

Juvenile Sockeye Salmon Stock ID Report: 2015 — 2016

— Hakai Institute Juvenile Salmon Program —

Aim

To provide a summary of Hakai Institute Juvenile Salmon program sockeye stock proportions caught in 2015 and 2016.

Background

The Hakai Institute Juvenile Salmon Program was launched in the spring of 2015 in a collaborative partnership with UBC, SFU, Salmon Coast, Pacific Salmon Foundation, and DFO. The program operates in the Discovery Islands and Johnstone Strait and thus provides information on the health of juvenile Fraser River salmon after passage through:

- 1) Strait of Georgia – stratified high plankton biomass zone; and
- 2) Discovery Islands & Johnstone Strait – highly-mixed low-plankton-biomass zone, and area of high wild-farmed fish interactions.

Program Objectives

- 1) Determine migration timing and pathways;
- 2) Migration habitat mapping - oceanographic conditions along the migration route;
- 3) Understand the dynamics of the plankton food-webs that underpin juvenile salmon growth and health;
- 4) Understand parasite and pathogen infection dynamics and their impact on juvenile salmon growth and health.

Key Parameters Reported

- Stock ID proportions by year
- Stock ID by site and by region
- Stock ID by site, region, and two-week period

Please direct questions or comments to Brian Hunt (B.Hunt@oceans.ubc.ca) and/or Brett Johnson (Brett.Johnson@hakai.org).

Report prepared by: Brett Johnson, Carly Janusson, Julian Gan, and Brian Hunt

Date: 2018-01-29

Genetic Stock ID Proportions

Propotions by year

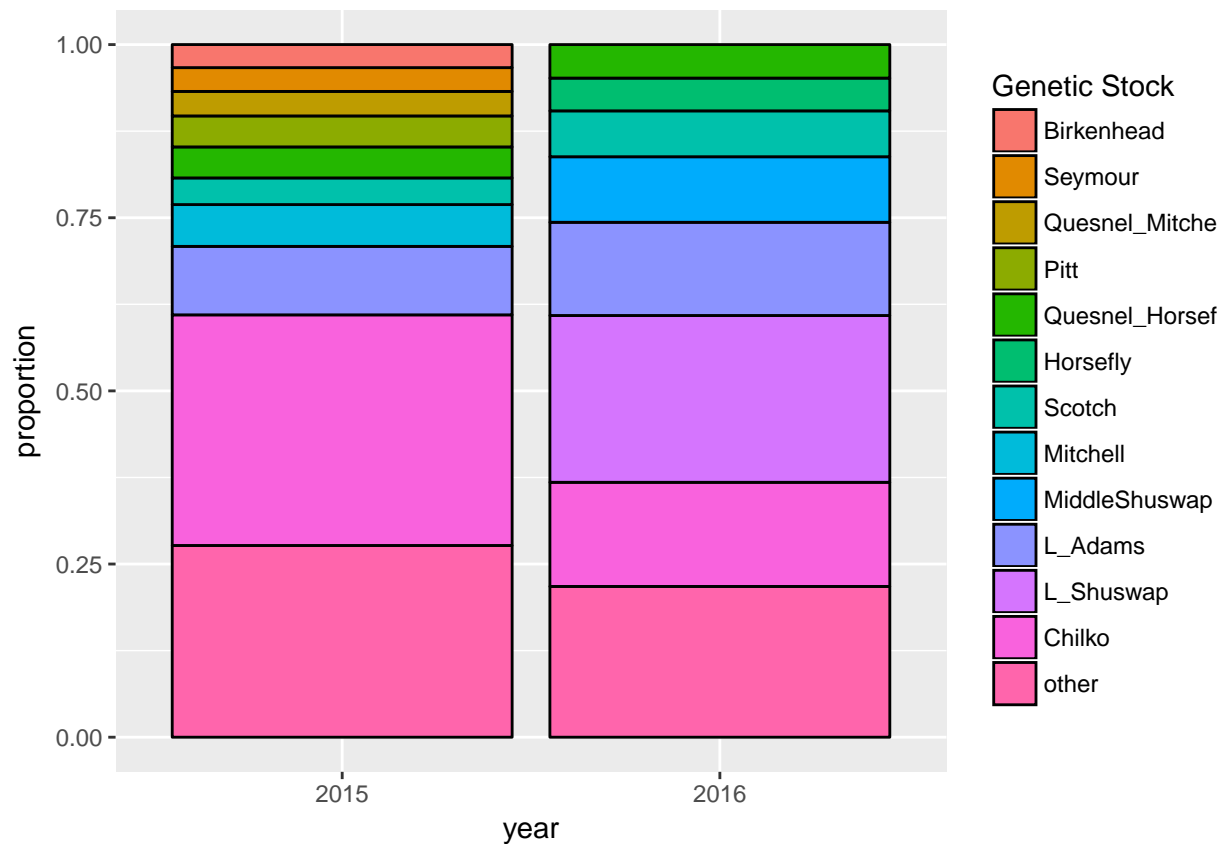


Figure 1: Genetic stock ID proportions summarized year.

Proportions by region and year

Proportions by region, year, and two week period