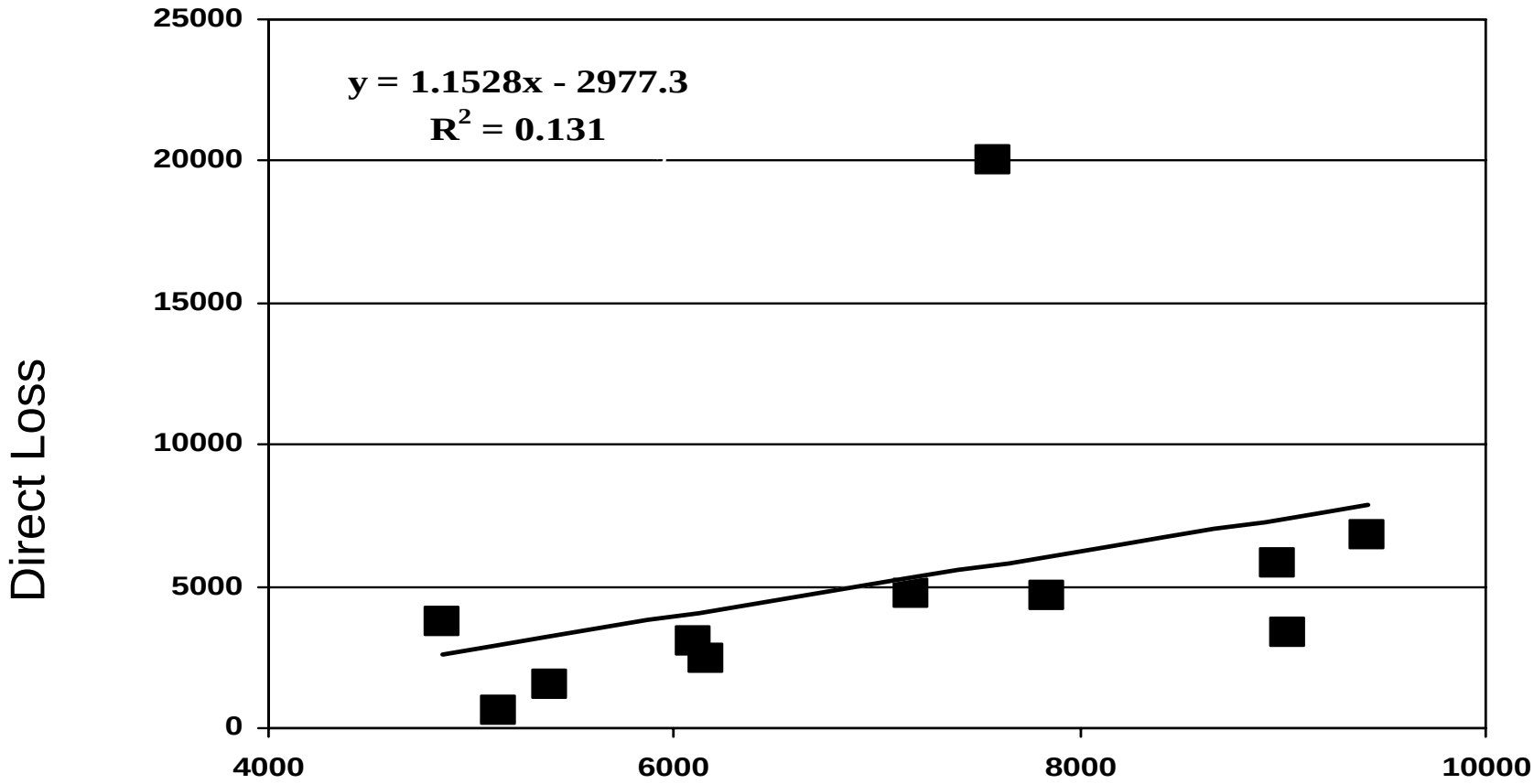


Figure 1: Combined direct loss (using Delta curves) of winter run versus mean CVP+SWP exports December 1 through April 15, 1992-1993 through 2002-2003.

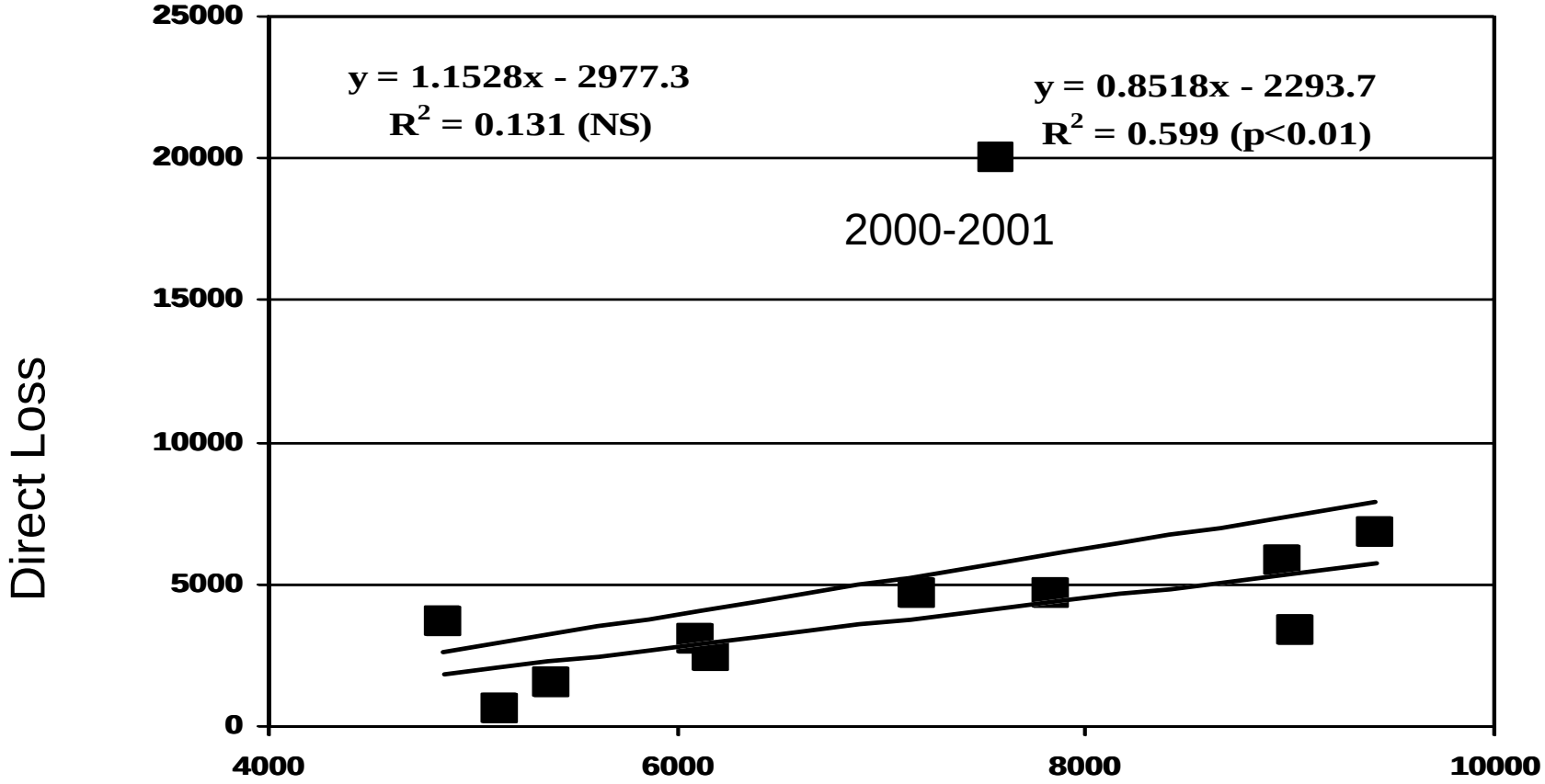


Figure 2: Combined direct loss (using Delta curves) of winter run versus mean CVP+SWP exports December 1 through April 15, 1992-1993 through 2002-2003 with and without 2000-2001 data.

