

Assessment Plan Documentation

Name of Planning Unit: CFRE Contact: Ashley Moerke.

Goals (Link 3 goals to the Strategic Plan [CAFE] Goals)	Goal Assessment: How was this goal assessed, and what were the results?	Use of Results: What changes, if any, will be made to improve goal achievement?
<p>The Aquatic Research Lab (ARL) collaborates with Michigan Department of Natural Resources (MDNR) to operate the LSSU Hatchery; the hatchery rears, monitors health, and stocks Atlantic Salmon in Michigan waters to instruct and train students. (Inactive)</p>	<p>Students trained in all aspects of hatchery work, including collecting returning adult Atlantic Salmon from the St. Mary’s River for egg-take, fertilization and health monitoring of fish while raised in the research lab, and stocking fish by release into Michigan waters. Students complete senior research projects.</p> <p>2015: Student thesis research projects successfully collected and reported the data for use by the MDNR to determine future actions to be taken to safeguard and ensure a strong population of Atlantic Salmon in Michigan’s waters.</p> <p>2016: Student thesis research projects successfully collected and reported the data for use by the MDNR to determine future actions to be taken to safeguard and ensure a strong population of Atlantic Salmon in Michigan’s waters.</p> <p>2017: Student thesis research projects successfully collected and reported the data for use by the MDNR to determine future actions to be taken to safeguard and ensure a strong population of Atlantic Salmon in Michigan’s waters.</p>	<p>2015: No changes were requested from MDNR related to processes employed in the ARL.</p> <p>Student thesis projects meet the goals set for instruction and training; no changes planned to this assessment. [Attached: Annual Report (2015). <i>Lake Superior State University’s Aquatic Research Laboratory & Michigan Department of Natural Resources</i>]</p> <p>2016: No changes were requested from MDNR related to processes employed in the ARL.</p> <p>Student thesis projects continue to meet the goals set for instruction and training, as well as to inform this field of scientific research; no changes planned to this assessment. [Attached: Annual Report (2016). <i>Lake Superior State University’s Aquatic Research Laboratory & Michigan Department of Natural Resources</i>]</p> <p>2017: No changes were requested from MDNR related to processes employed in the ARL.</p> <p>Student thesis projects continue to meet the goals set for instruction and training, as well as to inform this field of scientific research; no changes planned to this assessment. [Attached: Annual Report (2017). <i>Lake Superior State University’s Aquatic Research Laboratory & Michigan Department of Natural Resources</i>]</p>

<p>The Aquatic Research Lab (ARL) collaborates with Michigan Department of Natural Resources (MDNR) on Broodstock Collection, Disease Testing, Gamete Collection, and Egg Treatments of Atlantic Salmon in Michigan waters. (Inactive)</p>	<p>Atlantic Salmon are captured annually from the St. Mary’s River in Michigan to collect data on Sea Lamprey scarring, size and weight, and health.</p> <p>2016: MDNR’s Fish Health Report indicates no serious health risks to the Atlantic Salmon population in the St. Mary’s River.</p> <p>2017: MDNR’s Fish Health Report indicates no serious health risks to the Atlantic Salmon population in the St. Mary’s River.</p>	<p>2016: Continue testing and monitoring the health of Atlantic Salmon captured in the St. Mary’s River. Continue providing reports to MDNR to identify any health risks that may occur in the future. [Attached: Annual Report (2016). <i>Lake Superior State University’s Aquatic Research Laboratory & Michigan Department of Natural Resources</i>]</p> <p>2017: Implement transition from ARL to Center for Freshwater Research and Education (CFRE), which will continue testing and monitoring the health of Atlantic Salmon captured in the St. Mary’s River, and continue providing reports to MDNR to identify any health risks that may occur in the future. [Attached: Annual Report (2017). <i>Lake Superior State University’s Aquatic Research Laboratory & Michigan Department of Natural Resources</i>]</p>
<p>The Center for Freshwater Research and Education (CFRE) is a sustainable real-world, transformational undergraduate education facility in freshwater science and stewardship. (Culture: C2; Academics: A2 & A3; Finance: F3; Enrollment: E2).</p>	<p>2017-2018: Multiple stakeholders for the Aquatic Research Lab (ARL) met regularly to evaluate and discuss ongoing plans for the CFRE expansion. Stakeholders involved included: Michigan Department of Natural Resources (MDNR); Michigan legislators and lobbyists; LSSU staff in the ARL; LSSU Infrastructure Committee; City of Sault Sainte Marie Officials. Funding sources were pursued for expansion, including private donors, legislators, and grants from Great Lakes Fisheries Trust (GLFT) and Natural Resources Trust Fund (NRTF).</p> <p>Approved: \$13.2 million for CFRE construction.</p>	<p>July 20, 2018, scheduled groundbreaking for Freshwater Research and Education (CFRE).</p>

<p>CFRE's policies and procedures incentivize collaboration, innovation, and diversity in research, education, and community engagement, and procedures improve operational efficiency. (Culture: C2; Academics: A2 & A3; Finance: F3; Enrollment: E2).</p>	<p>2018-2019:</p>	
<p>CFRE is a recognized research program and resource hub on Great Lakes science, education, and community engagement for LSSU personnel and undergraduates as well as the community and external partners. (Culture: C2; Academics: A2 & A3; Finance: F3; Enrollment: E2).</p>	<p>2018-2019:</p>	