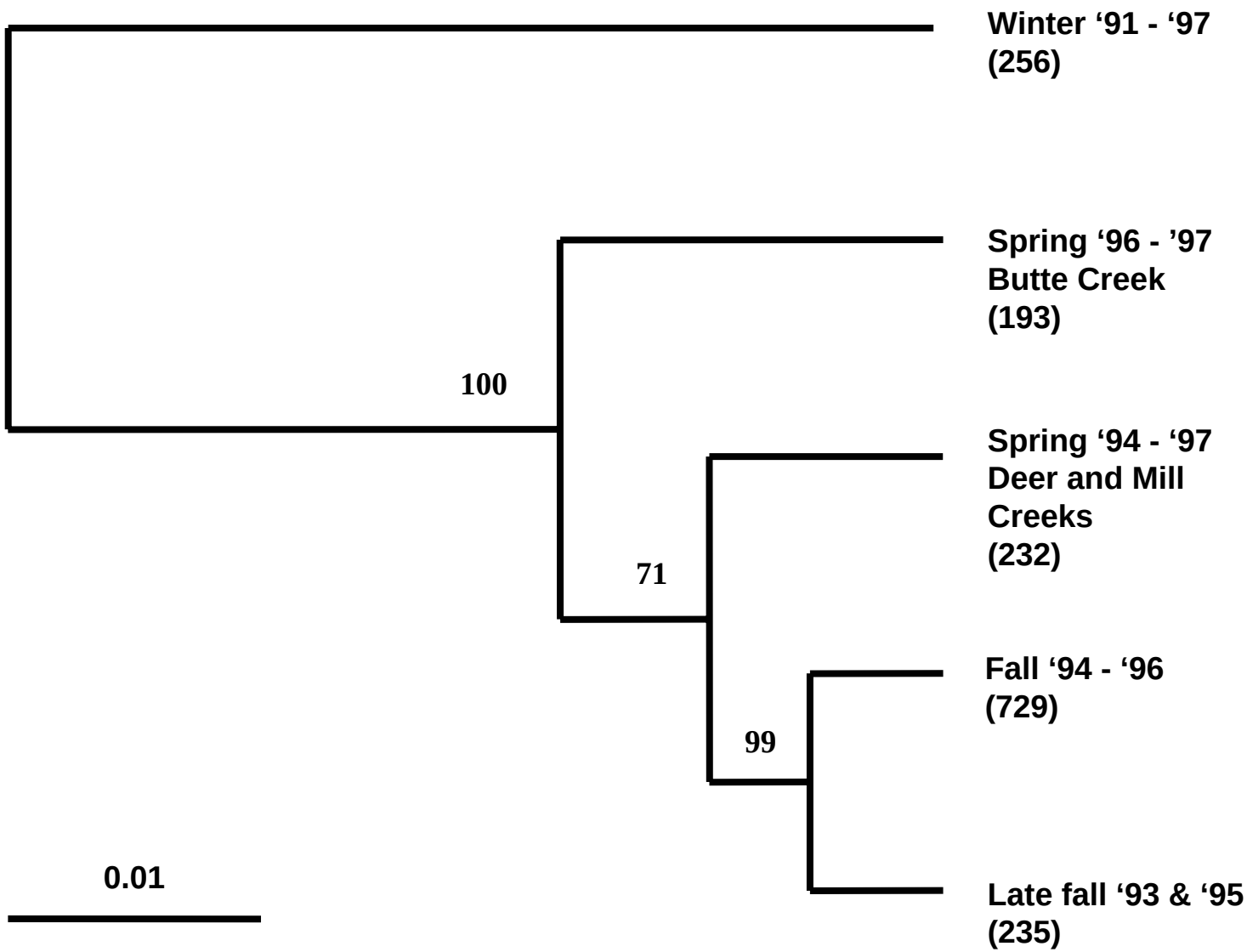
