

Estuary, NH, USA





 Rainbow smelt support popular ice fisheries in New Hampshire, Maine, and Massachusetts



- In the past few decades undergone range contraction and population decline (Fig. 1)
- In 2004 NOAA labeled anadromous rainbow smelt as a federal species of concern

• In March 2021, smelt were caught in fyke nets (Fig. 1) and tagged with Innovasea V5-H2 180 kHz tags (n = 44)

Bellamy River n = 7

Oyster River n = 19

Squamscott River n = 18

 Individual detections were recorded on Innovasea 180kHz receivers deployed throughout Great Bay Estuary (n = 22) (Fig. 1)

Research Questions:

- What percent of smelt **survive** emigration from estuaries?
- Where are smelt **spending time** during emigration and how long do they remain in each habitat?
- What factors contribute to variation in behavior?

