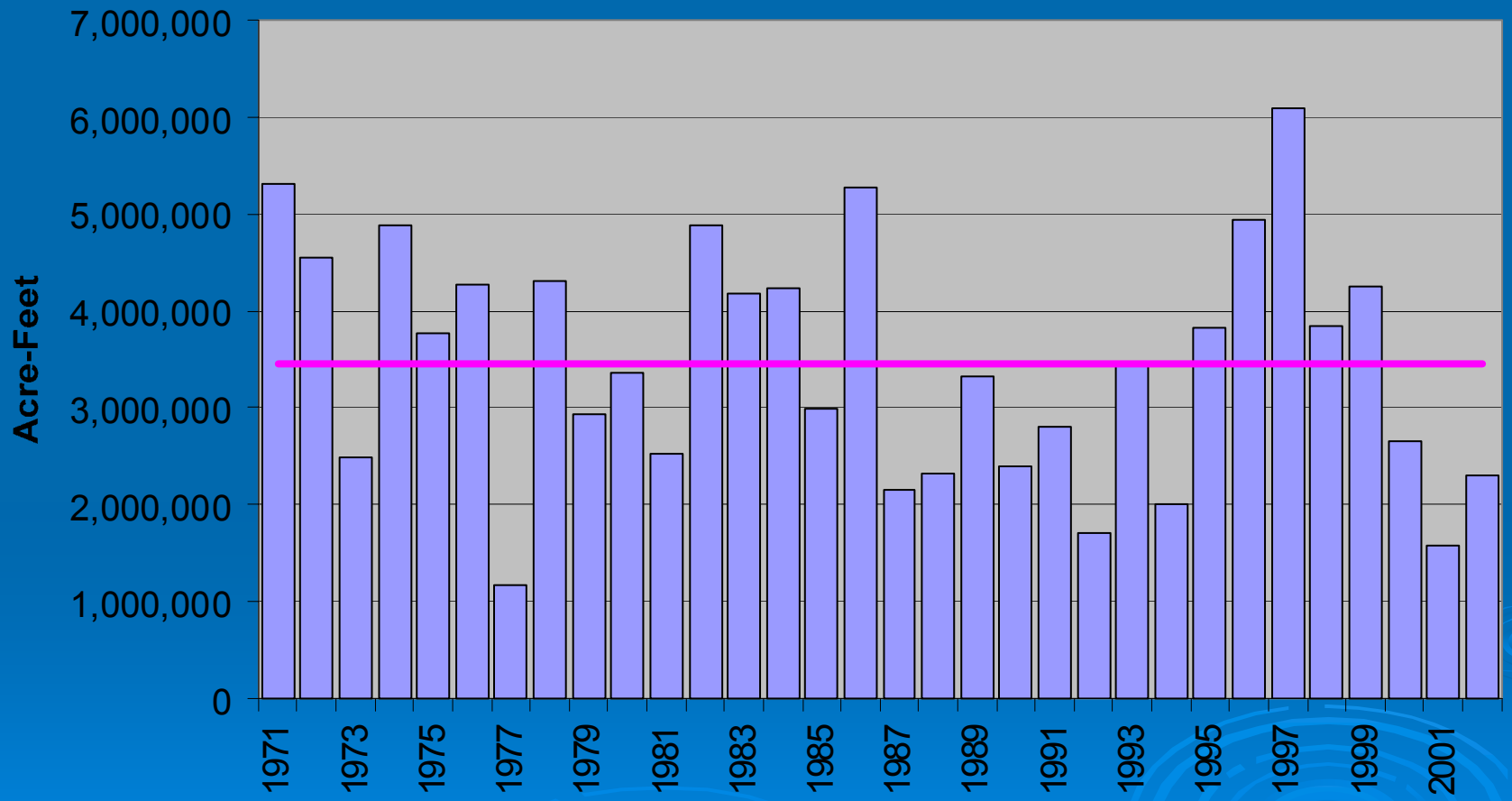
Upper Snake River

April through July Volumes, 30-year Average



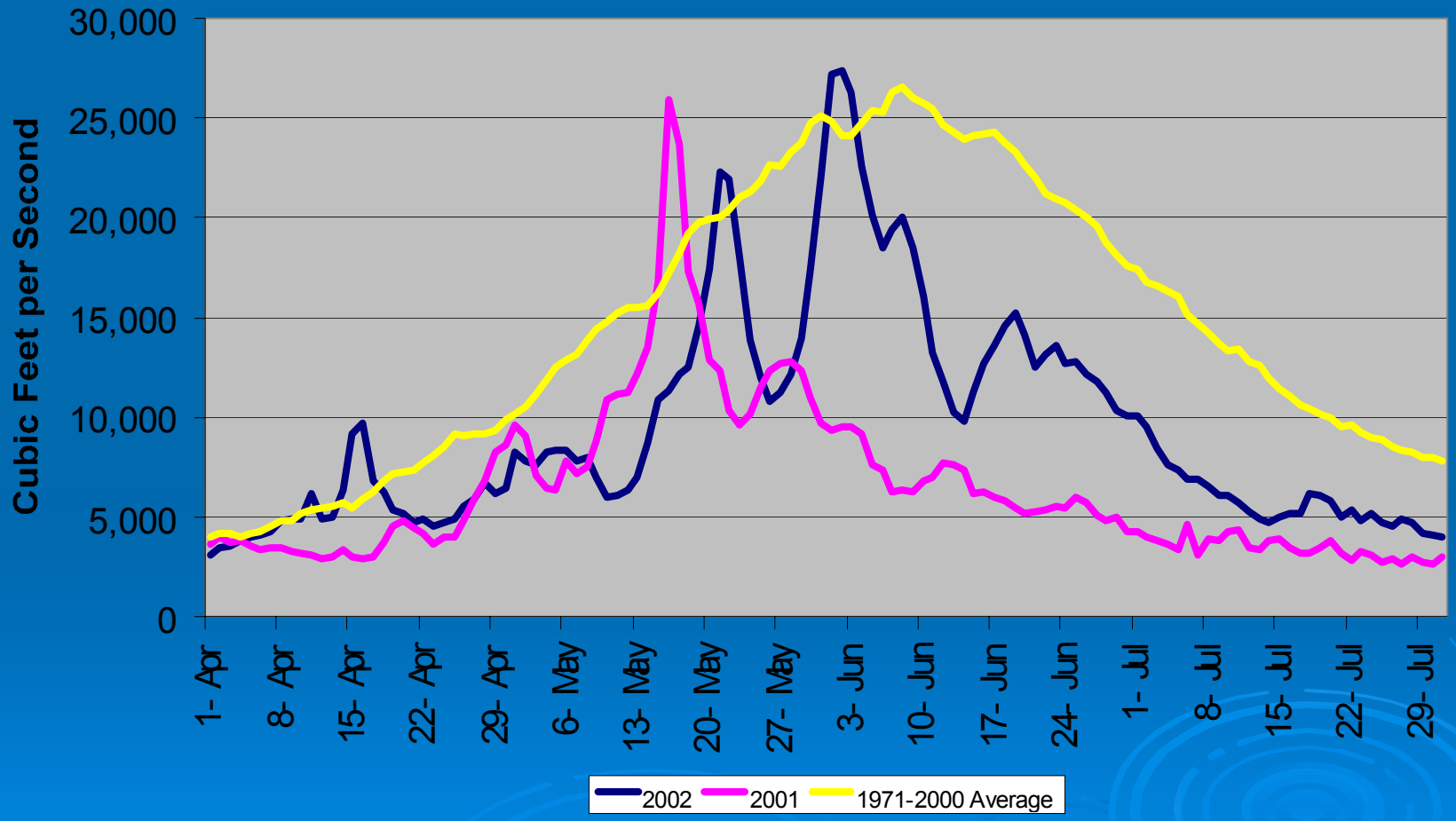
Snake River near Heise

April through July Runoff Volume



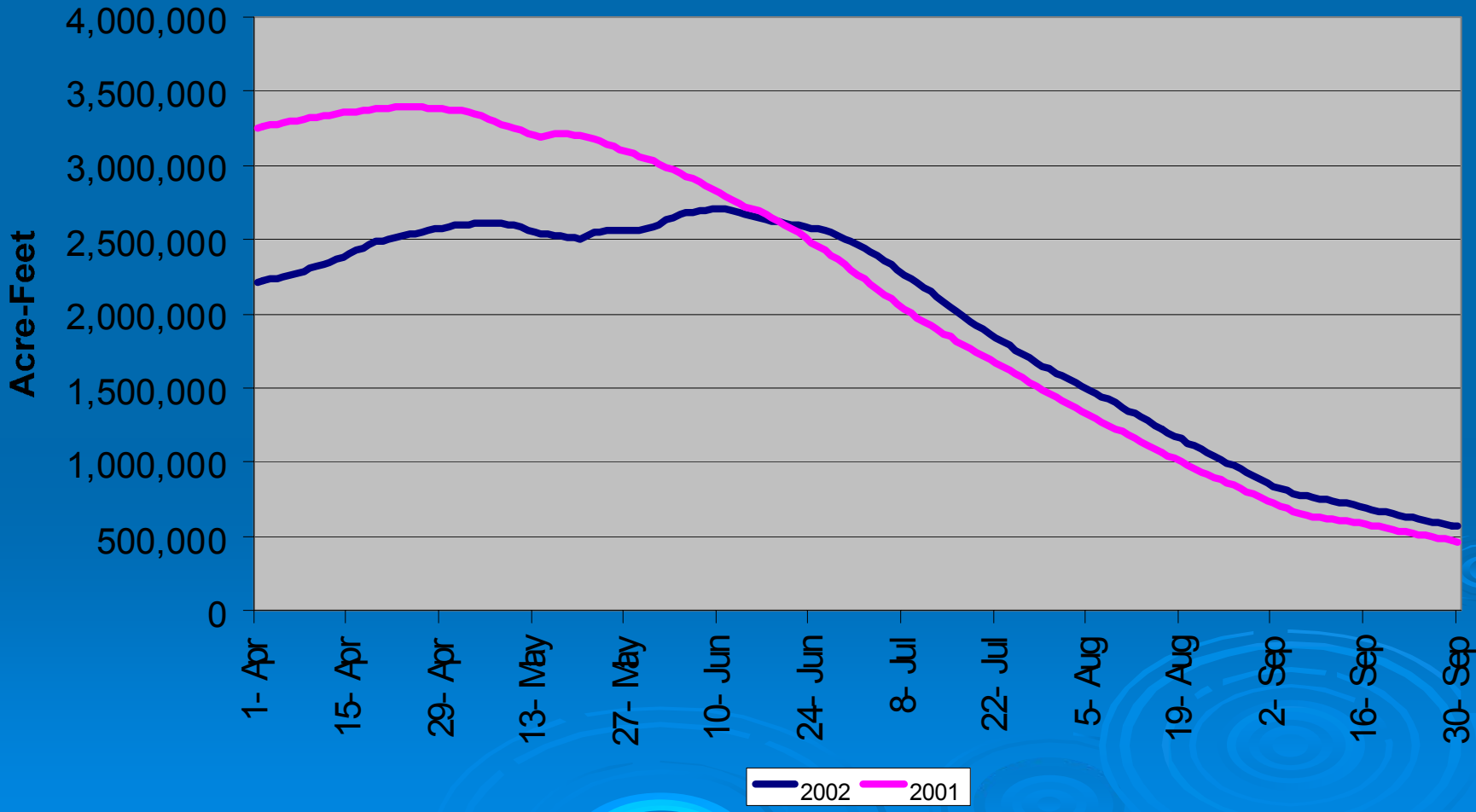
Snake River near Heise

Unregulated Flow



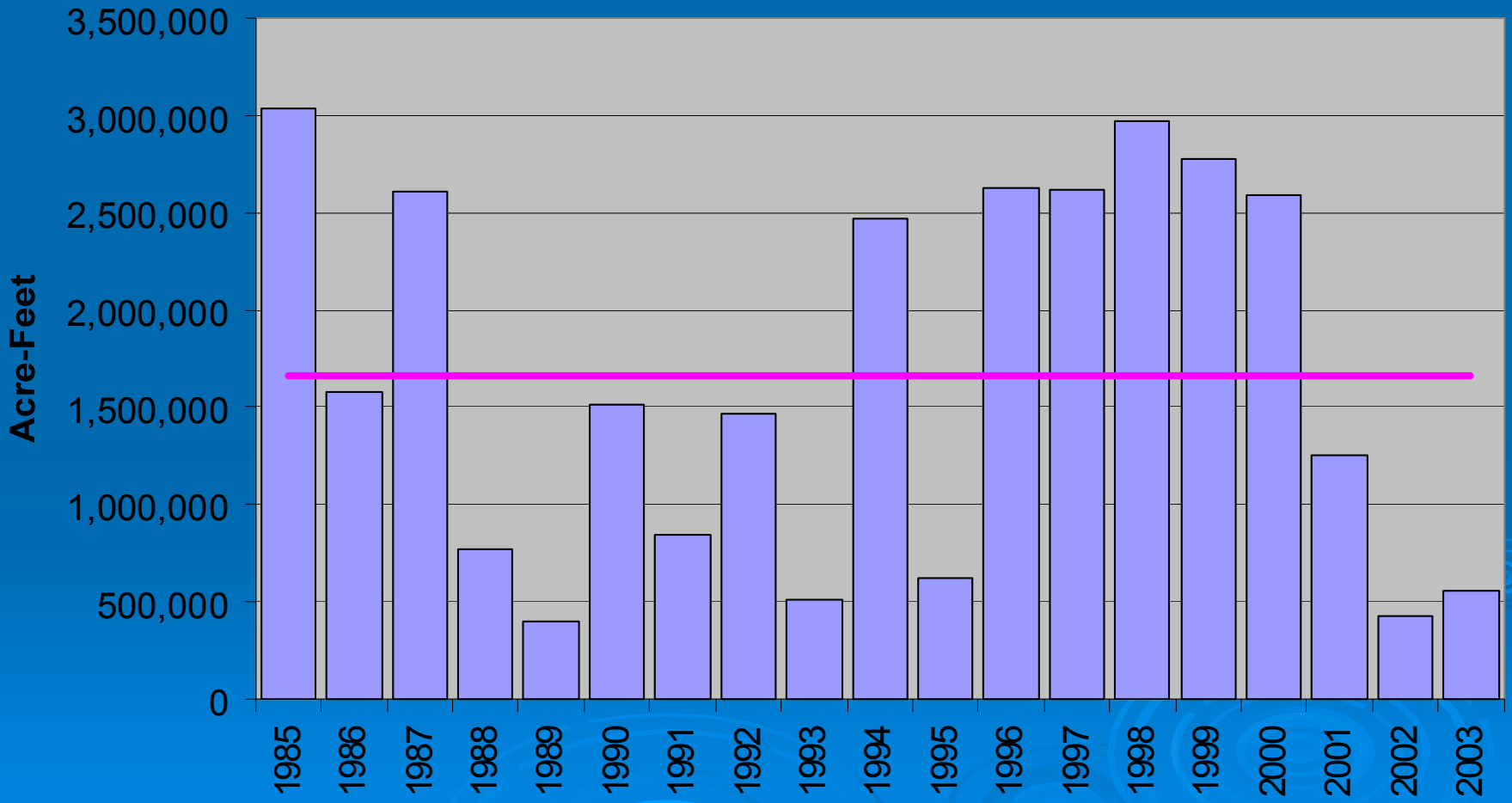
