

Error Addendum for Fisher Slough Chinook Abundance reported in Beamer et al. (2014)

An error was made in calculating the juvenile Chinook abundance model results in Beamer et al (2014). The error shows up in Figure 7.1 (in Beamer et al 2014) and Figure 3 (in Beamer et al 2016) compared to Figure 7.2 in Beamer et al. (2017). Figure 7.2 in Beamer et al. (2017) is correct. Note the y axis units are an order of magnitude different. Each figure is provided below in this addendum document.

The error was created when individual Chinook abundance results by Strata 2 for each sampling event were summed, instead of averaged, in the model's calculation code. The good news is that the juvenile Chinook abundance estimates used to populate Table 7.2 in Beamer et al. (2017) and Table 7.12 in Beamer et al. (2014) are correct. We did not use model outputs to calculate overall abundance for these tables or any of their discussion.

Additional good news is that we only used the erroneous model result to test for the effect of dike setback and floodgate operation on Chinook response. The model detected the correct responses because fish data were accumulated into abundance consistently for all years. Even though the abundance values were mathematically incorrect, they are accurate measures of relative abundance across all years.

Statistical analysis of juvenile Chinook abundance patterns upstream of the Fisher Slough Floodgate are correctly portrayed in Beamer et al (2017). Chinook abundance modeling in Beamer et al. (2014) has been updated with one additional year of data (2015) as well in Beamer et al. (2017). Beamer et al. (2016) has been replaced by Beamer et al. (2017). The 2016 report is no longer necessary.

