

Fall X2

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Resources

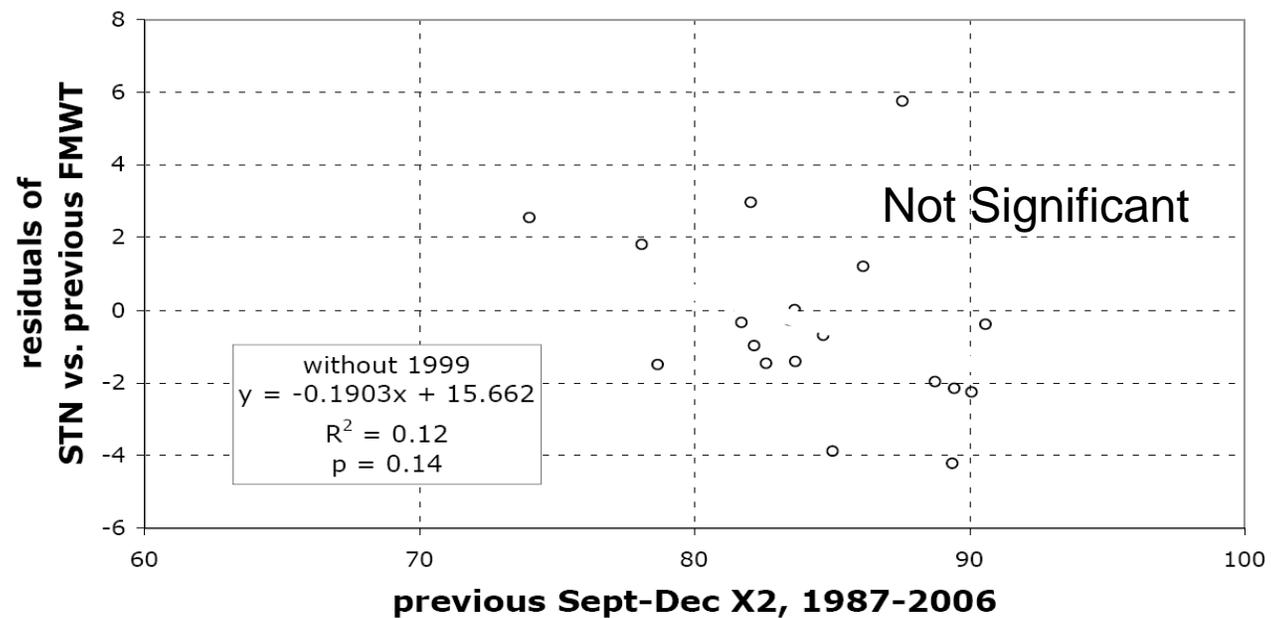
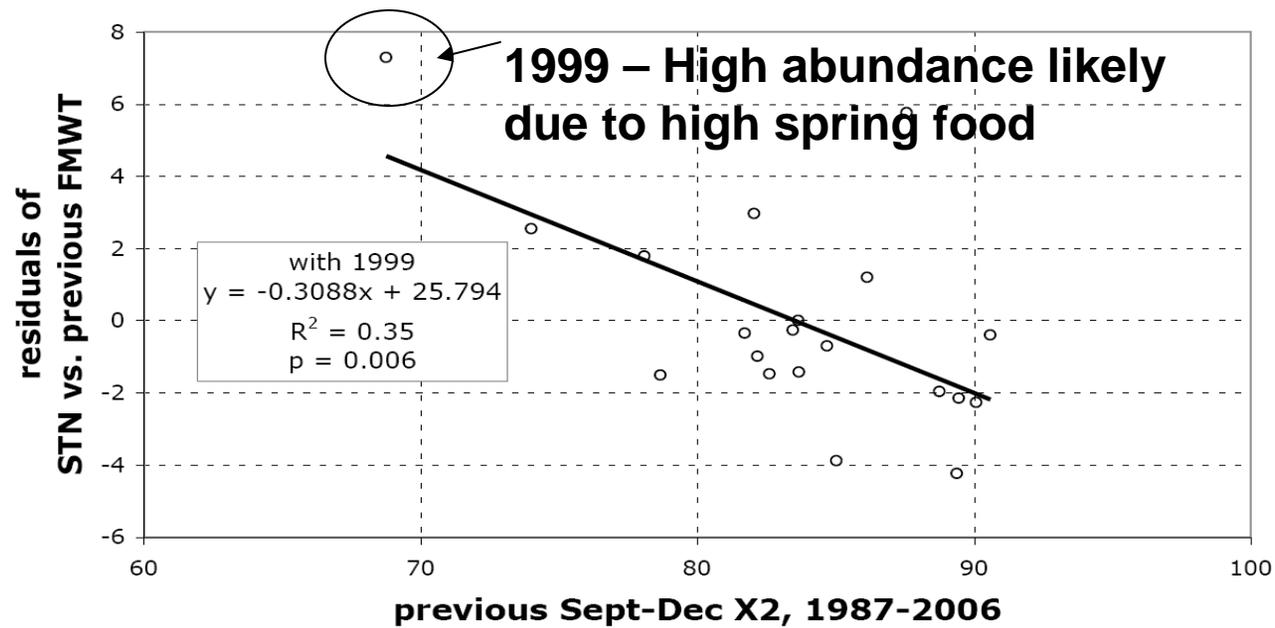


USFWS Fall X2 for Delta Smelt

- Summary of rationale for the fall X2 standard
 - Based on the presents and absence of smelt in certain “salinity habitat” areas
 - Salinity habitat areas have decreased
 - Salinity habitat may limit smelt recovery
 - Actually is a prescriptive standard for 10 years
 - Set up to test it effectiveness
 - Relationship with abundance
 - $\text{PFMWT} + \text{PF X2} = \text{STN}$

Concerns with Fall X2

- While salinity has changed linkage to abundance driven by one data point of questionable reliance - 1999
- In 2007 Delta Smelt were in abnormally high saline water (likely due to Microcystis) – no effect on abundance
- Salinity habitat unlikely controlling abundance
- Food and temperature most likely controlling abundance



Water Supply Impacts of Fall X2

- Greatest impacts in below-normal and drier years following Fall X2 action
- Can be 100's TAF/yr
- Impacts fall disproportionately on the SWP
- Conflicts with cold water pool needs for salmon

Proposed Alternative

- Focus on food production not salinity
- Creation of New Tidal Habitat
 - Liberty Island experience
- More effective use of limited resources
- BDCP current target
 - 65,000 Acres tidal and related sub-tidal habitat
- NH3 and N effects on food web becoming clearer and need to be addressed before any Fall X2 action is considered
- Food before flows