

Forecast Informed Reservoir Operations Experience in California

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FIRO in CA: 25+ Year Journey

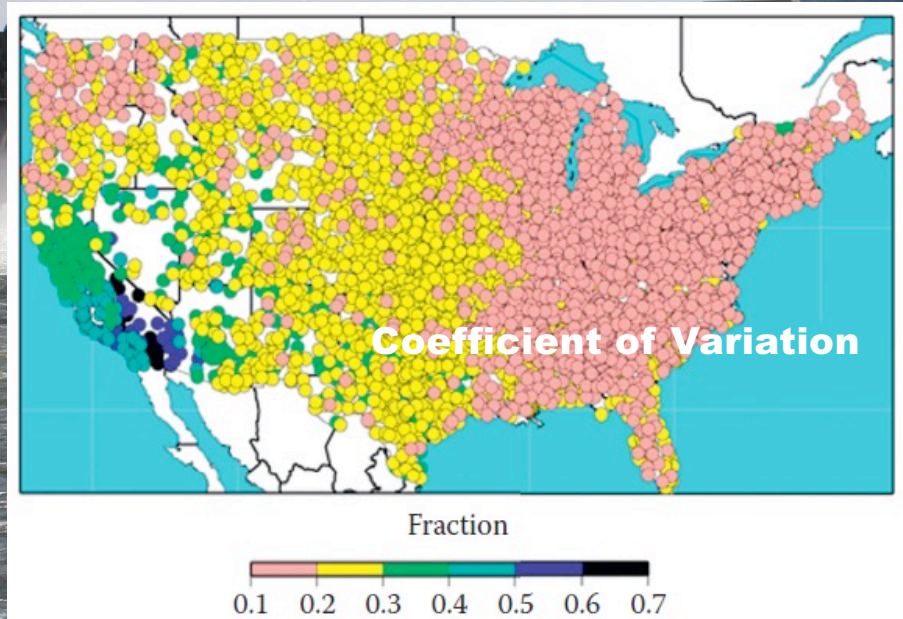


Climate Matters



Extreme Variability in the West

Water Year Precipitation – 1951-2008

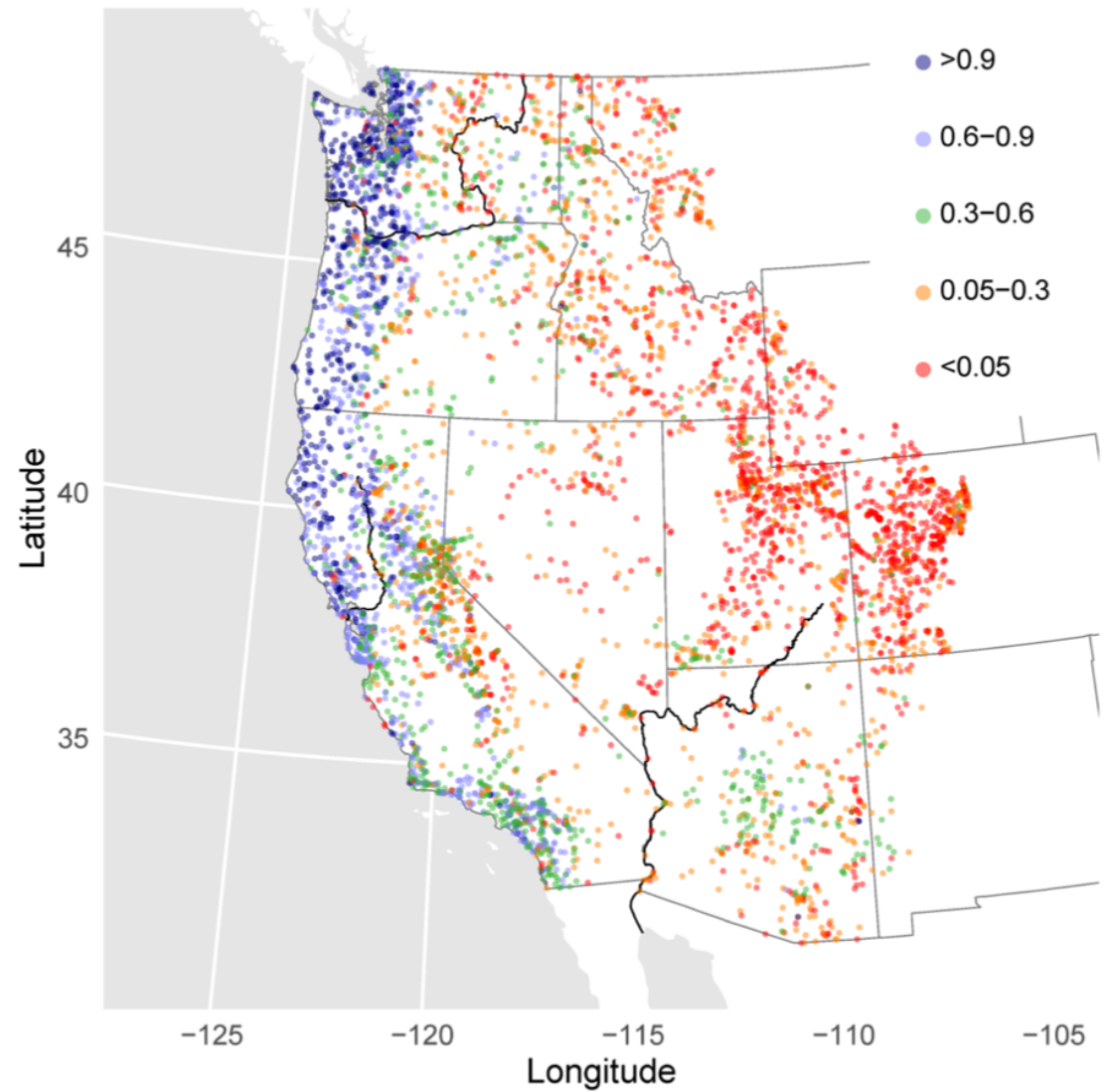


From Dettinger, M.D. et al.,
Water, 3(2), 445-478, 2011.

