

Memorandum

Date: June 26, 2015

To: Scott Wilson
Regional Manager
Bay Delta Region

From: Felipe La Luz
Environmental Scientist
Bay Delta Region

Subject: 2015 Summer Townet Survey Age-0 Delta Smelt Abundance Index

The Summer Townet (STN) Delta Smelt abundance index for 2015 is 0.0. This is the lowest index reported in the history of STN and is consistent with the downward trend in Delta Smelt abundance observed in recent years (Figure 1).

The index is calculated as the mean of the first two survey indices. This year the first two surveys occurred during the weeks of June 1 and June 15. STN samples at 31 stations that contribute data to the index. STN also samples at nine non-index stations in the Napa River, Cache Slough, and the Sacramento River Deep Water Ship Channel (Figure 2).

During Survey 1, only one Delta Smelt was collected at an index station (Station 707) while five were collected in the Sacramento Deepwater Ship Channel (Station 719). During Survey 2, no Delta Smelt were collected at index stations while two were collected at Station 719, one was collected at Station 713, and one was collected at Station 797.

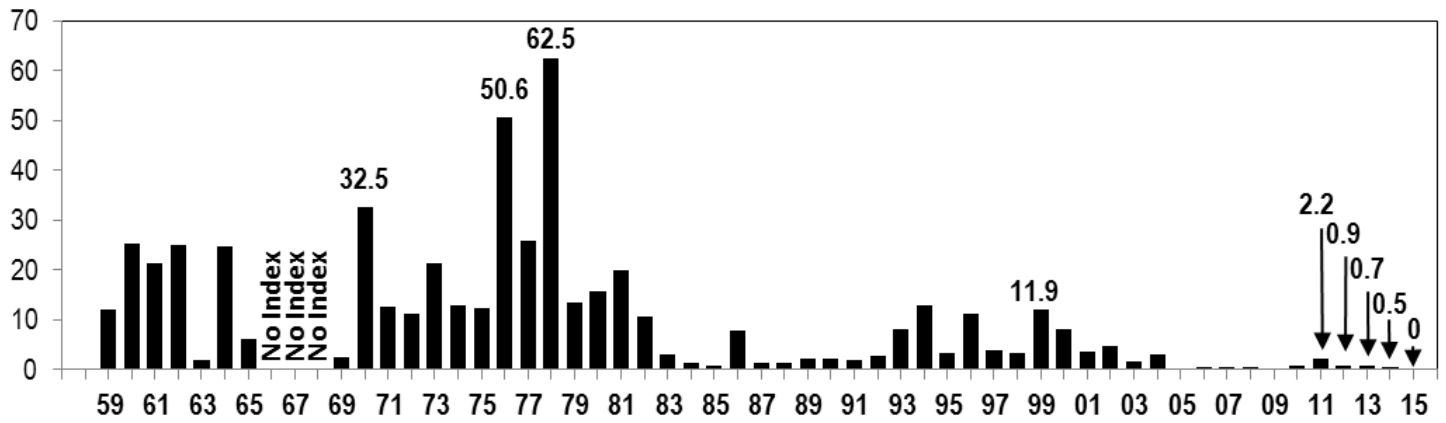


Figure 1. Summer Towner Survey Age-0 Delta Smelt Abundance Indices, 1959-2014

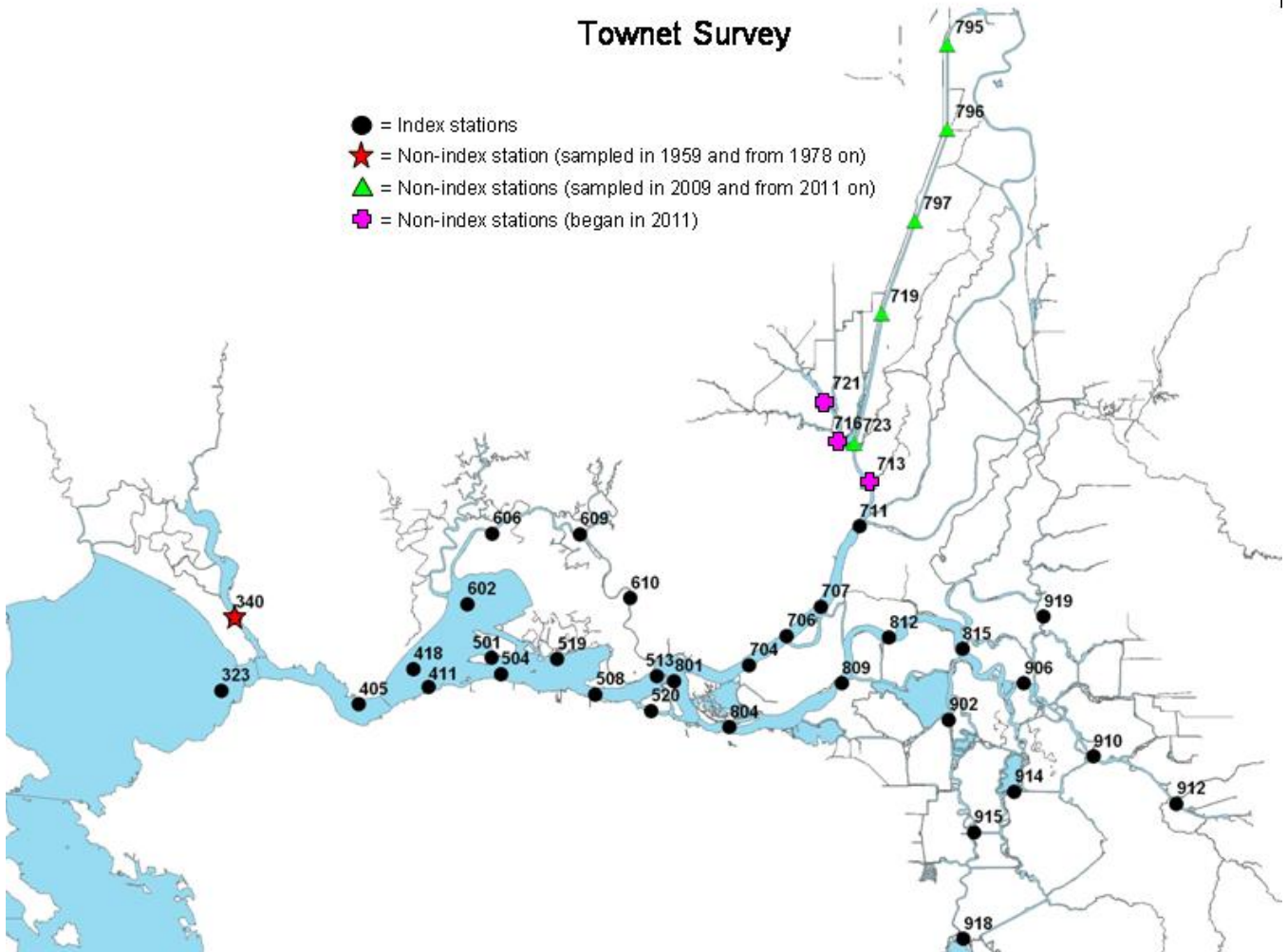


Figure 2. Map of Summer Towner Survey Index and Non-index Station Locations.