Upper Snake River

Total Storage



Upper Snake River Storage

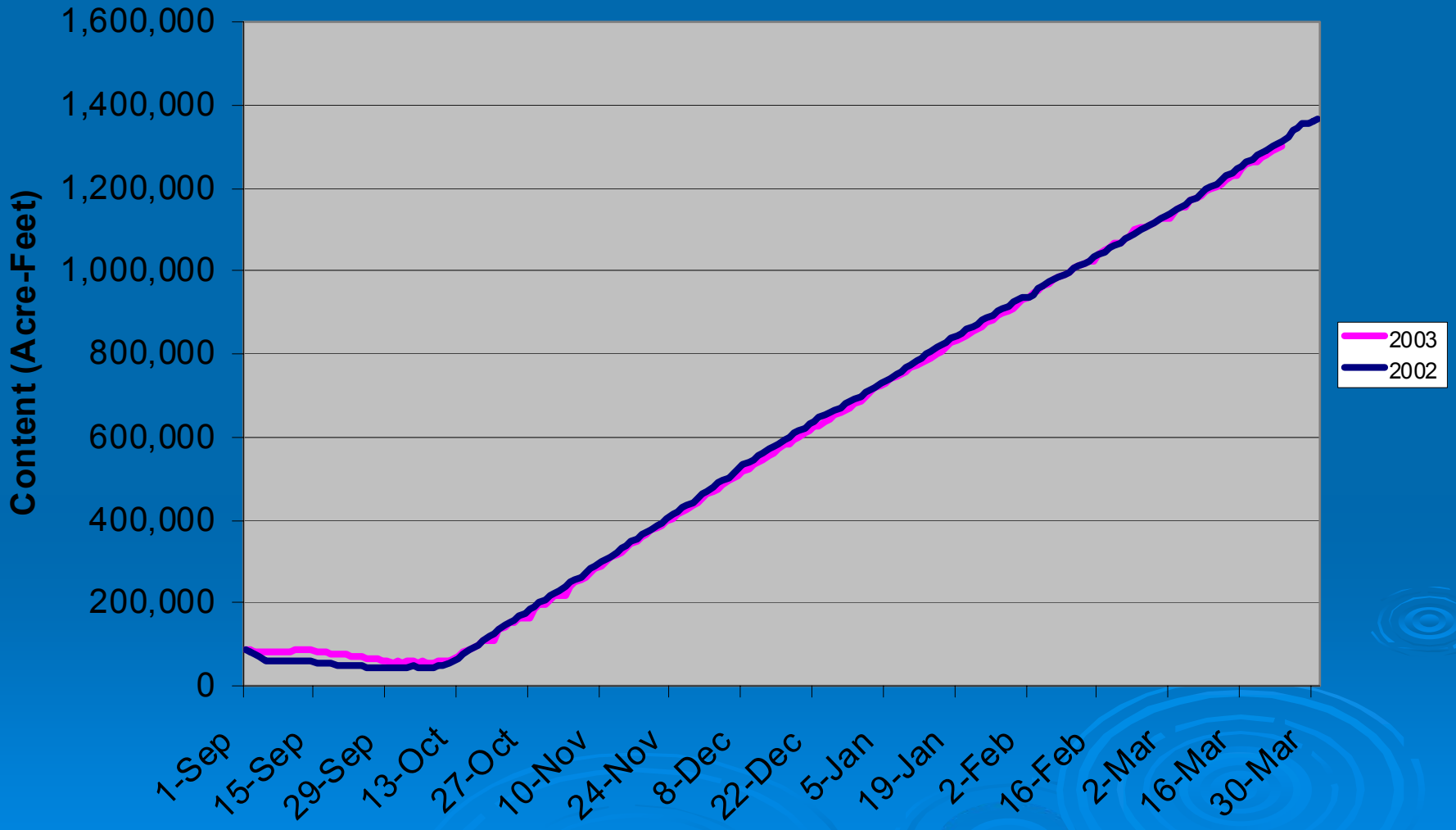
Minimum Reservoir Contents in October



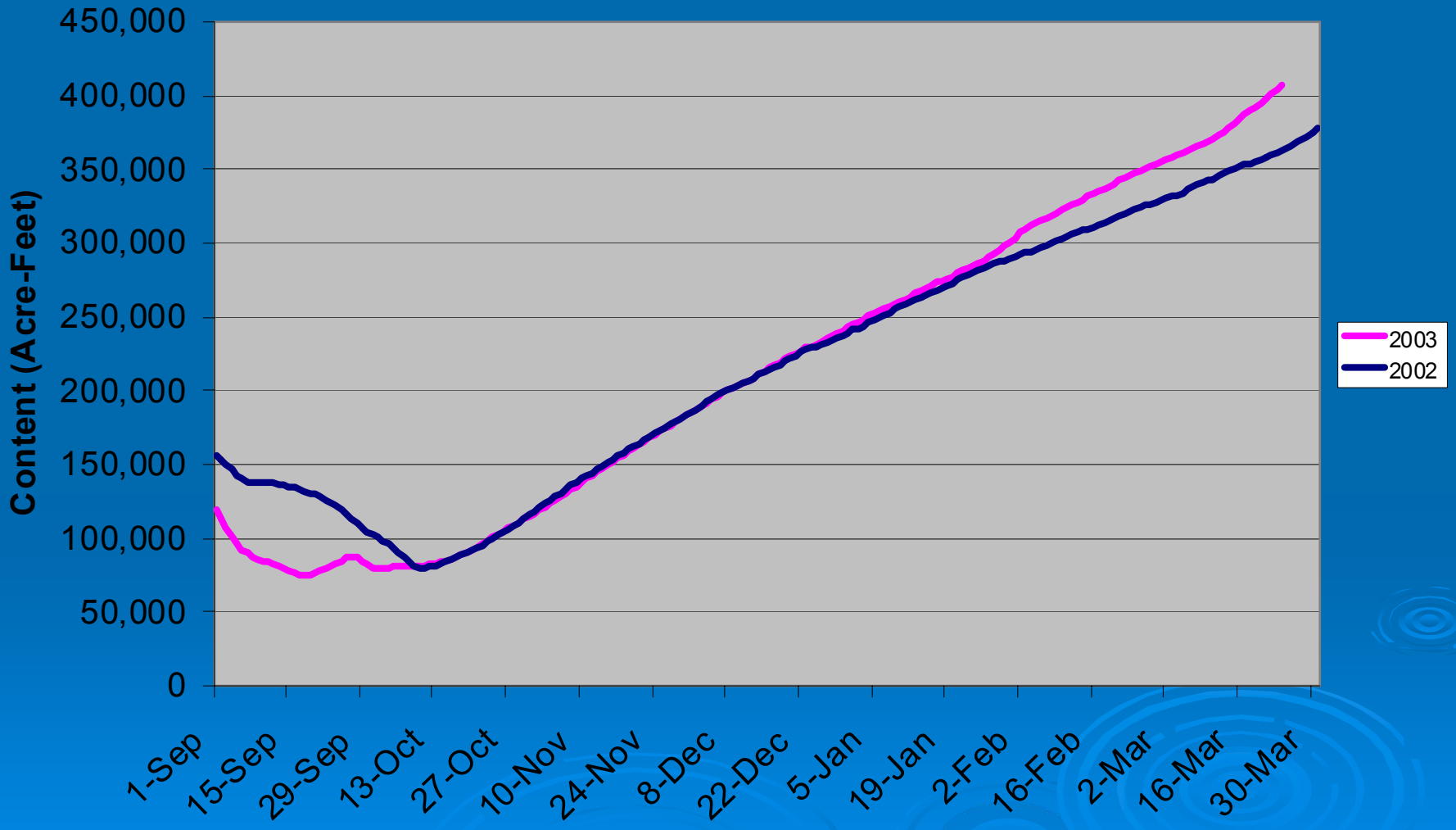
2003 Refill

- Reservoir by Reservoir
- System Total

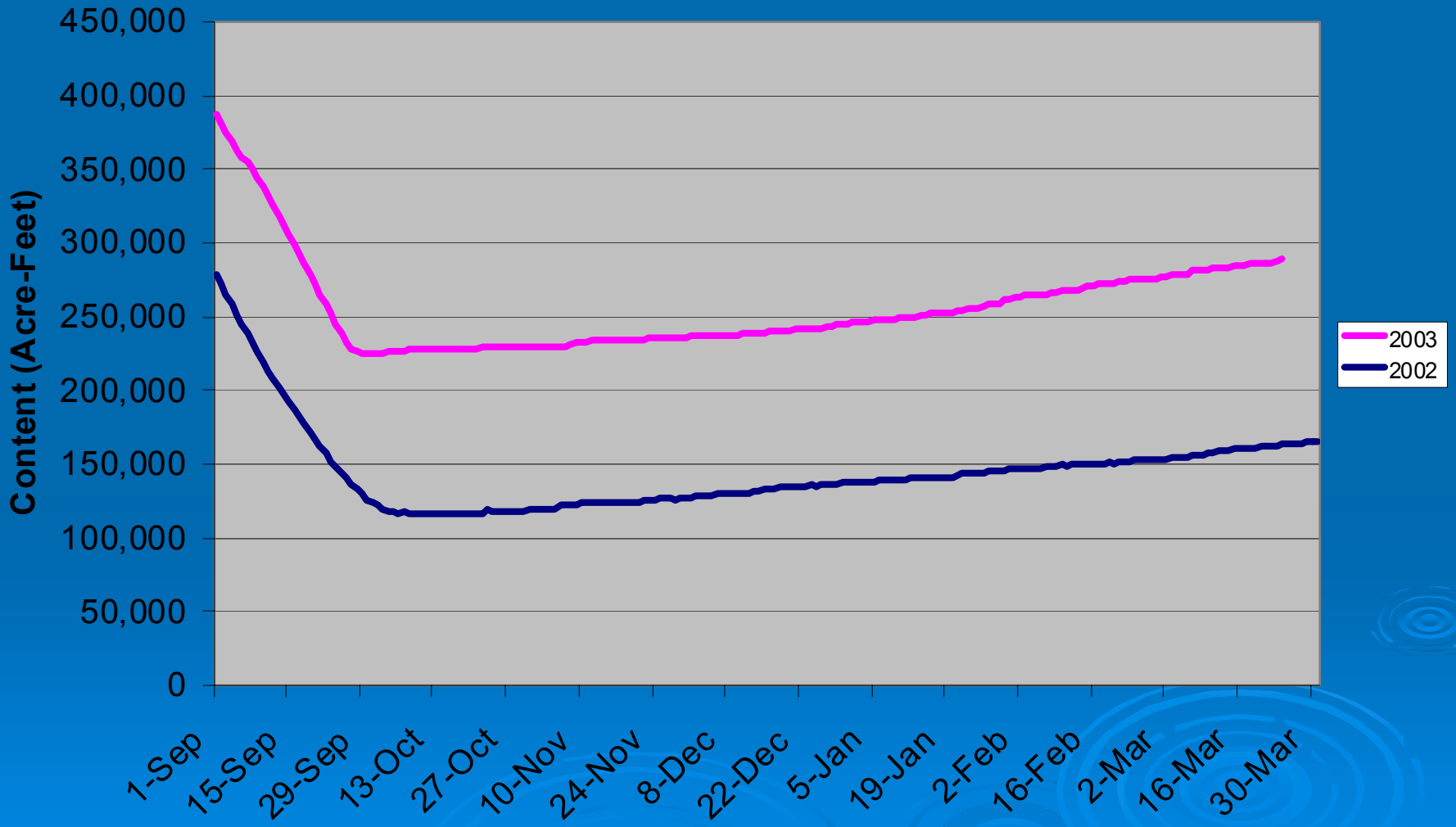
American Falls Reservoir

