

Natural Communities

- Conduct comprehensive surveys of the vascular flora on calcareous prairies and woodlands at Copenhagen Hills Preserve. Surveys should provide the data necessary for predicting restoration outcomes and establishing science-based management goals for similar habitats statewide.
- Assess microbial diversity and function in restored coastal prairies and other reestablished grasslands of southwest Louisiana. The study should aim to investigate the link between soil conditions, floristic quality, plant community resilience, and restoration success to microbial composition and function.

Invertebrates

- Conduct surveys for Texas Heelsplitter (*Potamilus amphichaenus*) in the Toledo Bend Reservoir and in the Sabine River basin upstream to the Texas border.
- Conduct surveys for Louisiana Pigtoe (*Pleurobema riddellii*) in the Bayou Teche basin, particularly Bayou Boeuf.
- Investigate the use vs availability of interstitial space for Louisiana Pearlshell Mussels (*Margaritifera hembeli*).
- Conduct surveys for the Slenderwrist Burrowing Crayfish (*Fallicambarus petilicarpus*) in Louisiana.
- Conduct systematic statewide inventory of bee species. For more information, contact Michael Seymour (mseymour@wlf.la.gov).

Fish

- Conduct traditional and eDNA surveys, focusing on techniques and timing with the highest likelihood of detection, for Alabama Shad (*Alosa alabamae*) within the historic range in the Pontchartrain and Pearl River basins.
- Provide basic life history and habitat association information for the Gulf Chub (*Macrhybopsis tomellerii*).
- Distribution, abundance, and diversity of freshwater mussels in the Atchafalaya River Basin.
- Determine SGCN fish passage patterns and rates through the lock and dam structures on the Red River.

Mammals

- Conduct surveys to determine current population status and distribution of Southeastern Shrew (*Sorex longirostris*), in southeastern Louisiana.
- Conduct surveys to determine current population status and distribution of Hispid Pocket Mouse (*Chaetodipus hispidus*), in the western portion of Louisiana.
- Conduct surveys to determine current population status and distribution of Northern Pygmy Mouse (*Baoimys taylori*), in western Louisiana.

- Conduct surveys to determine current population status and distribution of Golden Mouse (*Orchrotomys nuttalli*), in Louisiana.
- Conduct surveys to delineate the range of Tricolored Bat (*Perimyotis subflavus*), in Louisiana, specifically in southern and eastern Louisiana parishes.
- Determine presence/absence of various bat SGCN along coastal Louisiana.

Reptiles and Amphibians

- Conduct Western Chicken Turtle (*Deirochelys reticularia miaria*) surveys within sites prioritized from previous SWG surveys to determine presence and abundance in Louisiana. For more information, contact Keri Lejeune (klejeune@wlf.la.gov). Data collection should include tissue samples for future genetic analysis. All tissue samples must be submitted to LDWF at the conclusion of the study.
- Conduct Stripe-necked Musk Turtle (*Sternotherus peltifer*) trapping surveys throughout the Pearl River drainage, including the Bogue Chitto River and its tributaries, to determine the species' distribution and abundance in Louisiana. Data collection should include tissue samples for future genetic analysis. All tissue samples must be submitted to LDWF at the conclusion of the study.
- Implement captive propagation and/or rearing of the Dusky Gopher Frog (*Lithobates sevosus*) to assist LDWF and partners with reintroduction efforts.
- Consolidate isolated Gopher Tortoises (*Gopherus polyphemus*), via soft release, within a pre-determined site selected by LDWF to assist LDWF with working towards establishing a Minimum Viable Population. Post-release monitoring, via radio-telemetry, will be conducted to evaluate the success of consolidation efforts and inform future management decisions. MUST coordinate with herpetologist, Keri Lejeune (klejeune@wlf.la.gov), prior to submitting a proposal for this topic.
- Conduct a 14-year follow-up study on the distribution and population status of Diamondback Terrapin (*Malaclemys terrapin*) in Southwest Louisiana. Study should follow the trapping protocol (fyke nets) used by LDWF from 2011-2013, and should occur at the same locations (can include additional locations if desired), and should include tissue sample collection. A copy of the survey protocol is available upon request. All tissue samples must be submitted to LDWF at the conclusion of the study.

Avian

- Investigate fall abundance, stopover ecology, and habitat preferences of Yellow Rail in rice fields pre- and post-harvest.
- Perform comprehensive data analysis of multi-year coastal bird survey dataset to provide population estimates for beach-nesting bird SGCN. For more information, contact Robert Dobbs (rdobbs@wlf.la.gov)