



Eight Delta Challenges: Fishes

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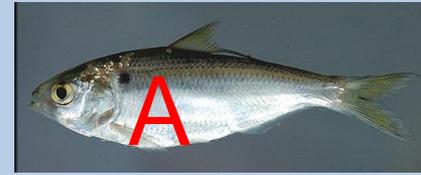
Department of Wildlife Fish and Conservation Biology

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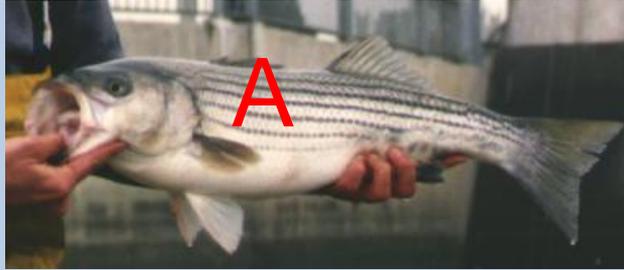
SURFACE



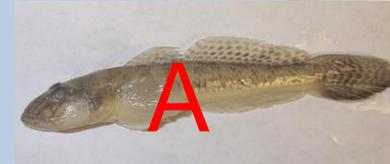
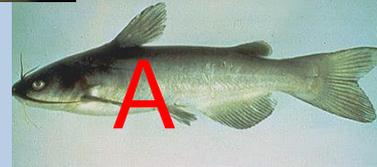
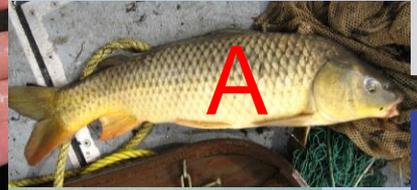
A is for Alien



MIDDLE



EDGE



Recognize that the Delta, is a novel ecosystem.

Focus fish-oriented restoration on the North Delta and Suisun Marsh





**Recognize that Tidal marsh
'restoration' is important but
not a panacea for native fish
recovery.**

Integrate functional floodplains into the Deltas



Cosumnes River
floodplain



Separate management of Chinook salmon for fisheries from management for conservation.



Re-evaluate status of Central Valley steelhead.



Prepare for the extinction of delta smelt in the wild.