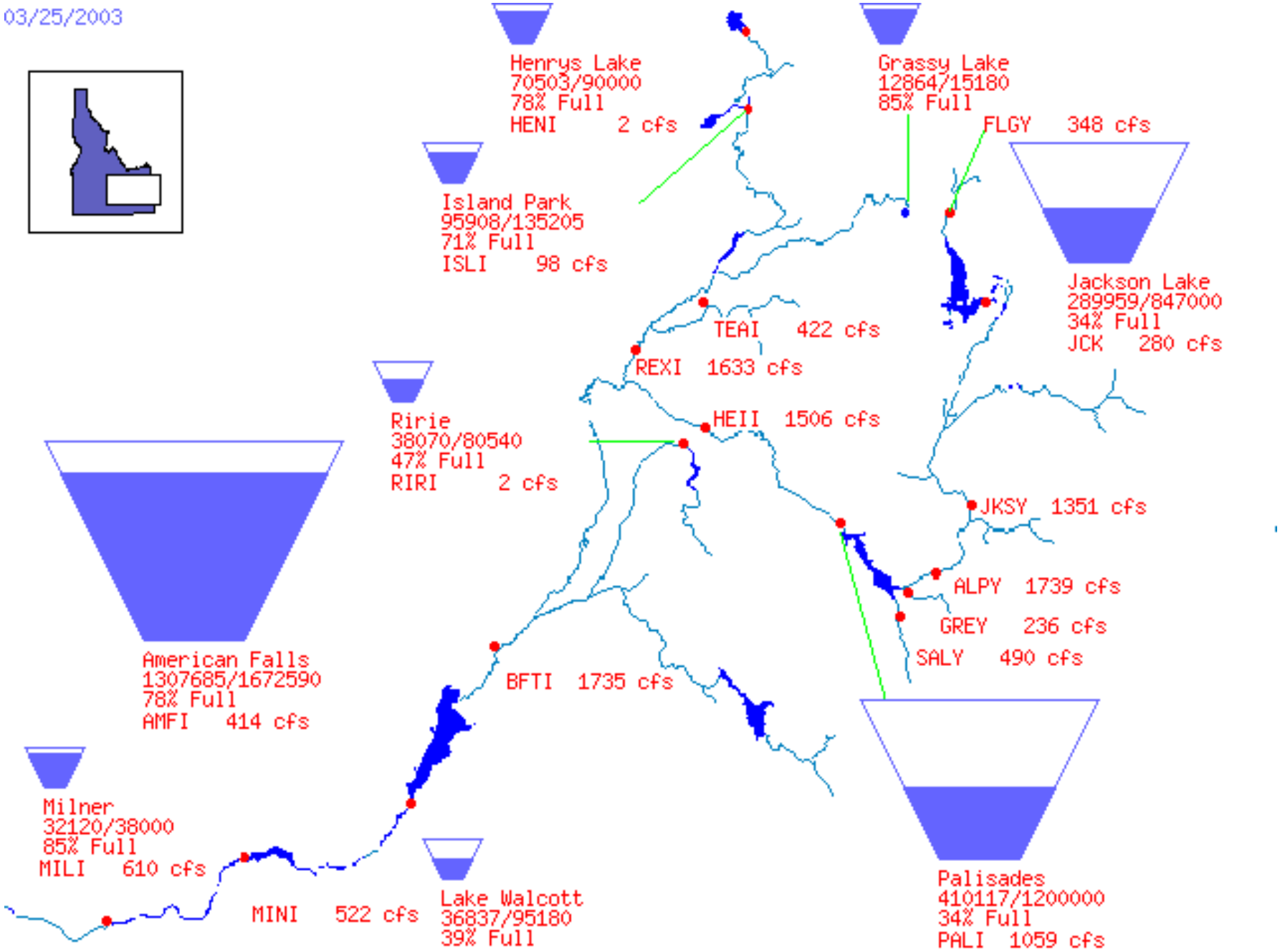


Palisades Reservoir



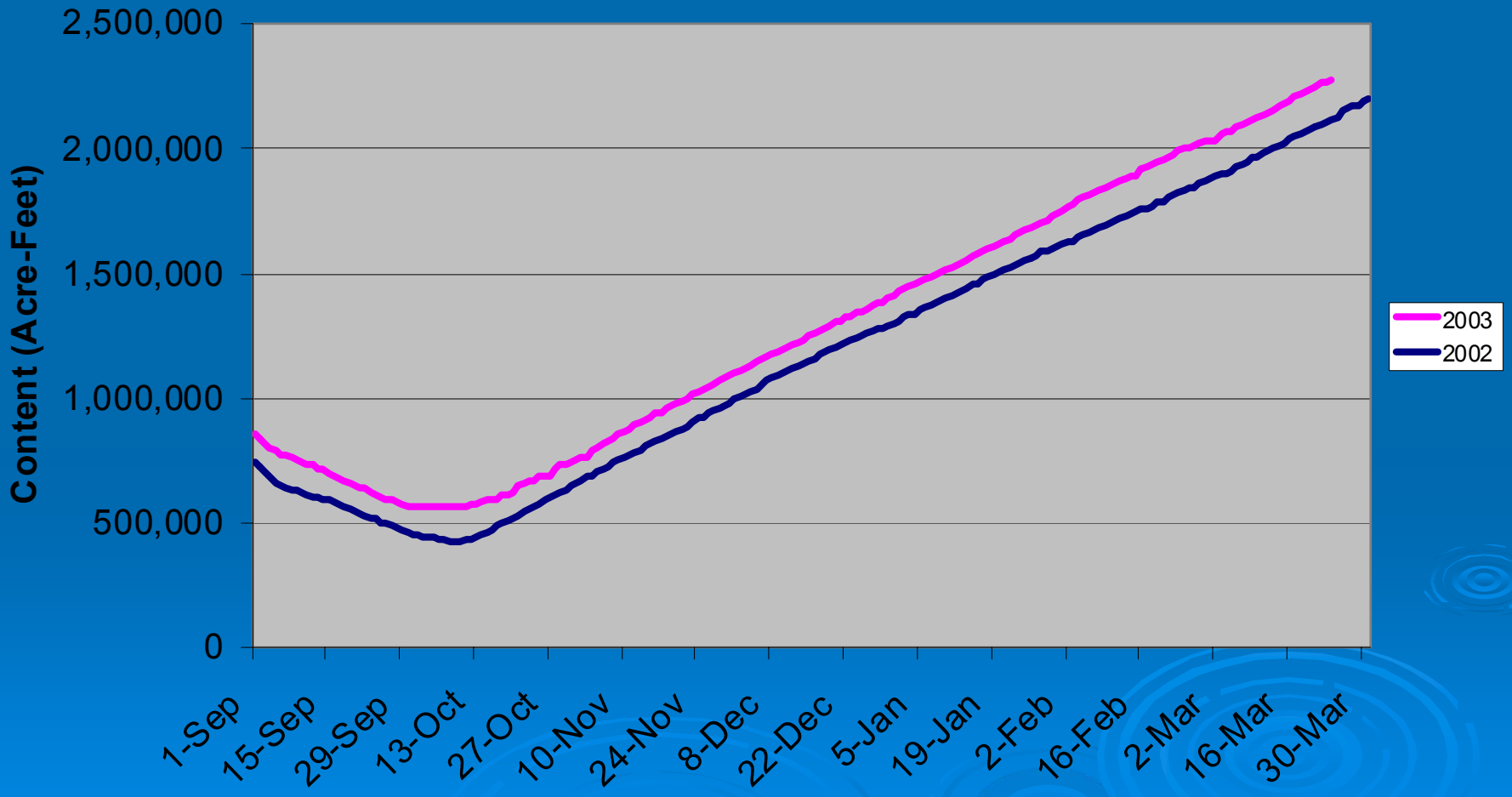
Jackson Lake Reservoir





http://mac1.pn.usbr.gov/hydromet/burtea.html

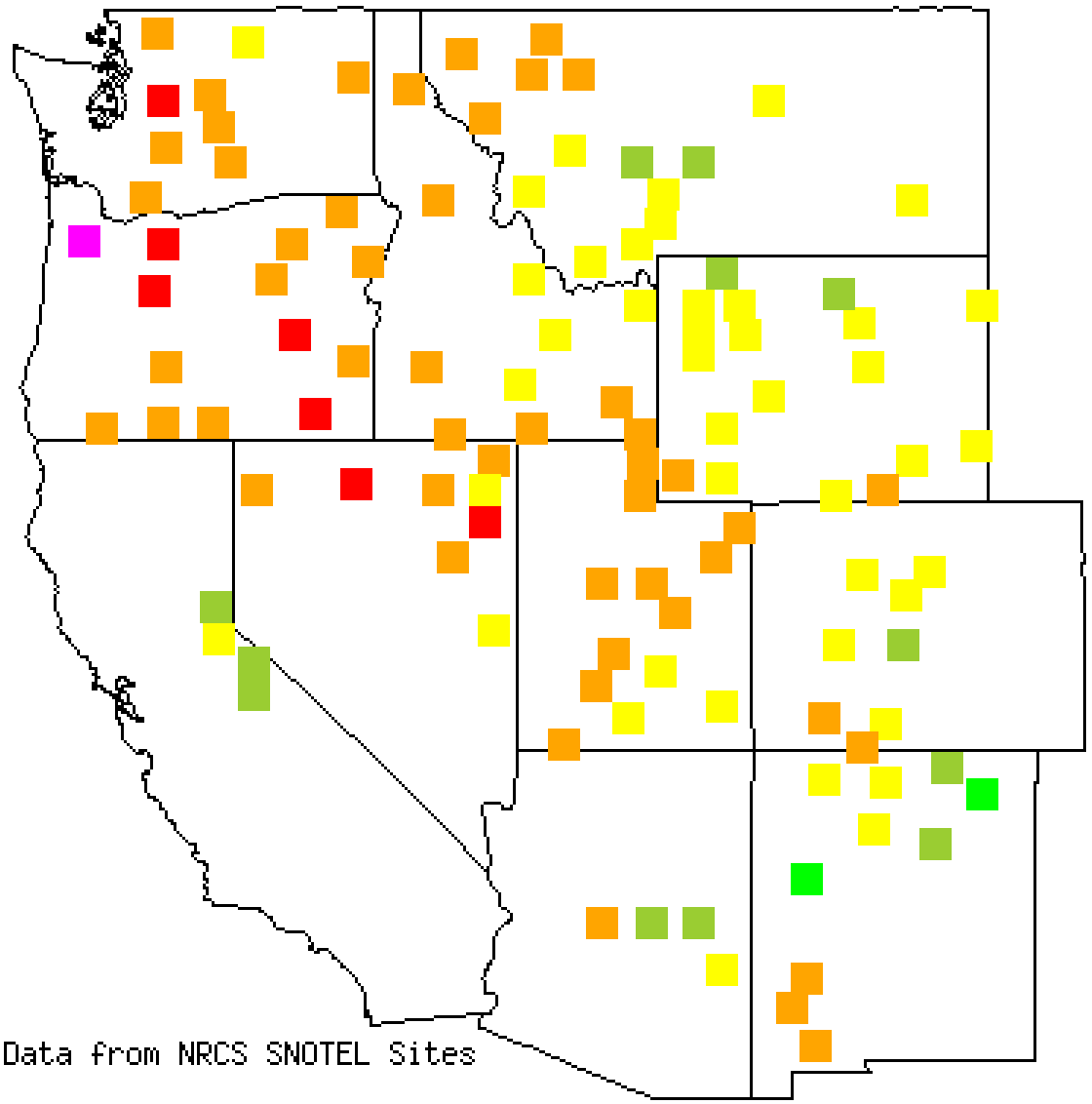
Upper Snake River
Total Storage



2003 Snow Accumulation

- Western US
- Above Jackson Lake
- What Next?

