

A Preliminary Report on the Distribution and Conservation Status of the Alabama Crayfish Fauna



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(Photos by Guenter A. Schuster)

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A PRELIMINARY REPORT ON THE DISTRIBUTION AND CONSERVATION STATUS OF THE ALABAMA CRAYFISH FAUNA

OPEN-FILE REPORT 1102

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ABSTRACT

Alabama has 85 species of crayfishes documented with 11 undescribed taxa within the state awaiting formal descriptions. Based on a database search of Alabama crayfish collection records and examination of museum material, areas of the state which had been undersampled for crayfishes were identified and a total of 767 collections were made by Geological Survey of Alabama staff and other researchers during 2008-10, with effort concentrated in those undersampled areas. Sixty-four of the 85 known species were encountered. Approximately 55 percent of the sites sampled were from the Mobile River basin, 32 percent from the Tennessee River drainage, and 13 percent from the cumulative coastal river drainages. Twelve species showed what appeared to be significant range extensions and 24 were rarely encountered within their known ranges. Whether the latter represents an artifact of limited sampling or a natural range reduction is unknown. The only known invasive species, *Orconectes virilis*, appears to have been introduced into the Cahaba, Black Warrior, and Coosa River systems and is thriving well in some locations. Its effects on the native crayfish fauna are unknown. One previously unknown crayfish species was recently discovered in the Shoal Creek system and formally described as *Barbicambarus simmonsii* (Taylor and Schuster, 2010), representing the first state record for that genus, and two new cave species have been described (Buhay and Crandall, 2009). This brings the total state crayfish fauna to 85 known species—the largest number of species for any state or political province in North America.

INTRODUCTION

Second only to the insects, crustaceans comprise the largest arthropod sub-phylum in the world and are one of the dominant aquatic arthropod groups. Crayfishes

(along with shrimps, crabs, and lobsters) are in the order Decapoda—the largest order of Crustacea—and crayfishes are the most successful of the macroscopic freshwater decapods, with over 500 species worldwide (Ruppert and Barnes, 1994).

Crayfish are omnivorous and will feed on a wide variety of food items, including plant material, detritus, carrion, and live prey. They are largely nocturnal and use a variety of shelters such as rocks, submerged logs, coarse particulate organic matter, undercut banks, and burrows both beneath surface waters and excavated on dry land but reaching down to the water table. They are found in a variety of freshwater habitats, including rivers, streams, springs and spring runs, lakes, marshes, swamps, vernal pools, roadside ditches, caves, and on the floodplains of rivers and streams.

Crayfish have sexually dimorphic characters, especially the anterior-most abdominal appendages, which are modified into genitalia called gonopods among the northern hemisphere species, and anterior-most thoracic appendages (called claws or *chelae*), which in many species are much larger in males than females. Unlike crayfishes in other parts of the world, males in the family Cambaridae (the family encompassing most of the native North American fauna) alternate between reproductively active Form I and inactive Form II males. All crayfishes release eggs that adhere to the female's abdomen, as do the young, which grow via direct development. All crayfishes molt their exoskeletons throughout life, with longer time intervals between molts as individuals reach adult size.

The varied physiographic character of Alabama described by Sapp and Emplaincourt (1975) contributes to the high biodiversity of the Alabama crayfish fauna (fig. 1). The southernmost portion of the Appalachian mountain range terminates in the state at a feature known as the Fall Line, south and west of which is the East Gulf Coastal Plain physiographic section. Many species are distributed exclusively upstream of the Fall Line, an area typified by the upland regions of the Highland Rim, Cumberland Plateau, Alabama Valley and Ridge, and the Piedmont Upland physiographic sections. Other species are found exclusively downstream of the Fall Line in the lower Mobile Basin and/or in one or more of the Coastal Plain drainages.

