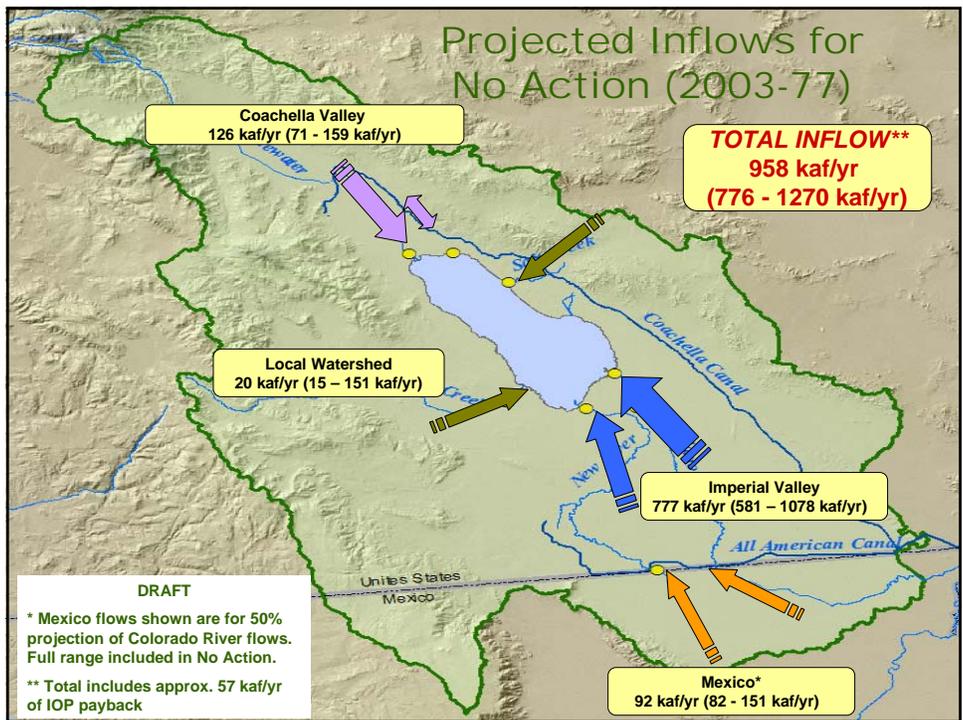
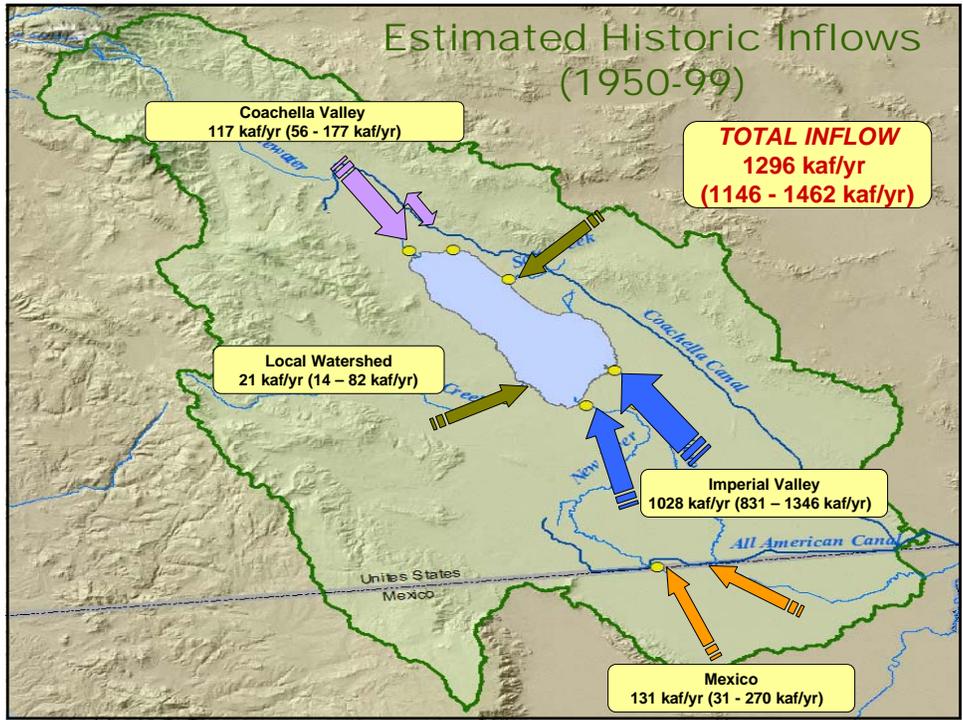


