

Structured Decision Making for Scientific Management in the Bay-Delta
Monthly Conference call Friday February 8, 2019



Call in: 1-888-251-2909

Code - 4453133

Agenda

Chinook model update

Delta smelt

Modeling results- visualization

Ag revenue

New business

Reminder: In-person meeting Friday Feb. 22 8:30am – 4pm
980 Ninth Street, Sacramento CA 95814

Chinook model update

New CWT report and Chinook model calibration

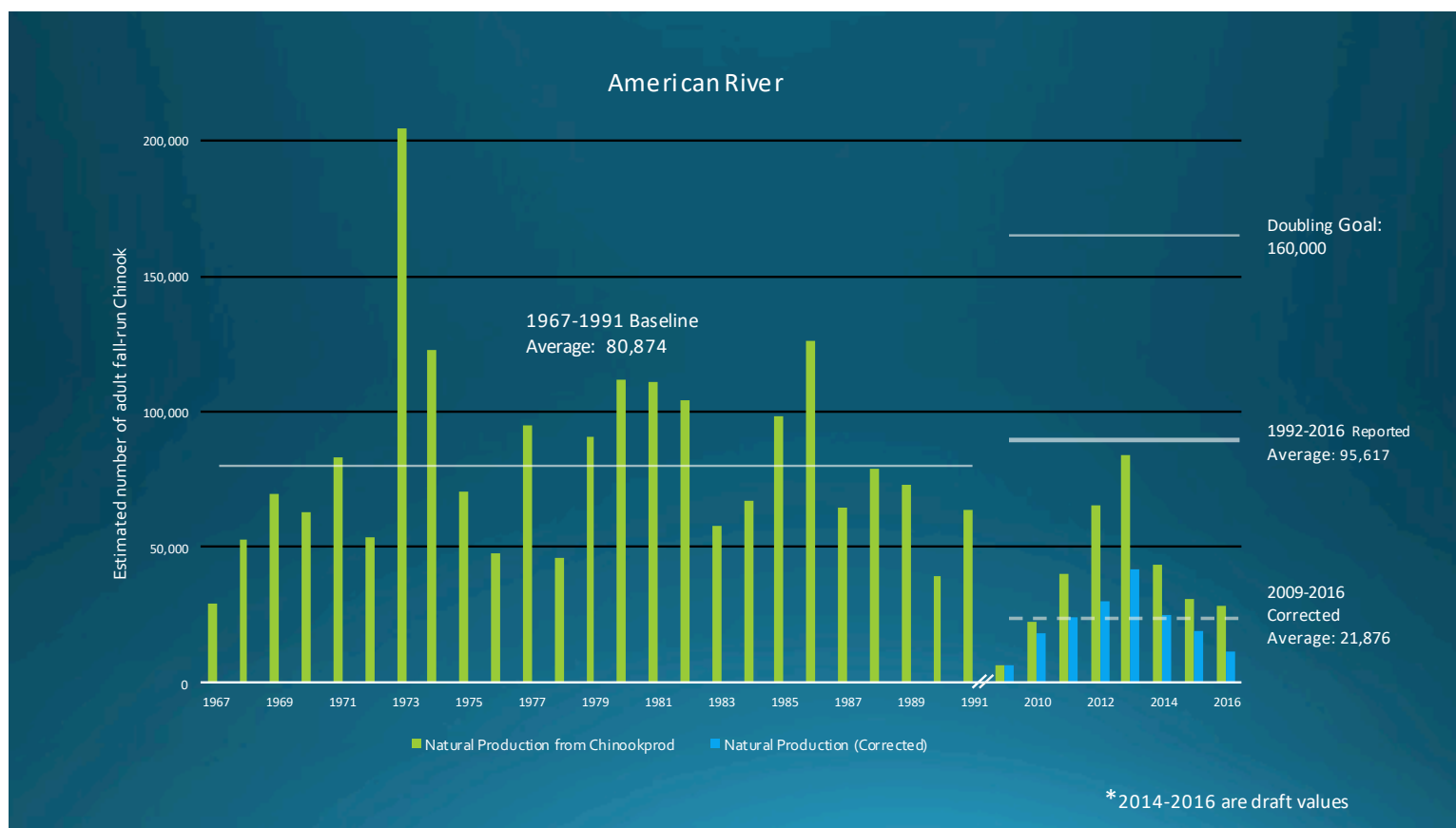
Recovery of Coded-Wire Tags from Chinook Salmon in California's Central Valley Escapement, Inland Harvest, and Ocean Harvest in 2013

