C/007/005 Incoming

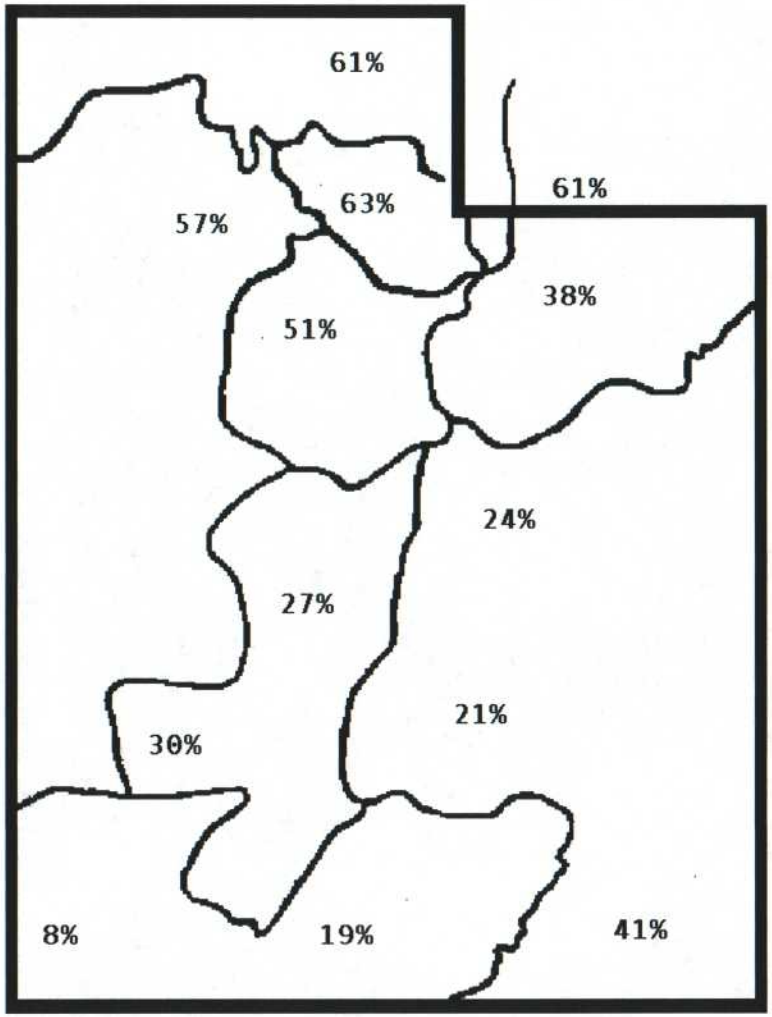
Lowlights from the 2002 Snow Season!

1. Record low snowpacks for the Sevier and Southwest Utah
2. Uintah Basin, Price, San Rafael and Southeast Utah - near record low snowpacks… bottom 2 or 3!
3. April snowmelt runs 150 to 250% of normal yet produces only marginal streamflow!
4. All of southern Utah melts out by May. The Sevier, Price, San Rafael and Central Utah melt out by mid-May.
5. All sites statewide are melted out by early June, 4 to 8 weeks early!

