Western Alaska Salmon Stock Identification Program (WASSIP):
Sockeye Salmon: What Was the Stock Composition in a Given Fishery?

North Alaska Peninsula Fishery

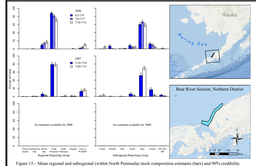


Figure 15.– Mean regional and subregional (within North Peninsula) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Bear River Section, Northern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

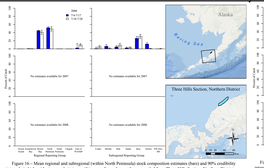


Figure 16.– Mean regional and subregional (within North Peninsula) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Three Hills Section, Northern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

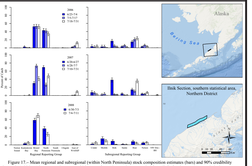


Figure 17.– Mean regional and subregional (within North Peninsula) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Hook Section southern statistical area, Northern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

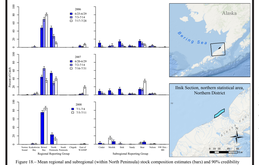


Figure 18.– Mean regional and subregional (within North Peninsula) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Hook Section, northern statistical area, Northern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

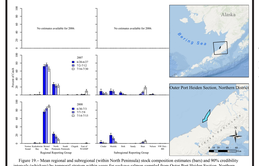


Figure 19.– Mean regional and subregional (within North Peninsula) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Outer Port Heiden Section, Northern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

Kuskokwim Fishery

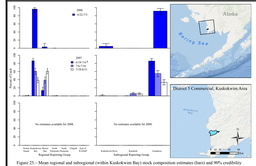


Figure 25.– Mean regional and subregional (within Kuskokwim Bay) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from District 5 Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.
*Estimate for this stratum are based upon 190,000 sockeye chum following transfers with PFGF.

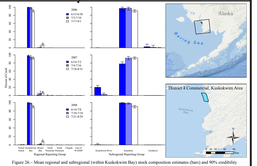


Figure 26.– Mean regional and subregional (within Kuskokwim Bay) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from District 4 Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

Bristol Bay Fishery

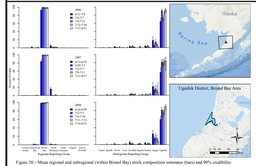


Figure 20.– Mean regional and subregional (within Bristol Bay) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Ugashik District, Bristol Bay Area, Central Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

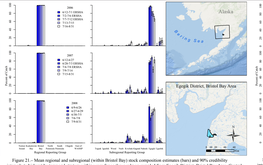


Figure 21.– Mean regional and subregional (within Bristol Bay) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Egegik District, Bristol Bay Area, Central Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project. See Tables 64 and 66 and Eggers et al. (2011) for a description of fishery restrictions.

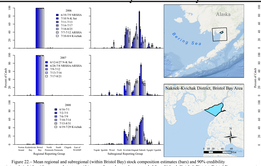


Figure 22.– Mean regional and subregional (within Bristol Bay) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Nushagak-Kvichak District, Bristol Bay Area, Central Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project. See Table 70 and Eggers et al. (2011) for a description of fishery restrictions.

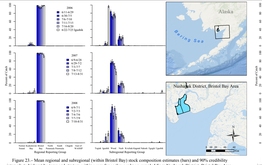


Figure 23.– Mean regional and subregional (within Bristol Bay) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Nushagak District, Bristol Bay Area, Central Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project. See Table 70 and Eggers et al. (2011) for a description of fishery restrictions.

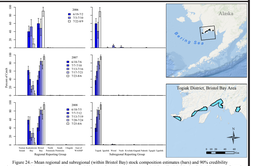
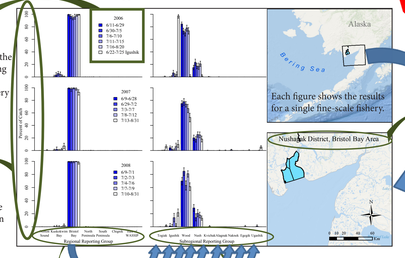
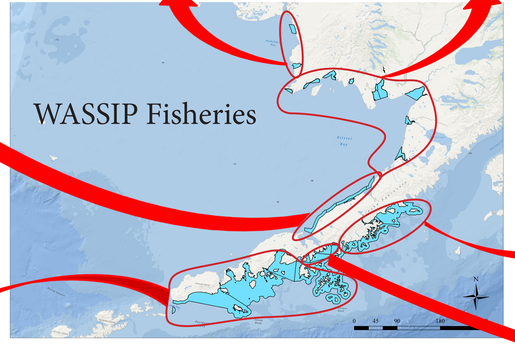


Figure 24.– Mean regional and subregional (within Bristol Bay) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Togiak District, Bristol Bay Area, Central Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

Reading These Figures





This poster reproduces all figures from the ADF&G Special Publication No. 12-22: *Stock Composition of Sockeye Salmon Harvests in Fisheries of the Western Alaska Salmon Stock Identification Program (WASSIP) 2006-2008* (Figures 1-26, pp. 120-145). The report is available online at: http://www.adfg.alaska.gov/index.cfm?adfg=wassip.reports.

