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Managing Water in the West

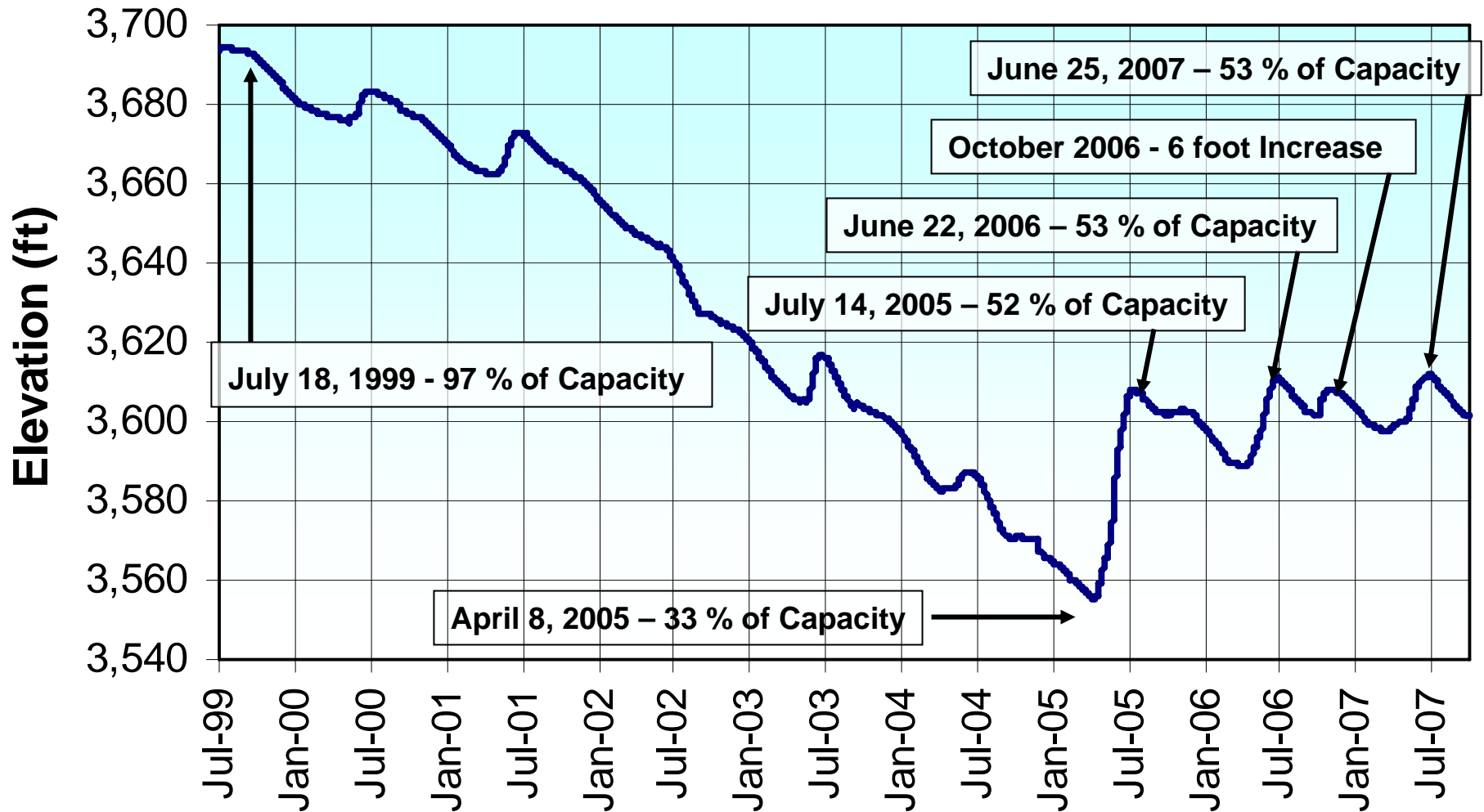
Upper Colorado River Basin Hydrologic Update

