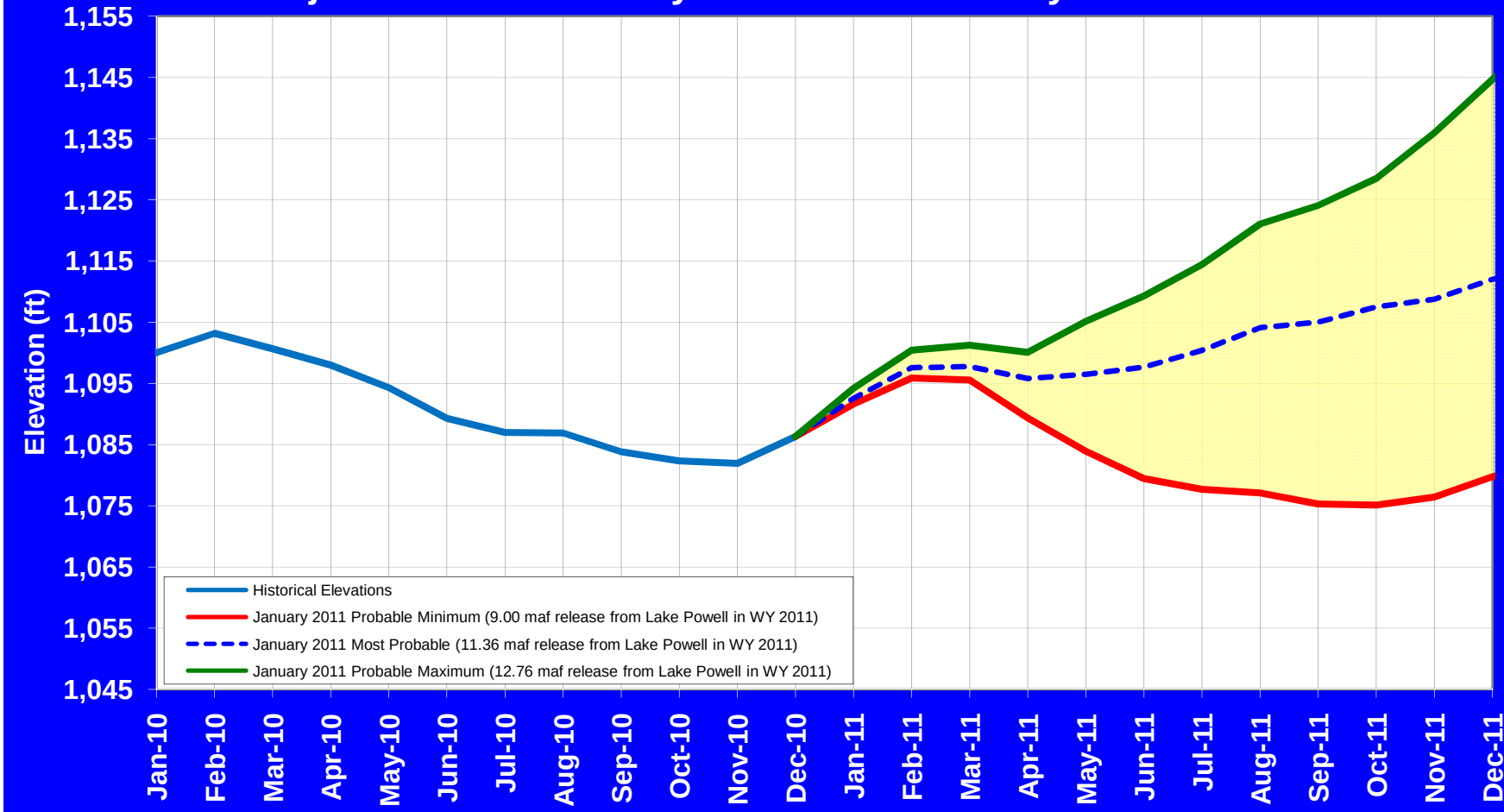
# Lake Mead End of Month Elevation
# Projections from January 2011 24-Month Study Inflow Scenarios




The projected elevations in this graph are based on reservoir modeling under three possible inflow scenarios: 1) The minimum probable inflow scenario reflects a dry hydrologic condition which statistically would be exceeded 90% of the time; 2) the most probable inflow scenario reflects a median inflow condition which statistically would be exceeeded 50% of the time; and 3) the maximum probable inflow scenario reflects a wet hydrologic condition which statistically would be exceeded only 10% of the time. There is approximately an 80% probability that the future elevation will fall inside the shaded region. There are possible inflow scenarios that would result in reservoir elevations falling outside the range indicated in this graph.

**January 2011 Lake Mead End of Month Elevation Chart**
**Explanation of projected Lake Powell water year releases and Lake Mead elevations in 2011**

January 2011 Probable Minimum Inflow Scenario

With a Lake Powell water year release volume of 8.23 million acre-feet (maf), and probable minimum side inflows between Glen Canyon Dam and Lake Mead, the January 2011 Probable Minimum inflow scenario projects Lake Mead elevation to be below 1,075 feet on September 30, 2011. The Interim Guidelines provide for an April adjustment to Lake Powell operations when the April 24-Month Study projects the Lake Mead elevation to be at or below elevation 1,075 feet and the Lake Powell elevation to be at or above elevation 3,575 feet on September 30. In accordance with this provision, the Probable Minimum inflow scenario projects such an April adjustment, resulting in additional releases from Lake Powell. Under this scenario, the annual release from Glen Canyon Dam is projected to be 9.00 maf.

January 2011 Most Probable Inflow Scenario

With a Lake Powell water year release volume of 8.23 maf, the January 2011 Most Probable inflow scenario projects Lake Powell's elevation on September 30, 2011 to be above the 2011 Equalization Elevation of 3,643 feet. Consistent with Section 6.B.3 of the Interim Guidelines, the Probable Maximum inflow scenario projects an adjustment to the Equalization Tier will occur in April 2011. Under this scenario, the water year 2011 release from Glen Canyon Dam is projected to be 11.36 maf. Based on analysis of a range of inflow scenarios, the current probability of realizing an inflow volume that would trigger Equalization in 2011 is approximately 76 percent.

January 2011 Probable Maximum Inflow Scenario

With a Lake Powell water year release volume of 8.23 maf, the January 2011 Probable Maximum inflow scenario projects Lake Powell's elevation on September 30, 2011, to be above the 2011 Equalization Elevation of 3,643 feet. Consistent with Section 6.B.3 of the Interim Guidelines, the Probable Maximum inflow scenario projects an adjustment to the Equalization Tier will occur in April 2011. Under this scenario, the water year 2011 release from Glen Canyon Dam is projected to be 12.76 maf.