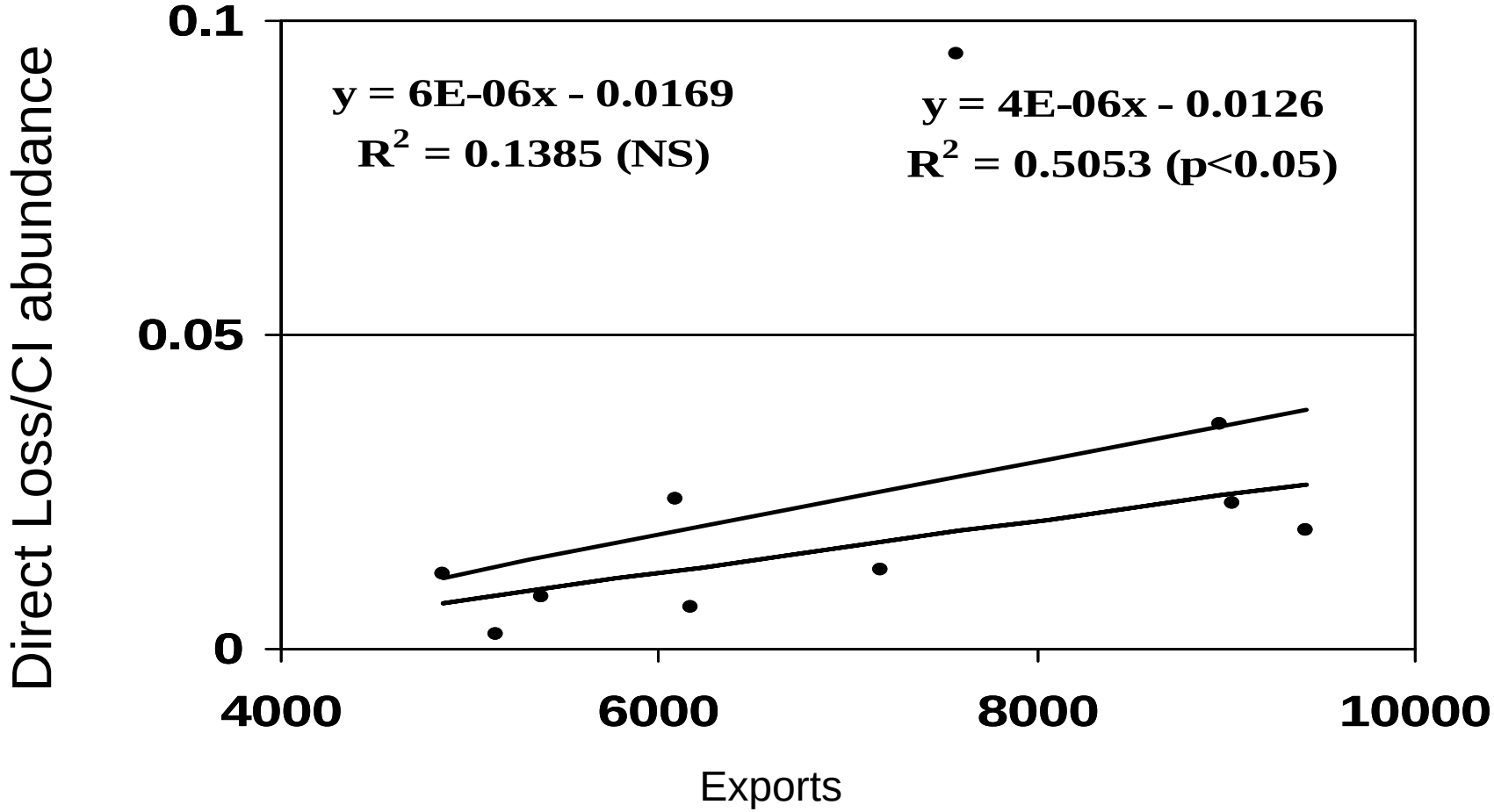


Figure 3: Direct loss (Delta curves)/Chipps Island abundance (Delta curves) versus mean CVP+SWP exports December 1 through April 15, 1993-1994 through 2002-2003.

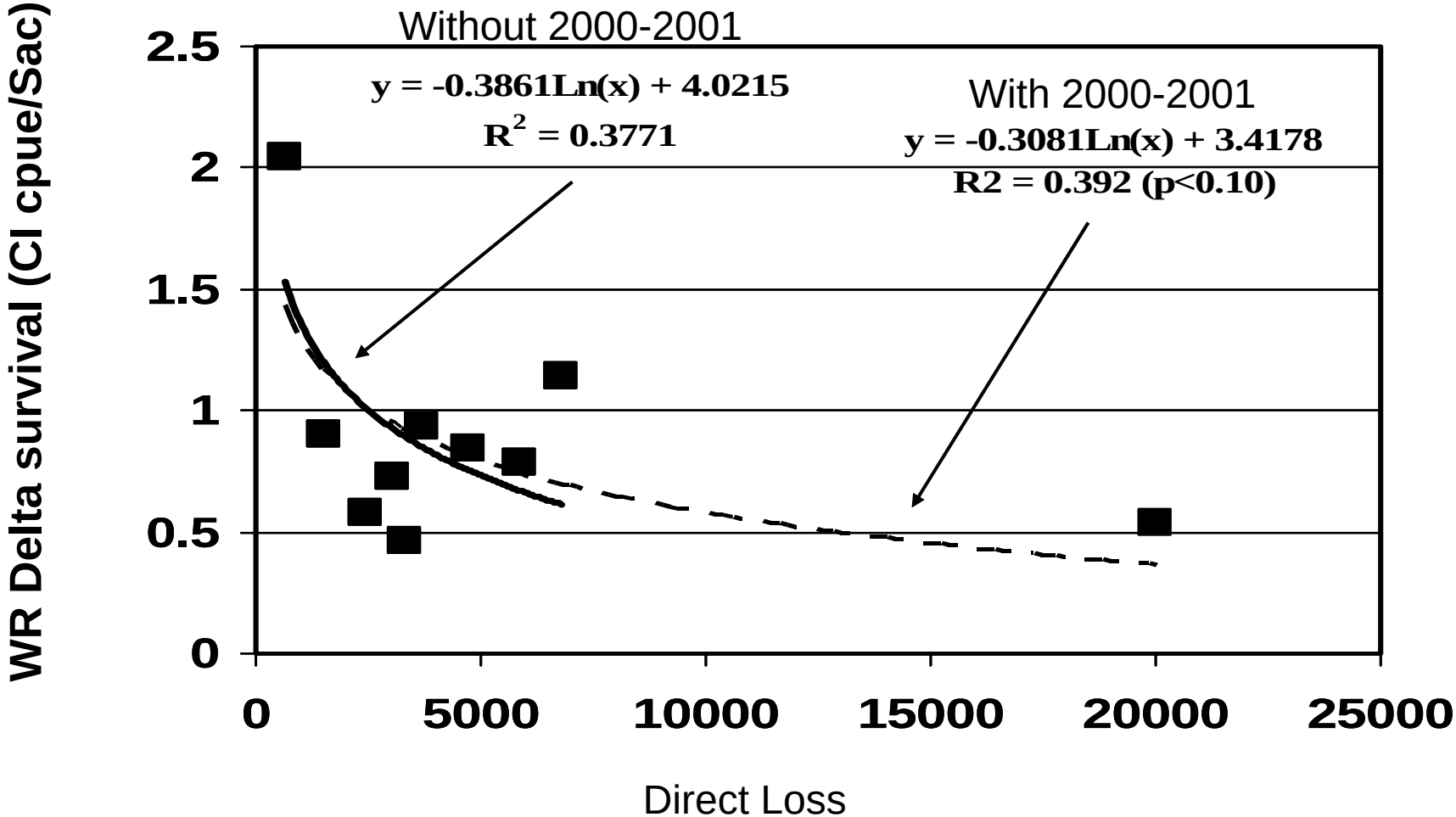


Figure 4: Survival of winter run between Sacramento and Chipps Island (based on FF curves) versus direct loss (Delta curves) at the CVP+SWP, 1993-1994 through 2002-2003.

