

Alewife Interactions Committee

January 19, 2023 Meeting Agenda

1pm–3pm, Sidney IFW HQ

- I. Continue Stocked Waters Research Proposal Discussion
 - **Question 1:** Effects of sea-run alewife on landlocked smelt?
 - i. Diet overlap (mesocosm)
 - ii. Effects on zooplankton communities (mesocosm)
 - **Question 2:** How do spawning, adult sea-run alewives impact lake ecology?
 - i. Nutrient transfer (nutrient diffusing substrates)
 - ii. Nutritional quality and usage of anadromous subsidies (energy content, stable isotopes, fatty acids, predation event recorders)
 - iii. Characterization of diets of spawning, adult sea-run alewives (diet composition, energy content, fatty acids)
 - **Question 3:** Implications for landlocked salmon growth?
 - i. Presence/absence of sea-run alewives
 - 1. Additional candidate waters for paired stocking studies
 - a. Shortlist based on fisheries criteria
 - i. Schoodic Lake, Cherryfield (389 acres)
 - ii. Lambert Lake, Lambert Lake Twp (605 acres)
 - b. Kennebec as a sea-run alewife source? No salmon in these waters but could be secondary options
 - i. Basin Pond, Fayette (32 acres, contains splake)
 - ii. Minnehonk Lake, Mount Vernon (99 acres, contains splake)
 - iii. Jamies Pond, Manchester (107 acres, contains splake)
 - **UMO Stated Needs:**
 - i. Lake for mesocosms
 - ii. Two lakes for sea-run alewife and landlocked salmon stocking
 - iii. Help with catching fish (initially and recapture of salmon)
- II. Funding Opportunities
 - Counting costs for LTM; stocking logistics
 - Potential partners
 - i. Update from Nate/Rory on meeting with the River Herring Network