Inflows/Modeling Working Group Update

Advisory Committee
August 17, 2005

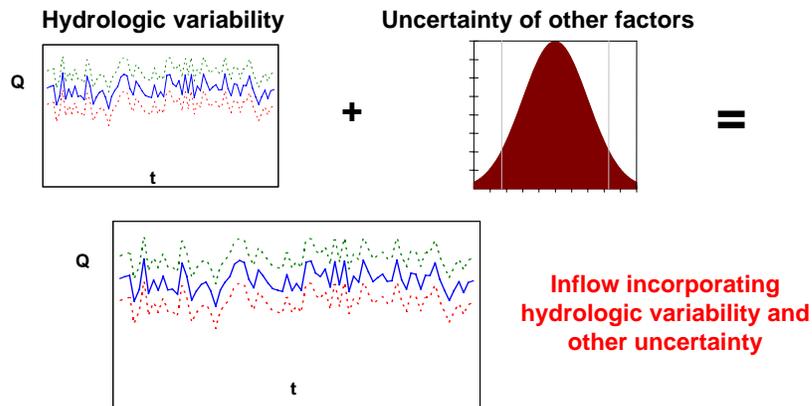
Review of Progress by Working Group

- ◆ **Finalized inflow assumptions for No Action Alternative**
 - QSA Assumptions and Recent Changes
 - Hydrology for local watersheds
- ◆ **Finalized methodology to project the range of future inflow conditions**
 - Based upon a Stochastic, or Probability, Approach
- ◆ **Initiated discussion on projecting future salt loads**
- ◆ **Continued discussion on model development**



Overview of Analytical Approach

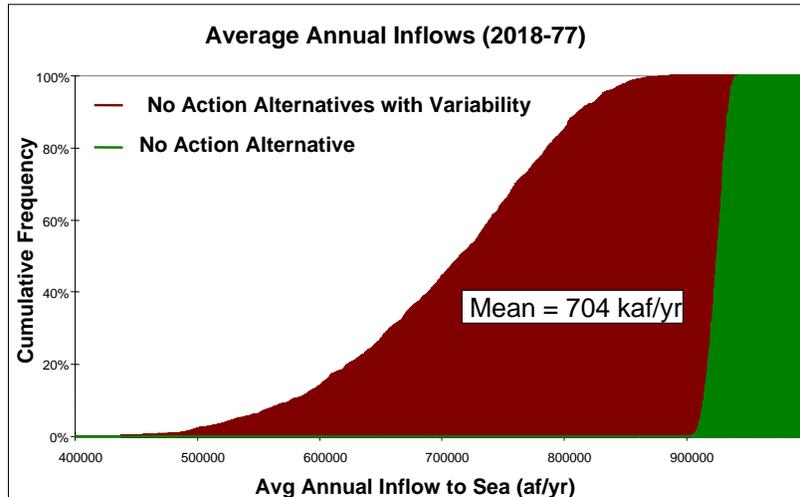
- ◆ **Incorporates hydrologic variability and future policy uncertainty for each inflow source**



