Atlantic silversides are found in salty water up to the salt front, and spottail shiners are found in freshwater down to the salt front (100 ppm Cl). You can use where the ranges of those two species of fish meet to predict the location of the salt front.

Below are graphs from 2018 and 2017 also showing where Atlantic silversides and spottail shiners were caught. Where do you predict the salt front was in those years?

2021 salt front (100 ppm Cl):
River Mile ___________

2018 salt front (100 ppm Cl):
River Mile ________ 25 based on salinity data _________

2017 salt front (100 ppm Cl):
River Mile ______ 70 based on salinity data __________

What could cause the difference in the location of the salt front from year to year?

Precipitation amount is a key factor in the location of the salt front. This year and in 2018 there was more rain in the summer and fall that pushed the salt front down, compared to 2017 which was more dry.