

Pallid Sturgeon Habitat, Spawning, and Genetic Research

Progress Update by Malinda Henry – PRRIP Science Lead

A close-up photograph of a fish's head, likely a smallmouth bass, being held gently by a person's hand. The fish's eye is prominent, and its scales show a mix of silver and olive-green colors. The background is a soft, out-of-focus pinkish-red.

Goals:

Fill knowledge gaps about lower Platte River:

- Pallid spawning habitat
- Pallid reproduction and recruitment
- Pallid population dynamics

Habitat & Spawning Research

UNL/NGPC

Assess PS use of lower Platte River and tributaries

- Relate seasonal movements to environmental patterns
- Identify and describe spawning habitat
- Verify successful spawning and recruitment in the lower Platte

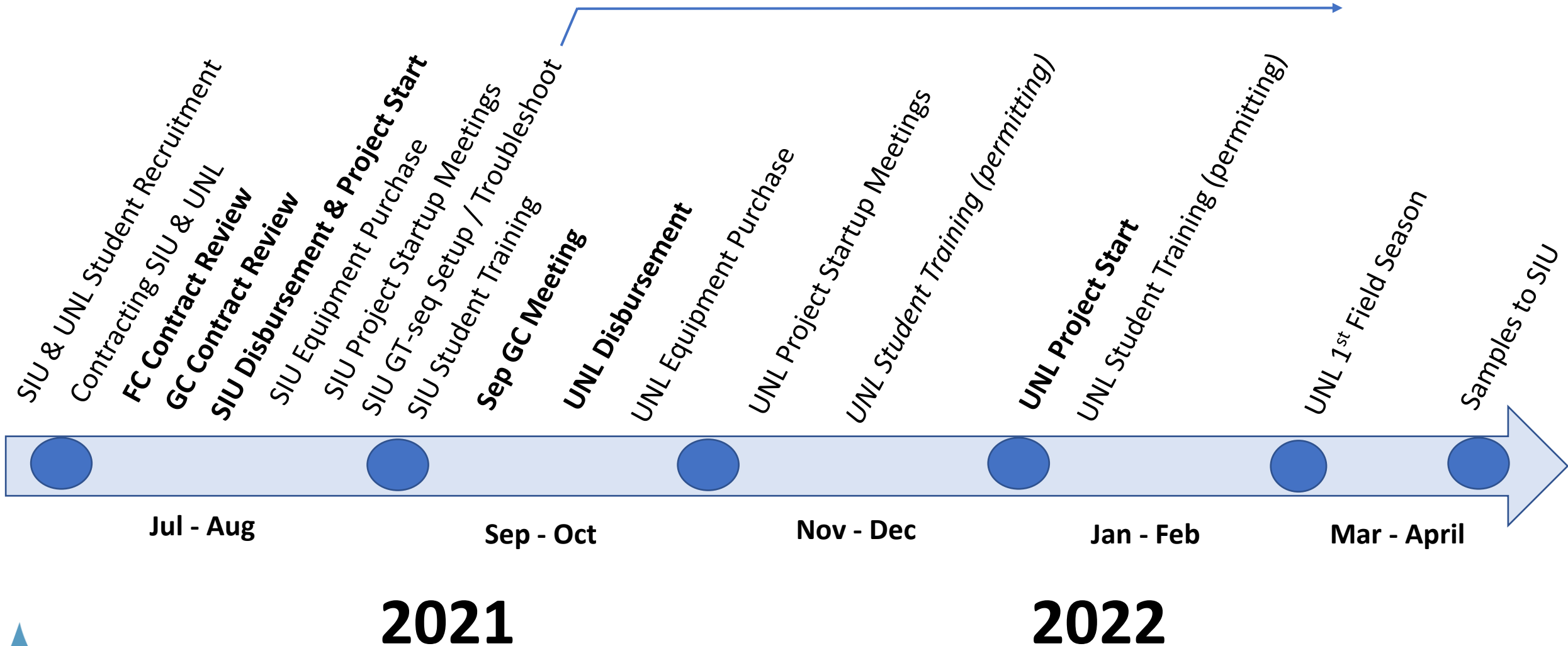
Genetics Research SIU

Ties learning to pallids

- New species ID baselines
- Link lower Platte young of the year to parental origin
- Hatcheries and stocking of pallids
- Estimate effective population size (N_e)



Timeline



Timeline

Task	2021	2022	2023	2024	2025	2026
Hire personnel		■		■		
Acquire telemetry and sample equipment	■	■	■	■		
Deploy/replace listening stations	■	■	■	■	■	
Fish collection and transmitter implantation	■	■	■	■		
Active Tracking (all fish)	■	■	■	■	■	
Active Tracking (reproductively ready adults)	■	■	■	■	■	
Passive Tracking Listening station downloads		■	■	■	■	■
Free embryo and exogenous feeding sampling		■	■	■	■	
Development of GTseq markers and new species identification protocols		■				
Genetic sample processing and analysis		■	■	■	■	■
Data processing (QA/QC)		■	■	■	■	■
Data analyses (interim and preliminary)		■	■	■	■	■
Annual summary/report		■	■	■	■	
Student dissertation/theses completion			■	■		■
Final Report analyses and preparation						■

Timeline

QUESTIONS?

