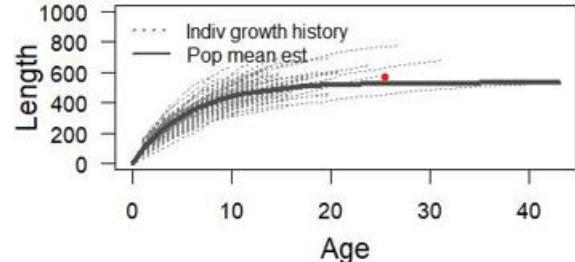
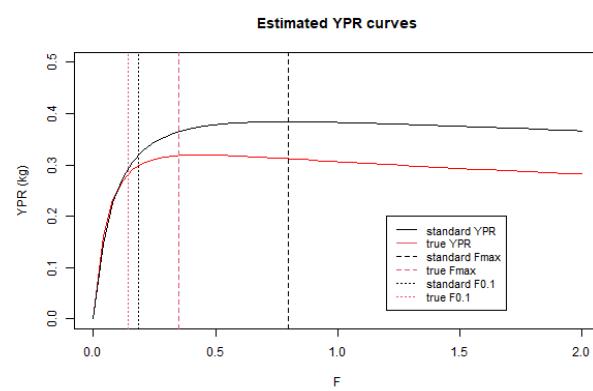


ASSESSING INDIVIDUAL VARIABILITY IN GROWTH RATES FOR
GREAT LAKES FISH POPULATIONS**Project Lead:** James Bence**Contact info:** bence@msu.edu**QFC Collaborators:** Travis Brenden**Other Collaborators:** Elizabeth Stebbins, Shane Flinn, Mike Hansen,

Daniel Iserman, Joe Schmitt, Shannon Davis-Foust

Funding Agency: Great Lakes Fishery Commission**Start Date/Status** January 2019 – January 2026**Date:****Goal:** To better understand the nature of among individual variability in individual fish growth and the importance of accounting for it in fishery management**Objectives:****Management Implications:** Various fishery management reference points depend upon fish growth and individual variation among fish is ignored in the calculation of the reference points. This research will evaluate whether reference points and resulting management should be altered to account for this variation.**Methods:****Prelim. Findings/ Next Steps:**

Example of data for a lean lake trout population on Lake Superior showing among individual variation in growth using back-calculated lengths.



Preliminary simulation results based on lean lake trout in Lake Superior showing large influence of growth variation on yield per recruit curves and reference points based on them. "True values" account for among individual variation.

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