Basin Average Snow Water Content. (% of Average.)



Percent of Average

- > 200
- 175 to 200
- 150 to 175
- 125 to 150
- 110 to 125
- 90 to 110
- 75 to 90
- 50 to 75
- 25 to 50
- < 25

Report Date:

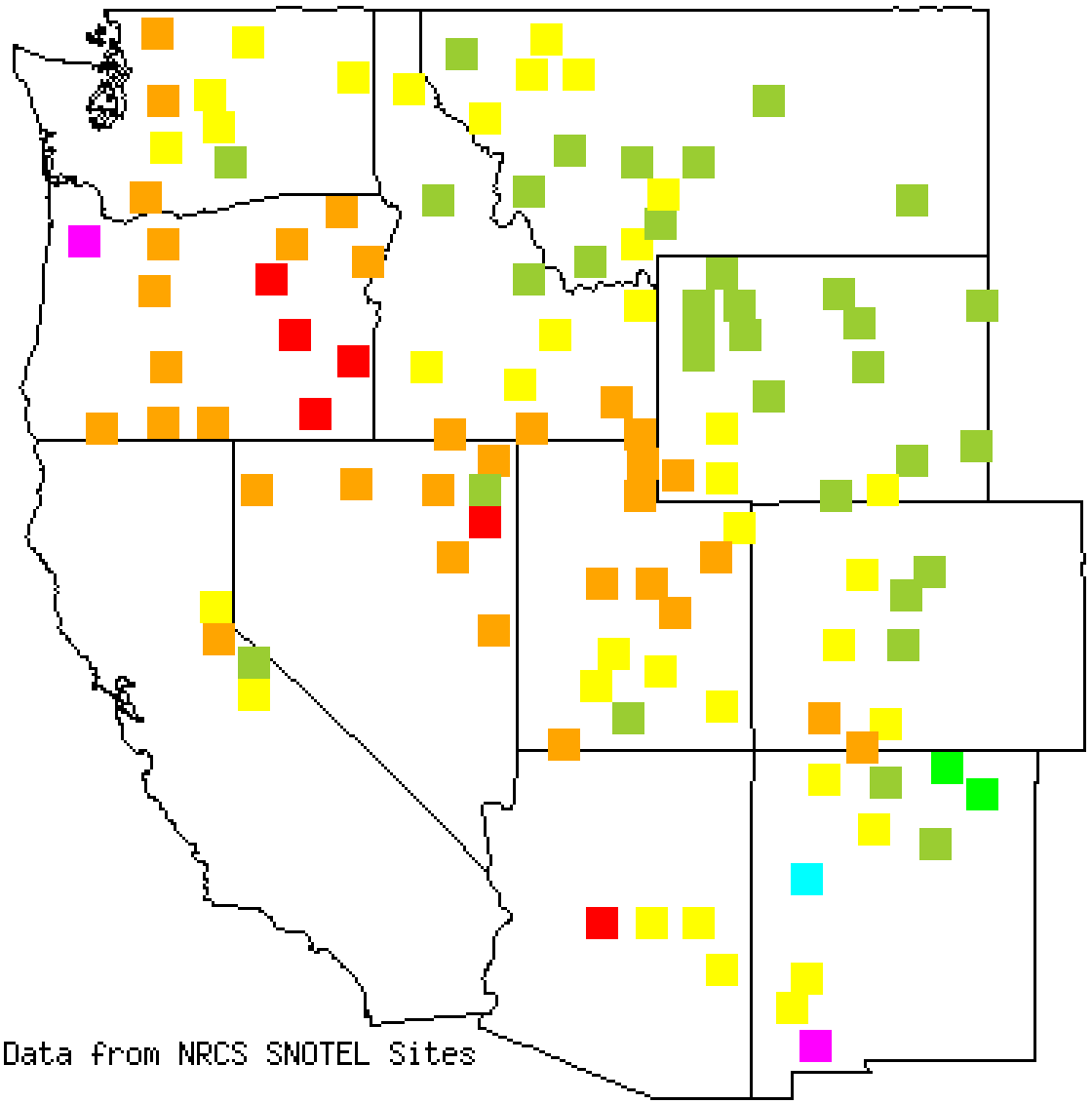
MARCH 2 , 2003

Provisional Data
Based on Mountain Data from NRCS SNOTEL Sites

Data provided by
Water and Climate Center
National Resource Conservation Service
Portland, Oregon

Western Regional Climate Center
Desert Research Institute
Reno, Nevada

Basin Average Snow Water Content. (% of Average.)



Percent of Average

- > 200
- 175 to 200
- 150 to 175
- 125 to 150
- 110 to 125
- 90 to 110
- 75 to 90
- 50 to 75
- 25 to 50
- < 25