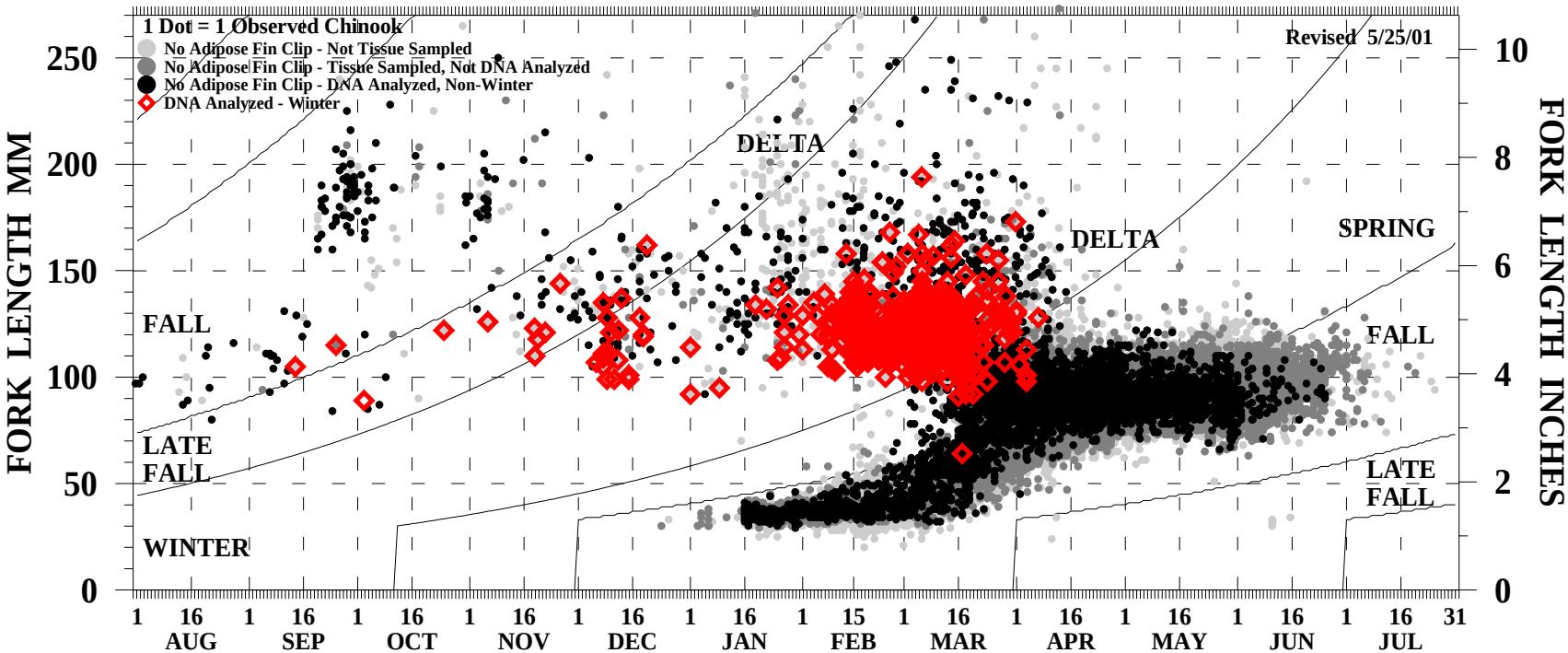
GENETICS OF CENTRAL VALLEY CHINOOK