Bonneville Dam

Atmospheric Rivers produce the big floods

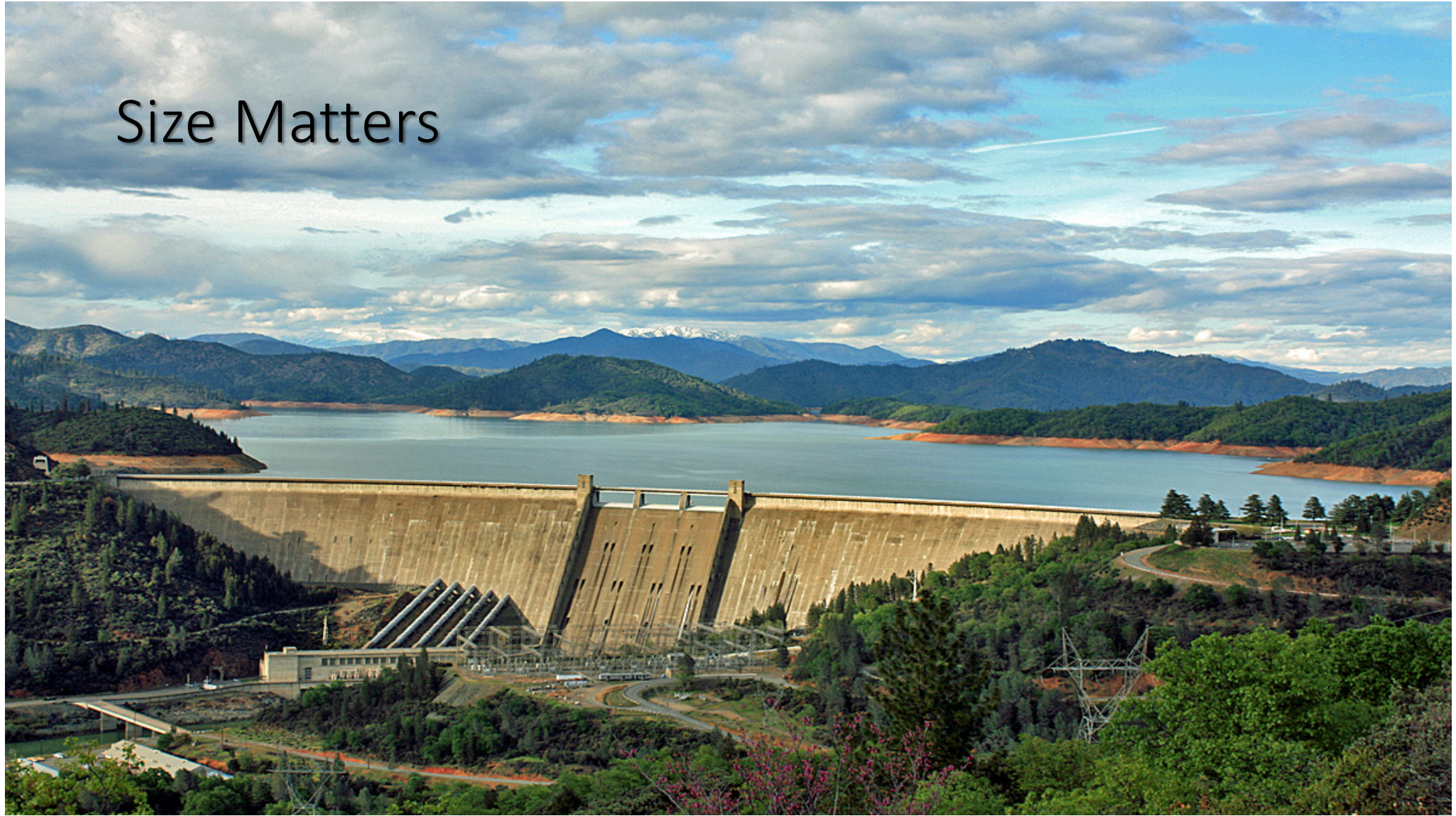
Source: Mike Dettinger, USGS



Predictability Matters



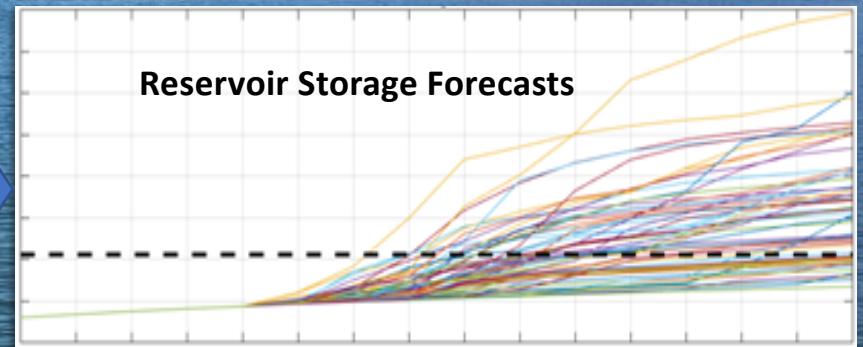
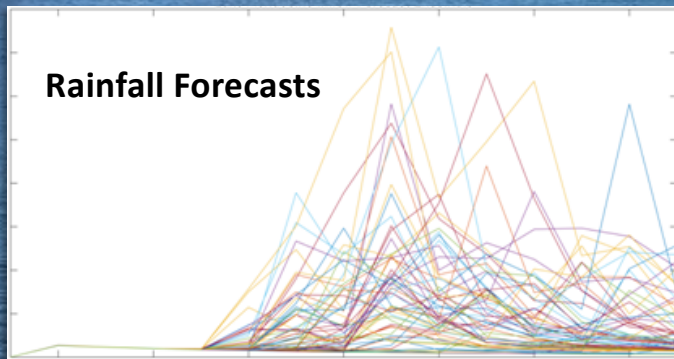
Size Matters