This physiographic footprint is drained by a number of river systems—most of them containing endemic crayfish species (fig. 2). The Mobile River basin, comprised of

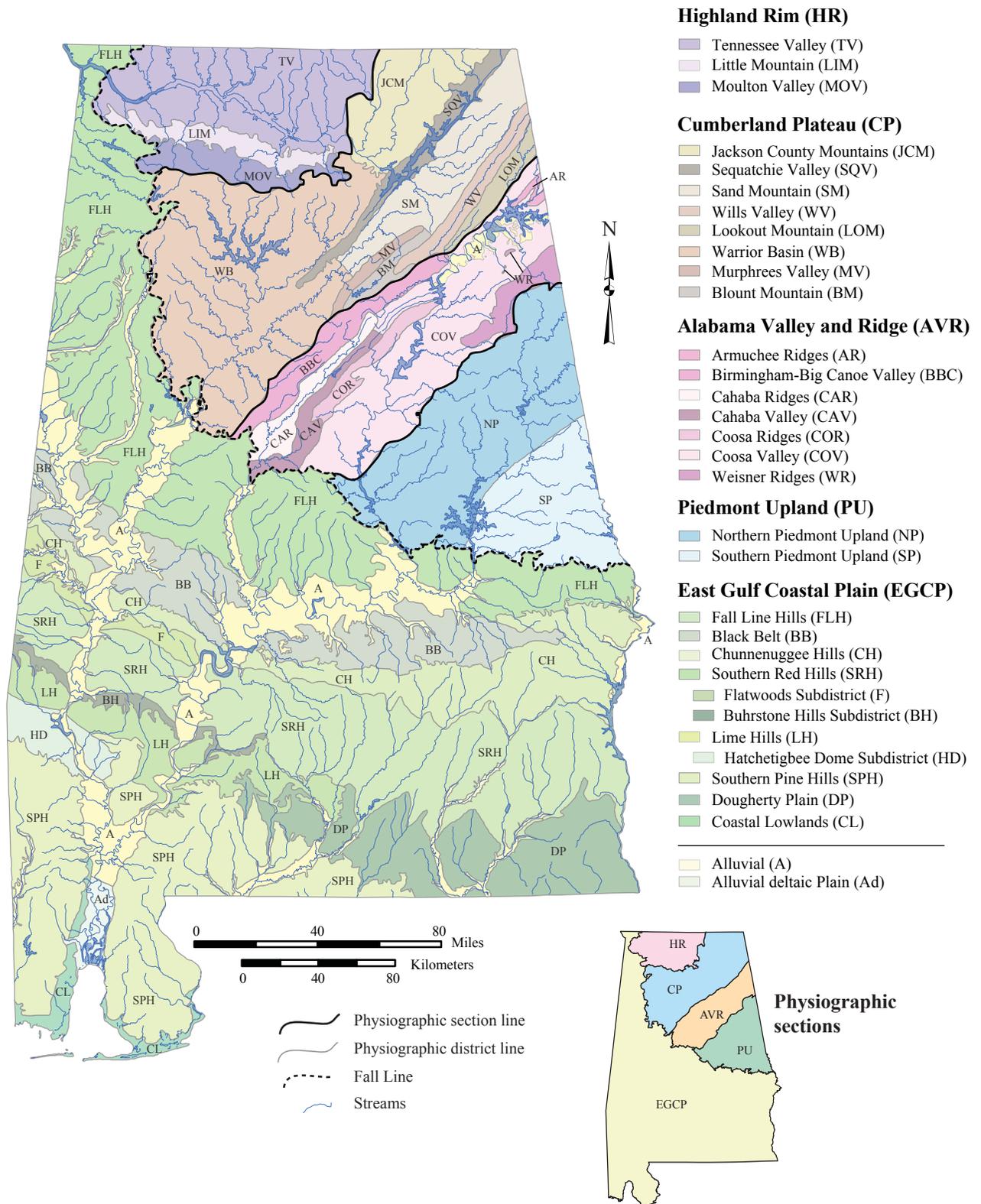


Figure 1. The physiography of Alabama. Districts in each section have been arranged descending from north to south. Alluvial deposits, which parallel the major river channels in the East Gulf Coastal Plain section, also occur in the Alabama Valley and Ridge section (modified from Sapp and Emplainscourt, 1975).