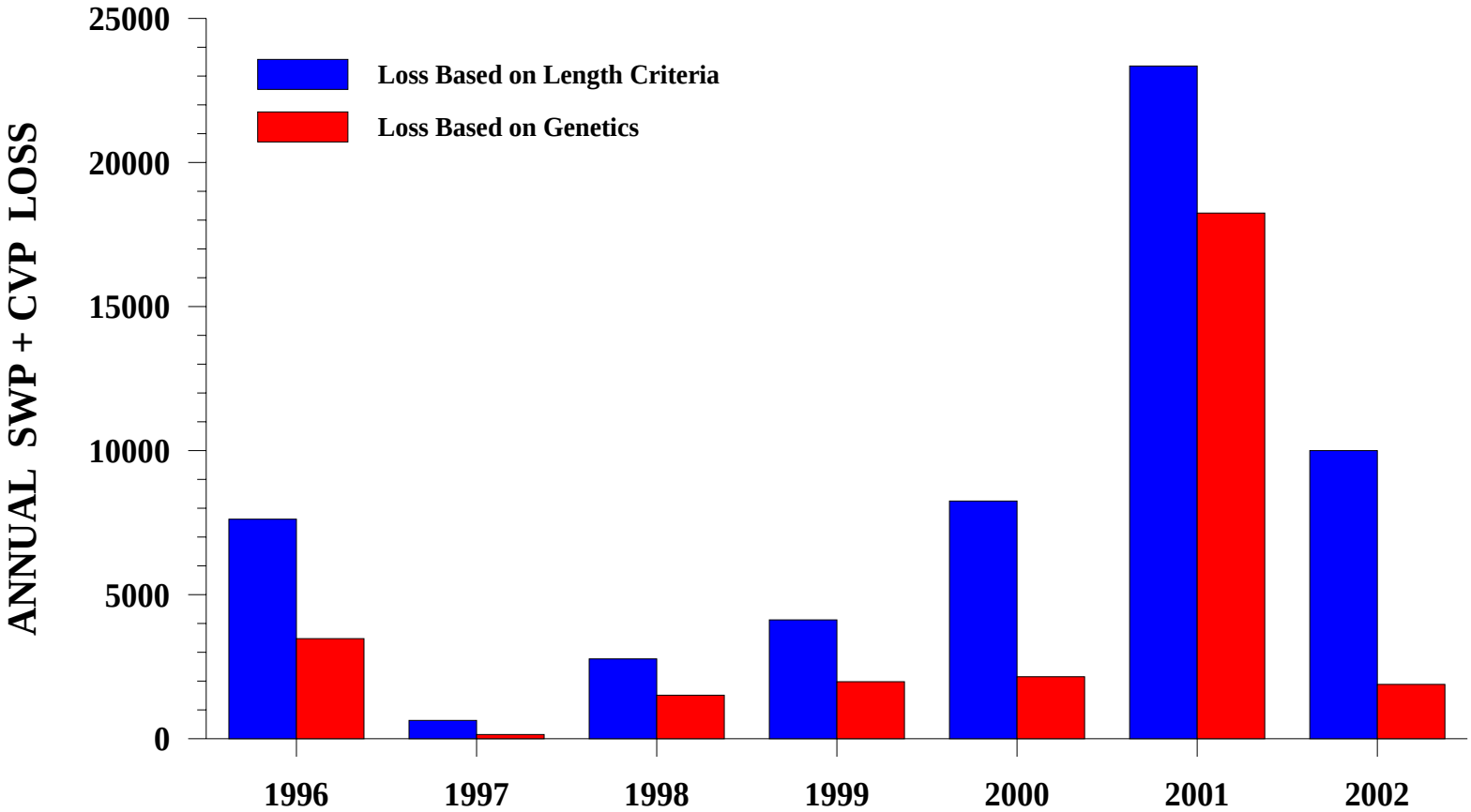
(Banks et al. 2000)