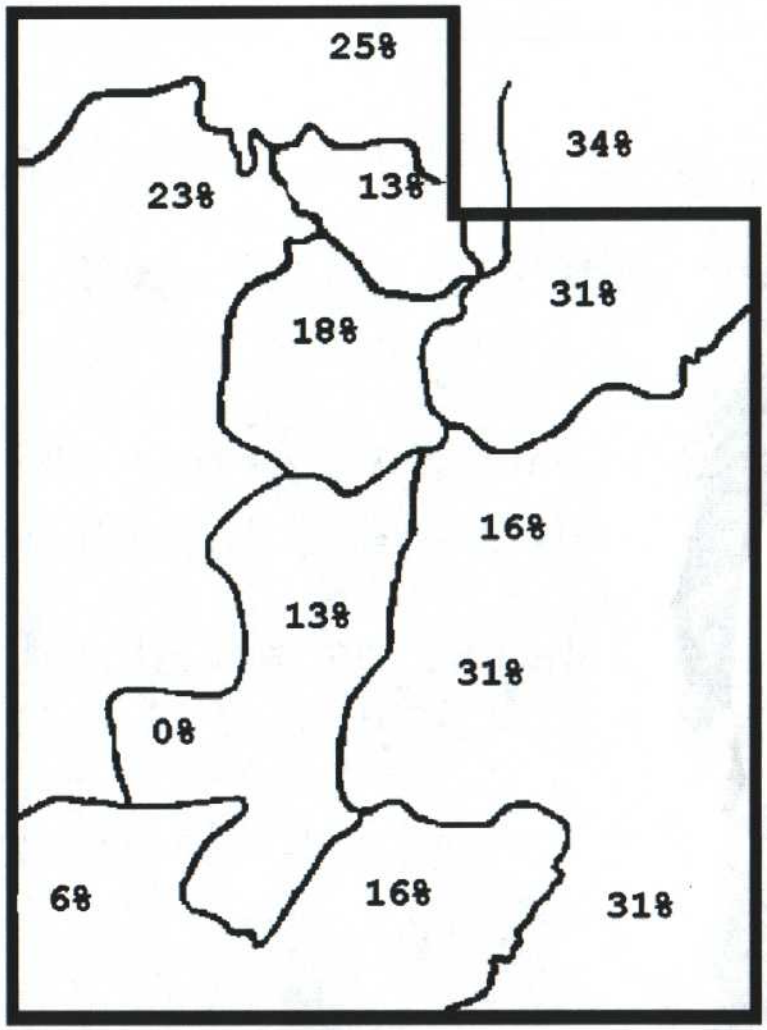
0025

RECEIVED
JUL 1 0 2002
DIV OF OIL GAS & MINING

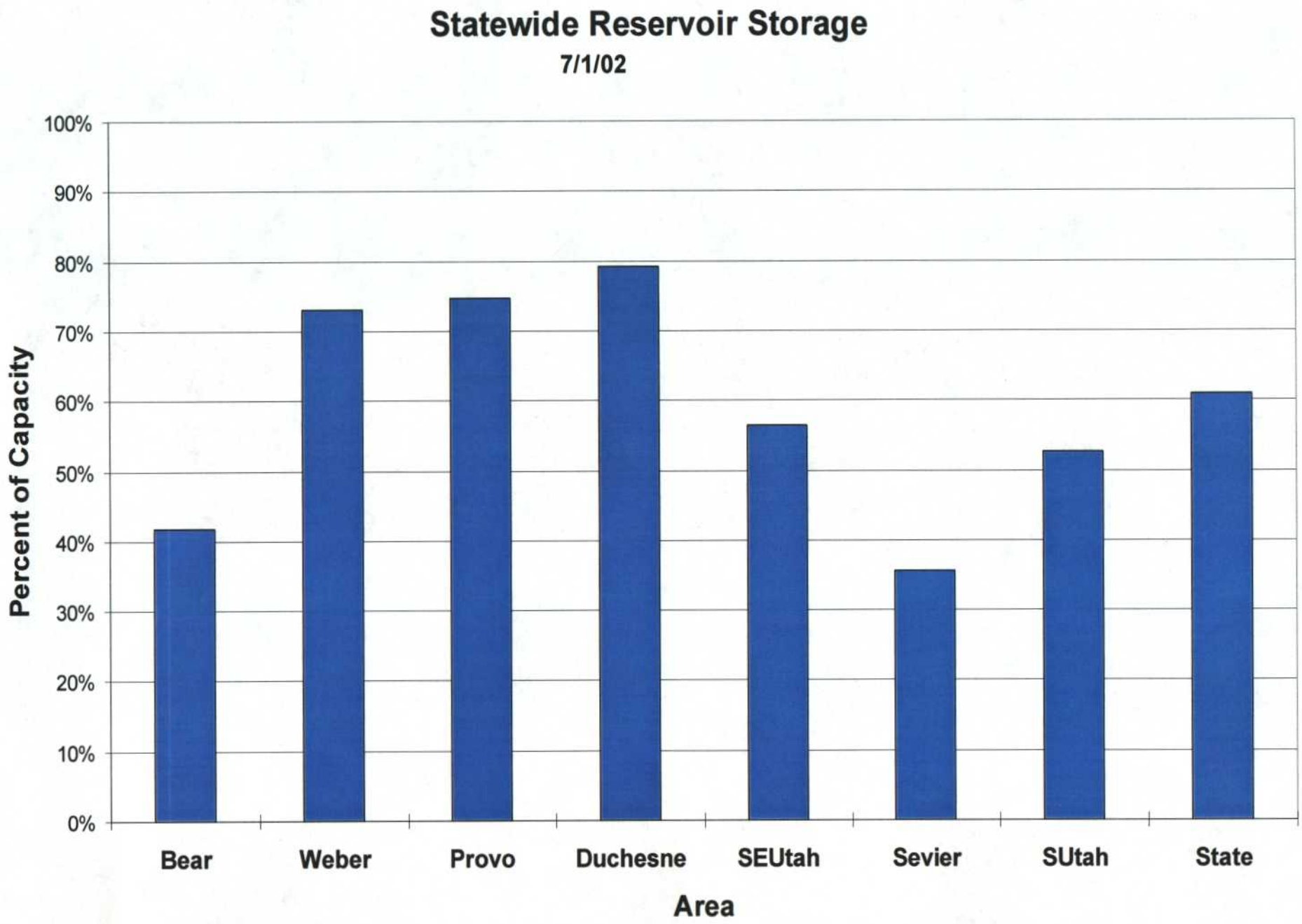
May



June

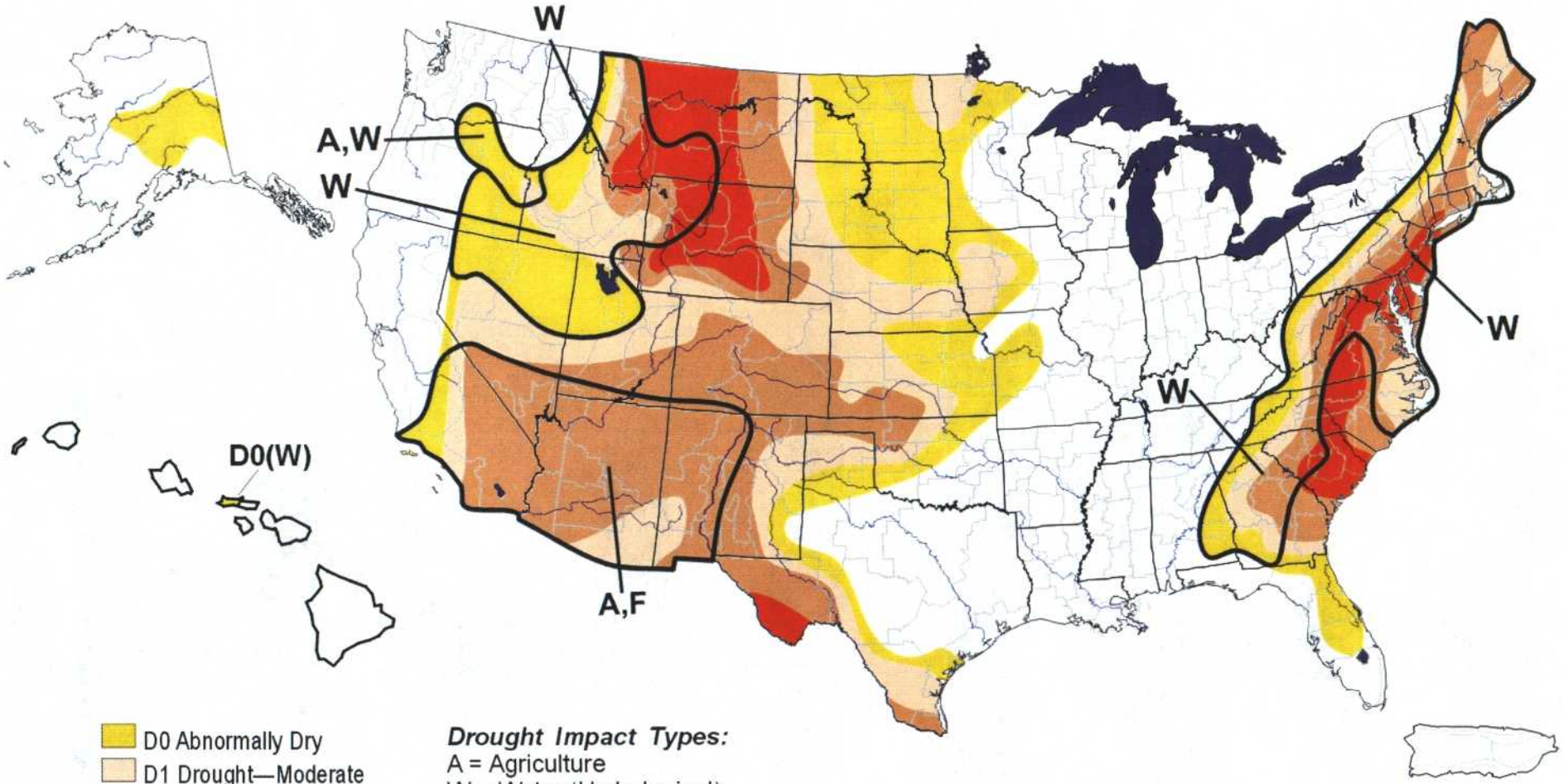


RECEIVED


Statewide Reservoir Storage
7/1/02
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Percent of Capacity
Bear
Weber
Provo
Duchesne
SEUtah
Sevier
SUtah
State
Area

U.S. Drought Monitor

April 16, 2002
Valid 8 a.m. EDT



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

Drought Impact Types:
A = Agriculture
W = Water (Hydrological)
F = Fire danger (Wildfires)
Delineates dominant impacts
(No type = All 3 impacts)