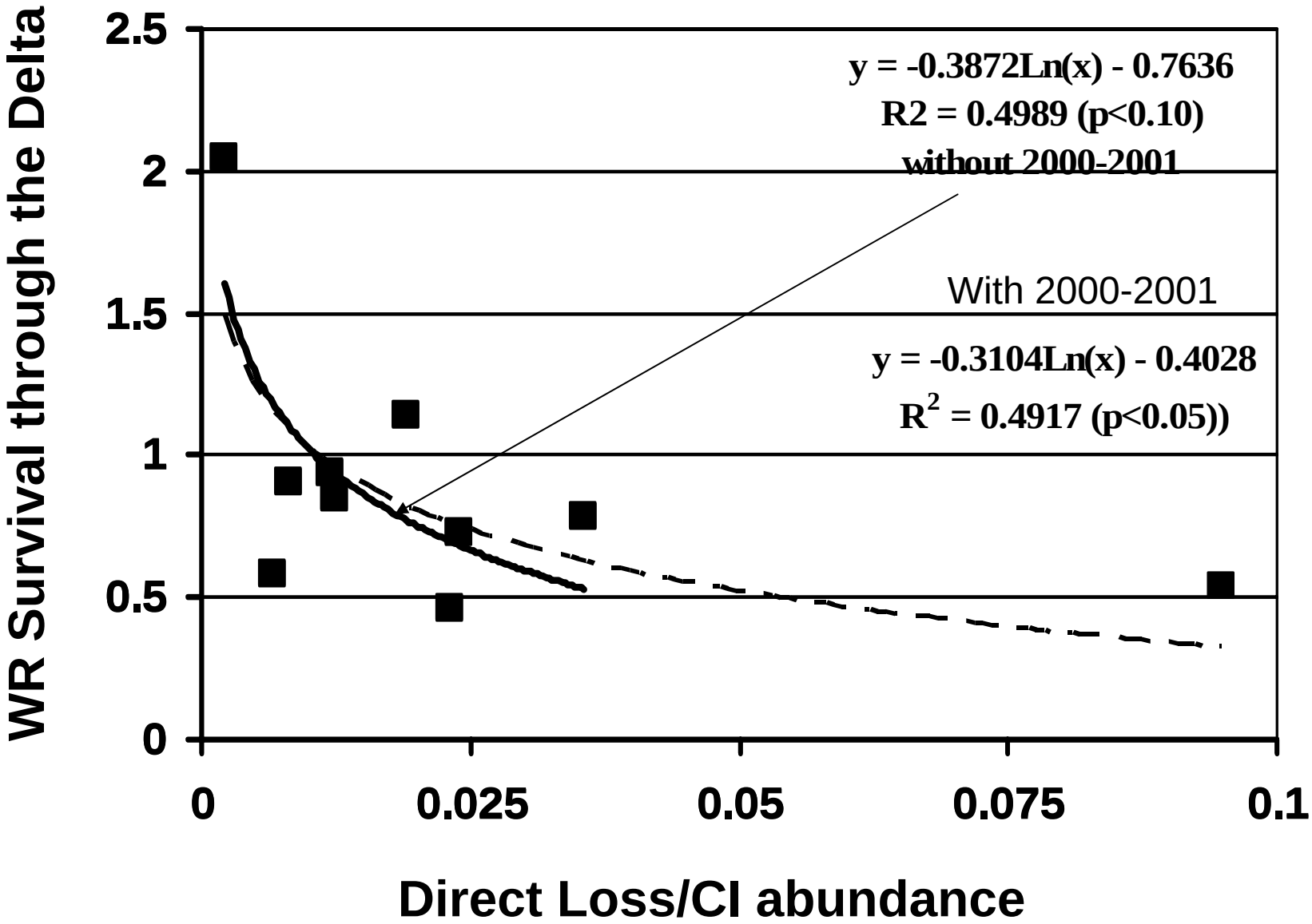


Figure 5: Direct loss (Delta curves)/Chipps Island abundance (Delta curves) versus winter run survival through the Delta (FF curves) 1993-1994 through 2002-2003.

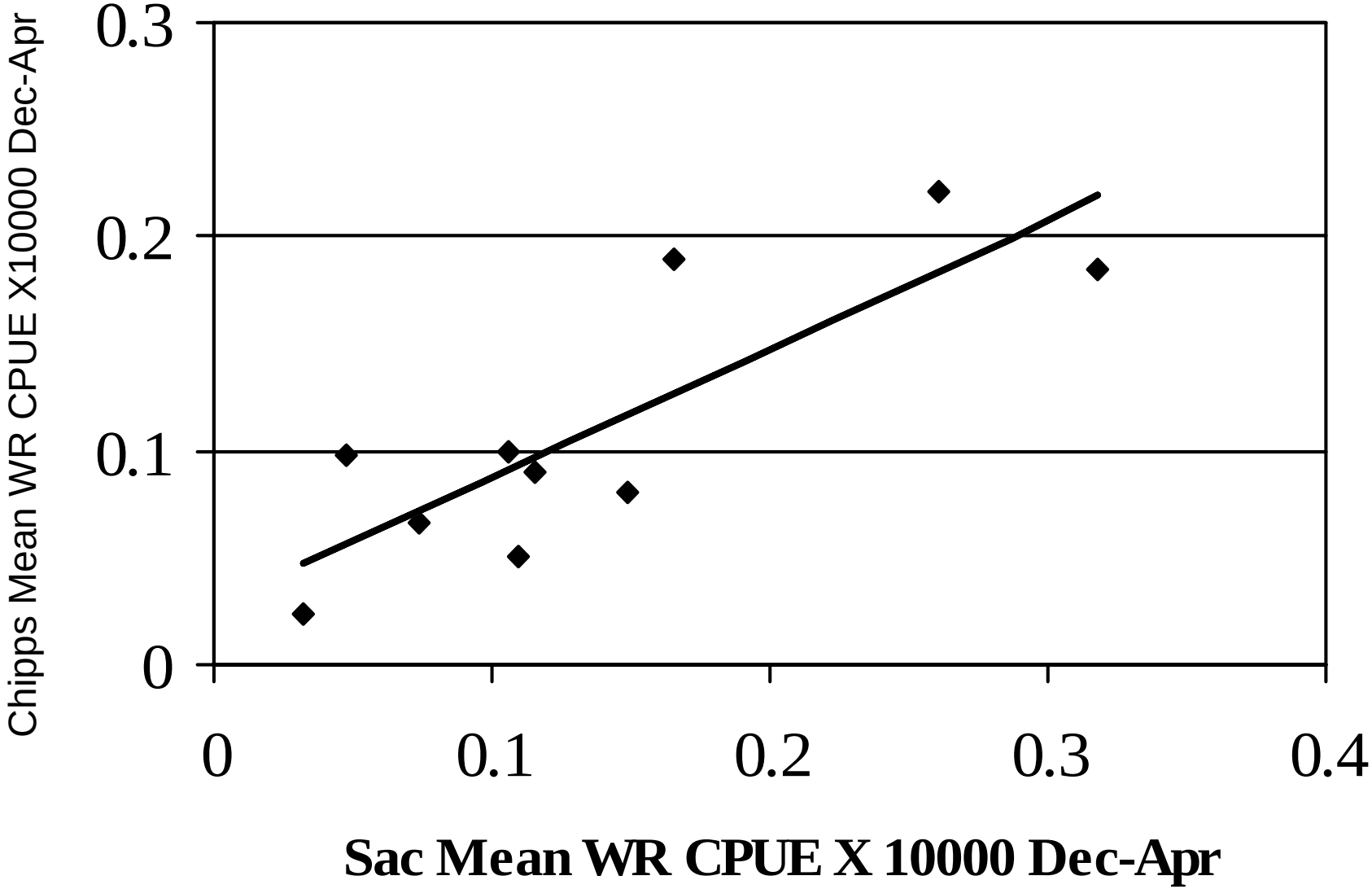


Figure 6: Relationship between Mean CPUE of Winter run sized salmon (using the Fisher curves) in the Sacramento Trawl and Chipps Island Trawl

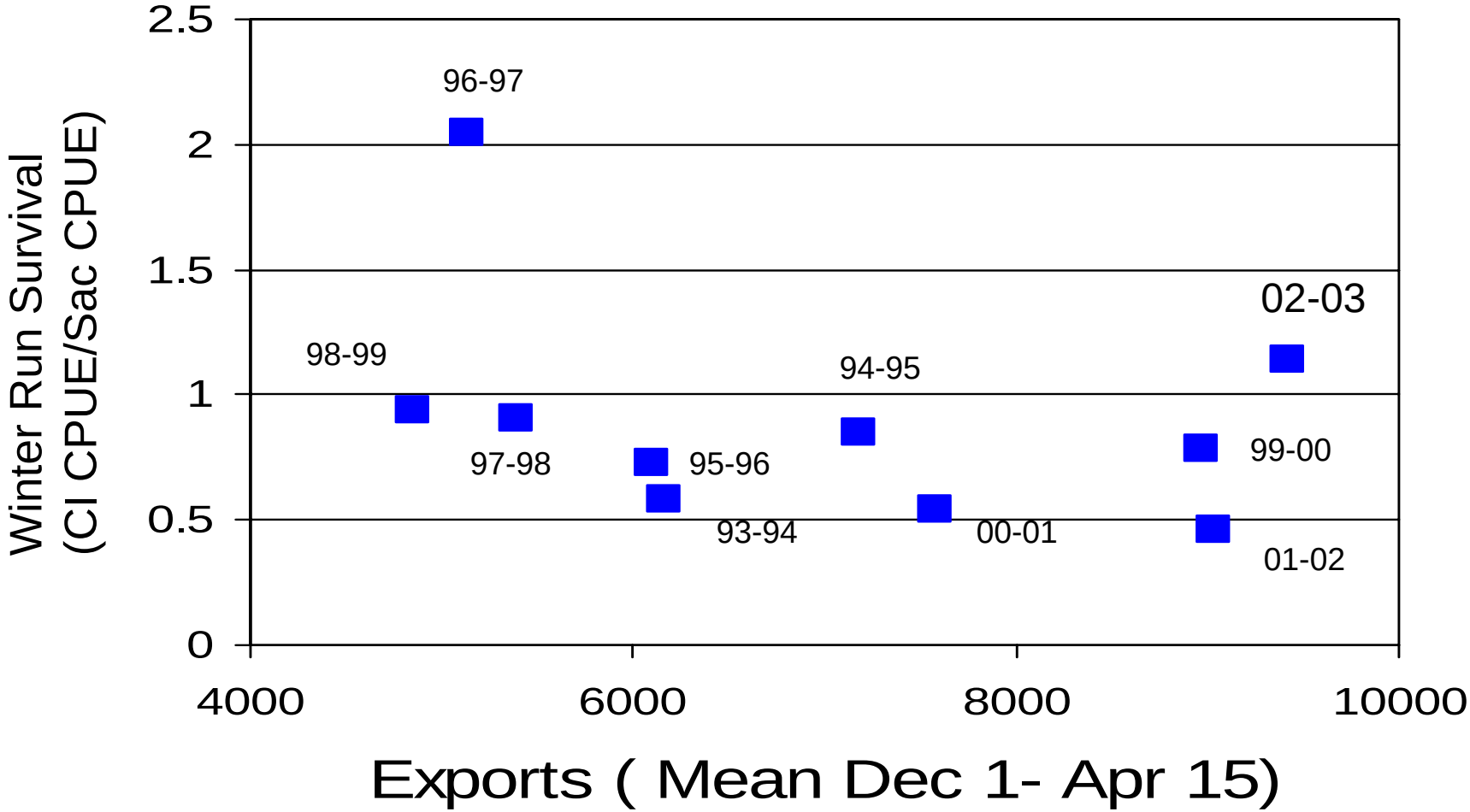


Figure 7: Survival of winter run between Sacramento and Chipps Island versus Mean CVP+SWP exports December through April 15, 1993-1994 through 2001-2002