OBSERVED CHINOOK SALVAGE AT THE SWP & CVP DELTA FISH FACILITIES 8/1/95 THROUGH 7/31/02



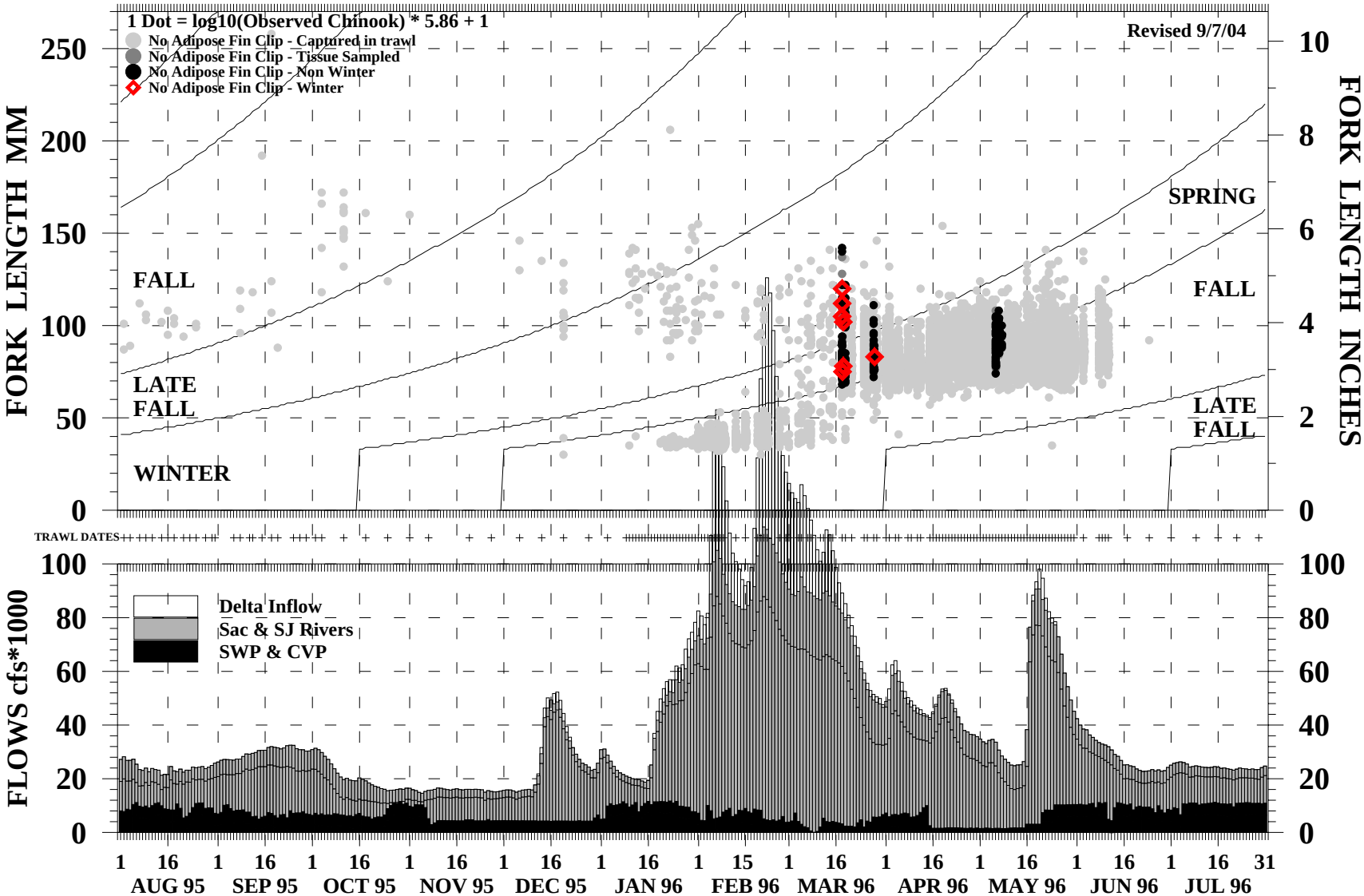
Preliminary, Subject to Revision
Sheila Greene, DWR 10/01/2001