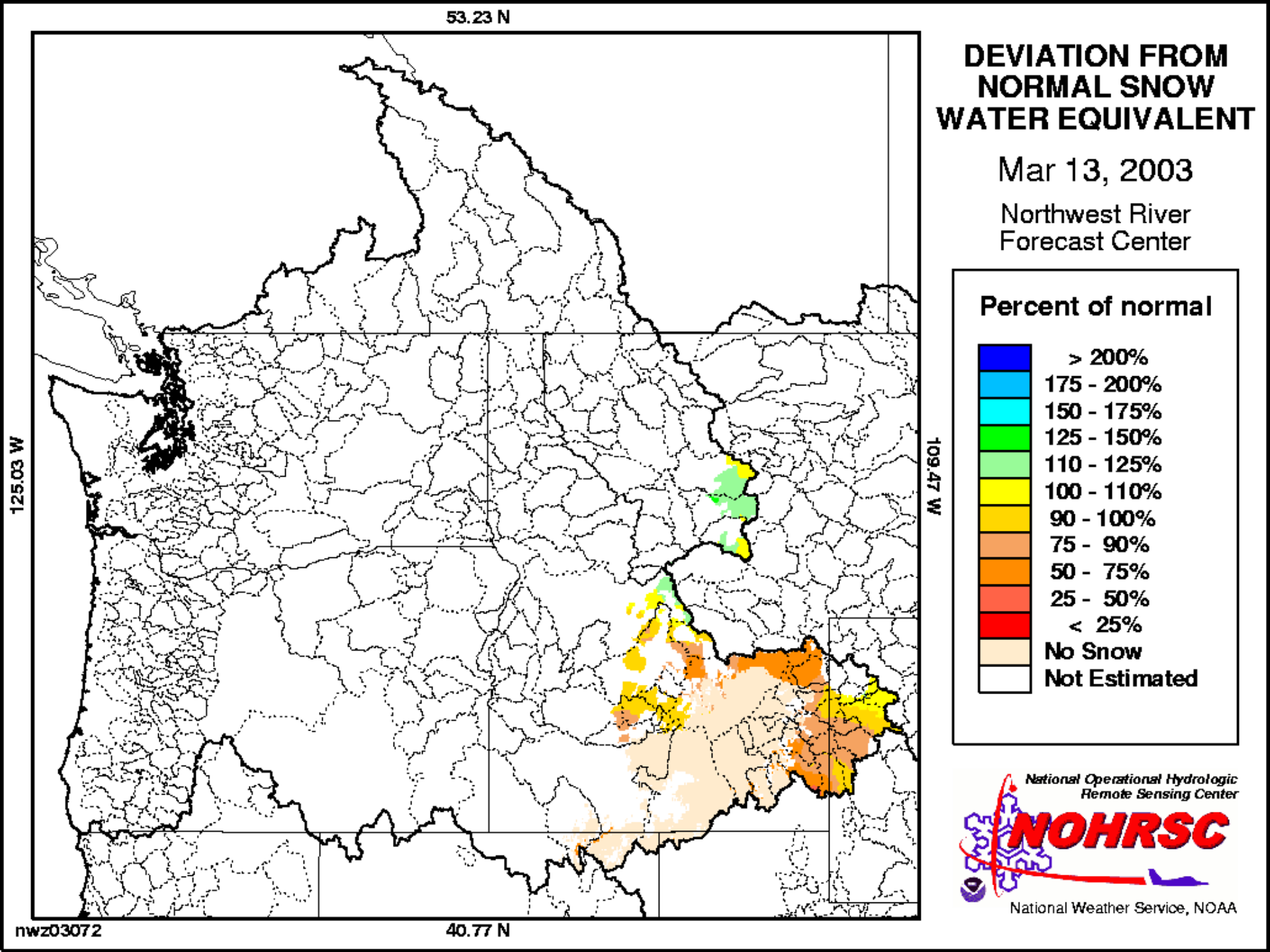
Report Date:

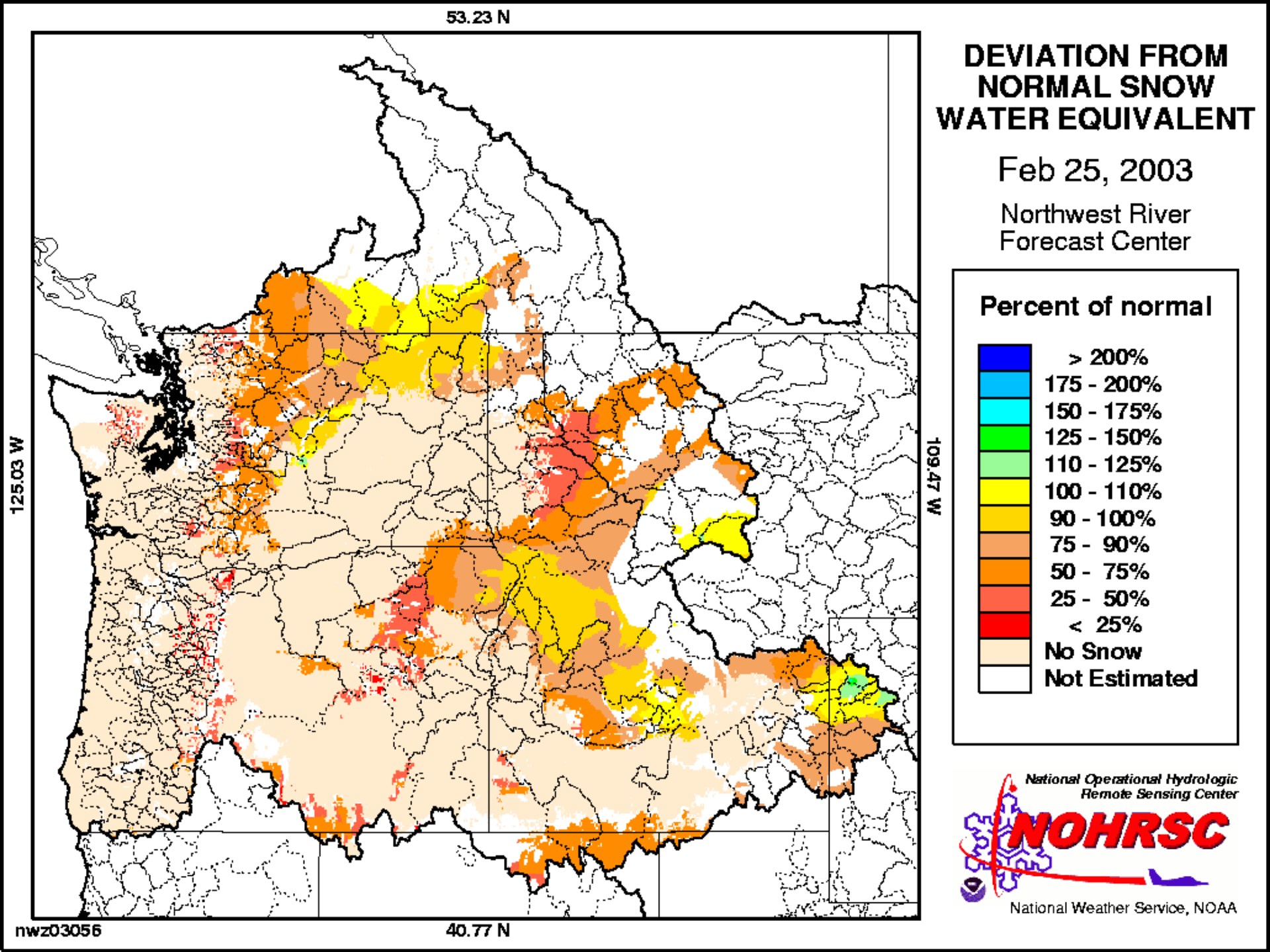
MARCH 25 , 2003

Provisional Data
Based on Mountain Data from NRCS SNOTEL Sites

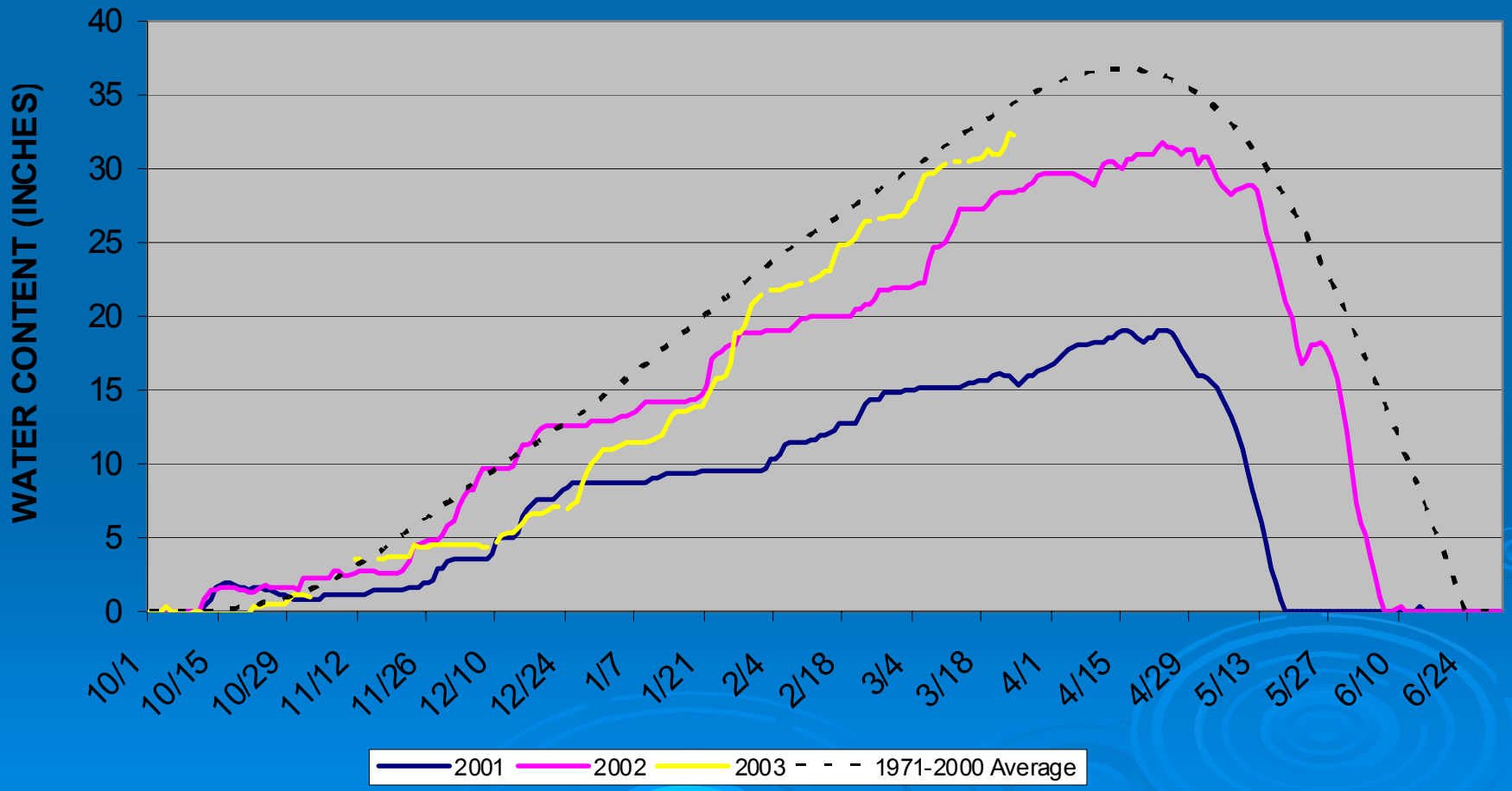
Data provided by
Water and Climate Center
National Resource Conservation Service
Portland, Oregon