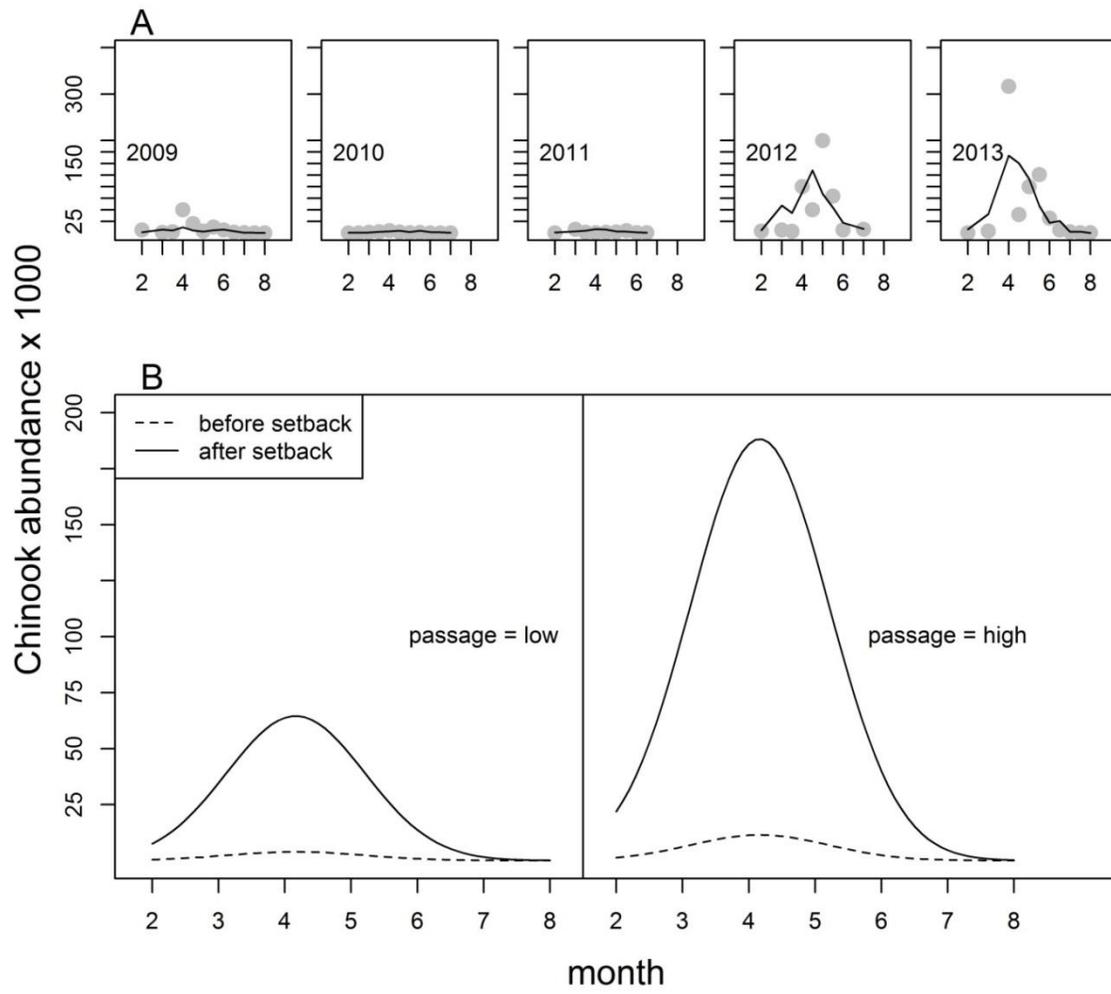


Figure 7.1 from Beamer et al. (2014).

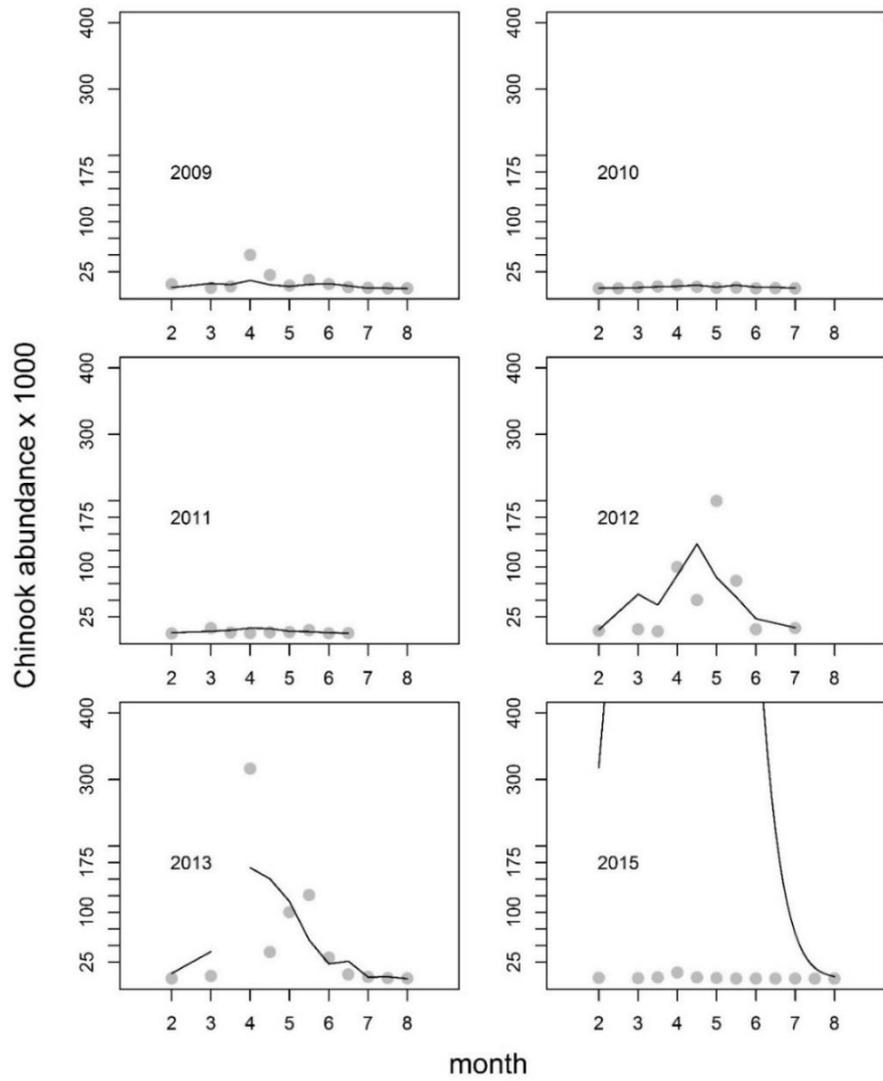


Figure 3 from Beamer et al. (2016).