ANNUAL WINTER RUN LOSS BASED ON LENGTH CRITERIA AND GENETIC IDENTIFICATION, 1998 - 2002



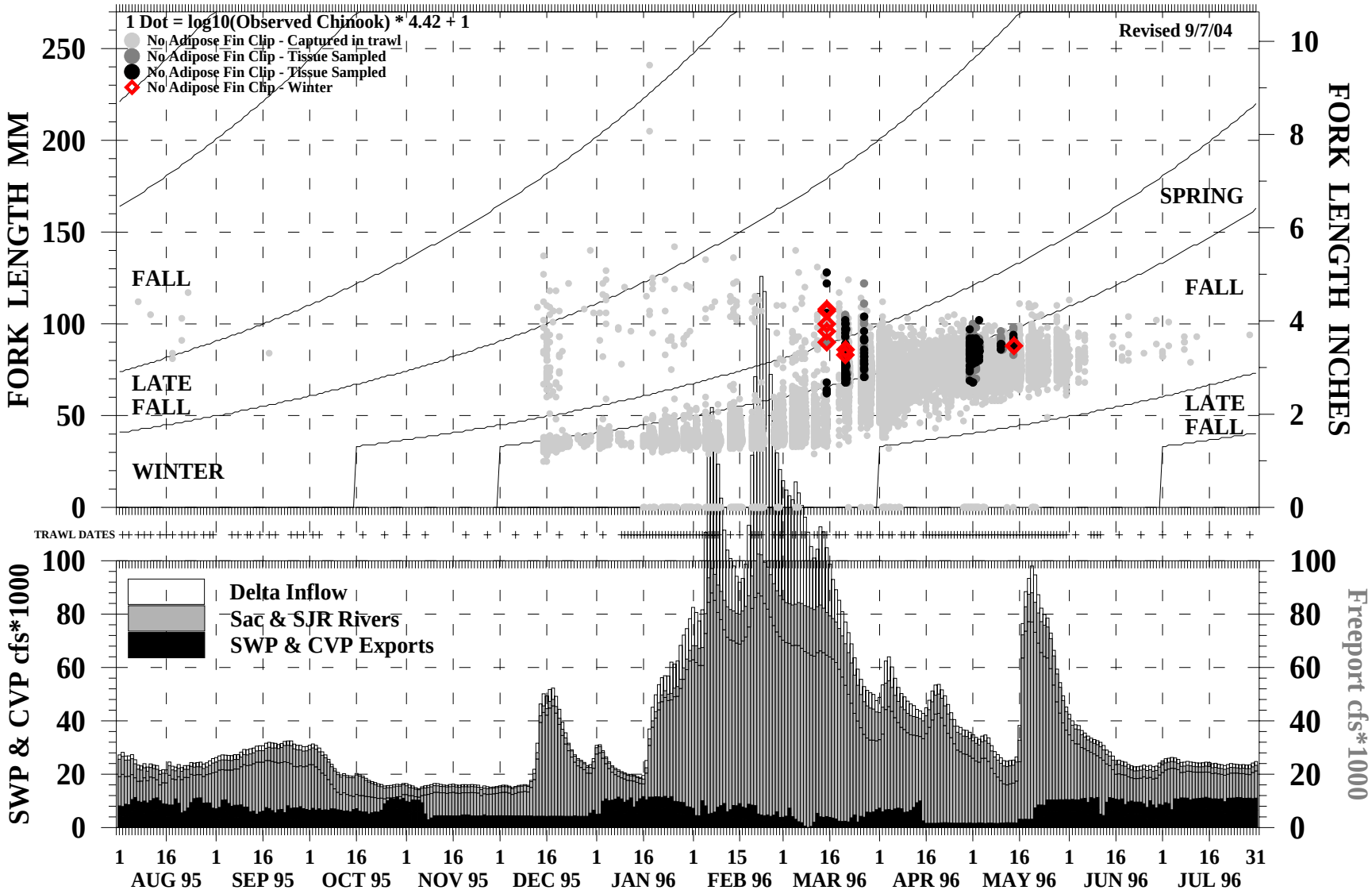
Preliminary
Sheila Greene, DES-DWR, 9/7/2004