Western Regional Climate Center
Desert Research Institute
Reno, Nevada

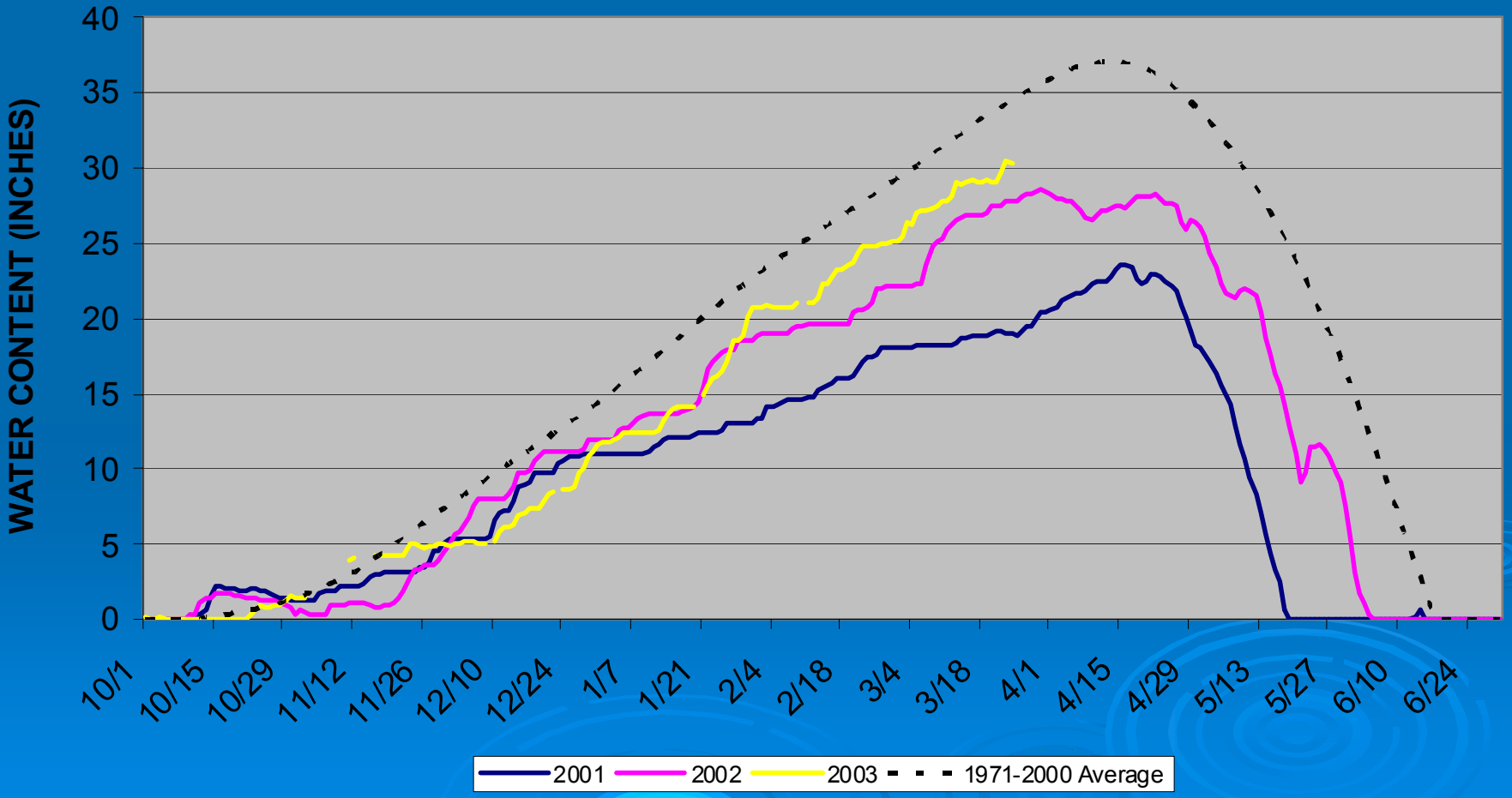

53.23 N
125.03 W
109.47 W
40.77 N
nwz03072
DEVIATION FROM NORMAL SNOW WATER EQUIVALENT
Mar 13, 2003
Northwest River Forecast Center
Percent of normal
> 200%
175 - 200%
150 - 175%
125 - 150%
110 - 125%
100 - 110%
90 - 100%
75 - 90%
50 - 75%
25 - 50%
< 25%
No Snow
Not Estimated
National Operational Hydrologic Remote Sensing Center
NOHRSC
National Weather Service, NOAA

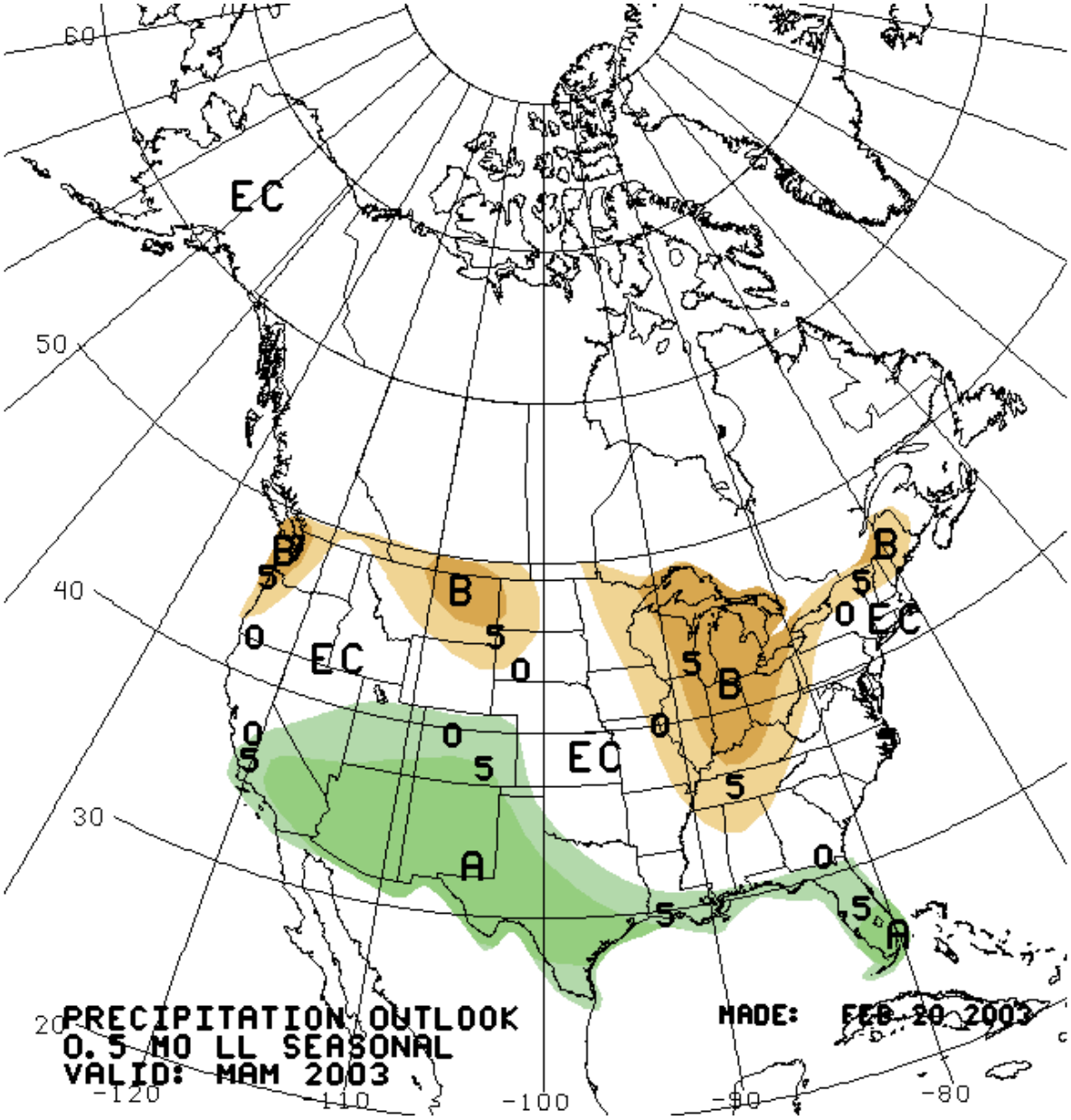

53.23 N
125.03 W
109.47 W
40.77 N
nwz03056
DEVIATION FROM NORMAL SNOW WATER EQUIVALENT
Feb 25, 2003
Northwest River Forecast Center
Percent of normal
> 200%
175 - 200%
150 - 175%
125 - 150%
110 - 125%
100 - 110%
90 - 100%
75 - 90%
50 - 75%
25 - 50%
< 25%
No Snow
Not Estimated
National Operational Hydrologic Remote Sensing Center
NOHRSC
National Weather Service, NOAA