Lake Mead Water Quality Forum
October 30, 2007

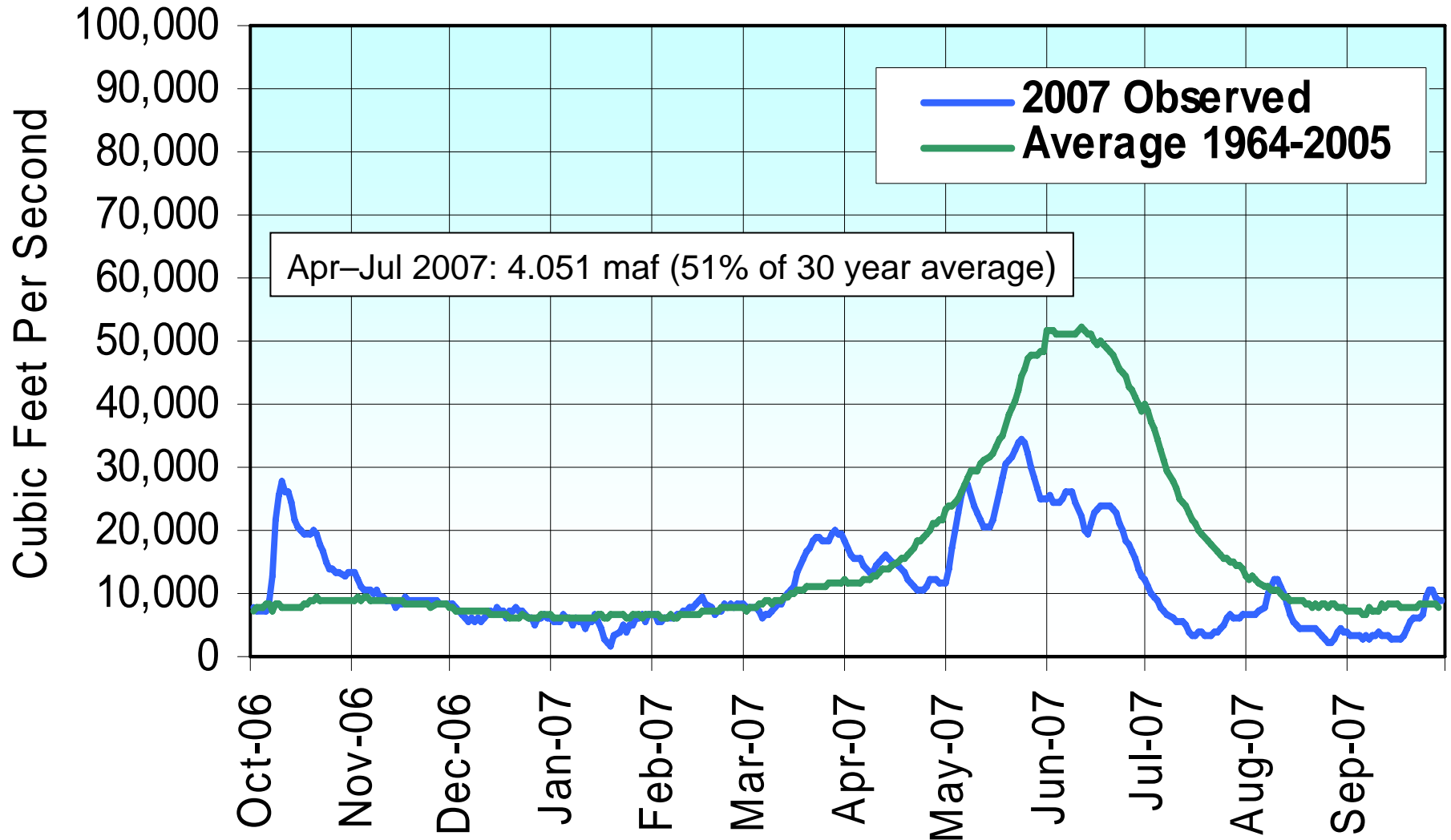


U.S. Department of the Interior
Bureau of Reclamation

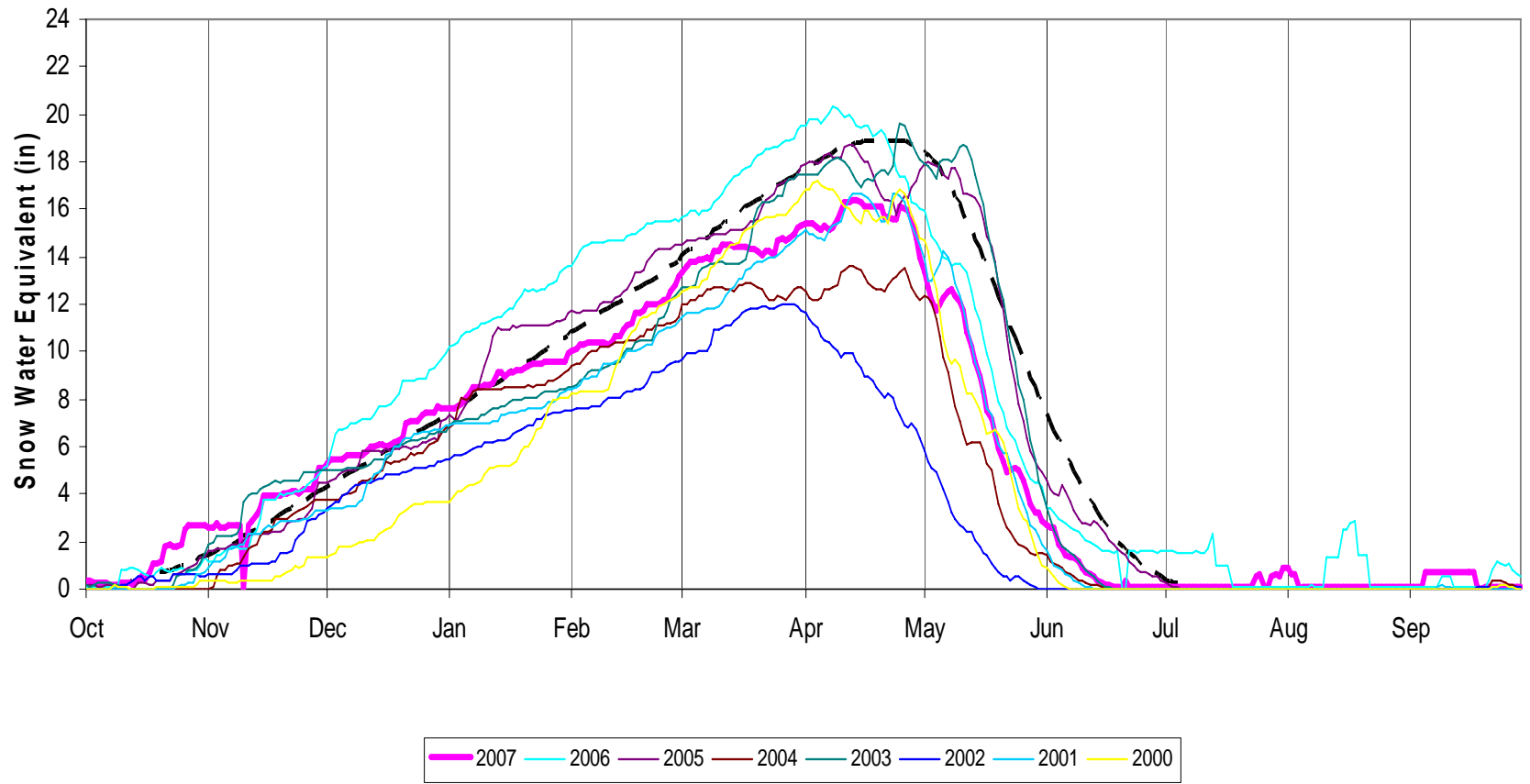
Lake Powell Water Surface Elevations June 1998 through September 30, 2007