Melodie Palmer-Zwahlen^{1/}, Vanessa Gusman^{2/}, and Brett Kormos^{2/}



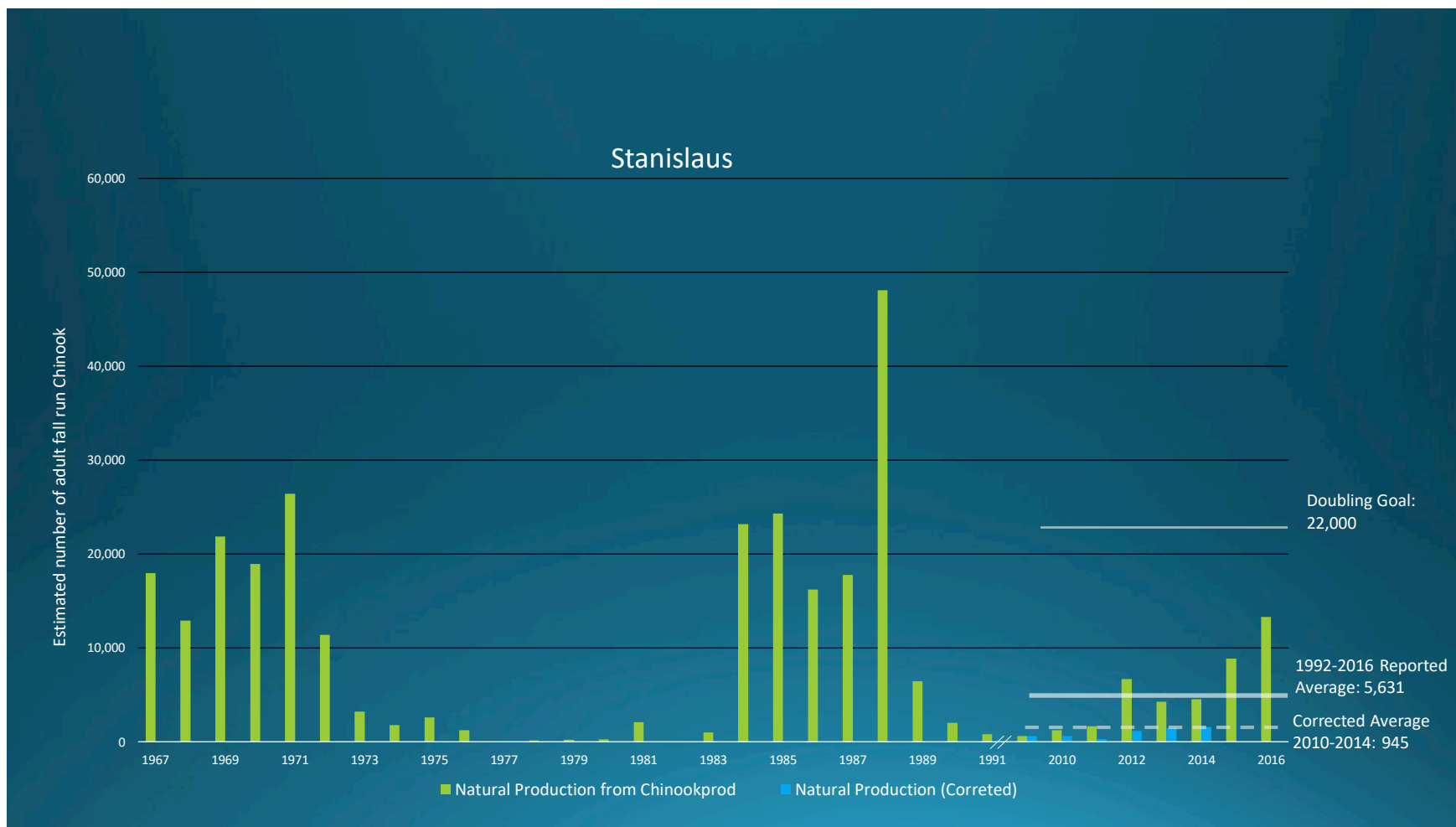
Chinook model update

Large discrepancies = revise estimates & recalibration



Chinook model update

Large discrepancies = revise estimates & recalibration



Delta Smelt Model Modifications

Rose et al model- daily time step

CALSIM / DSM – monthly time step

Modified model monthly time step

Rose model- empirical food availability data 1995-2006

Candidate actions potentially affect food availability

Modeled food availability

- 6 taxa/life stages

- GLMM, f(flow, temperature, secchi, EC)