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

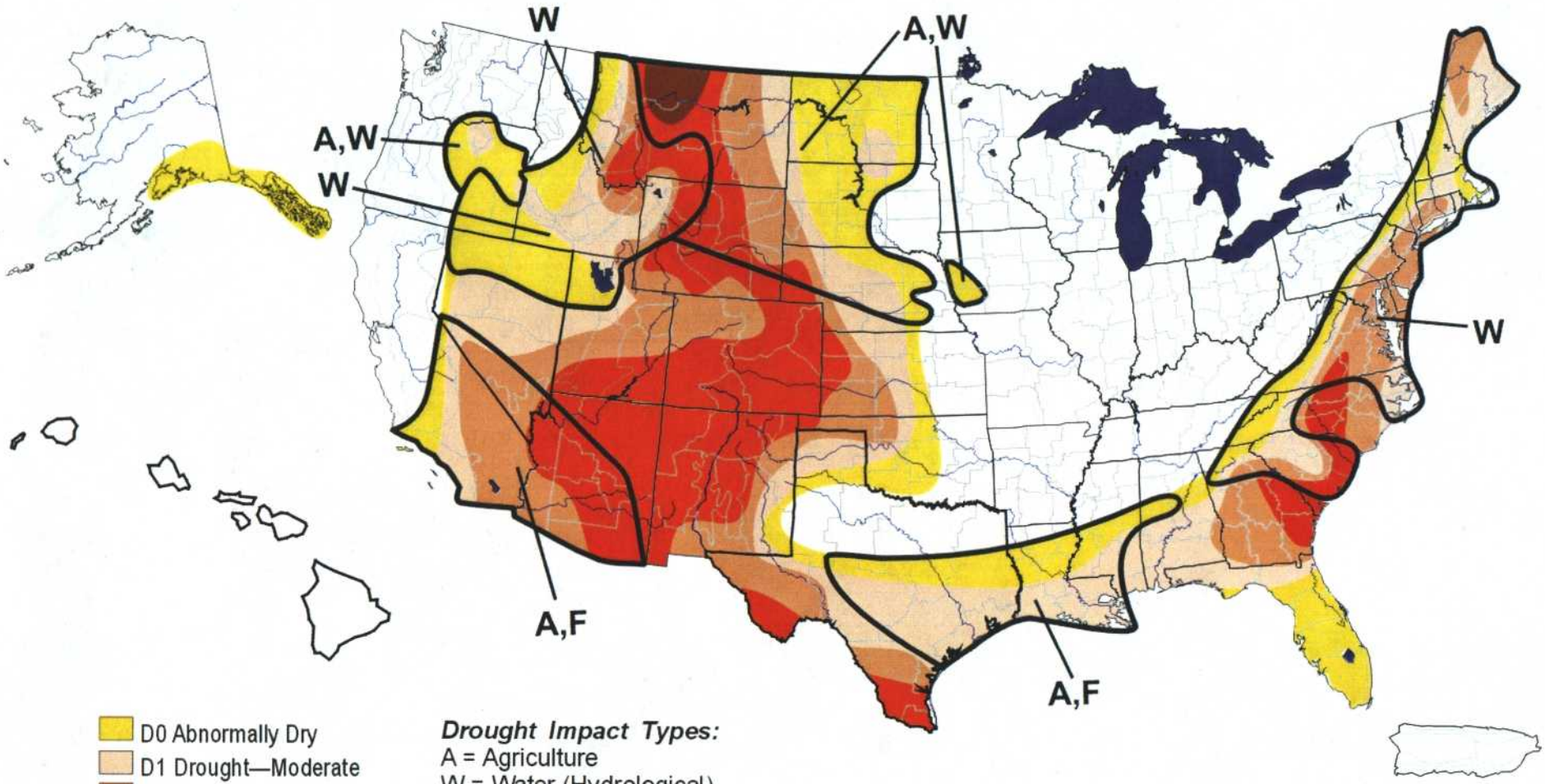
http://drought.unl.edu/dm

Released Thursday, April 18, 2002

Author: *David Miskus, JAWF/CPC/NOAA*

U.S. Drought Monitor

May 14, 2002
Valid 8 a.m. EDT



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

Drought Impact Types:
A = Agriculture
W = Water (Hydrological)
F = Fire danger (Wildfires)
/ Delineates dominant impacts
(No type = All 3 impacts)

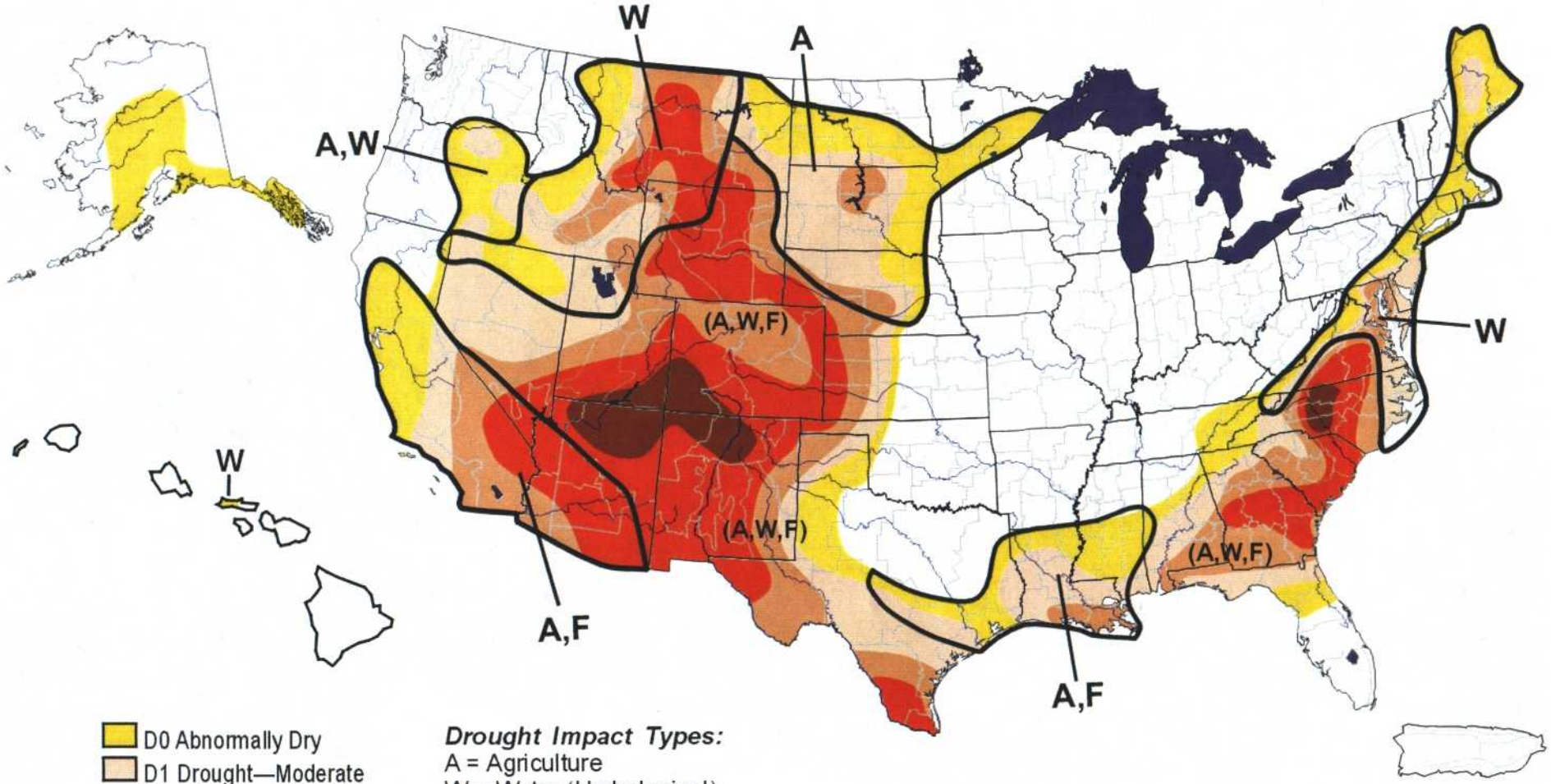
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://drought.unl.edu/dm

Released Thursday, May 16, 2002
Author: *Richard Tinker, NOAA/NWS/CPC*

U.S. Drought Monitor

June 18, 2002
Valid 8 a.m. EDT



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

Drought Impact Types:
A = Agriculture
W = Water (Hydrological)
F = Fire danger (Wildfires)
Delineates dominant impacts
(No type = All 3 impacts)

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

http://drought.unl.edu/dm

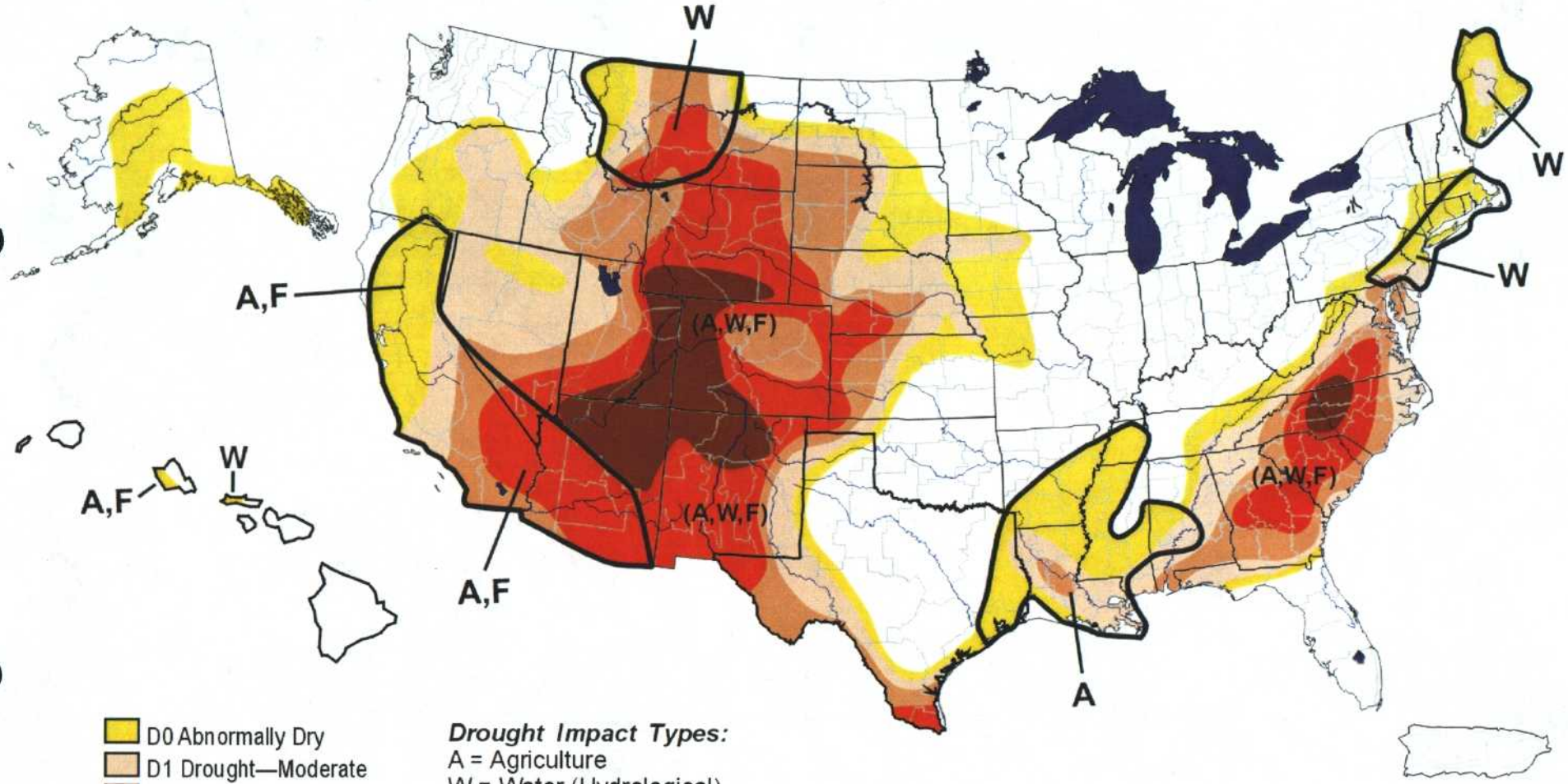
USDA | National Drought Mitigation Center | Department of Commerce | NOAA

