



Memorandum

Date: August 1st, 2018

To: Gregg Erickson
Regional Manager
Bay Delta Region

From: Felipe La Luz
Environmental Scientist
Bay Delta Region

Subject: **2018 Summer Townet Survey Age-0 Striped Bass Abundance Index**

The 2018 Summer Townet Survey (STN) age-0 Striped Bass abundance index is 1.0, which is a decrease from the previous two years (Figure 1).

STN annually conducts six Delta-wide surveys on alternating weeks from June through August. Each survey samples 31 index stations that contribute data to the index as well as nine supplemental stations in the Napa River, Sacramento Deep Water Ship Channel (SDWSC) and Cache Slough (Figure 2). The annual abundance index is calculated using data from the two surveys bracketing the date when mean fork length of the age-0 Striped Bass collected reaches or surpasses 38.1 mm. This year we estimated that the mean fork length of age-0 Striped Bass exceeded 38.1 mm on July 9th, which was between survey 2 (June 25th – 29th) and survey 3 (July 9th – 13th).

STN collected 109 age-0 Striped Bass at index stations during survey 2 and 43 at index stations during survey 3 (Table 1). Six additional individuals were collected at supplemental stations in the SDWSC; three during survey 2, and three during survey 3 (Table 1).

Attachments: (Figures 1 and 2, Table 1)

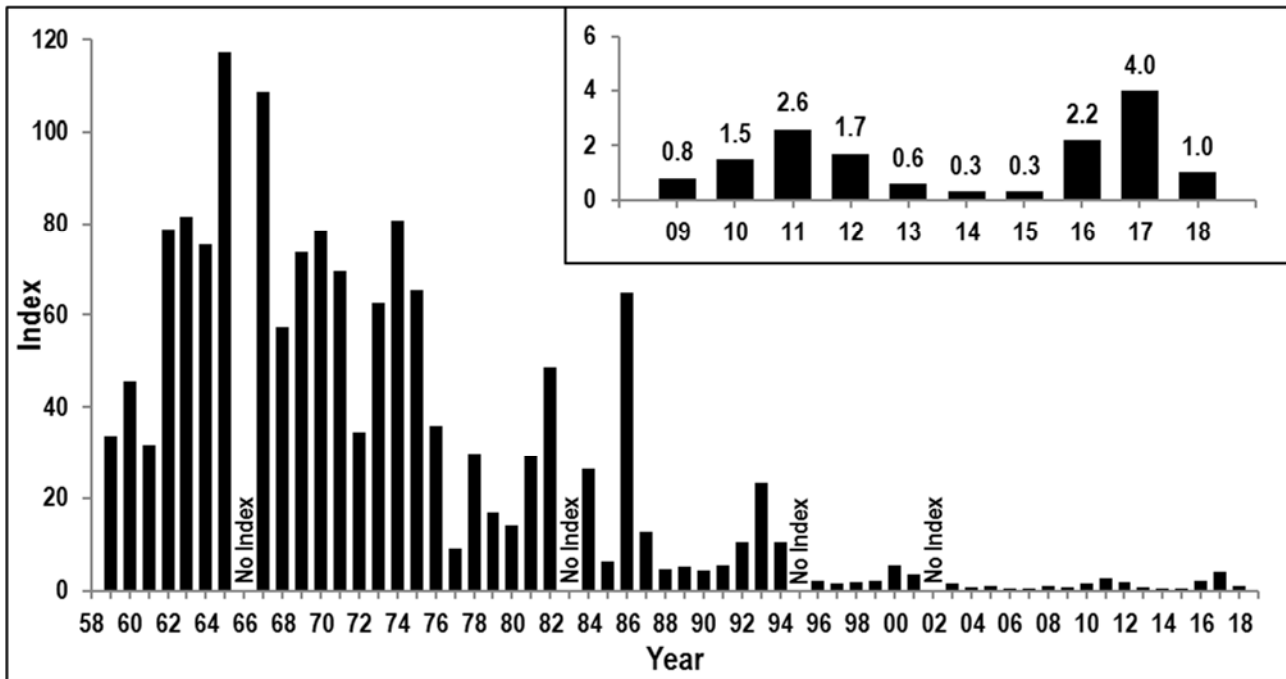


Figure 1. Summer Townet Survey age-0 Striped Bass abundance indices, 1959-2018, with inset showing indices from 2009 to 2018.