Folsom Dam



Lake Mendocino





Sacramento Metropolitan Utility District

Lake Oroville

Main Spillway
Gates

Emergency
Spillway

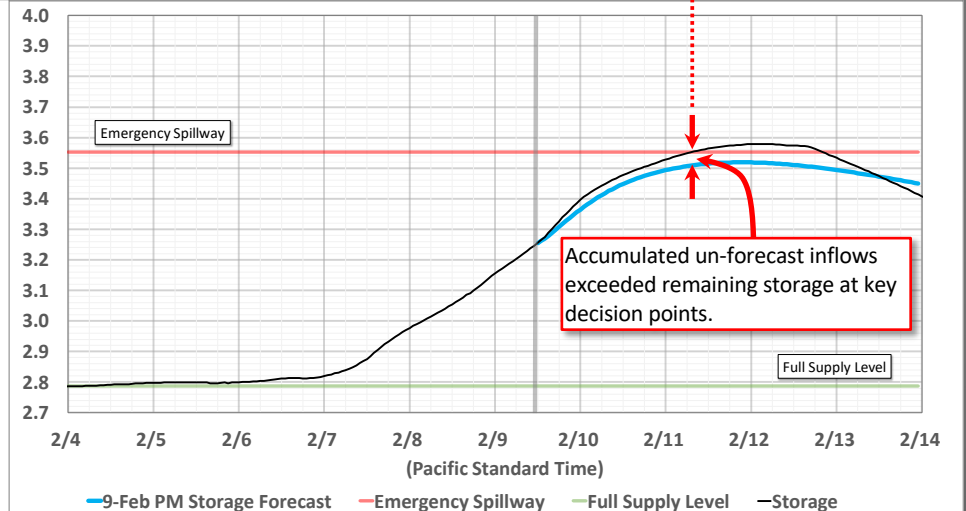
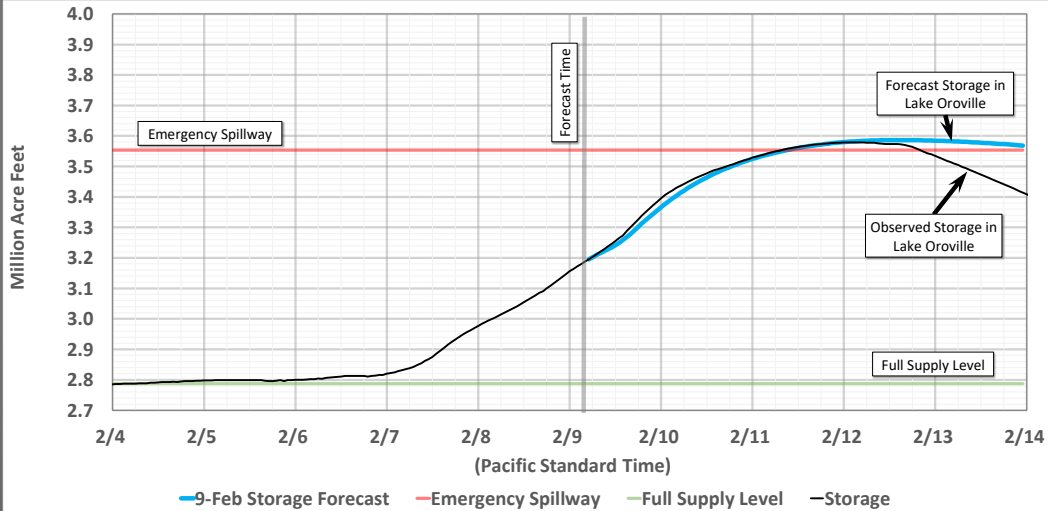