Released Thursday, June 20, 2002

Author: *David Miskus, JAWF/CPC/NOAA*

U.S. Drought Monitor

July 9, 2002
Valid 8 a.m. EDT



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

Drought Impact Types:
A = Agriculture
W = Water (Hydrological)
F = Fire danger (Wildfires)
Delineates dominant impacts
(No type = All 3 impacts)

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, July 11, 2002
Author: *Mark Svoboda, NDMC*

Red: record low

Brown: <10%

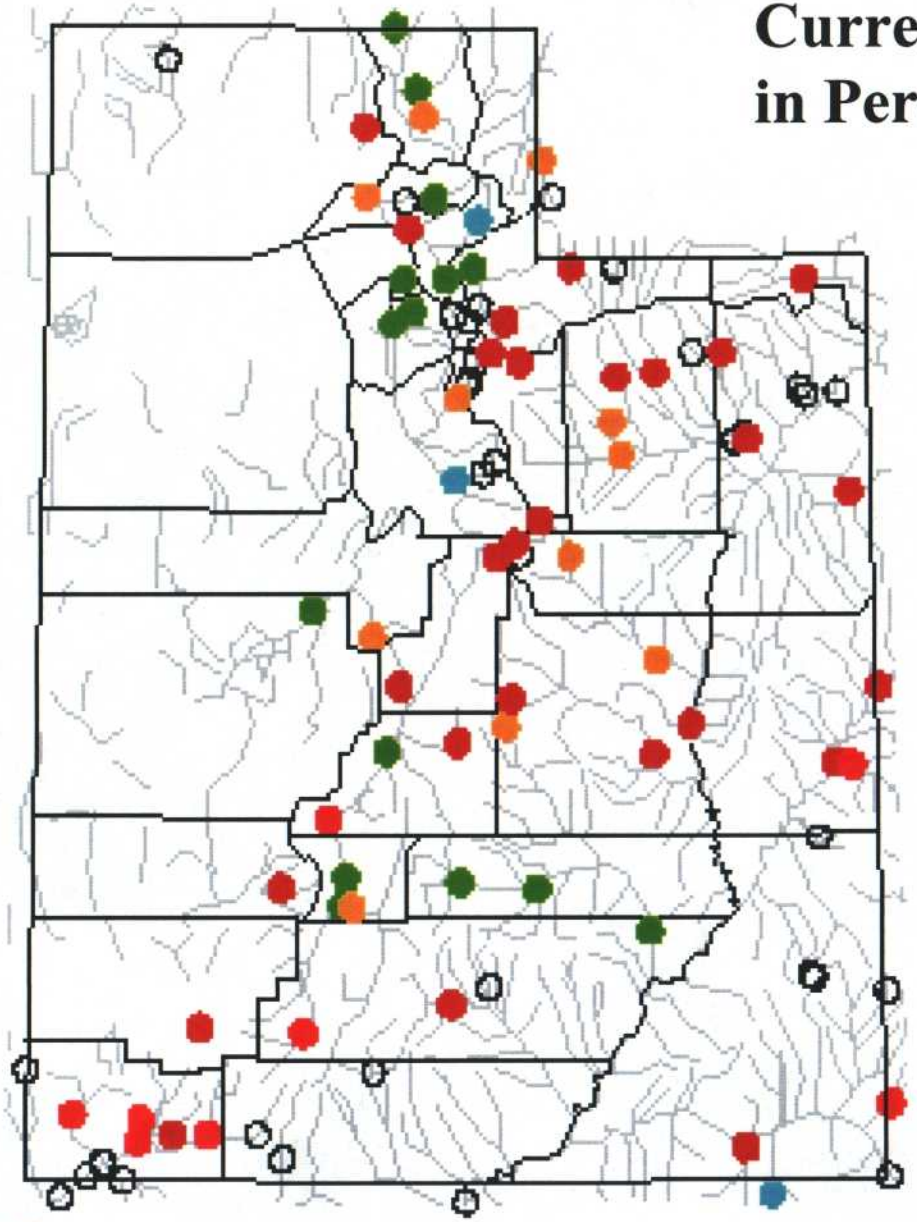
Orange: <24%

Green: 25-75%

Blue: >90%

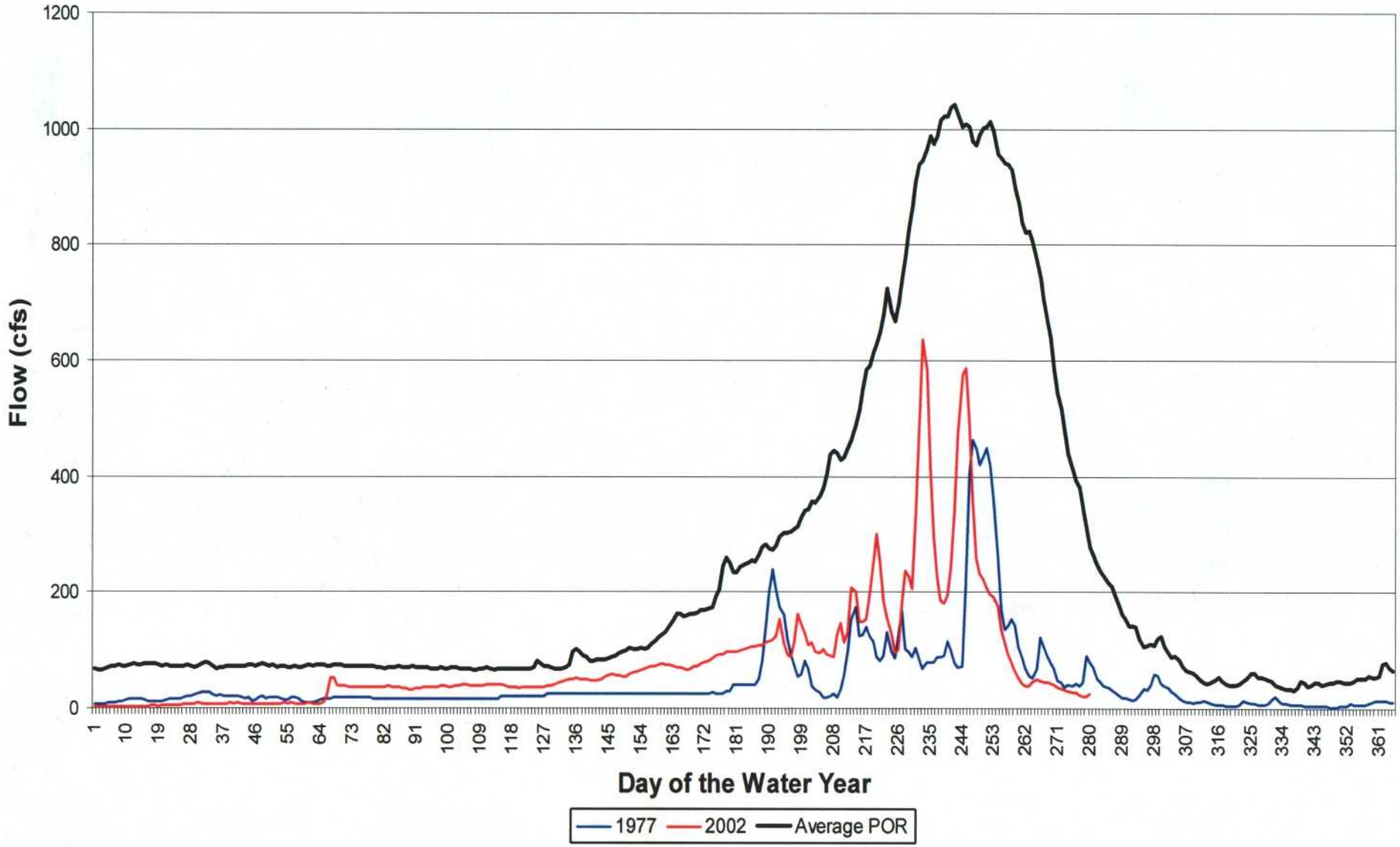
Fri., June 28, 2002 11:20ET

Current Streamflow in Percent of Avg.

