



FISH PASSAGE CENTER

847 NE 19th Avenue, #250, Portland, OR 97232

Phone: (503) 833-3900 Fax: (503) 232-1259

www.fpc.org/

e-mail us at fpcstaff@fpc.org

MEMORANDUM

TO: Tom Karier, Northwest Power Council, Washington

FROM: Michele DeHart

DATE: July 7, 2017

SUBJECT: Request for historic average daily proportion passage index for yearling Chinook

In response to your request, we are providing a spreadsheet with the historic average daily proportion passage index for yearling Chinook at the three Smolt Monitoring Program (SMP) facilities on the Mid-Columbia River (Bonneville, John Day, and McNary dams) and the three SMP facilities on the Snake River (Lower Granite, Little Goose, and Lower Monumental dams). The SMP does not collect data at The Dalles or Ice Harbor dams so estimates at these two projects are not possible. Below is a list of considerations as you review the data in the spreadsheet.

- The magnitude, timing, and passage duration of juvenile salmonids at FCRPS projects are greatly affected by hatchery release group size, hatchery time of release, and environmental conditions. For these reasons, inferences from these data, and annual comparisons among years, must account for these factors.
- The estimates of average daily proportion passage index are based on the years 2007-2016 and include passage data through the end of June for each year. Start dates between sites vary and may change from year to year for various reasons.
- Sampling at McNary Dam is every-other day. Data for non-sample days were interpolated from previous and next day's samples in order to smooth data.
- Sampling at John Day was every day from 2007 to 2015 but modified to every-other-day in 2016. Data for non-sample days in 2016 were interpolated from previous and next day's samples in order to smooth data.
- Prior to 2015, sampling at Little Goose and Lower Monumental dams was limited prior to the start of transportation. Due to sporadic sampling at Little Goose and Lower Monumental in April, data for these two sites begin on May 1st. Furthermore, passage

timing data from these two sites are likely not very useful, as they reflect the effects of removals for transportation after May 1st.

- If these data are intended for public display such as a website, these caveats should be included in the metadata description.