Chignik Area Fishery

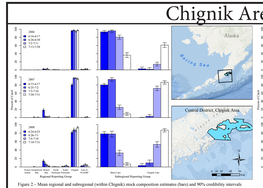


Figure 2.– Mean regional and subregional (within Chignik) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Central District, Chignik Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

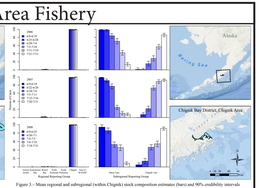


Figure 3.– Mean regional and subregional (within Chignik) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Chignik Bay District, Chignik Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

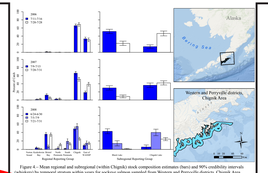


Figure 4.– Mean regional and subregional (within Chignik) stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Western and Perryville districts, Chignik Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

Stocks Identified

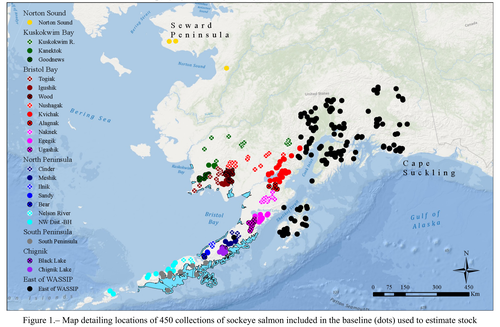


Figure 1.– Map detailing locations of 450 collections of sockeye salmon included in the baseline (dots) used to estimate stock compositions of catch samples and sockeye salmon fisheries sampled as part of the Western Alaska Salmon Stock Identification Project (blue polygons). Note that color patterns of baseline collections denote subregional reporting group affiliation, which are grouped by regional reporting group in the legend.

South Alaska Peninsula, June and Post-June Fisheries

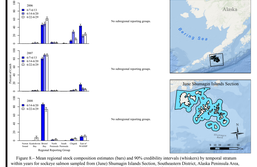


Figure 8.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from (June) Shumagin Islands Section, Southeastern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

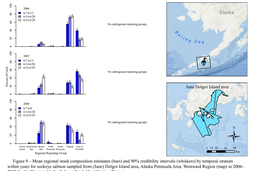


Figure 9.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from (June) Dolgoi Island area, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

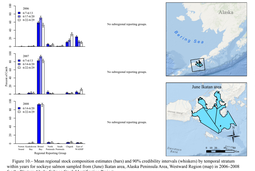


Figure 10.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from (June) Ikatan area, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

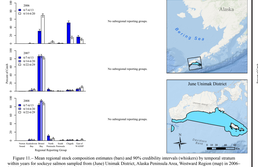


Figure 11.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from (June) Unimak District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

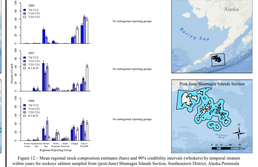


Figure 12.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from (post-June) Shumagin Islands Section, Southeastern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

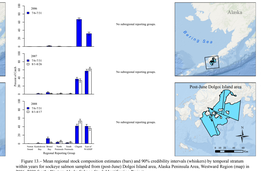


Figure 13.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from (post-June) Dolgoi Island area, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

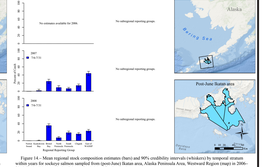


Figure 14.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from (post-June) Ikatan area, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

Southeastern District Mainland Fishery

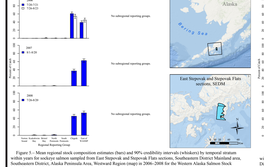


Figure 5.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from East Stepovak and Stepovak Flats sections, Southeastern District Mainland area, Southeastern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

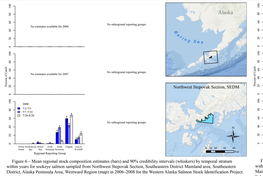


Figure 6.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Northwest Stepovak Section, Southeastern District Mainland area, Southeastern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.

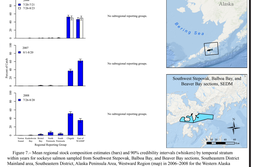


Figure 7.– Mean regional stock composition estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for sockeye salmon sampled from Southwest Stepovak, Balboa Bay, and Beaver Bay sections, Southeastern District Mainland area, Southeastern District, Alaska Peninsula Area, Westward Region (map) in 2006-2008 for the Western Alaska Salmon Stock Identification Project.