CHINOOK MEASURED AT CHIPPS ISLAND (SR018)
TRAWL AND DNA ANALYSIS 8/3/95 THROUGH 7/28/96



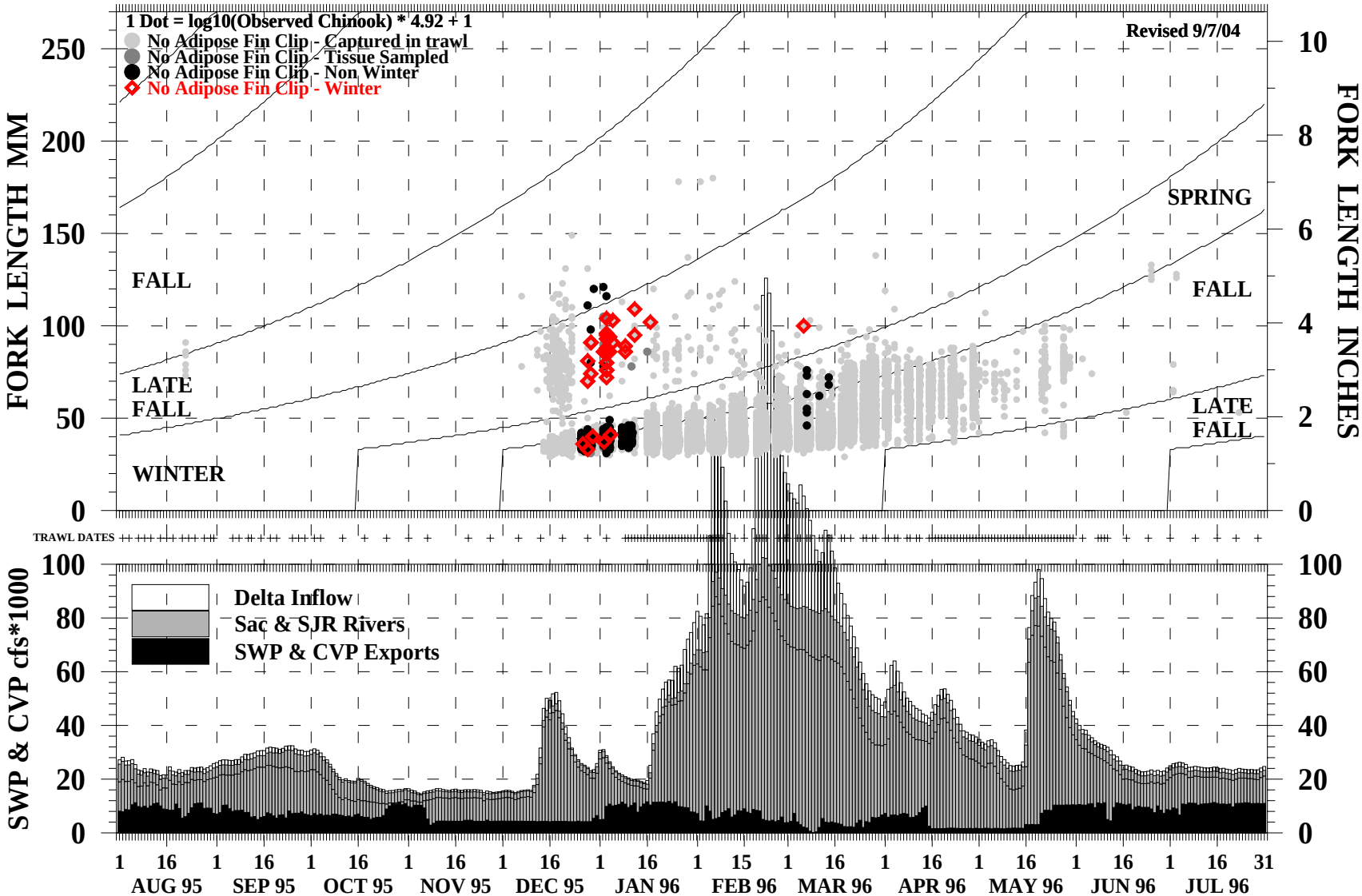
Preliminary
Sheila Greene, DWR, 9/7/2004

CHINOOK MEASURED IN THE SACRAMENTO RIVER SR055 TRAWL AND DNA ANALYSIS, MWT 8/2/95-10/22/95, KT 10/23/95-3/31/96, MWT 4/1/96-7/31/96