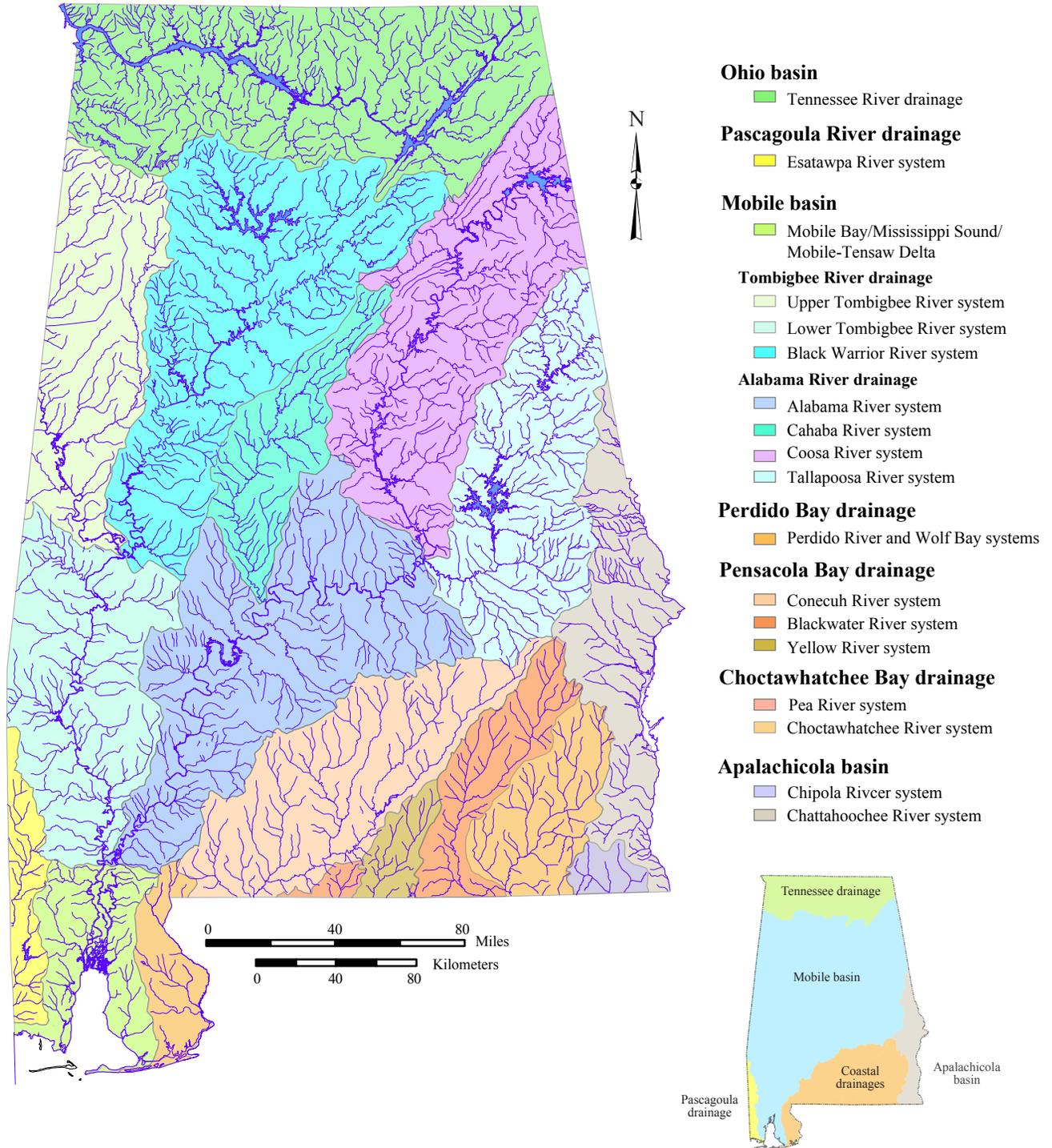


Figure 2. River basins, drainages, and systems in Alabama.

the Alabama, Black Warrior, Cahaba, Coosa, Mobile/Tensaw, Tallapoosa, and Tombigbee River systems, occupies the largest area and drains about 65 percent of the state and flows southward into Mobile Bay. Other smaller stream systems drain directly into Mobile Bay as well. In north Alabama, the Tennessee River drainage of the Ohio River basin flows westward and drains about 13 percent of the state. The remainder of the state is drained by numerous smaller Coastal Plain systems, including, from west to east, the Escatawpa, Perdido, Conecuh, Blackwater, Yellow, Pea, Choctawhatchee, Chipola, and Chattahoochee River systems, flowing southward toward the Gulf of Mexico and Mississippi Sound.

These branching river networks, flowing through a variety of geographic features and having a wide range of flows, elevations, stream gradients, substrate compositions, and underlying lithography, result in a broad diversity of aquatic ecosystems. In addition to the lotic systems, a number of lentic and aquatic cave systems are found throughout the state. Large areas of swamp and marsh wetlands border the major rivers, especially along the lower Tombigbee and lower Alabama Rivers and the vast Mobile-Tensaw Delta coastal wetlands along Mobile Bay and the Gulf of Mexico. Extensive isolated cave habitats are found in the abundant karst terrain located in the Tennessee River drainage. This heterogeneity of aquatic habitats long isolated over geologic time has restricted gene flow among populations and provided ample time and opportunity for speciation.