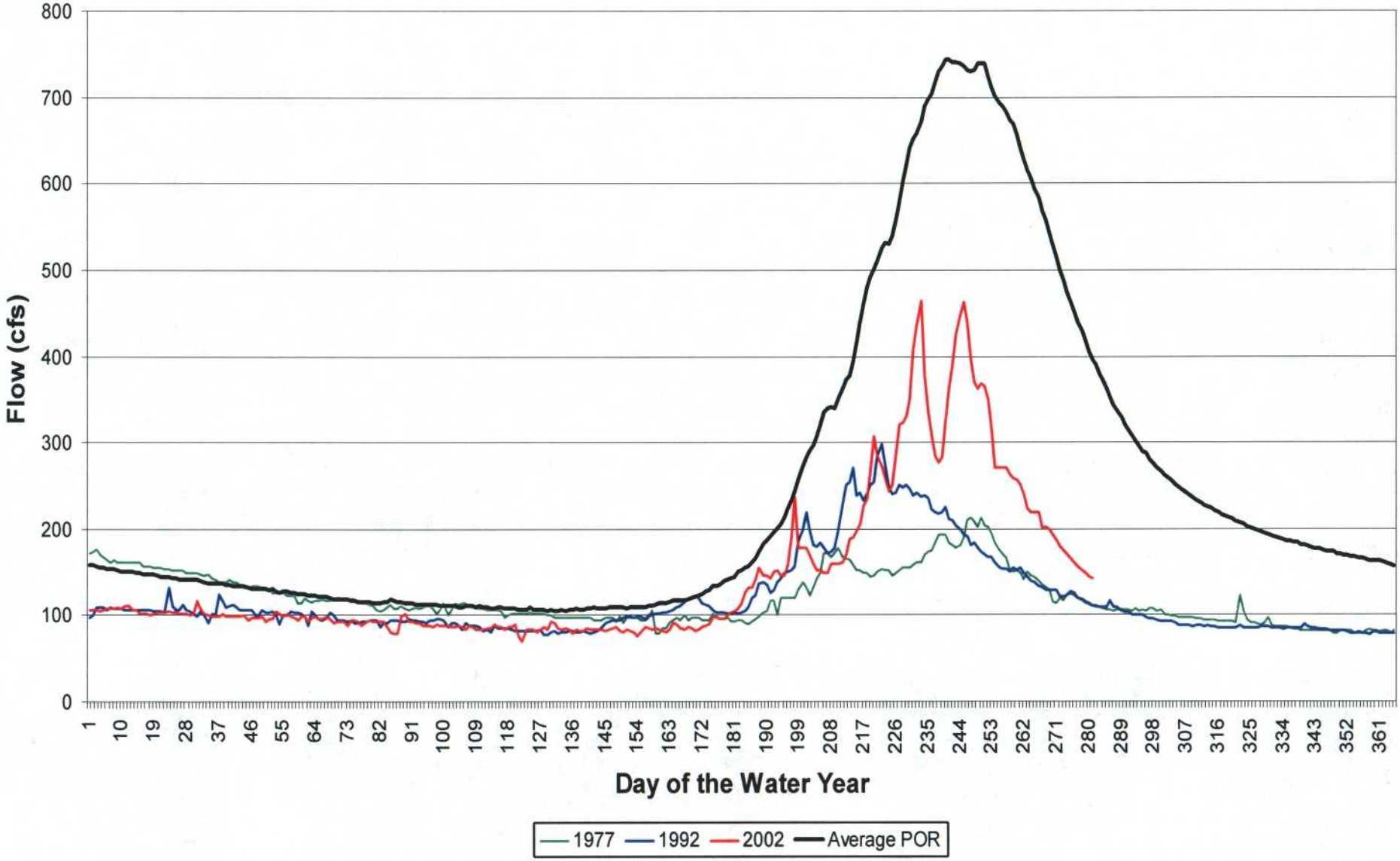


USGS

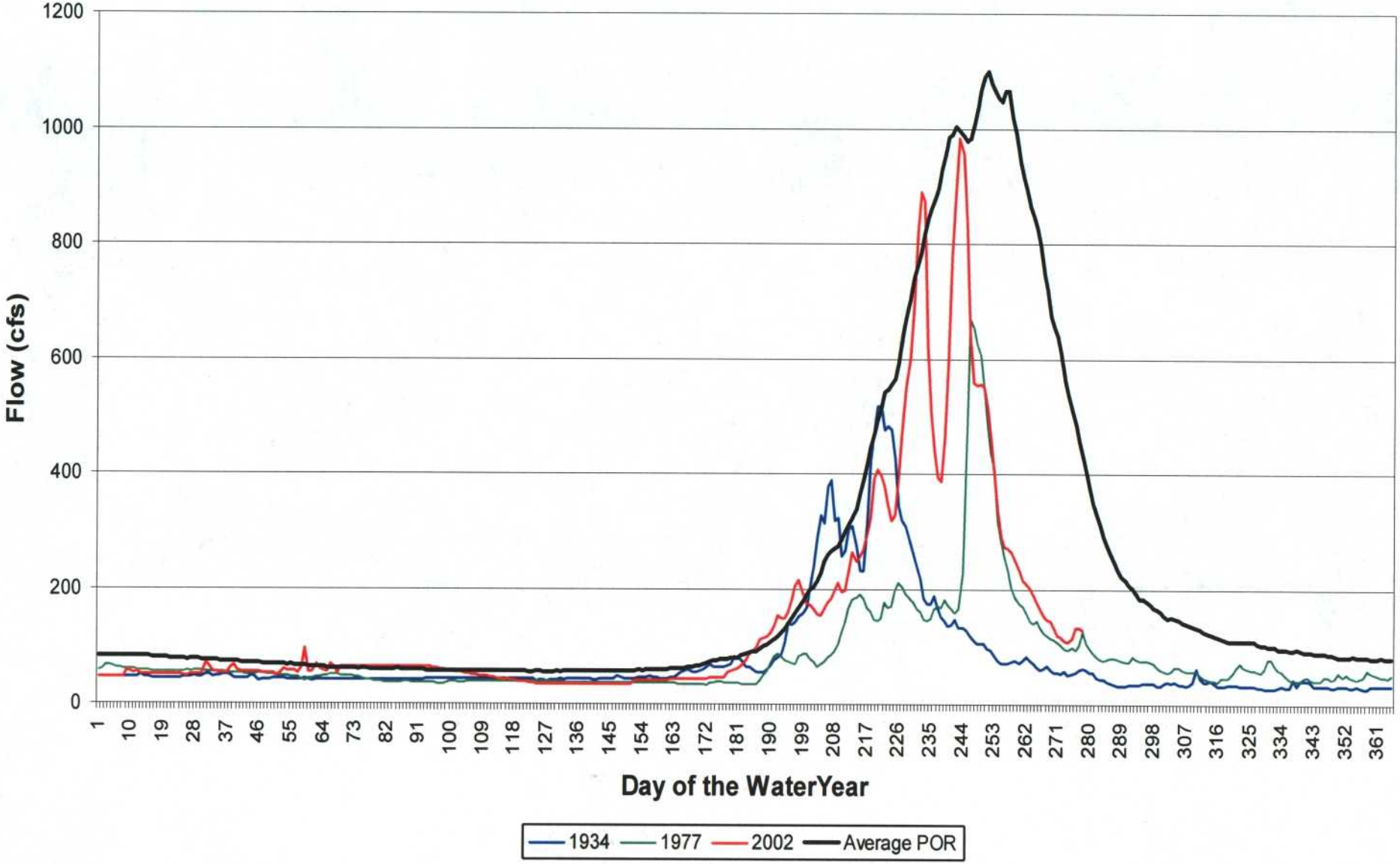
10020100 Bear River Above Reservoir, Near Woodruff, Utah
Daily Flows in 1977 and 2002
Period of Record (POR) is from 1962 to July 2002