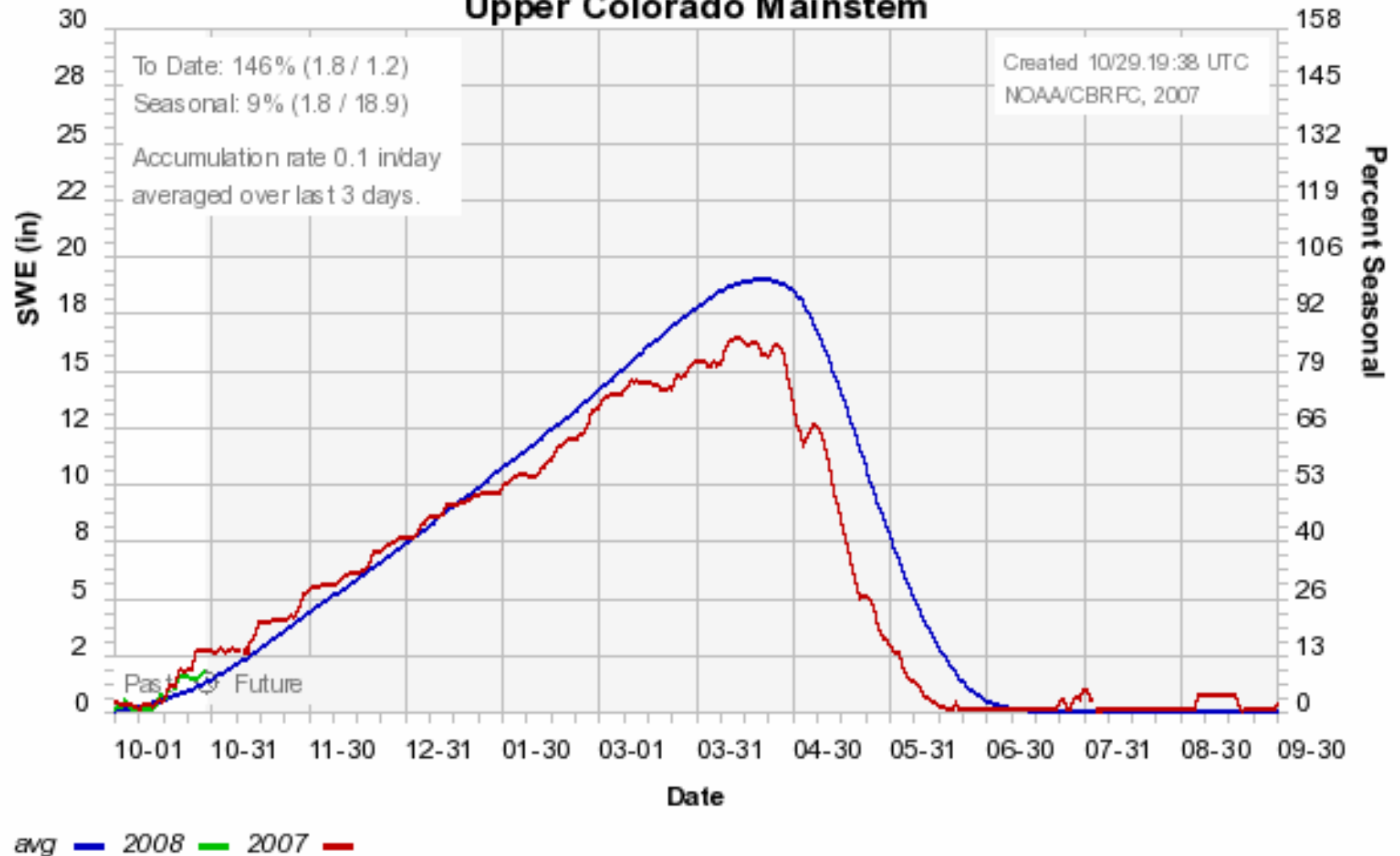
Lake Powell Unregulated Inflow Water year 2007