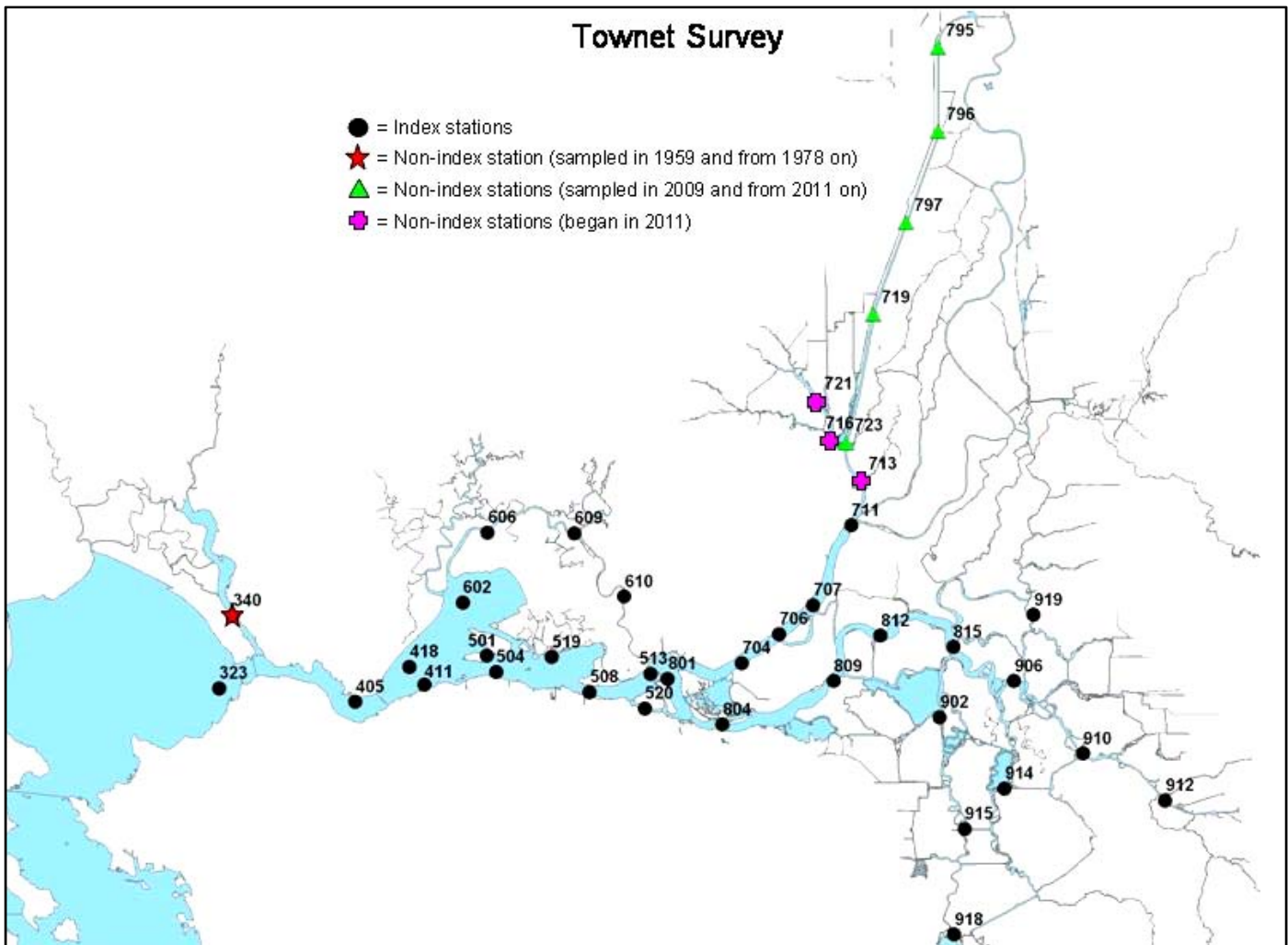


Figure 2. Map of Summer Townet Survey index and supplemental station locations.

Table 1. Age-0 Striped Bass catch by region during Summer Towner Surveys 2 and 3, and stations included in each region. Catch at supplemental stations in the SDWSC do not contribute to the index and are italicized in the table below

Survey 2 (June 25th - 29th)		
Region	Catch	Stations
Suisun Bay	14	405, 411, 418, 501, 504, 508, 513, 519, 520, 602
Sacramento River	27	704, 706, 707, 711
Montezuma Slough	57	606, 609, 610
Lower San Joaquin	6	801, 804, 809, 812
South Delta	1	902, 914, 915, 918
East Delta	4	815, 906, 910, 912, 919
<i>SDWSC</i>	3	<i>719, 723, 795, 796, 797</i>
Survey 3 (July 9th - 13th)		
Region	Catch	Stations
Suisun Bay	10	405, 411, 418, 501, 504, 508, 513, 519, 520, 602
Sacramento River	2	704, 706, 707, 711
Montezuma Slough	30	606, 609, 610
Lower San Joaquin	1	801, 804, 809, 812
<i>SDWSC</i>	3	<i>719, 723, 795, 796, 797</i>