A

Lethally subsample 50% of recaptured fish for parasite load and DNA identification

Extensive recapture effort (September)

Collect young-of-the-year fish in stream (August)

One month of selection in stream

Re-sample for DNA identification and release ~50% of recaptures

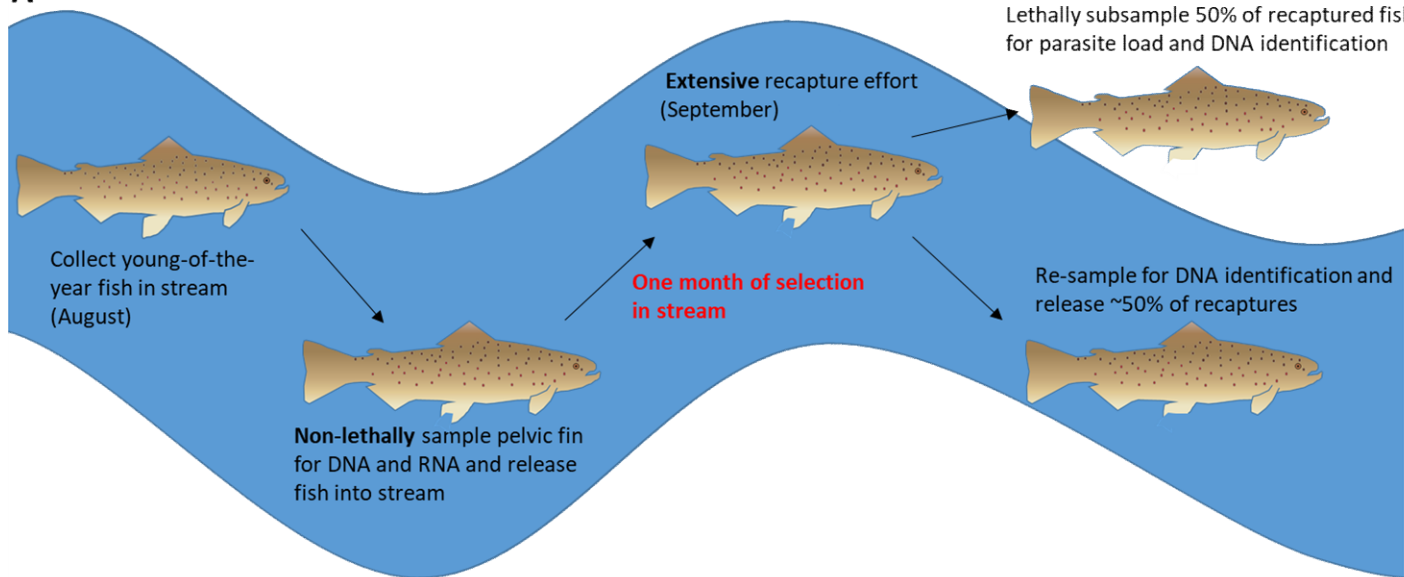**Non-lethally** sample pelvic fin for DNA and RNA and release fish into stream

B

Identify survivorship based on DNA from post selection (September) sample

RNA isolated from first (August) fin clip sequenced to use transcript count to predict survival

Transcript count

Non-Survivors   Survivors