Water Year Snowpack Development and Unregulated Inflow above Lake Powell



Colorado Basin River Forecast Center Upper Colorado Mainstem



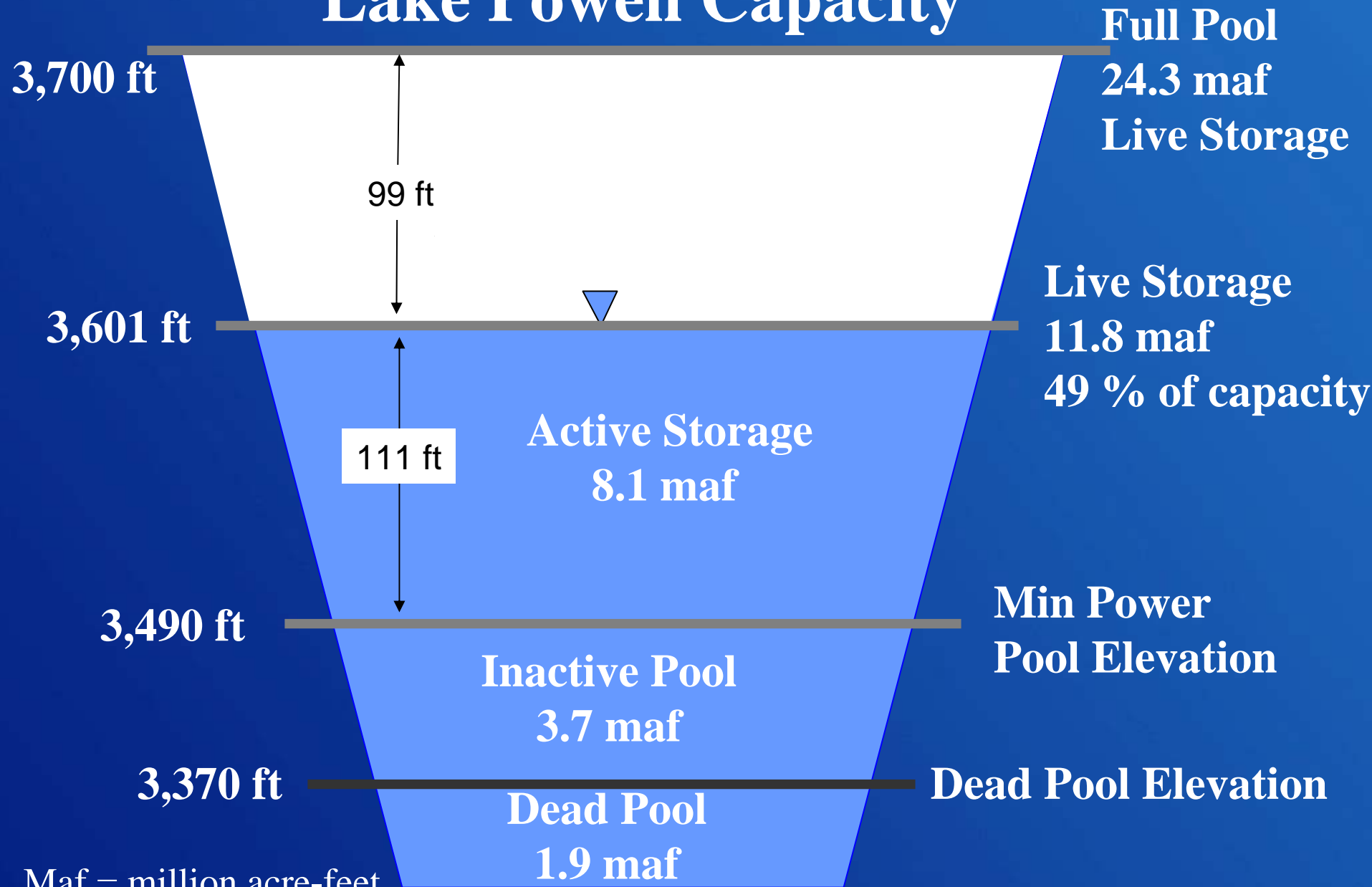
Lowest Consecutive Years of Natural Flow Lees Ferry, Arizona (average is 15.0 maf) 1906-2007

Consecutive Years	Driest Period (Natural flow)
2	2002-2003 (8.2 maf)
3	2002-2004 (8.8 maf)
4	2001-2004 (9.4 maf)
5	2000-2004 (9.7 maf)
6	1999-2004 (10.9 maf)
7	2000-2006 (11.2 maf)
8	2000-2007 (10.8 maf)*

* Value highly speculative and based on 2007 unregulated inflow, not natural flow.

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Lake Powell Capacity



Maf = million acre-feet

Not to scale

October 30, 2007

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Colorado River

**Five Year
Historic
Drought**

2000 - 2004



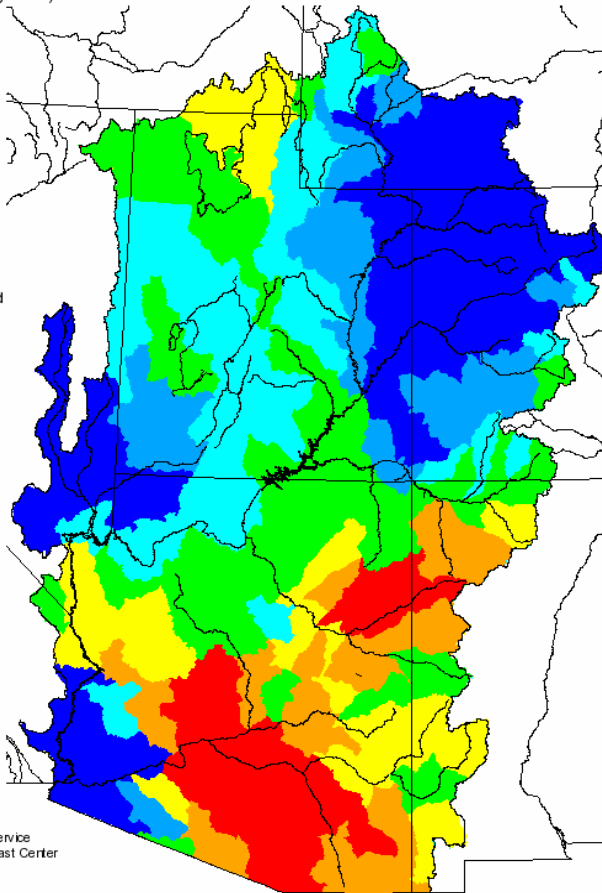
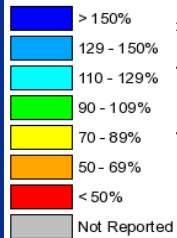
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Precipitation Summary