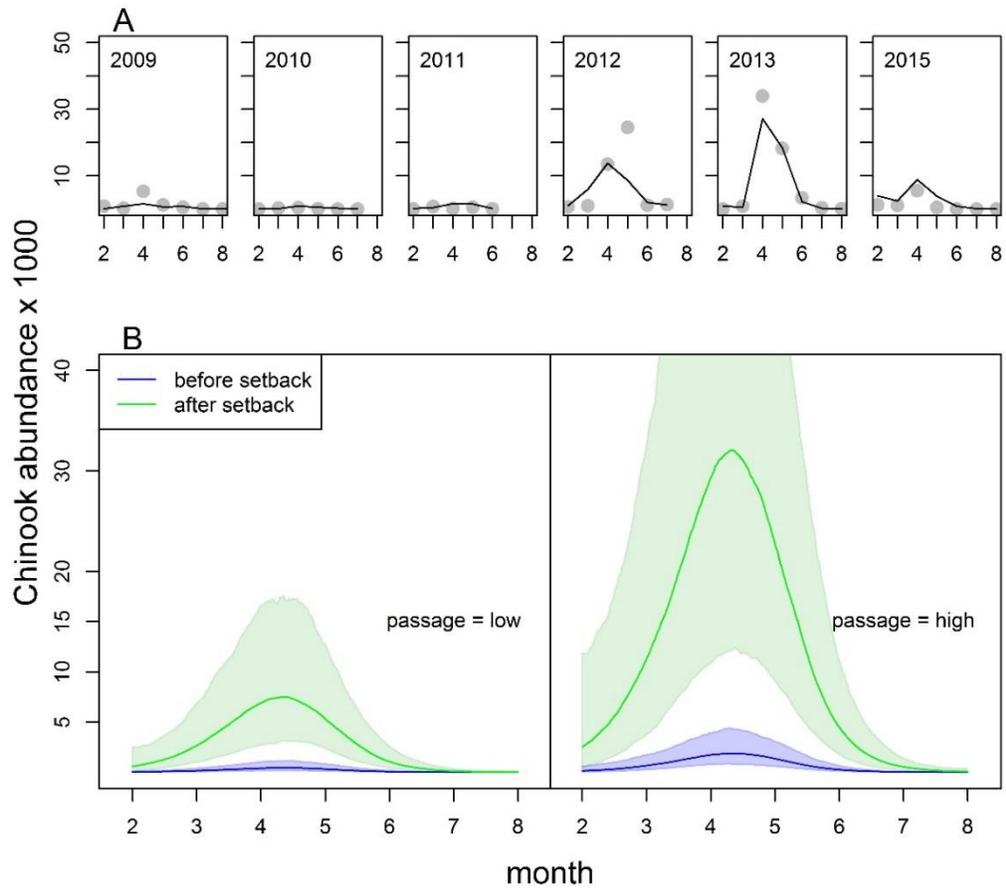


Figure 7.2 from Beamer et al. (2017).

References

Beamer, E., R. Henderson, C. Ruff, and K. Wolf. 2014. Juvenile Chinook salmon utilization of habitat associated with the Fisher Slough Restoration Project, 2009 - 2013. Report prepared for The Nature Conservancy, Washington.

Beamer, E., R. Henderson, and C. Ruff. 2016. Juvenile Chinook response to Fisher Slough restoration and floodgate operations: An update including 2015 results. Skagit River System Cooperative, LaConner, WA.

Beamer, E., R. Henderson, C. Ruff, and K. Wolf. 2017. Juvenile Chinook salmon utilization of habitat associated with the Fisher Slough Restoration Project, 2009 - 2015. Report prepared for The Nature Conservancy, Washington.