Stochastic Approach to be Applied for Each Major Hydrologic Component

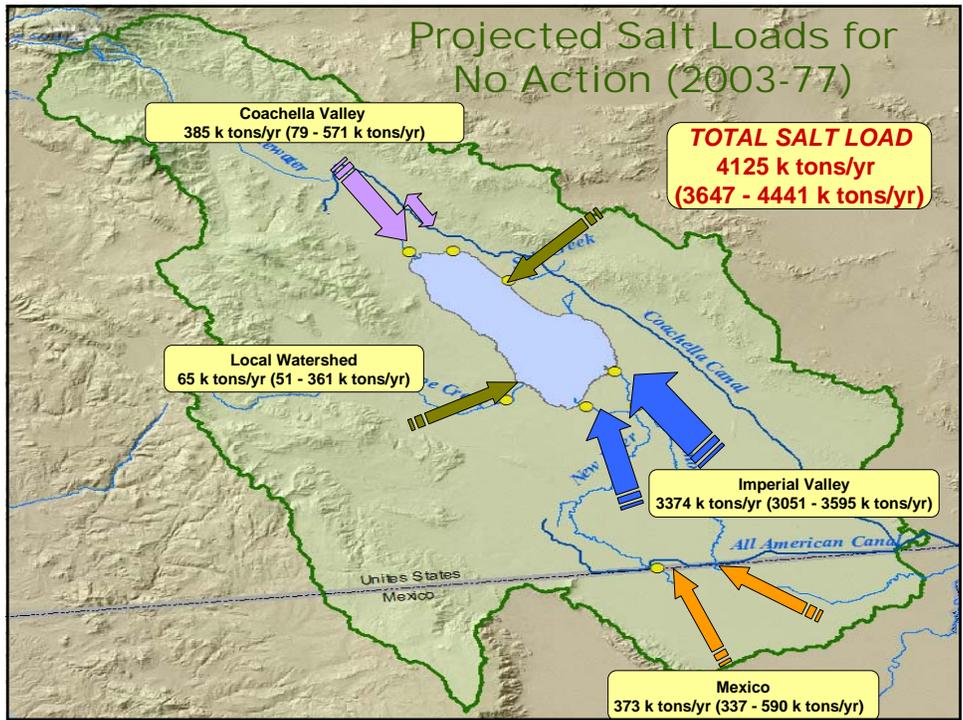
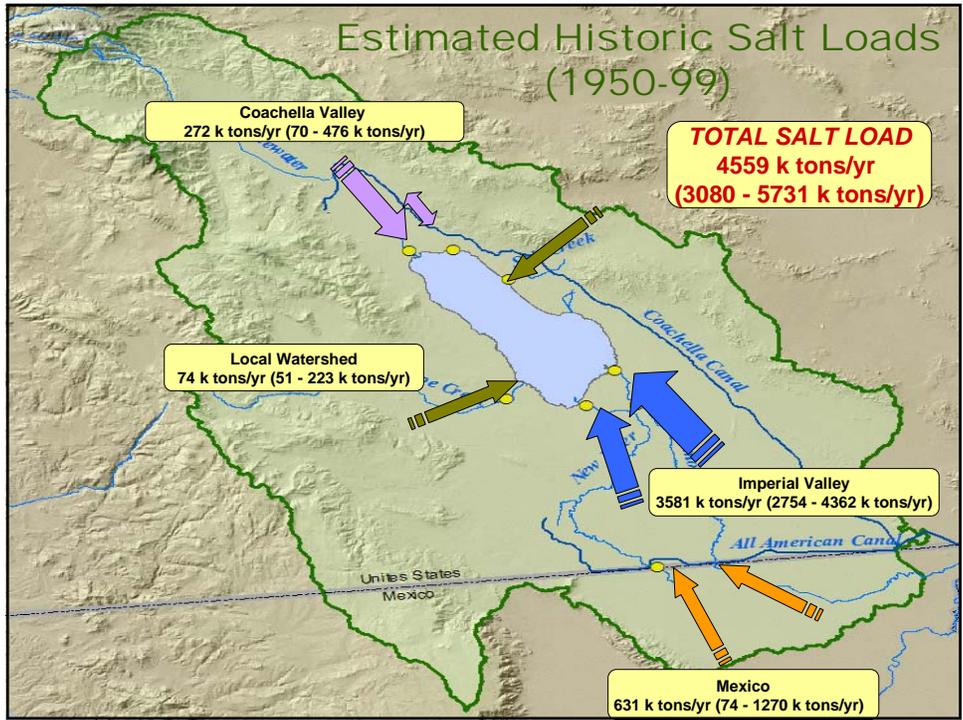
- ◆ **Mexico inflows from New and Alamo Rivers**
- ◆ **IID inflows from New River, Alamo River, direct drains**
- ◆ **CVWD inflows from Whitewater River, drains, and groundwater discharge/recharge**
- ◆ **Local watershed surface runoff and groundwater inflows**
- ◆ **Local evaporation rate**

Possible Inflows to the Salton Sea Considering Future Uncertainty



Historic Salt Loads: Data Sources and Assumptions

- ◆ **Historical sources**
- ◆ **Changes from historical sources**
 - **Mexico**
 - **Agricultural drainage**
 - **Coachella Valley Water District groundwater management plan**
- ◆ **Will continue to work with Working Group to finalize range of salinity in the inflows for No Action Alternative and Range of Variability**



Hydrologic Model Update

- ◆ **CALSIM prototype/test network already developed**
- ◆ **Generalized model elements identified**
 - Open water storage elements
 - Water treatment systems
 - Habitat wetlands
 - Air quality management
- ◆ **Salt balance algorithm has been added to model**
- ◆ **Completed monthly simulation for 75 years**

Next Steps for Hydrologic Modeling

- ◆ **Finalize relationships for evaporation**
- ◆ **Refine monthly scale**
- ◆ **Calibrate/Verify**
- ◆ **Develop Stochastic interaction**
- ◆ **Model-focused meeting and demonstration on September 16, 2005**