Monthly Precipitation for September 2007

(Averaged by Hydrologic Unit)

% Average

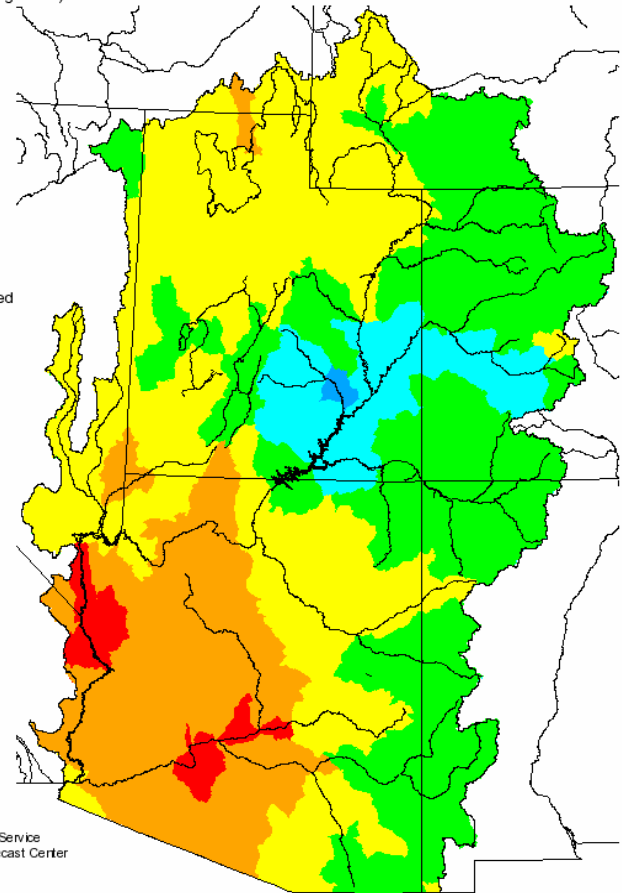
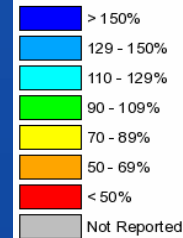


Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbrfc.noaa.gov

Seasonal Precipitation, October 2006 - September 2007

(Averaged by Hydrologic Unit)