2014 FMWT index = 9

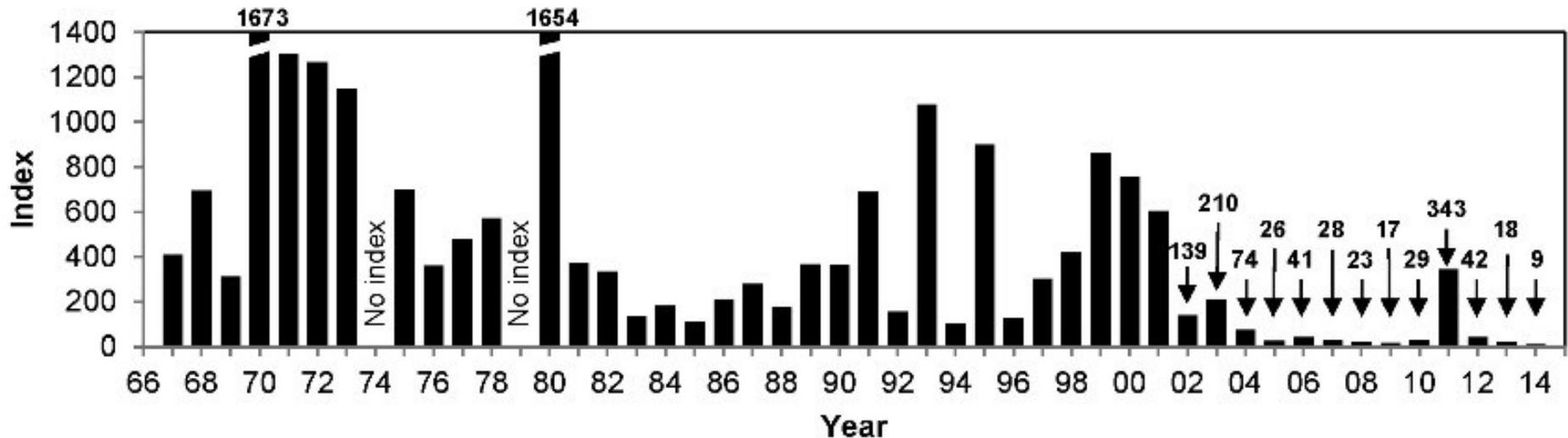
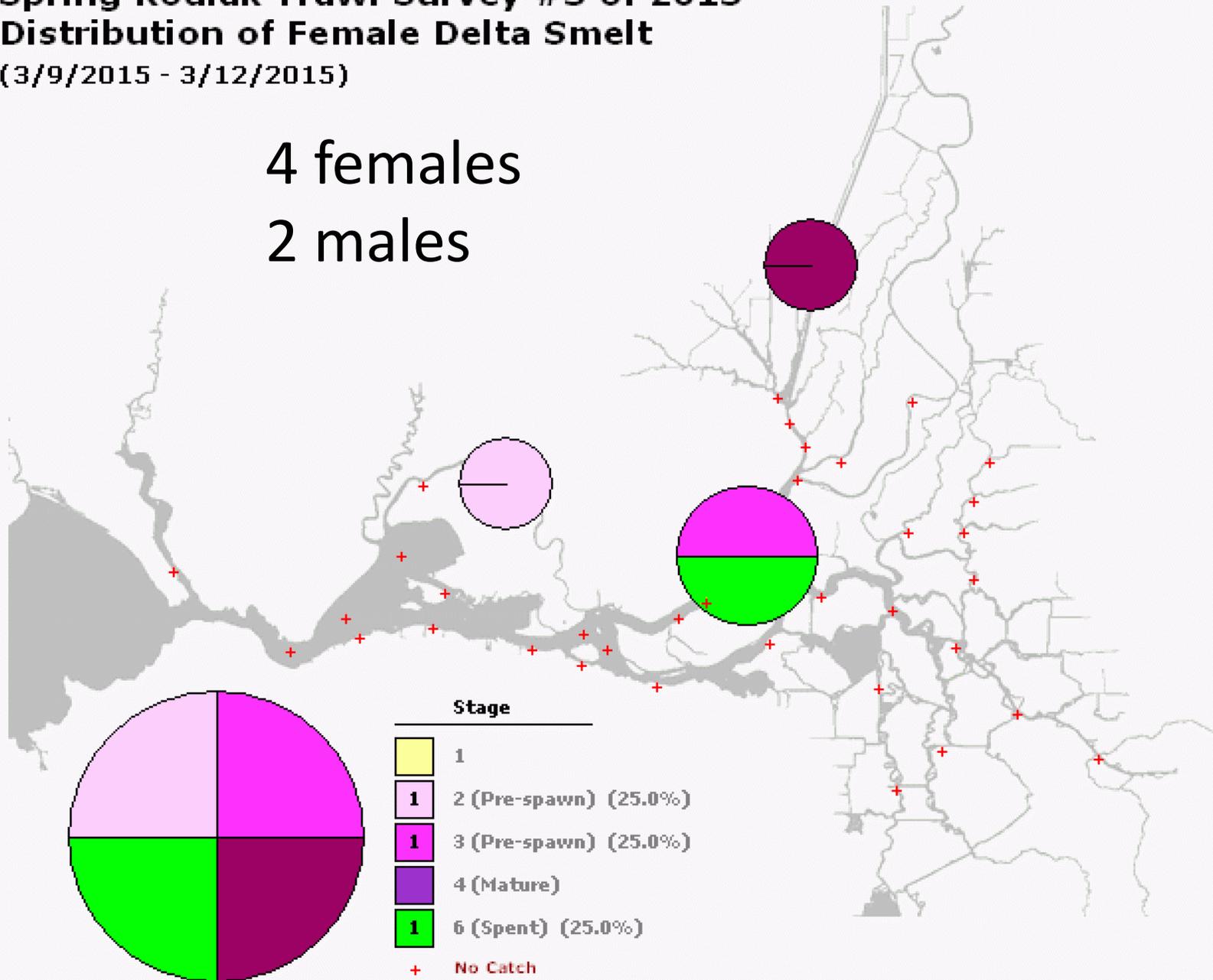


Figure 2. FMWT Delta Smelt annual abundance indices, 1967-2014.

