

Exercise – Back-Calculation

Answer the following questions with R code by creating (*and editing if you make a mistake*) an R script and iteratively running the code in RStudio.

1. Load the data in the **MN98WaeYep.csv** file into a data frame in R.
2. Isolate the Lake Shetek Walleye data.
3. Is “plus-growth” recorded for your chosen data? Explain.
4. Reshape the data frame from “wide” to “long” format so that it will be suitable for adding a back-calculated total length variable. Make sure to remove unnecessary “NA”s and the “plus-growth”, if it was recorded.
5. Add a variable that is the Fraser-Lee back-calculated total length if the “correction factor” is 55 mm.
6. Compute the mean length-at-back-calculated-age.