The diverse and ancient geology of Alabama, in combination with a varied hydroscape, provide the framework from which Alabama's diverse aquatic ecosystems arose. Such boundaries as the Fall Line and divisions between major river basins often restricted the ability of species to spread, leading to ample time and opportunity for speciation within a restricted area. Our project included collecting in each county and geologic district (appendix A). See distribution maps (appendix B) for *Cambarus diogenes*, *C. ludovicianus*, *C. obstipus*, *Orconectes erichsonianus*, and *Procambarus lewisi* for examples of those restricted by geological boundaries, and *Cambarus graysoni*, *C. halli*, *C. tenebrosus*, *Orconectes alabamensis*, *Procambarus paneinsulanus*, *P. suttkusi*, and *P. vioscai* for examples of those restricted by hydrological boundaries. *Cambarus striatus* is a prime example of a species restricted by neither geology nor hydrology.

Beyond these contemporary geographic factors restricting gene flow among crayfish populations in Alabama, two major ancient phenomena in the historical biogeography of ancestral groups have also contributed to the present-day rich biodiversity. The first was during glacial maxima, when repeated glacial advances over the north-central portion of North America took place during the Pleistocene. Since much of the Eastern Highlands, including much of what is present-day Alabama, remained free of this glacial advance, the ancient rivers of this region served as habitat refugia in which aquatic organisms survived and diversified (Mayden, 1987). Secondly, the Mississippi Basin was inundated with periodic elevation and retreat of sea levels over a much longer geologic time. These events truncated downstream river connectivity, and thus periodically reduced gene flow between populations in the separate drainage systems—a process which may account in part for present-day biodiversity.

In addition to the physical and environmental factors listed above, there are probably intrinsic isolating mechanisms peculiar to crayfish biology which may have continually stimulated evolutionary divergence. Relative to other morphological traits, the reproductive structures of most crayfish species are often diagnostic of species-level distinctions. Often, identification to the species level is difficult except in the case of reproductively active, Form I, adult male specimens. Eberhard (1985) reviews the sexual anatomy of a broad array of arthropod and other invertebrate and mammal groups and evaluates several possible sexual selection and other evolutionary mechanisms that could give rise to species-specific genitalia. He argues that sexual selection by female choice is the hypothesis that best explains this rapid and divergent evolution of distinct species, even those whose ranges are sympatric, because of the possibility of runaway selection (Fisher, 1930). It is highly likely that similar forces are at least partly responsible for the high crayfish biodiversity in Alabama (and in North America in general).

Alabama is a hotspot for aquatic biodiversity on the North American continent and is well known for its diversity of fishes and freshwater mollusks (Lydeard and Mayden, 1995; Mettee and others, 1996; Boschung and Mayden, 2004; Williams and others, 2008). Fishes and, to a lesser extent, mussels, are well studied compared to the crayfishes, which represent perhaps the least studied major component of Alabama's aquatic macrofauna. Although there have been earlier studies (most notably the lifelong

work of Horton H. Hobbs, Jr.), and while crayfish work is continuing (Schuster and Taylor, 2004; Taylor and Schuster, 2007; Schuster and others, 2008), knowledge of crayfishes in Alabama lags well behind that of fishes and mussels. For Alabama to move forward in conserving its aquatic species through the Comprehensive Wildlife Conservation Strategy as put forth by the Alabama Department of Conservation and Natural Resources (ADCNR), a first step is to understand biodiversity patterns: First, what species do we have and where are they located? Second, which of these species are in need of conservation action? This fundamental level of understanding did not exist before this study for crayfishes in Alabama. Ongoing studies are working to this end but additional sampling is needed before we will have a complete and updated understanding of crayfishes in the state.

The objectives of this study include the following: (1) to fill in collection coverage gaps and to sample statewide in poorly known watersheds, ecoregions, and habitats for crayfishes; (2) to resample a limited number of historic collection sites and compare results with historic collections; (3) to compile the information necessary to support future Geographic Information Systems (GIS) products to assist in mapping crayfish distributions, document past and future changes in their populations, and to reveal possible threats to their continued existence; (4) to revise greatest conservation need (GCN) rankings; (5) to collect photographic recordings of all species in life color; (6) to collect specimens for systematic revisions. The GIS component will create consistency and standardization of the crayfish dataset for direct input into the State Lands Heritage Database and will allow spatial relationships of the data components to be explored in conjunction with other statewide geographic datasets.