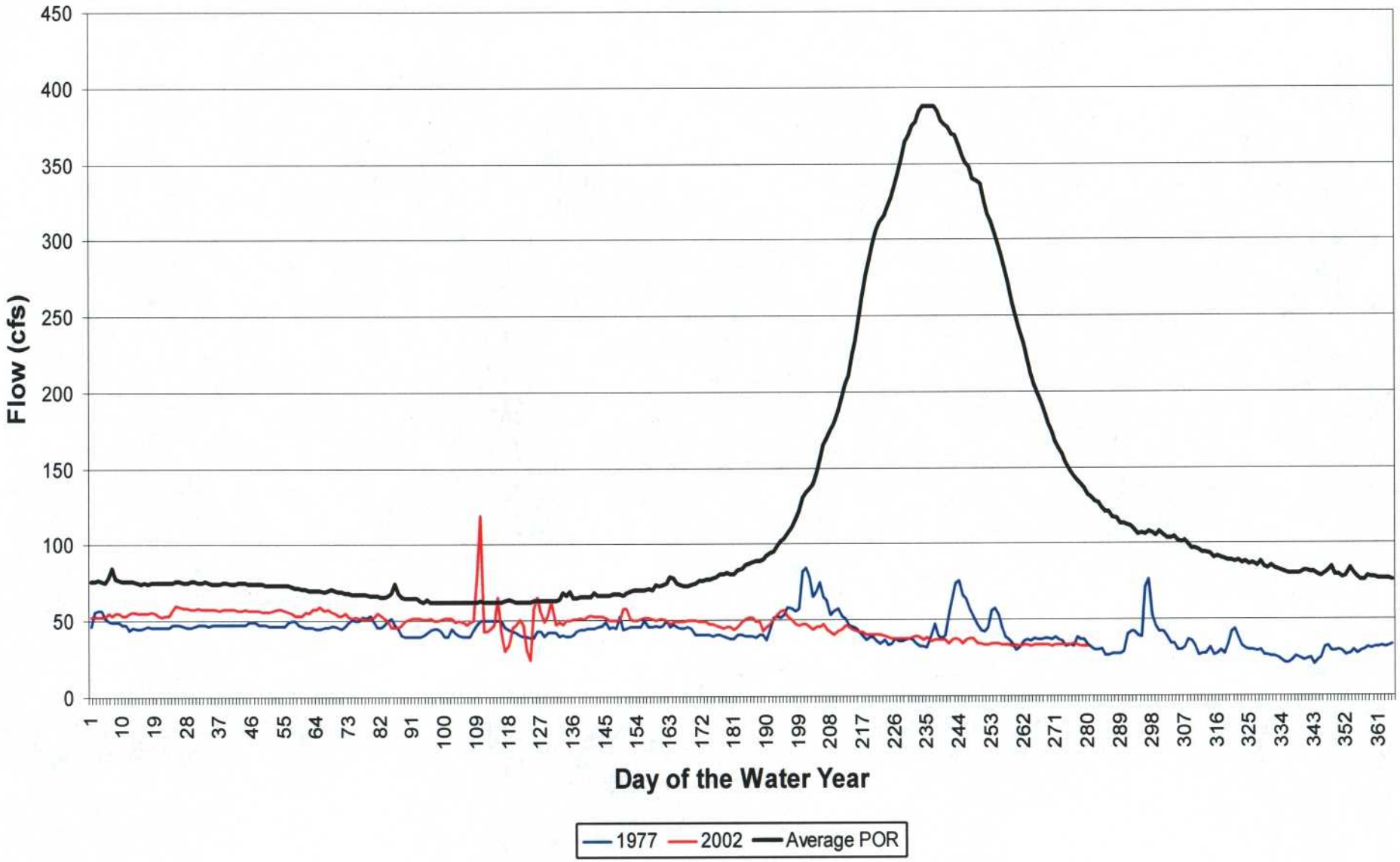
10109001 Logan River Above State Dam
Daily Flows in 1977, 1992, and 2002
Period of Record (POR) is from 1922 to July 2002



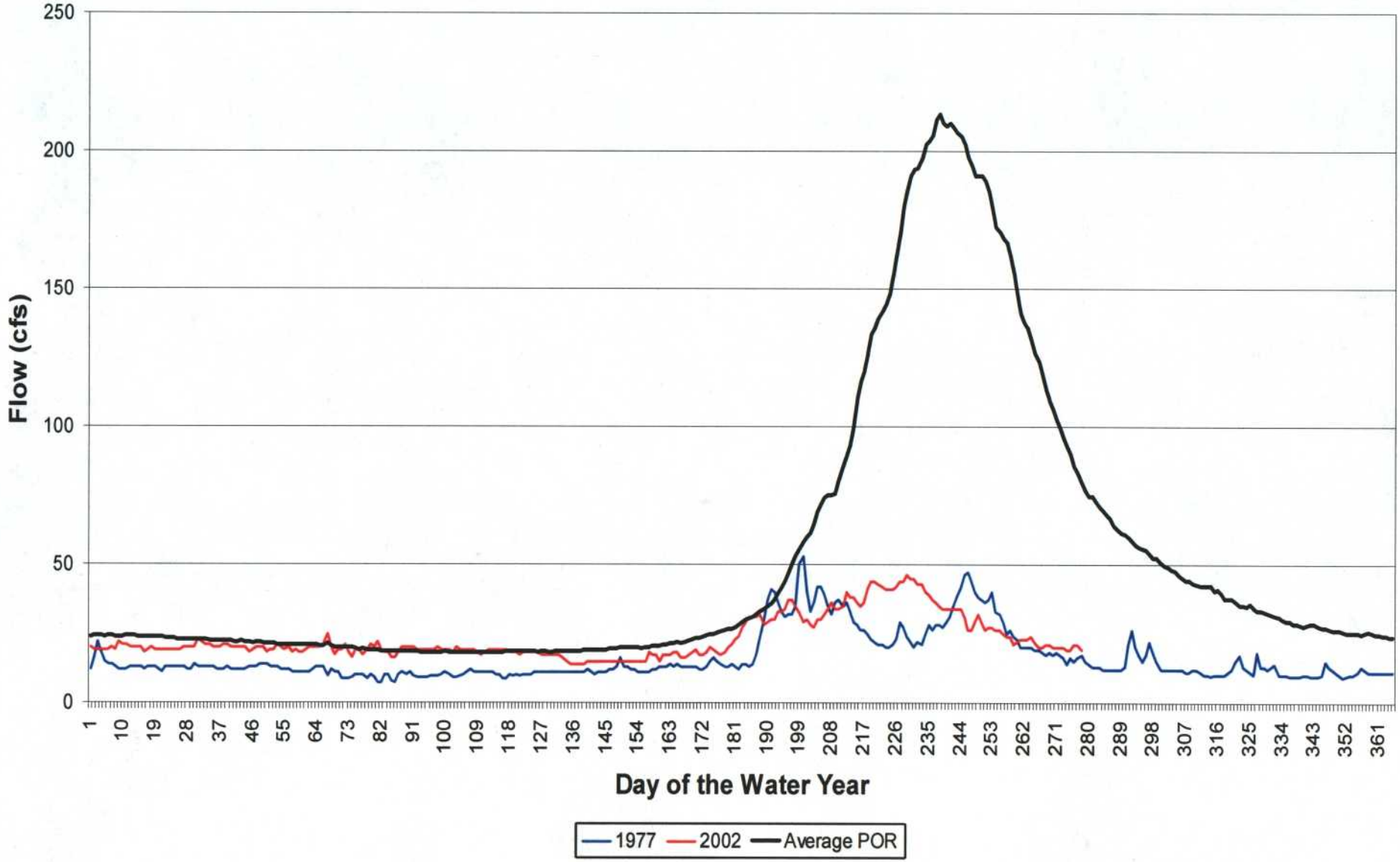
10128500 Weber River Near Oakley, Utah
Daily Flows in 1934, 1977 and 2002
Period of Record (POR) is from 1905 to July 2002