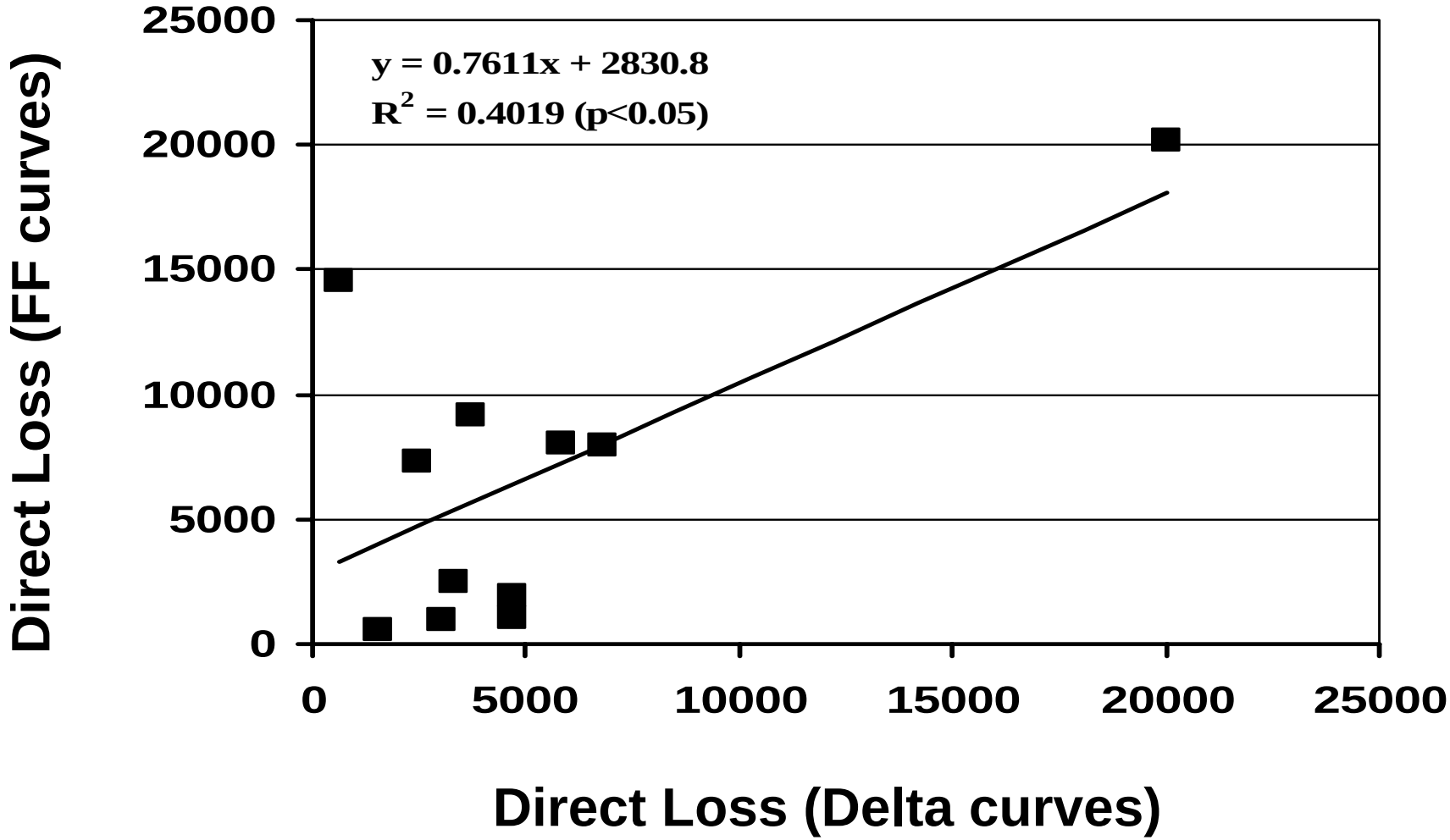


Figure 8: Direct loss using Frank Fisher curves versus direct loss using Delta curves to distinguish winter run sized fish, 1993-1994 through 2001-2002.

Figure 9:

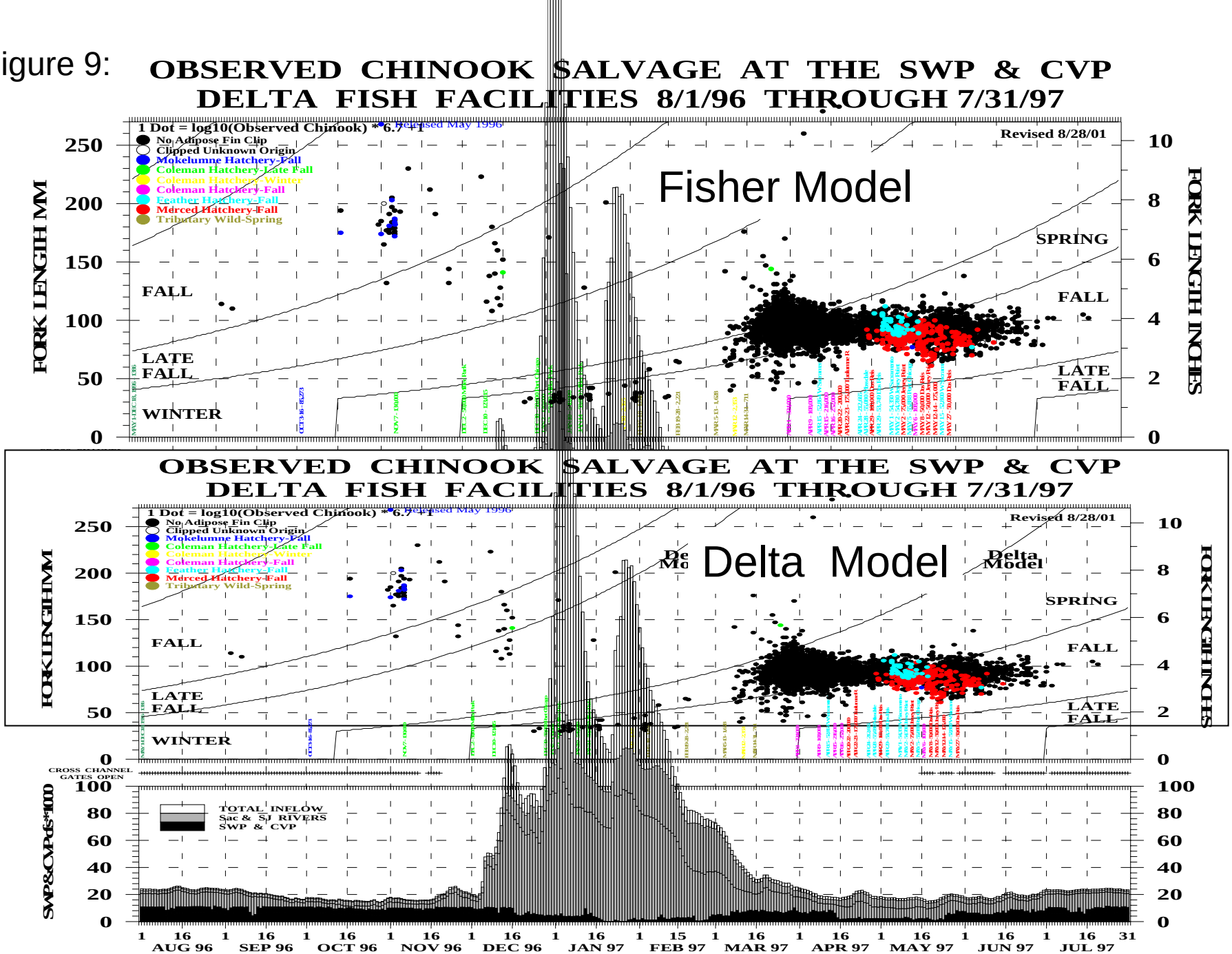
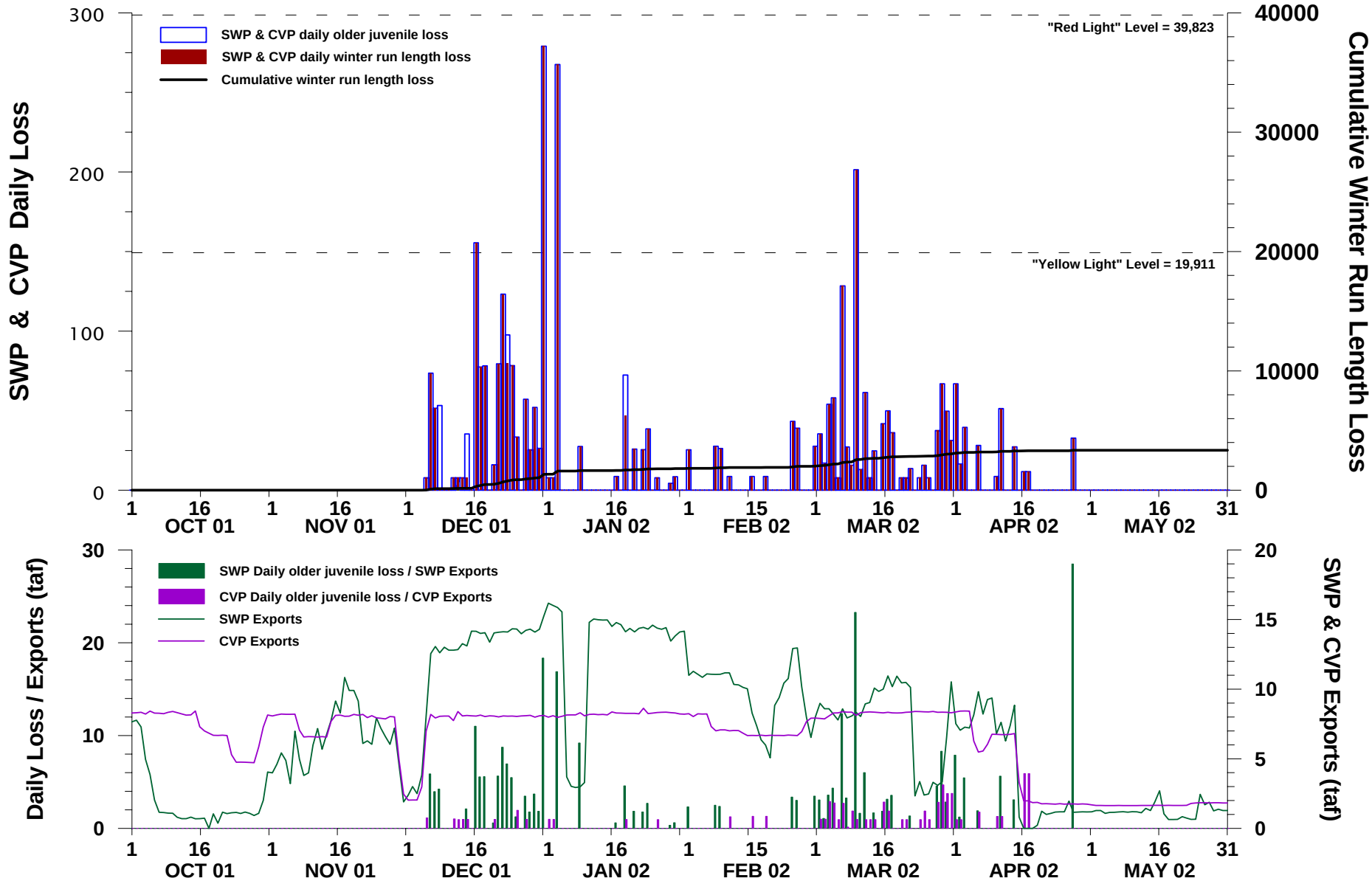