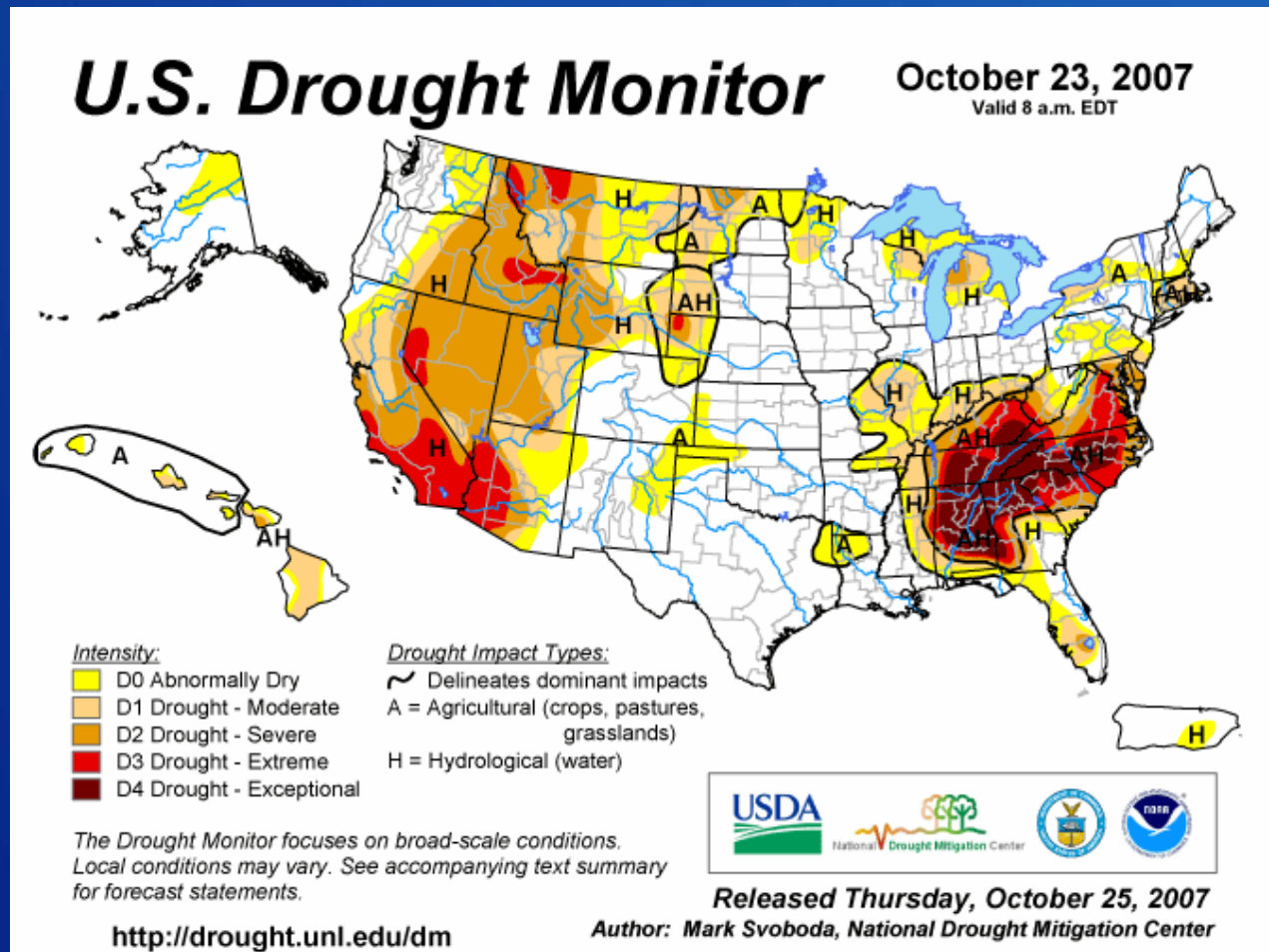
% Average



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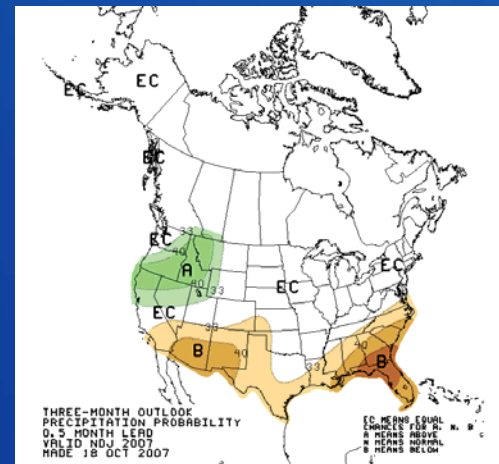
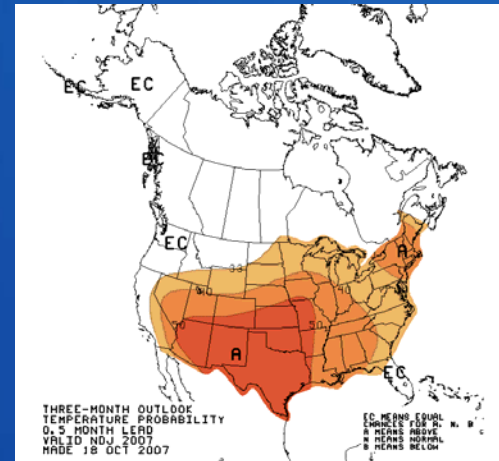
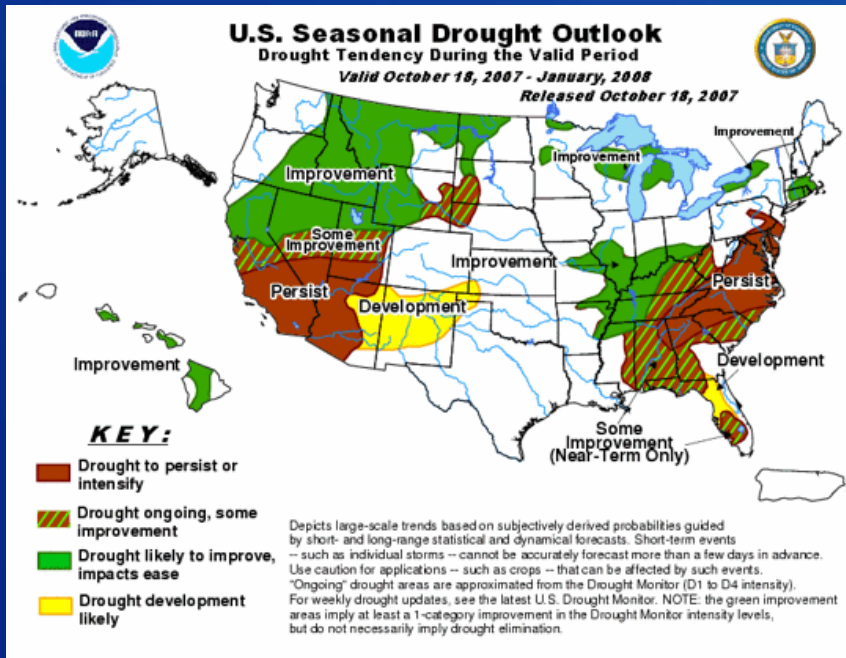
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Upper Colorado Drought



