San J fry – Trigger – very high flows – is there a predictive physical condition?
Screw traps at Mossdale

Relative Abundance of Juvenile Salmon in the Delta by Month, Life Stage, and Race

0.25

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Yearlings (F/LF/S)	------	-AAA	AAAA	AAA	-----							---->
Winter-run fry	------	------	-AAA	AAA								
Winter-run smolts					AA	AAAA	AAA					
Fall/spring-run fry			------	-AA	AAAA	AAAA	A					
Fall/spring-run smolts							AA	AAAA	AAA	------	------	
Late-fall run fry								------	------	------		
Late-fall run smolts											------	

B2, DCC | X_2 ecosys protection | 32 | STRIPED BASS ??

SJ out 90 days

VAMP (31)

SPRING RUN PROTECTION

E/I ECOSYS FUNCTION SLIDING — | SB SHAD STURGEON

TRIGGERS

↑ Spring run + fall fry

↑ DS adults SJ salmon fry

↑ DS fry

↑ SB young Outflow – less vulnerable

Triggers by time period
Risks determine level of flex in triggers
– Types of protection

DS Juv trigger – X_2 location
inflow
Distrib of fish
Size of fish

Want brief intense protection in terms of export constraint
eg 28 day
ISDP ops

DS adult – prior summer or Sept MWT

Long or short depending on distribution

SB adult – Outflow as trigger or Delta + Suisun index
Response – outflow increase – reduce exports
CVP

Spring run triggers – CWT late fall fish released concurrently
No good way to calc total production or proportion of yearling outmigration
Trigger – spring run – prot plan – monitoring at Georgianna – curtails duration
ACTIONS – DCC closure.

D-059179

1962 "X2"

9/25/98

BASE SCENARIO

31 days

VAMP | B2

B2 | BCC | X2 "Ecosystem Protection" | B2 | B2

OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEP

S.J. Outmigration, 90 days

MAR 15 | May 1 | JUN 15

VERN >680

SPP @ RISK

SPRING RUN YEARLING PROTECTION

ENTRAINMENT CONTROL OUTFLOW JULY-Feb

STRIPED BASS
SHAD
STURGEON

75% E/I ??

TRIGGER for EXPORT

SPRING RUN YEARLY OR FALL FRY IN DELTA

ADULT J.S.

S.J. SMOLTS

D.S. YEARLY

S.B. YEARLY

OUTFLOW and DISTRIBUTIONS DELTA VS SUISUN INDEX as TRIGGER

~~EXPORT REDUCTION~~

INCREASE OUTFLOW OR REDUCE EXPORTS

DISTRIBUTION OF ADULTS CONDITIONS BOTH NOW & PRIOR SUMMER = SEPT MWT # days 7 DISTRIBUTION IN

20 mm Ratio of Zones

SD / CHIPPS

CD / CHIPPS

INFLOW OUTFLOW X2 S.J FLOW

LC DAYS OF PROTECTION

A MONTH ARP ≠ VERY SENSITIVE = SIZE OF FISH

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