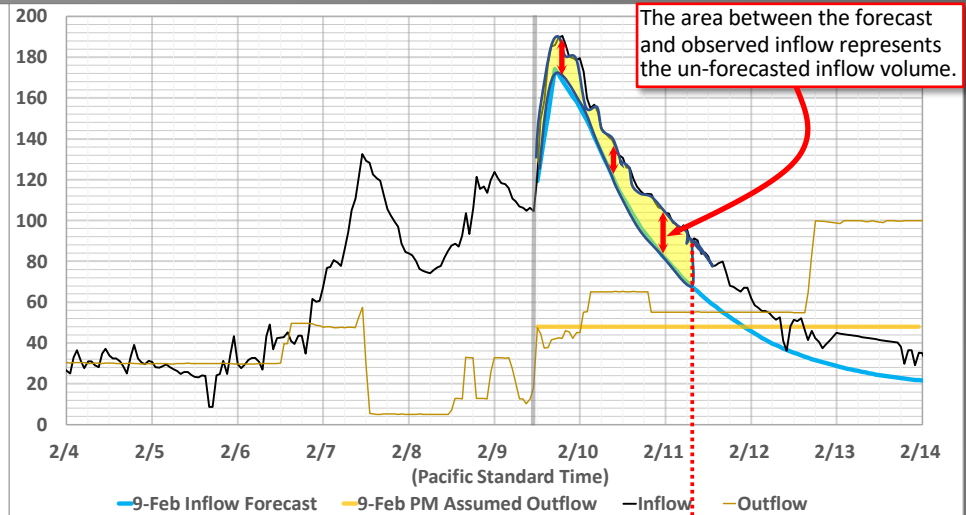
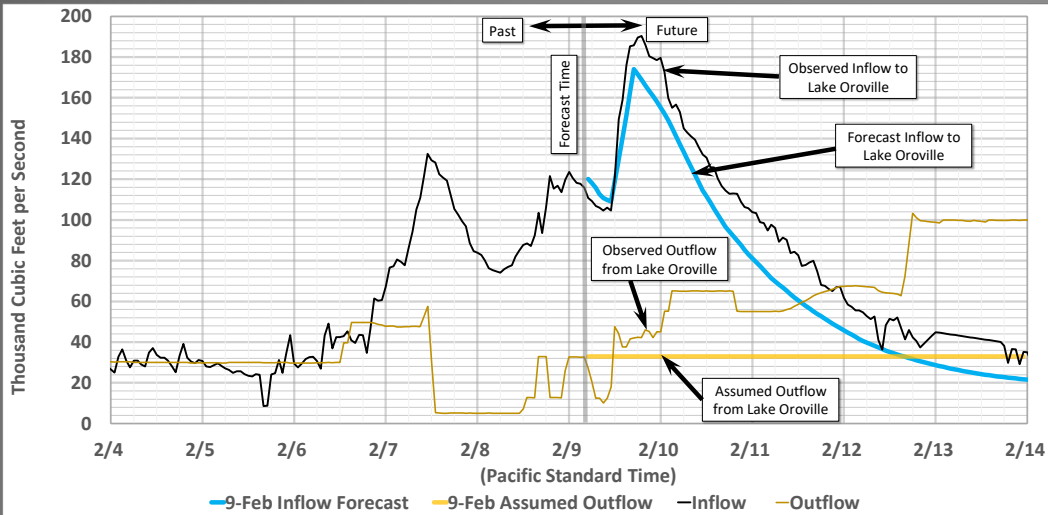
Oroville Dam

Hyatt Power Plant

Main Spillway Chute







New Melones



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