

CALFED Science Program Brown Bag Series Presents

An Evaluation of Four Sacramento-San Joaquin Delta Juvenile Salmon Survival Studies

Ken Newman, USFWS

**Tuesday August 11, 2009, 12 noon – 1 p.m.
Delta Room, 5th Floor
650 Capitol Mall, Sacramento**



The U.S. Fish and Wildlife Service (USFWS) has completed its evaluation of four juvenile salmon mark and recapture studies conducted in the Sacramento-San Joaquin Delta. The objectives of the studies were to estimate juvenile salmon survival and to identify factors influencing their survival in the Delta. The results of these studies have been the basis for various management actions for the protection of the Delta's juvenile salmon. The evaluation was conducted to determine if previous conclusions were sound by taking a more robust approach to analyzing the data. The data from these four studies were reanalyzed using Bayesian hierarchical models. The Bayesian model framework was able to simultaneously account for different sources of variation, such as between year variation in capture and survival probabilities. Ken Newman, a mathematical statistician with USFWS, will be sharing the results of the CALFED Science Program funded evaluation of these four studies.

An educational series dedicated to ideas for California's Delta

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