Preliminary
Sheila Greene, DWR, 9/7/2004

CHINOOK MEASURED IN SACRAMENTO - SJ DELTA BEACH SEINE AND DNA ANALYSIS, 8/1/95 THROUGH 7/31/96



Prliminary
Sheila Greene, DWR, 9/7/2004

MARKERS

Current Markers

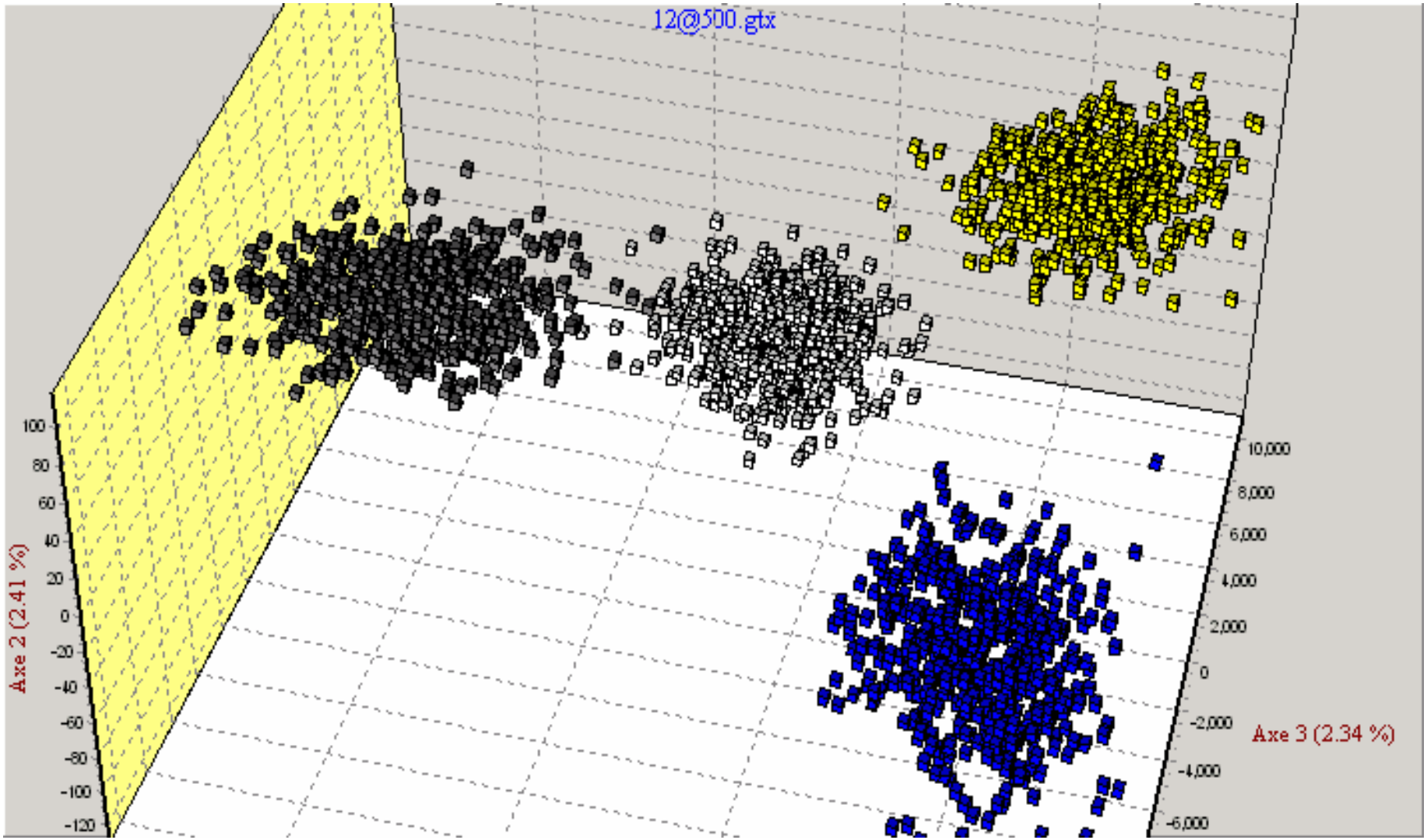
Ots83b, **Ots104**, **Ots107**, Ots201, Ots209, Ots211, Ots213, OtsG249, OtsG253b, OtsG311, OtsG409, OtsG422

Former Winter Run Markers

Ots2, Ots3, Ots9, Ots10, One13, **Ots104**, **Ots107**

Top 12

Ots-311, 107, 409, 422, 209, 253, 204, 104, 249, 211, 83b, 213



Banks, OSU, 2004

ACCURACY

Run	%Correct	Variance	% False Positive	Variance
Winter Run	100	0.001	0.07	0.04
Butte Spring Run	99	0.008	0.9	0.8
Mill/Deer Spring Run	99	0.6	0.4	0.8
Fall Run	99	0.7	0.1	0.8
Late-Fall Run	99	0.05	0.5	0.4

JOURNAL PUBLICATIONS

Banks, M.A. 2004. Stock identification for the conservation of threatened or endangered species. In: Stock identification methods Eds: Cadrin, S.X., K.D. Friedland and J.R. Waldman. Elsevier Press. In Press.

Banks, M.A. and D.P. Jacobson. 2004. Which Genetic Markers and GSI Methods are More Appropriate For Defining Marine Distribution and Migration of Salmon? North Pacific Anadromous Fish Commission Technical Note 5: In Press.

Greig, C., D.P. Jacobson, and M.A. Banks. 2003. New tetranucleotide microsatellites for fine-scale discrimination among endangered Chinook salmon (Oncorhynchus tshawytscha). Molecular Ecology Notes 3:376-379.

Banks, M.A. W. Eichert, and J.B. Olsen. 2003. Which Genetic Loci Have Greater Population Assignment Power? Bioinformatics 19(11):1436-1438.