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Drought Outlook



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El Niño/La Niña

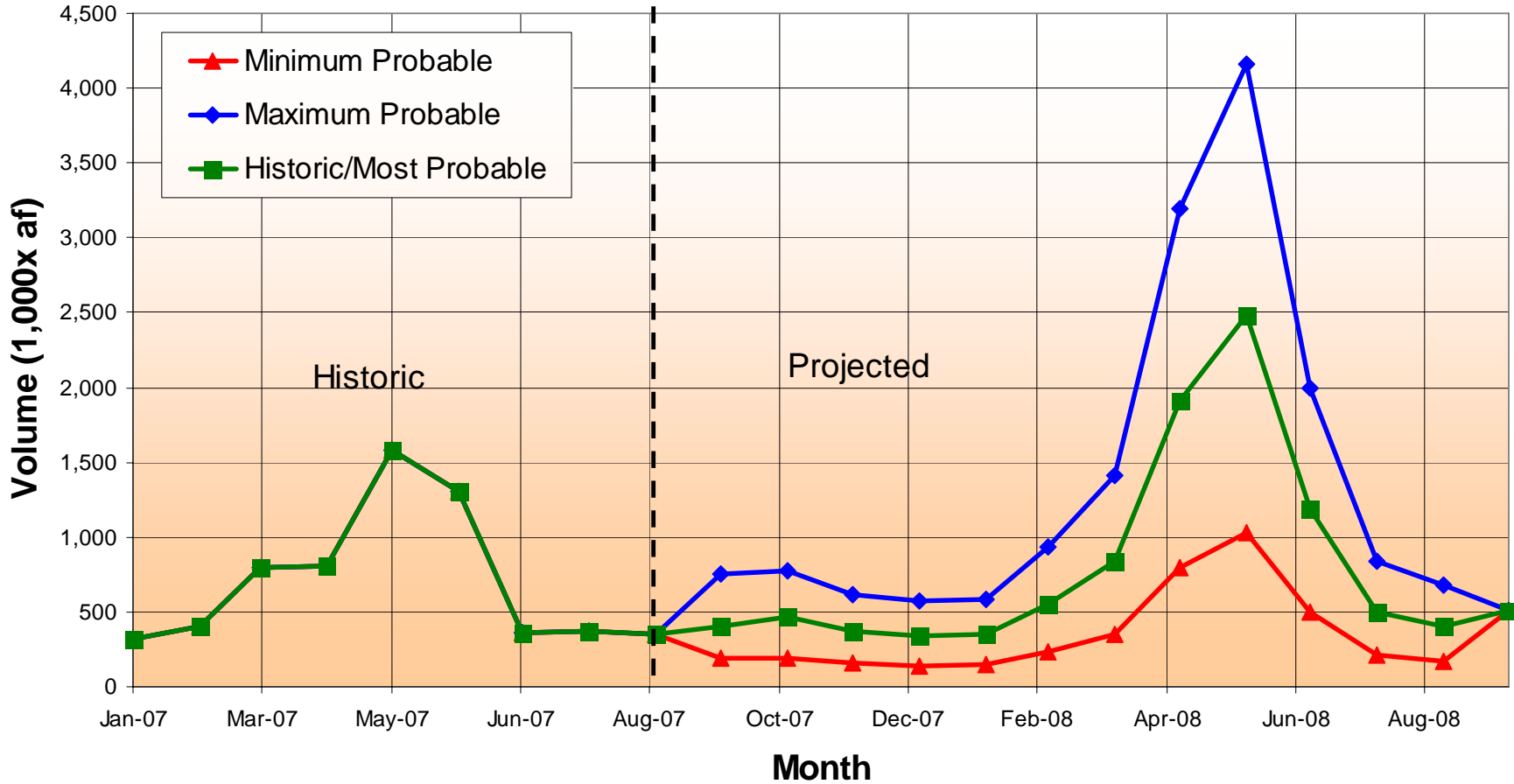
- The El-Niño Southern-Oscillation ([ENSO](#)) cycle reports La Niña conditions across the tropical Pacific. Nearly all of the dynamic and statistical models predict a weak-to-moderate La Niña persisting through early 2008. Recent equatorial Pacific SST trends and model forecasts indicate La Niña will continue and may strengthen during the next several months.
- [NOAA](#) information indicates that, during the winter, La Niña impacts include drier and warmer-than-average conditions over the southern United States. The last lengthy La Niña event was 1998-2001, which contributed to serious drought conditions in many sections of the western United States.