OBSERVED CHINOOK SALVAGE AT THE SWP & CVP
DELTA FISH FACILITIES 8/1/96 THROUGH 7/31/97
1 Dot = log10(Observed Chinook) * 6.7+1
Revised May 1996
Revised 8/28/01
No Adipose Fin Clip
Clipped Unknown Origin
Mokelumne Hatchery-Fall
Coleman Hatchery-Late Fall
Coleman Hatchery-Winter
Coleman Hatchery-Fall
Feather Hatchery-Fall
Merced Hatchery-Fall
Tributary Wild-Spring
Fisher Model
Delta Model
FORK LENGTH MM
FORK LENGTH INCHES
SPRING
FALL
LATE FALL
WINTER
CROSS CHANNEL GATES OPEN
TOTAL INFLOW
Sac & SJ RIVERS
SWP & CVP
SWP&CVPcfs*1000
AUG 96
SEP 96
OCT 96
NOV 96
DEC 96
JAN 97
FEB 97
MAR 97
APR 97
MAY 97
JUN 97
JUL 97

Figure 10:

WINTER RUN & OLDER JUVENILE CHINOOK LOSS AT THE DELTA FISH FACILITIES 01 OCT 2001 THROUGH 31 MAY 2002

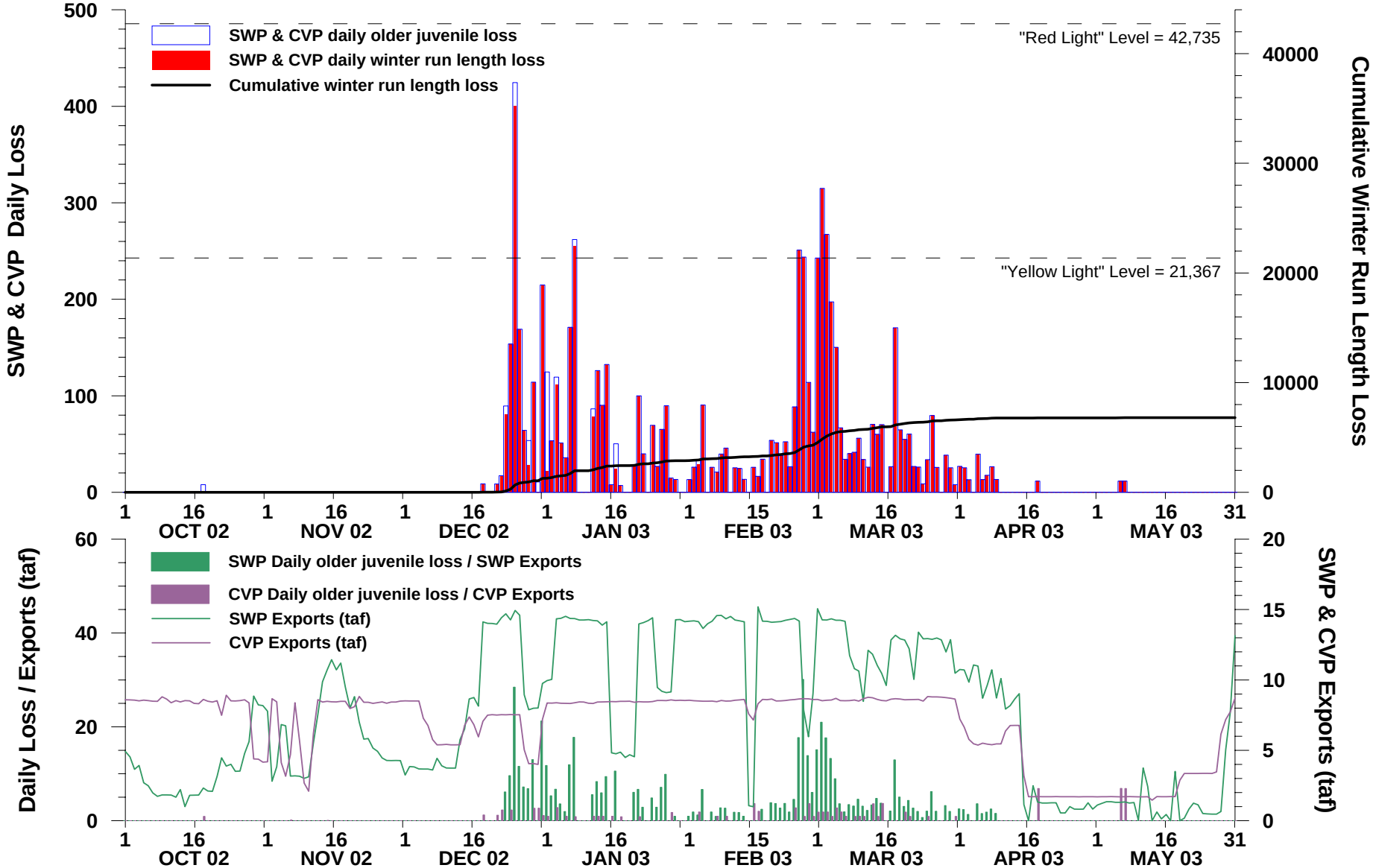


DWR-ESO 03 JUN 2002

PRELIMINARY, SUBJECT TO REVISION

Figure 11:

