

“A two-year survey of occurrence, distribution, habitats, and threats to crayfish SGCN and associated species assemblages in central and northern Louisiana and southern Arkansas”

Surveys will be conducted for *Fallicambarus dissitus* (Pine Hills Digger), *Faxonella beyeri* (Sabine Fencing Crayfish), and *Procambarus viaeviridis* (Vernal Crayfish) in northern Louisiana; *Faxonella creaseri* (Ouachita Fencing Crayfish) in northern Louisiana and southern Arkansas; and *Orconectes blacki* (Calcasieu Painted Crayfish), *Orconectes hathawayi* (Teche Painted Crayfish), and *Orconectes maletae* (Kisatchie Painted Crayfish) in central Louisiana. Surveys will include data collection, analysis, and interpretation of occurrence, distribution, habitats, and threats to these species and their assemblages, which is needed to better assess and direct future management and conservation planning efforts in Louisiana. Moreover, the information attained from surveys for *F. creaseri* in northern Louisiana and southern Arkansas will facilitate more informed management and conservation planning efforts in both states, potentially leading to changes in imperiled species prioritization rankings and statuses, as well as fostering new and broader networking opportunities. Lastly, select crayfish specimens will be deposited into research collections and made available for additional studies, such as those on genetics and morphology that will help to further delineate and define the different species of *Faxonella* and *Orconectes*.

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