- Best-fitting taxa- specific models

- R code, data, model parameters:

https://drive.google.com/open?id=1bPQGpoSoBuAMmWDQZWWqP0GKEayH_cFL

Delta Smelt Model Modifications

CALSIM / DSM no temperature outputs

Temperature modeling- FlowWest

Recently completed

All model inputs completed



Delta Smelt Model Calibration

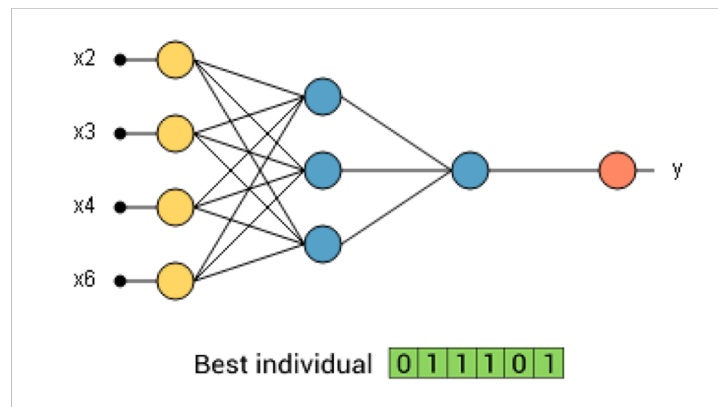
Modified model monthly time step- needs some adjustment

Calibration period: 1995-2006

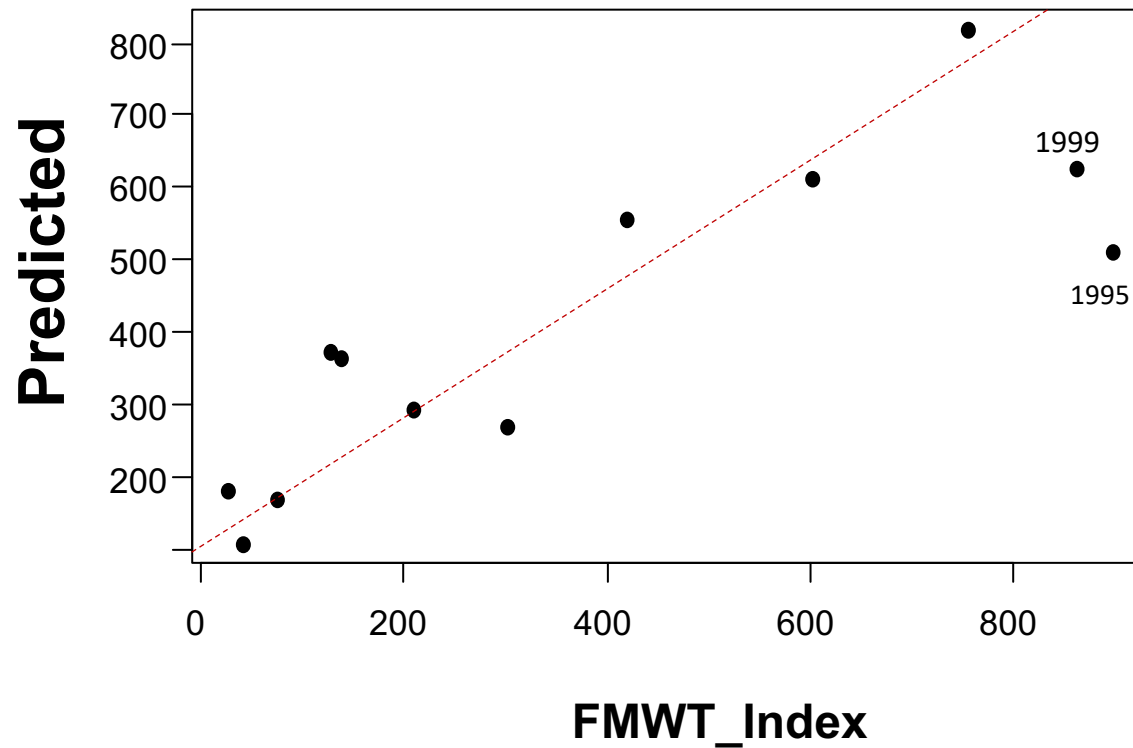
Baseline monthly flows, temperature, secchi, EC

Calibrated to FWMT index

Genetic algorithm



Initial calibration results



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**Face to Face Meeting February 22
980 9th St, Sacramento**