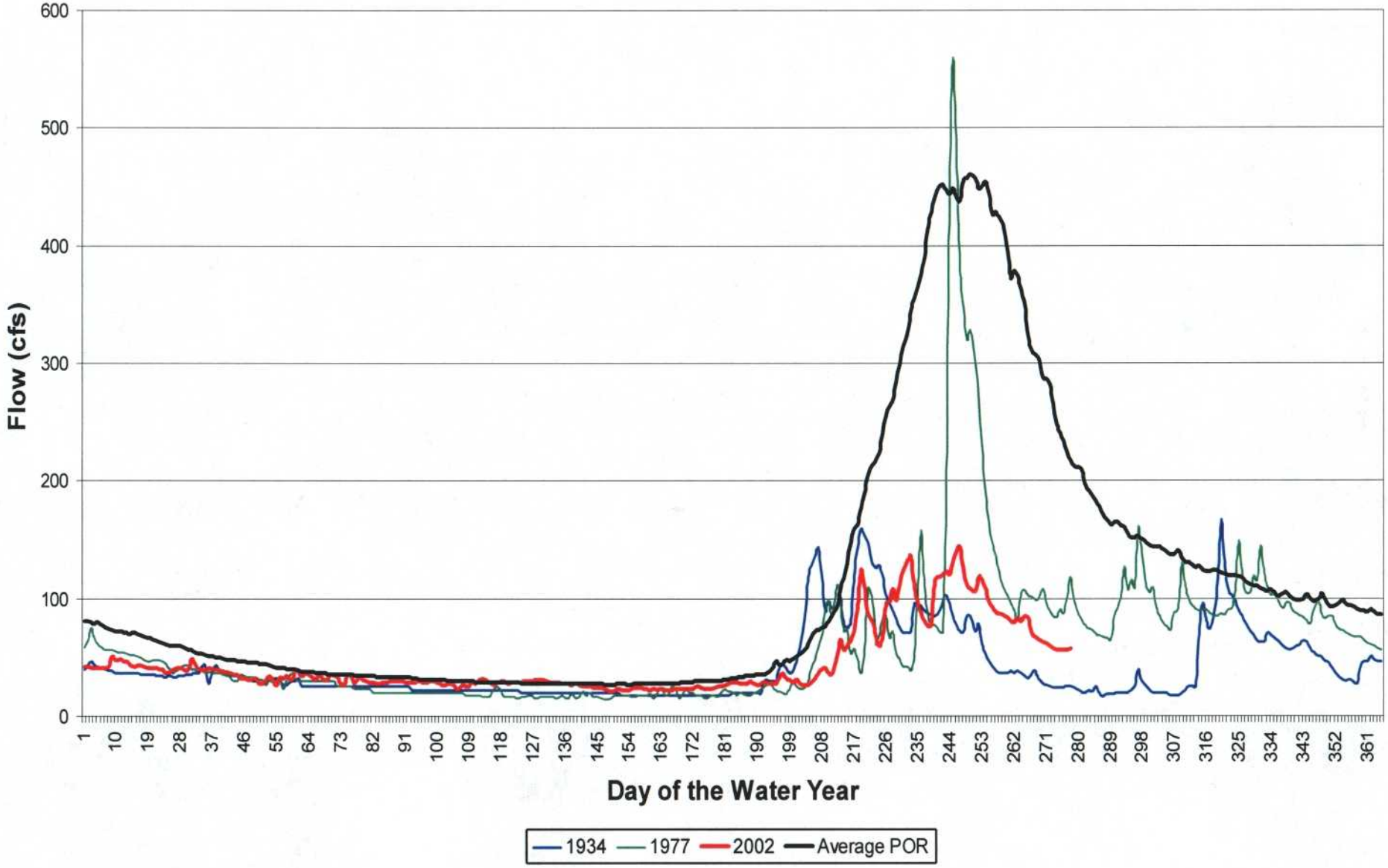
10174500 Sevier River at Hatch, Utah
Daily Flows in 1977 and 2002
Period of Record (POR) is from 1915 to July 2002



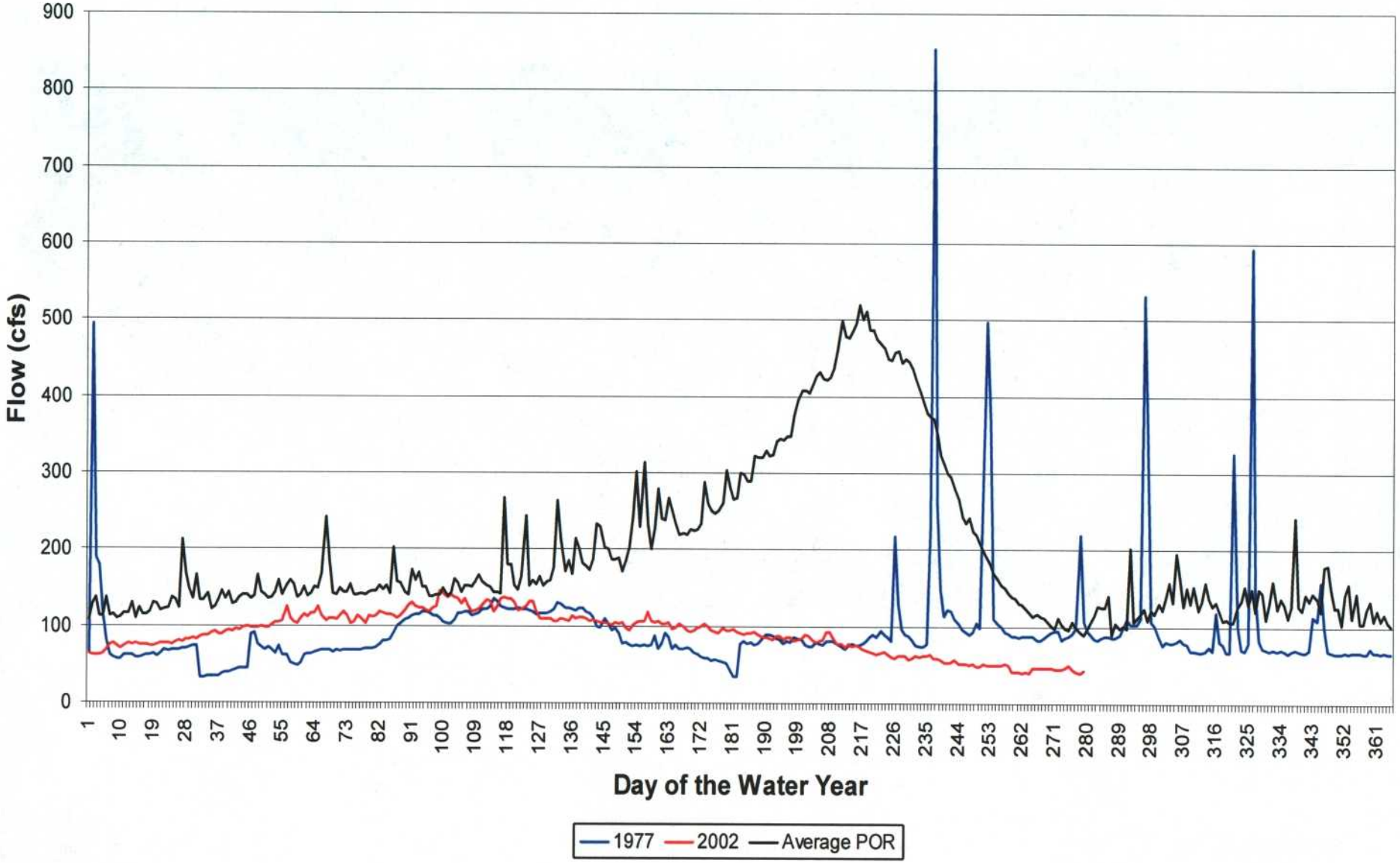
10234500 Beaver River Near Beaver, Utah
Daily Flows in 1977 and 2002
Period of Record (POR) is from 1914 to July 2002



9299500 Whiterocks River Near Whiterocks, Utah
Daily Flows in 1934, 1977 and 2002
Period of Record (POR) is from 1910 to July 2002