WINTER RUN & OLDER JUVENILE CHINOOK LOSS AT THE DELTA FISH FACILITIES 01 OCT 2002 THROUGH 31 MAY 2003

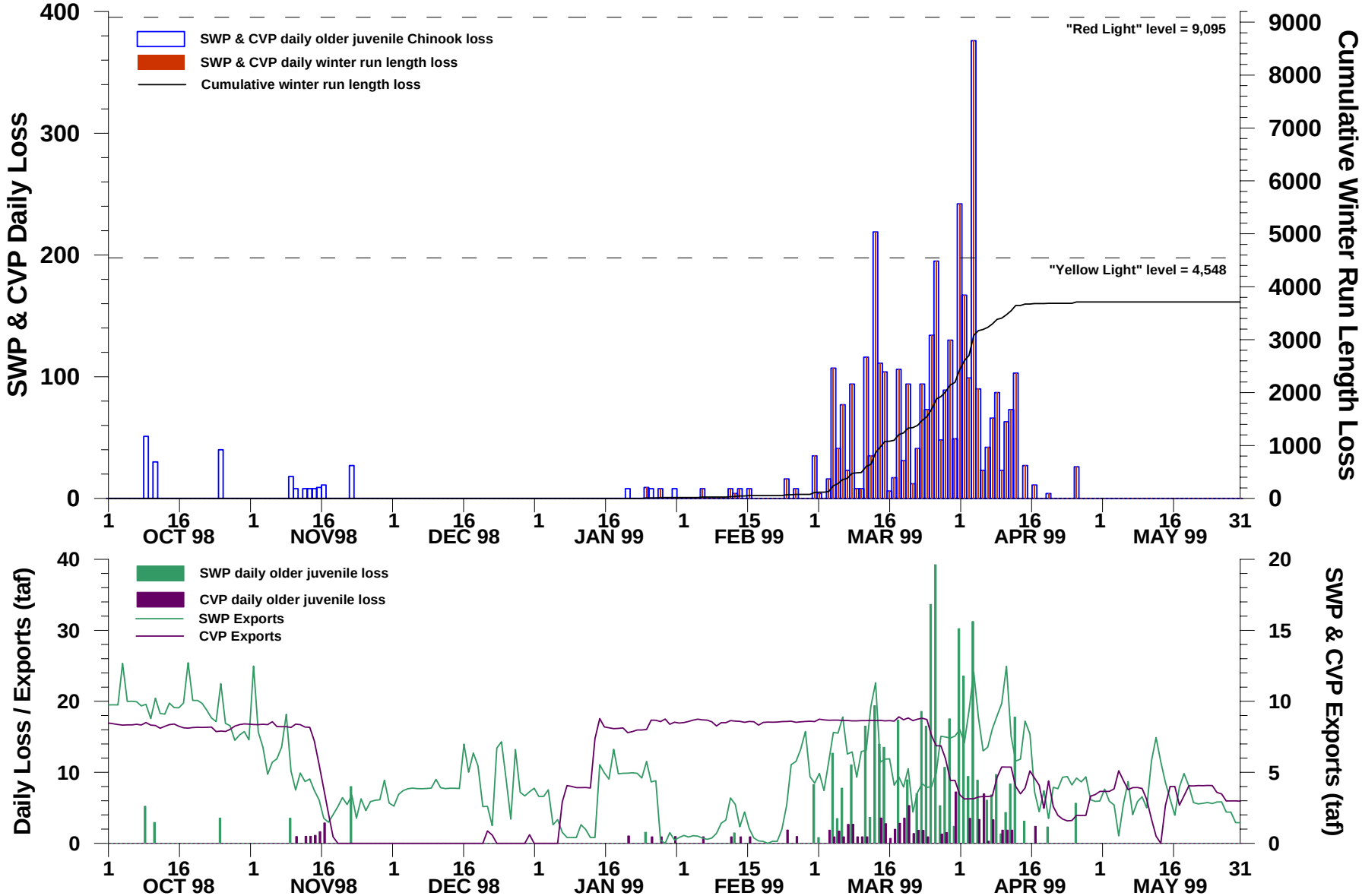


DWR-DES 02 JUN 2003

PRELIMINARY, SUBJECT TO REVISION

Figure 12:

WINTER RUN & OLDER JUVENILE CHINOOK LOSS AT THE DELTA FISH FACILITIES 01 OCT 1998 THROUGH 31 MAY 1999



DWR-ESO 15 FEB 2001

PRELIMINARY, SUBJECT TO REVISION

Figure 13: **WINTER RUN & OLDER JUVENILE CHINOOK LOSS AT THE DELTA FISH FACILITIES 01 OCT 2000 THROUGH 31 MAY 2001**

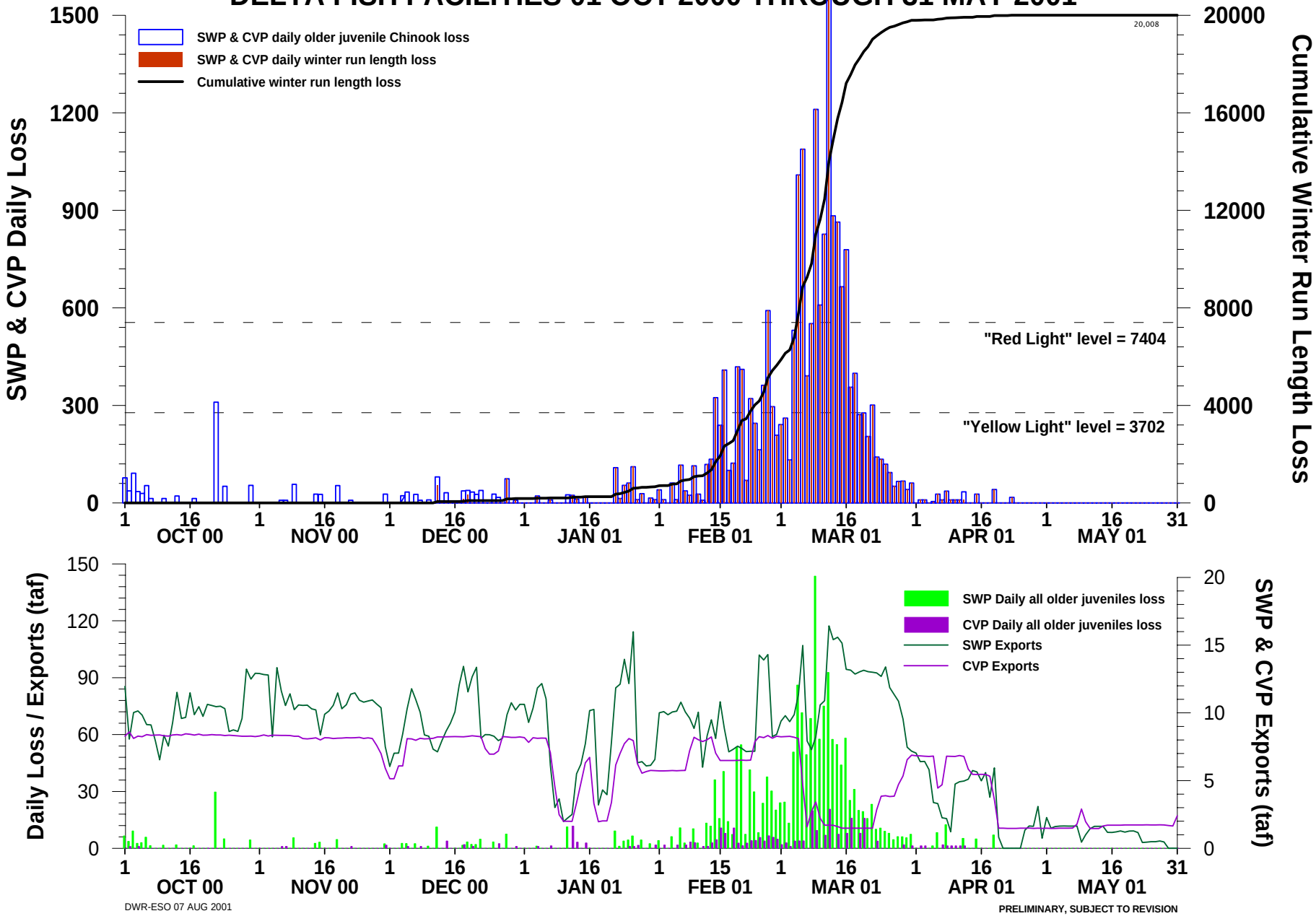
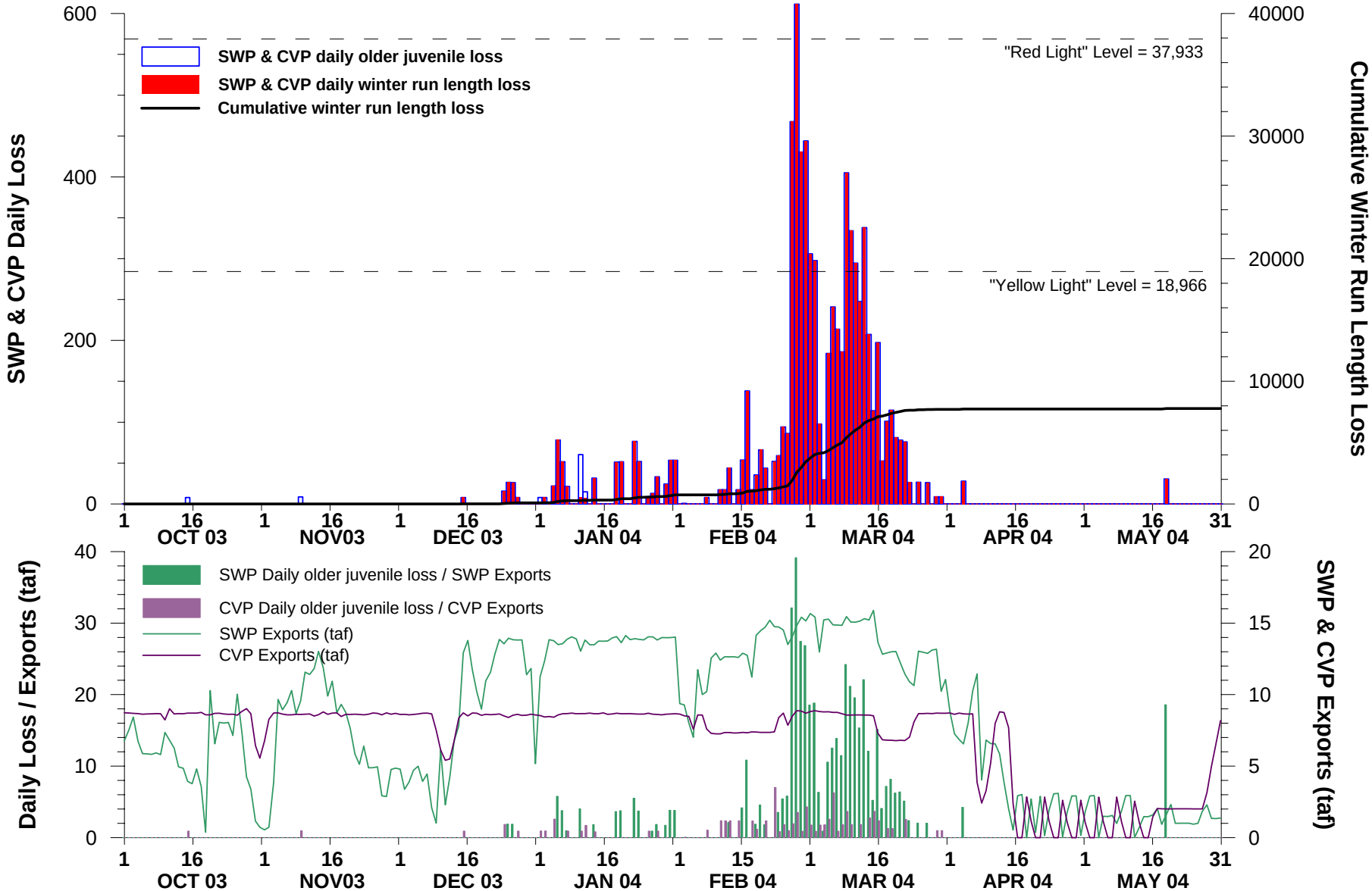