Spring Kodiak Trawl Survey #3 of 2015
Distribution of Female Delta Smelt
(3/9/2015 - 3/12/2015)

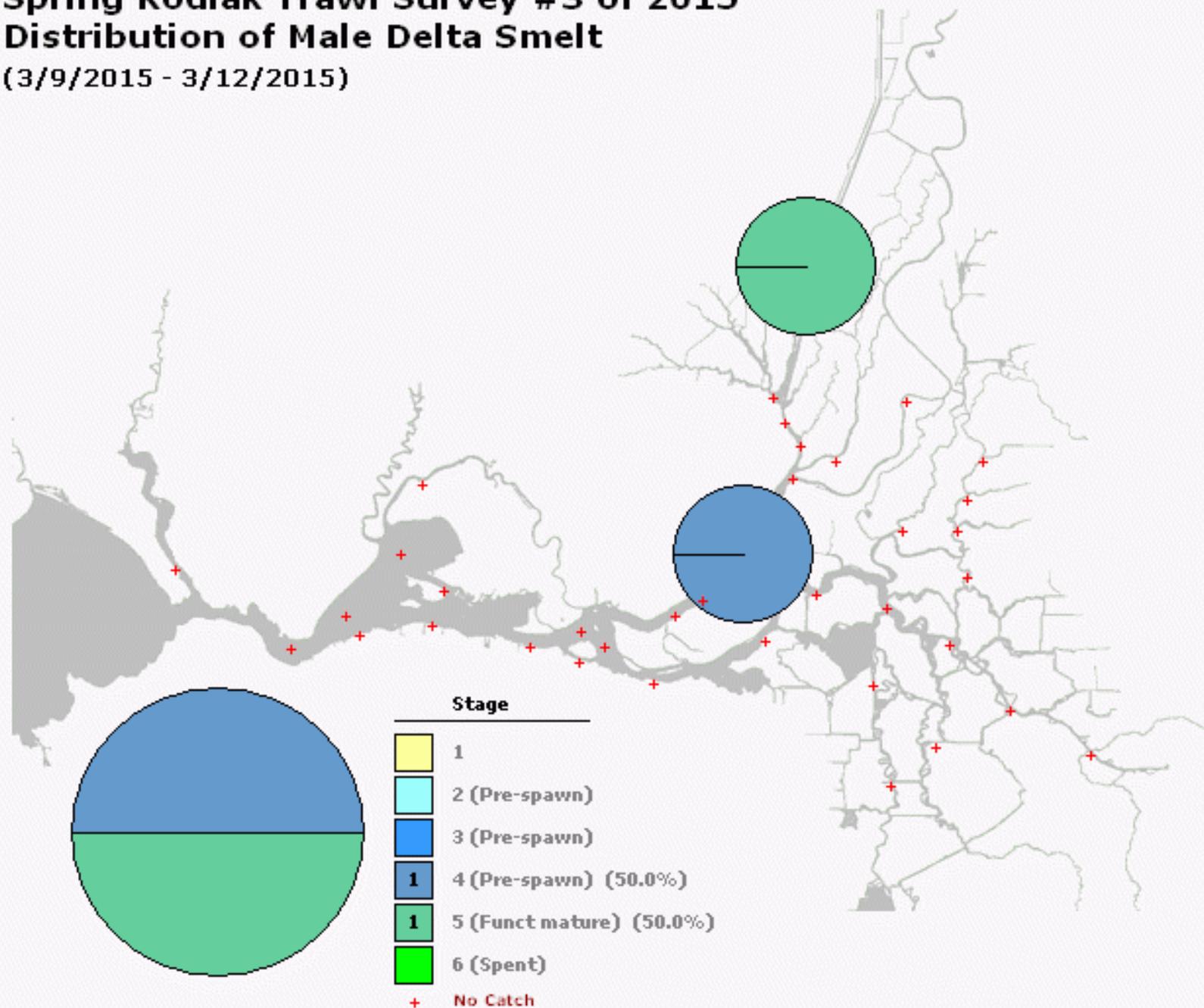
4 females
2 males



Spring Kodiak Trawl Survey #3 of 2015

Distribution of Male Delta Smelt

(3/9/2015 - 3/12/2015)



**Manage for other
delta native fishes
before they become
listed.**