09406000 Virgin River at Virgin, Utah
Daily Flows in 1977 and 2002
Period of Record (POR) is from 1910 to July 2002



Comparison of Wasatch Front Total Water Use from 2000 to 2002

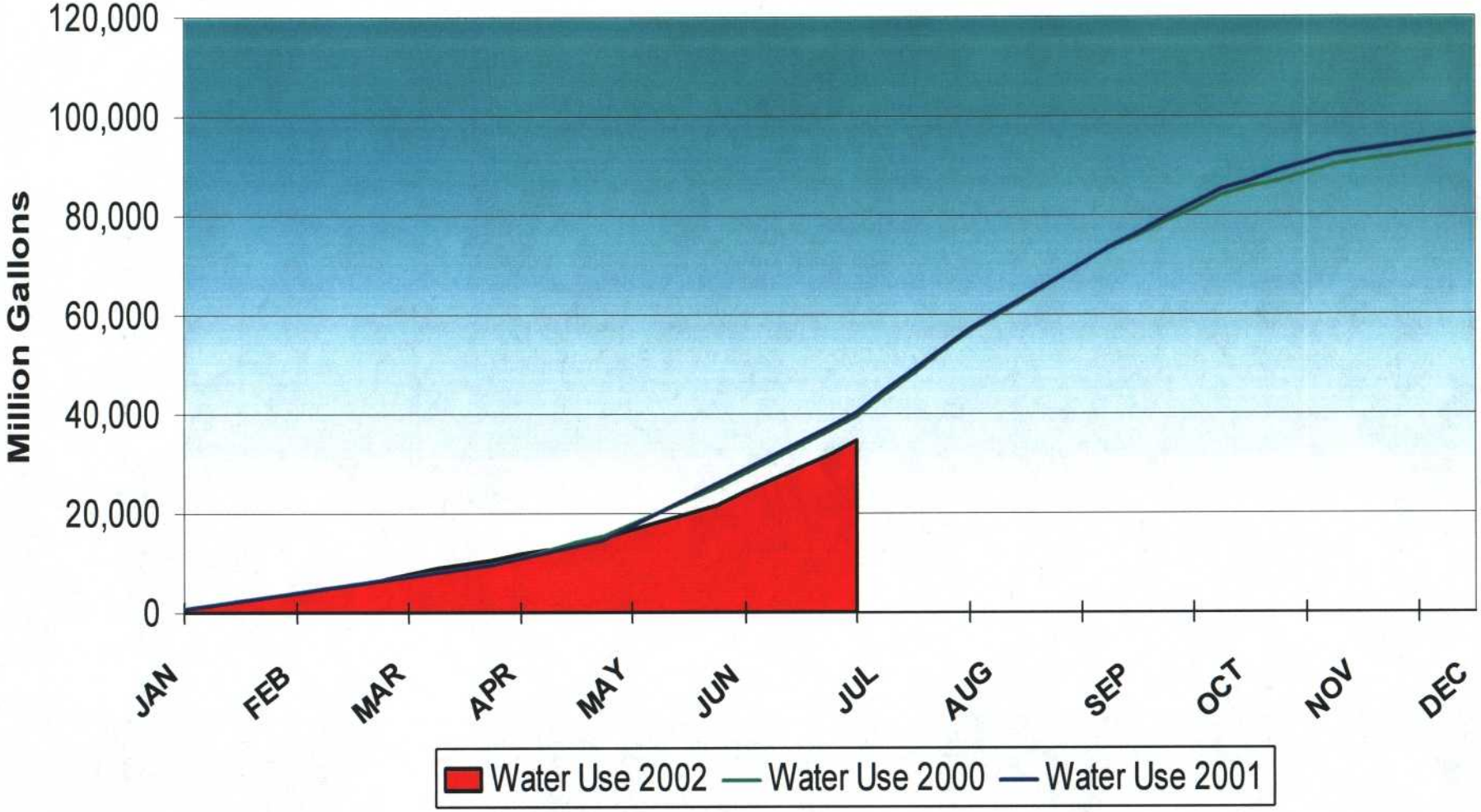


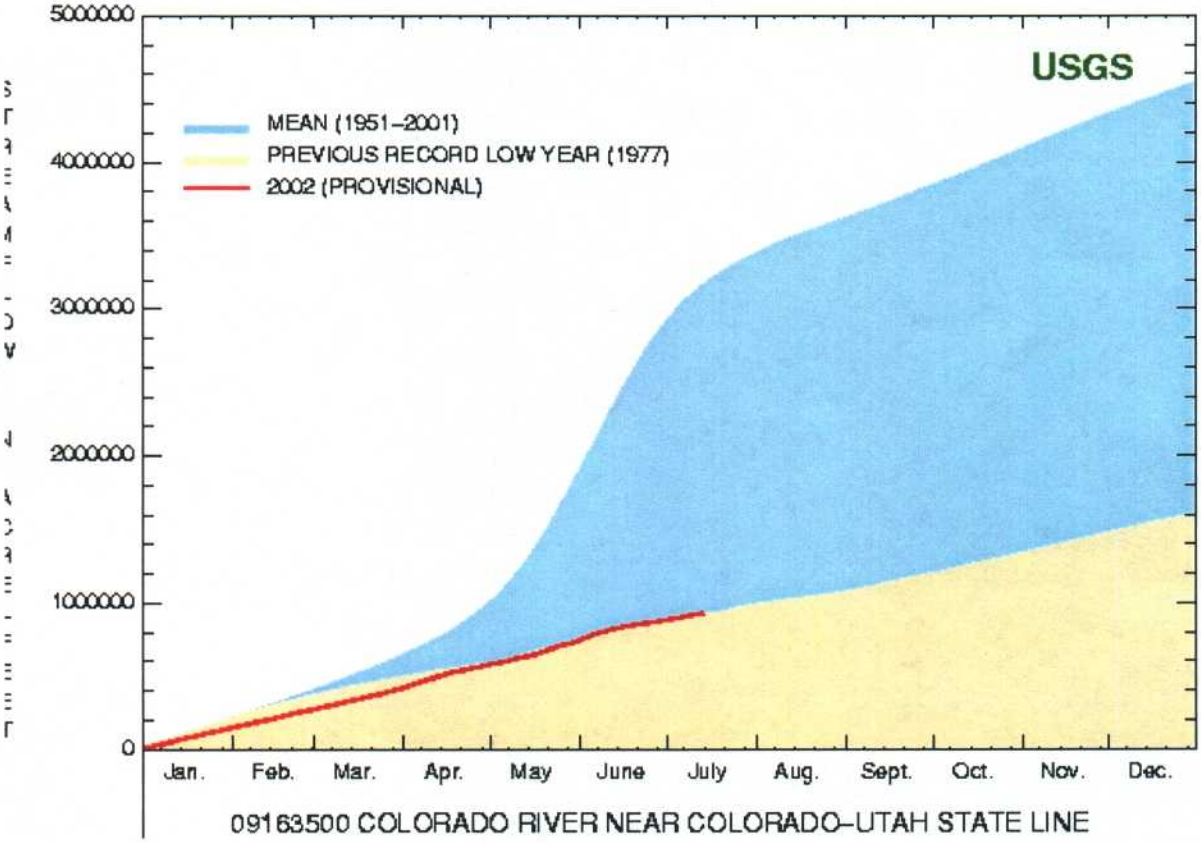
Chart Includes data from Weber Basin WCD, Jordan Valley WCD, Sandy City and Salt Lake City.

USGS
science for a changing world

Water Resources of Colorado

Colorado Drought Watch

Comparison of Year-to-Date Total Streamflow Volume to Historic Streamflow Volumes



Mean =	Sum of the mean daily streamflow volumes for the period of record prior to 2002.
Previous record low year (yyyy) =	Sum of the mean daily streamflow volumes for the previous record low year prior to 2002.
2002 Provisional=	Sum of the daily mean streamflow volume to date for 2002

The **Mean** total streamflow volume (blue shaded area of the graph) shown for each day of the year represents the sum of the mean (average) daily streamflow volume from January 1 through that day of the year. For example, if a station has been operated since 1961, the period of record prior to the current year (2002) would be 41 years. The mean (average) of the 41 daily mean streamflows for January 1 is computed as the "mean daily streamflow" for that date. Similarly, a mean daily streamflow is computed for January 2 and every other day of the year. The **Mean** value shown on the graph for any day of the year would be the sum of the mean daily streamflows, converted to volumes, from January 1 to that date. The **Previous Record Low**

Year (tan shaded area of the graph) depicts the year-to-date total streamflow volume for the one year previous to 2002 that had the lowest Jan. 1 to Dec. 31 total streamflow volume among all of the years in the period of record. The **2002** streamflow volume is the year-to-date total streamflow volume for the current year.

U.S. Department of the Interior
U.S. Geological Survey
Water Resources of Colorado
Contact: webmaster_co@usgs.gov
Privacy Statement | Disclaimer | Accessibility
Last Modified: July 3, 2002