Figure 14:

WINTER RUN & OLDER JUVENILE CHINOOK LOSS AT THE DELTA FISH FACILITIES 01 OCT 2003 THROUGH 31 MAY 2004

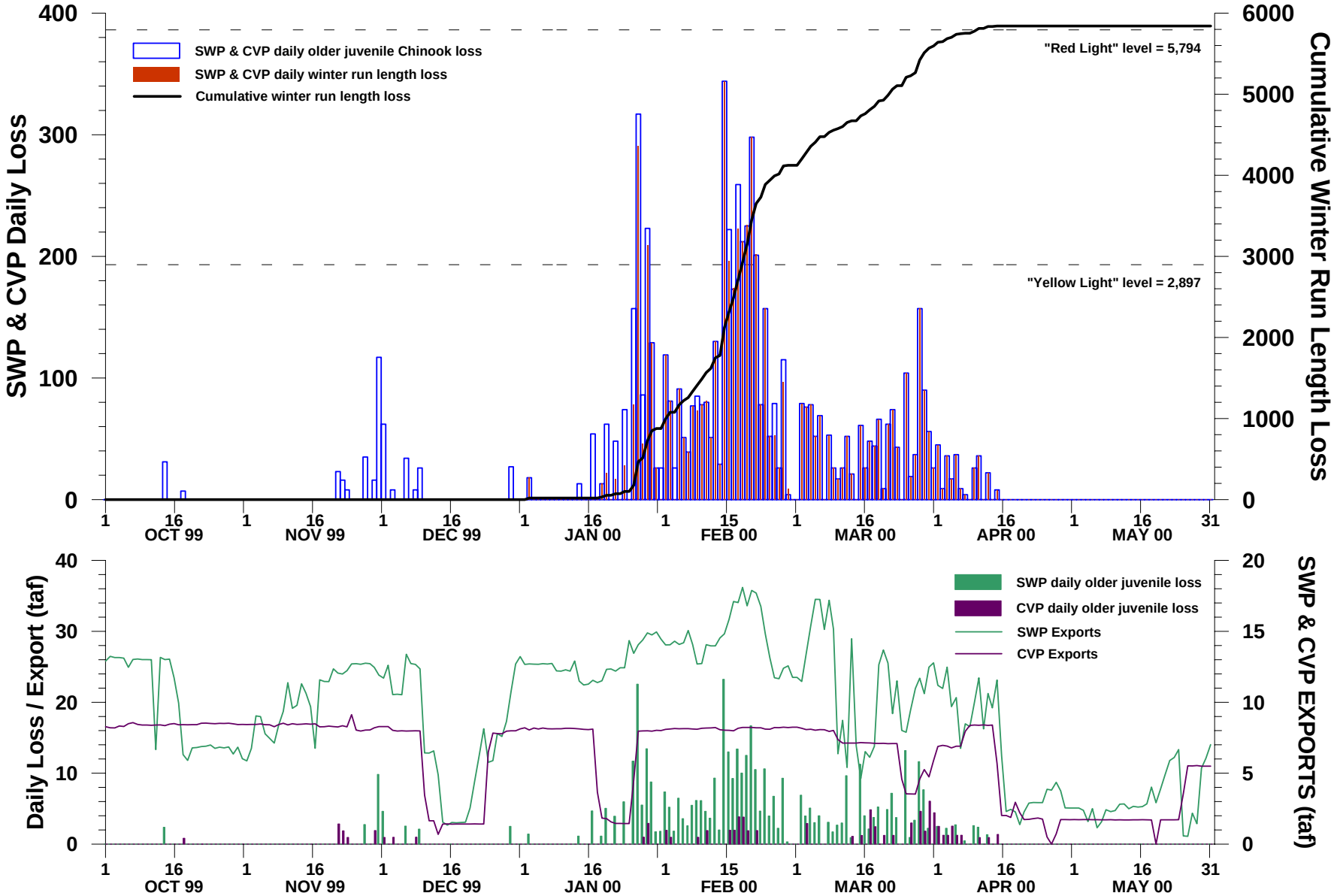


DWR-DES 02 JUN 2004

PRELIMINARY, SUBJECT TO REVISION

Figure 15:

WINTER RUN & OLDER JUVENILE CHINOOK LOSS AT THE DELTA FISH FACILITY 01 OCT 1999 THROUGH 31 MAY 2000



DWR-ESO 15 FEB 2001

PRELIMINARY, SUBJECT TO REVISION

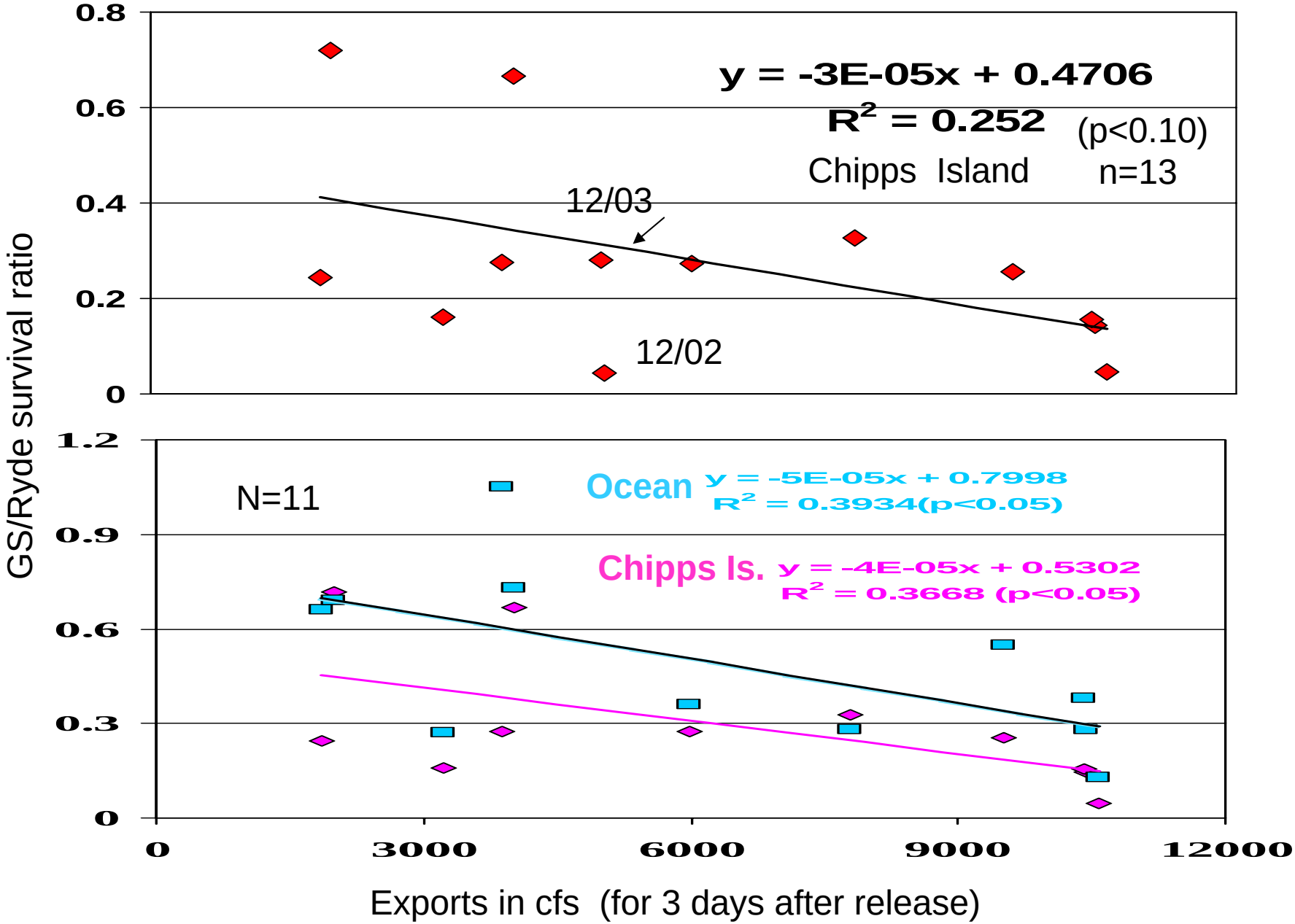


Figure 17: The survival ratio at Chipps Island and in the ocean fishery of late-fall released into Georgiana Slough and at Ryde versus exports 3 days after GS release