Annual Operating Plan

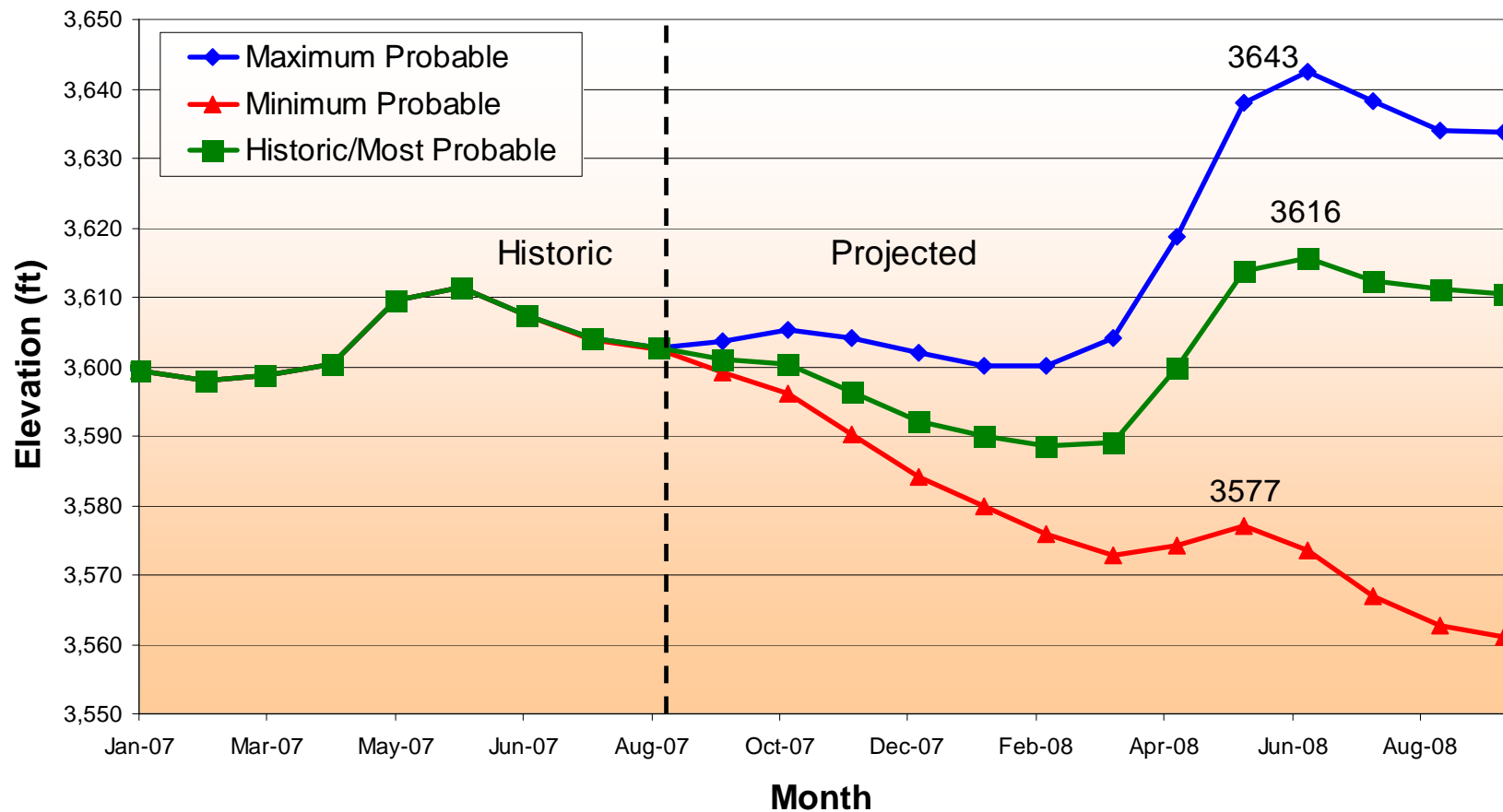
Lake Powell Inflow Scenarios

Scenario	2007 AOP WY 2007	2008 AOP WY 2008 Developed August 2008
Minimum Probable	4.80 maf (40 %)	4.10 maf (34 %)
Most Probable	10.93 maf (91 %)	9.81 maf (81 %)
Maximum Probable	19.00 maf (158 %)	16.50 maf (137 %)

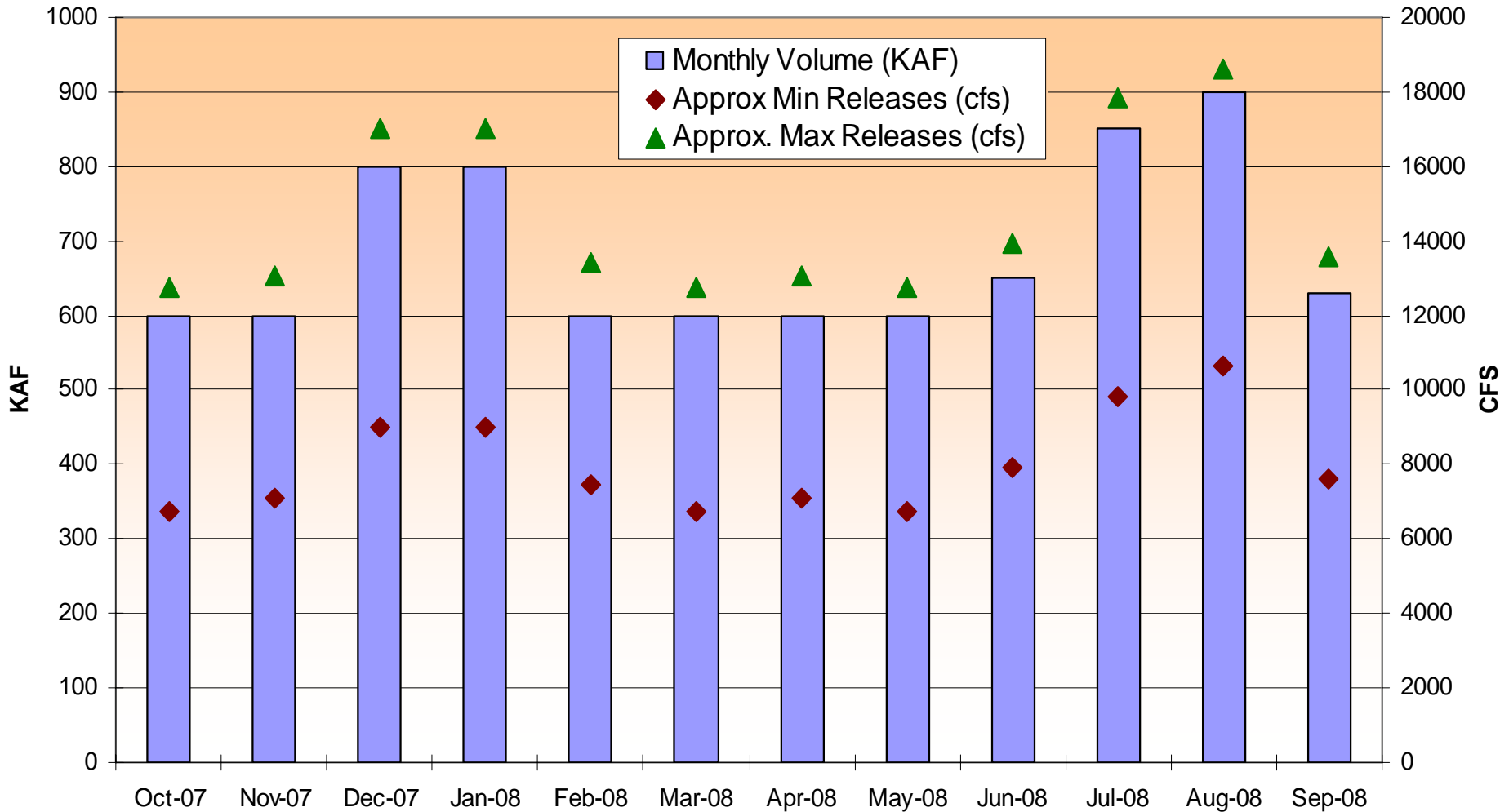
Lake Powell Unregulated Inflow Volumes Based on August, 2007 Inflow Projections



Lake Powell EOM Elevation Based on August, 2007 Inflow Projections



WY 2008 Scheduled Releases from Lake Powell



Lake Powell Projected Water Surface Elevations Based on October 2007 Inflow Forecasts