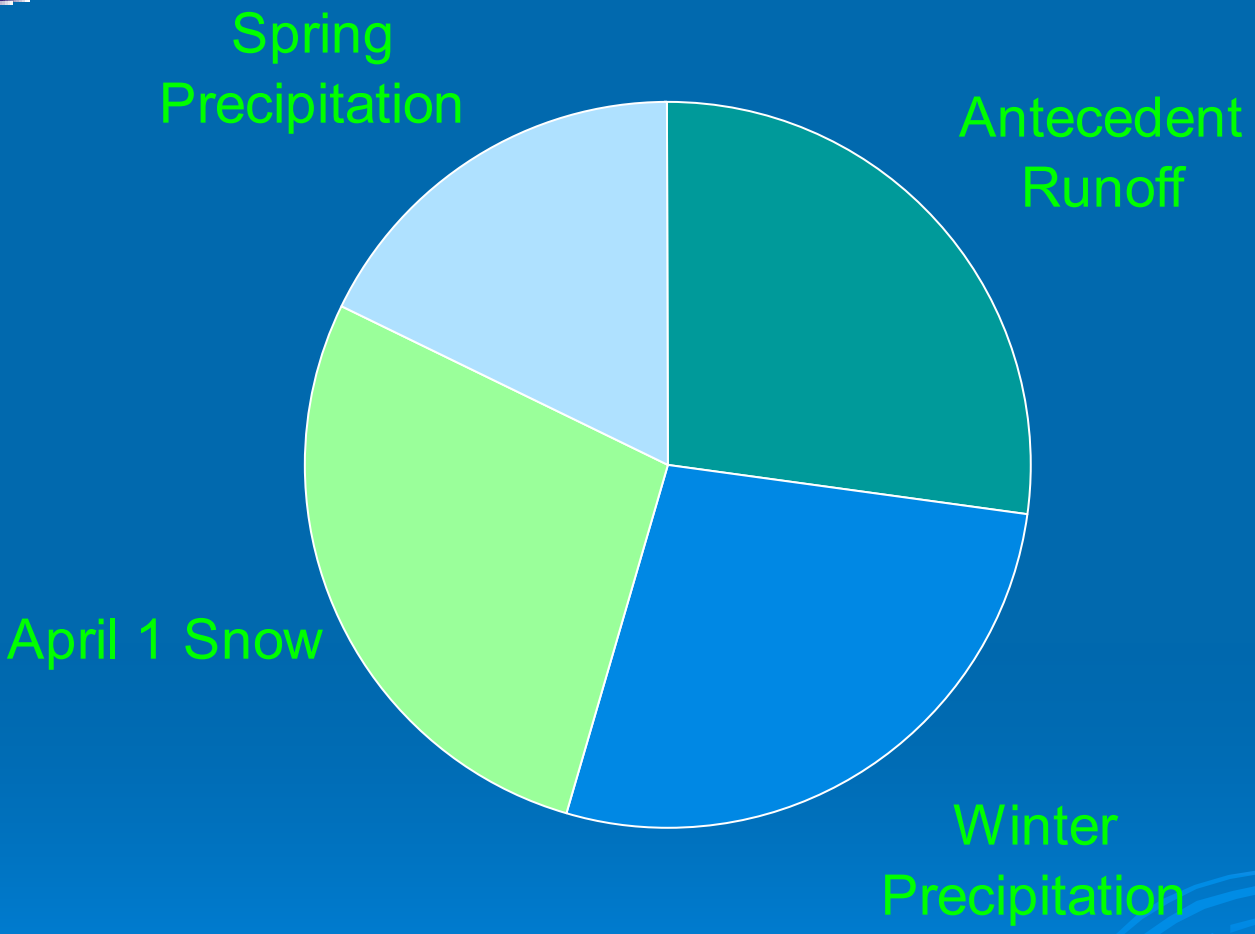
SNOW WATER CONTENT
LEWIS LAKE DIVIDE



SNOW WATER CONTENT
GRASSY LAKE

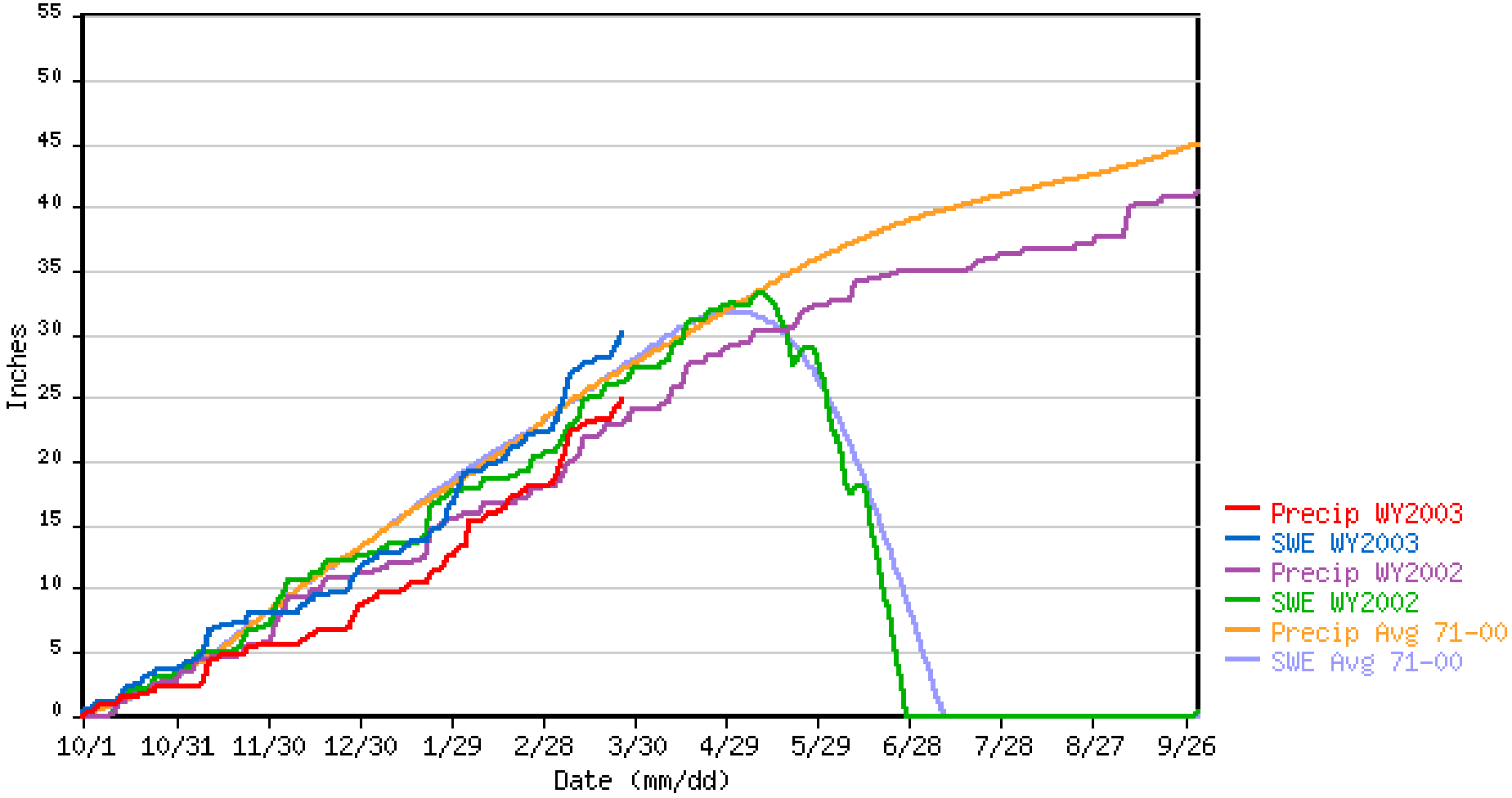



PRECIPITATION OUTLOOK
0.5 MO LL SEASONAL
VALID: MAM 2003
MADE: FEB 20 2003
EC
B
O
A
60
50
40
30
20
-120
-110
-100
-90
-80


Spring Precipitation
Antecedent Runoff
April 1 Snow
Winter Precipitation

TWO OCEAN PLATEAU SNOTEL as of 03/26/2003

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



Summary

- Storage is Higher than 2002
- Snowpack is Wetter than 2002
- Upper Snake Better Off Than Neighbors
- Time Remains for Change