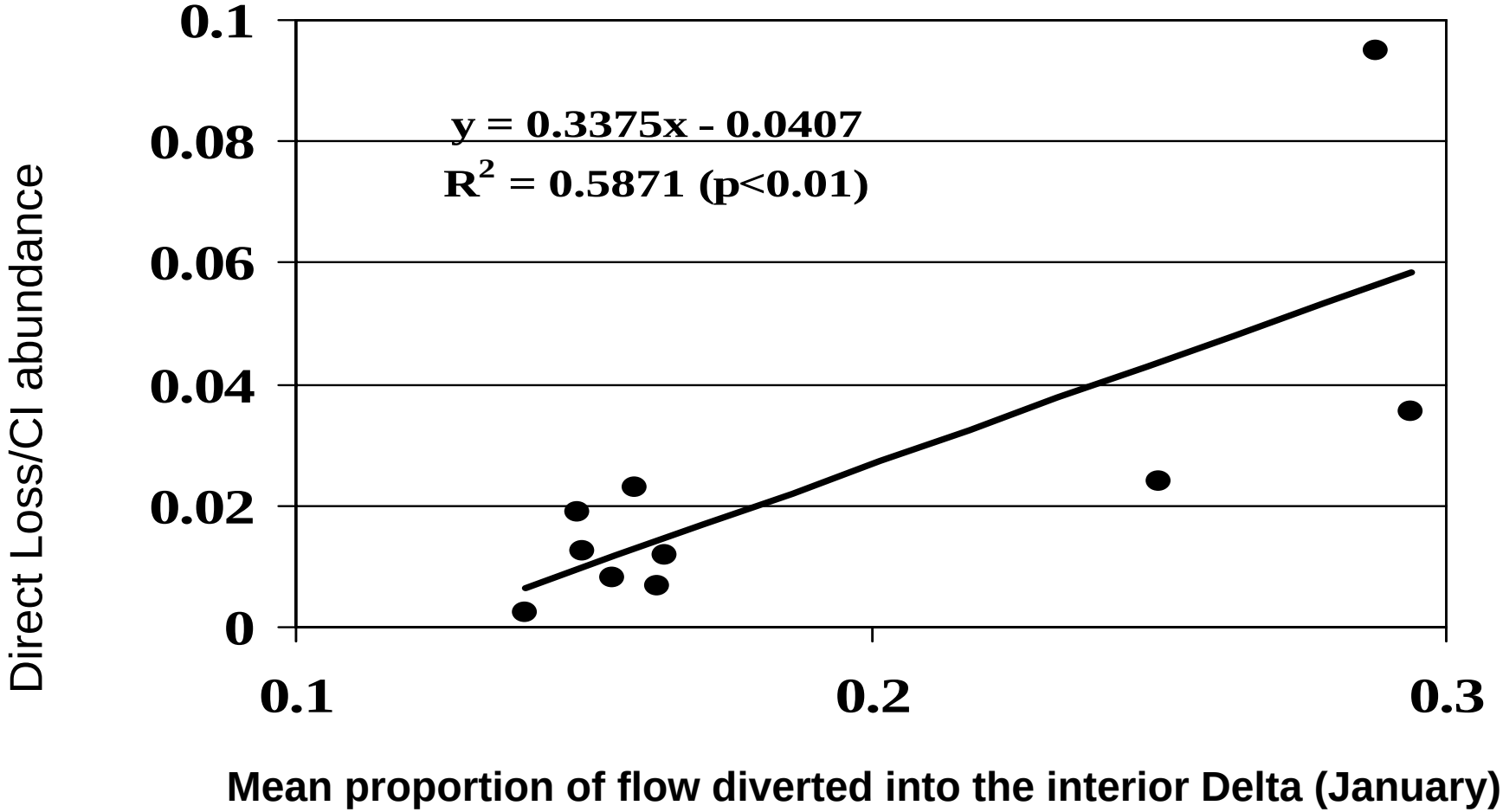


Figure 18: Direct loss of winter run (using Delta curves)/Chipps Island abundance (Delta curves) versus mean proportion of flow diverted in January, 1993-1994 through 2002-2003

DCC gate closure statistically significant in both cases ($p<0.05$)
Exports statistically significant with hierarchical model

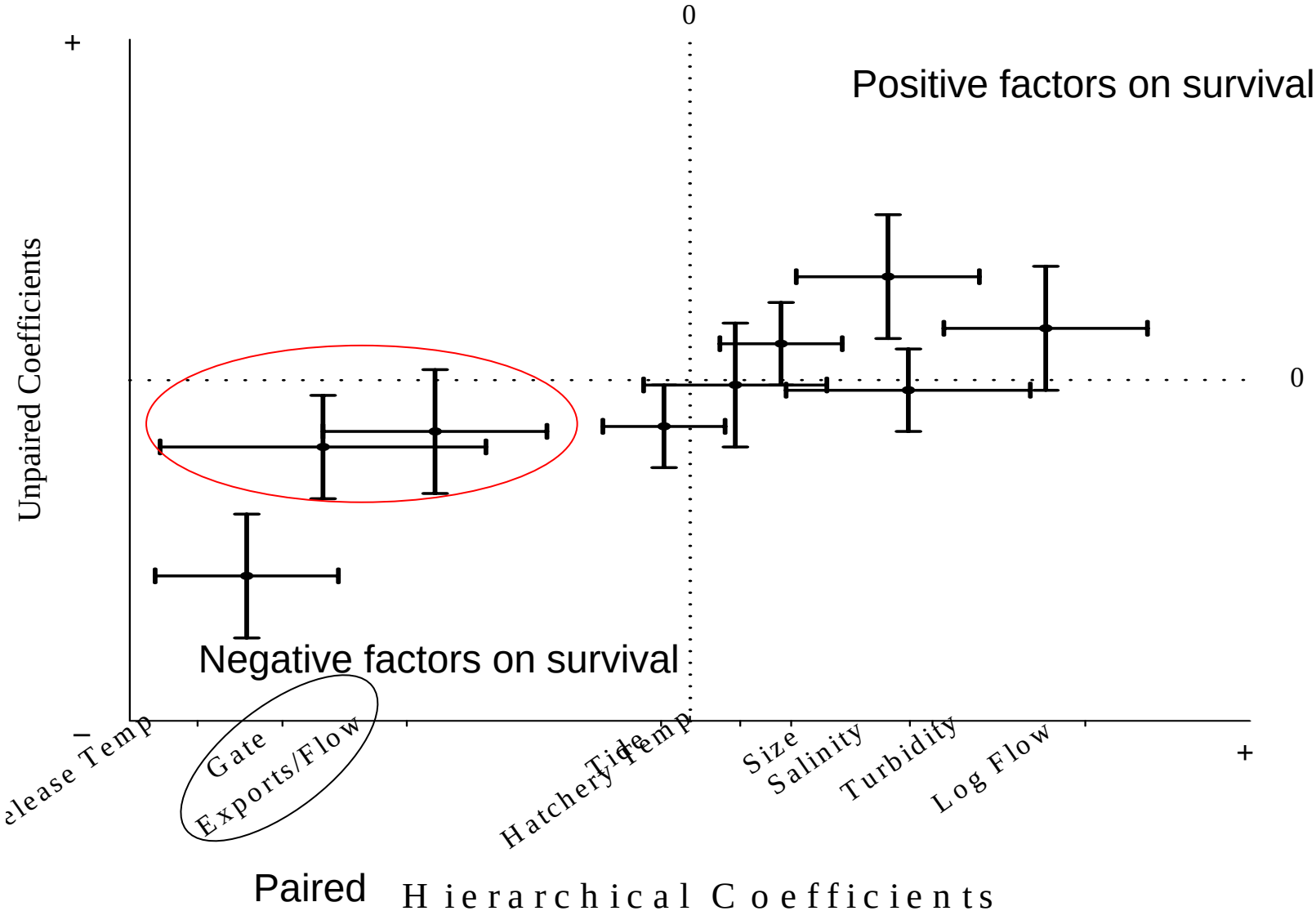


Figure 19: Standardized coefficients and +/- 2 standard errors of two separate Newman models estimating fall run salmon smolt survival through the Delta