The expected benefit of this project is increased knowledge of the current distribution and status of crayfishes in Alabama leading to effective crayfish conservation and management. The GIS component initiated during this project and subject to refinement based on future sampling results will provide the ability to digitally explore crayfish distributions and changes in distributions in conjunction with statewide geographic datasets and to monitor those changes.

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PHYSIOGRAPHY

Physiography relates to the structure and type of underlying geologic formations and local geologic and climatic forces that shape the landscape. Physiography, including the underlying geology and shallow soils, is one of several determinants of watersheds in Alabama and, in many cases, strongly influences species distributions.

Alabama's varied physiography provides a template for its diverse and abundant flora and fauna. The relationship of physiography and climate affects speciation,

extinction events, and isolation of some species. Within the framework of geologic time mountain chains have been created, uplifted, and eroded by wind, rain, and temperature. Rivers have migrated, intersecting and capturing other streams and changing direction, and the coastline has been altered by changes in sea levels during the advance and retreat of continental ice sheets, with the shoreline sometimes reaching as far inland as current Tuscaloosa, Montgomery, and Phoenix City during these migrations.

Historical geologic and climatic events are intimately involved in creating, changing, and maintaining Alabama's great biodiversity. The varied physiography and present moderate climate sustain Alabama's diversity through numerous unique aquatic habitats, ranging from coastal marshes to high gradient, boulder-laden mountain streams.

Five major physiographic sections are recognized in Alabama: the Highland Rim, Cumberland Plateau, Alabama Valley and Ridge, Piedmont Upland, and East Gulf Coastal Plain (fig. 1). Further delineation of districts within sections recognizes additional unique physical areas illustrating the broad and diverse physiographic character of Alabama. The following references were freely used in describing Alabama's physiography, which was summarized in greater detail by Mettee and others (1996): Harper (1920, 1942, 1943); Johnson (1930); Fenneman (1938); Pierce (1966); and Sapp and Emplaincourt (1975).

HIGHLAND RIM

The Highland Rim section extends from the Tennessee River in northwest Alabama northward to the glacial boundary in Indiana. The Highland Rim in Alabama is located in the northwest portion of the state and is drained exclusively by the Tennessee River. Valley floors are predominantly limestone at elevations of 500 feet while ridges are typically composed of sandstone and are near 1,000 feet. Three districts are delineated in the Highland Rim section—the Tennessee Valley, Little Mountain, and Moulton Valley—all sloping to the west and plunging beneath Coastal Plain deposits. Streams in the southern portion of the Highland Rim usually originate in the Pottsville escarpment of the Warrior Basin, flow north through the Moulton Valley, and bisect Little Mountain in narrow, deep valleys through sandstone beds.

The Tennessee Valley, comprised of red-clay lands on both sides of the Tennessee River, is the largest district in the Highland Rim. In the level parts of the

valley are numerous karst features such as springs, ponds, lime sinks, and caves formed by solution of the underlying limestone.

Water discharge from springs often sustains stream flows during droughts and some large springs, such as Brahan Spring in Huntsville and Tuscumbia Spring in Tuscumbia, serve as municipal drinking water supplies. Small headwater streams flowing north through the Little Mountain and Moulton Valley districts have reduced flows during late summer. Some receive nonpoint agricultural runoff and permitted wastewater discharges which often lead to water-quality problems during low stream flows. Streams draining south to the Tennessee River generally flow year round and many have exceptionally good water quality. The Tennessee Valley, Little Mountain, and Moulton Valley districts are drained by the Tennessee River and its larger tributaries, including the Elk River and Cypress, Shoal, Bluewater and Limestone Creeks to the north and Town, Spring, Big Nance, and Flint Creeks to the south of the Tennessee River.

CUMBERLAND PLATEAU

The Cumberland Plateau section is an undulating surface of sandstone and shale frequently dissected by valleys and hollows. Elevations range from 600 feet at Tuscaloosa to near 1,700 feet in the Jackson County Mountains northeast of Huntsville and Lookout Mountain near Mentone. Eight districts are recognized in the Cumberland Plateau: the Warrior Basin, Jackson County Mountains, Sand Mountain, Sequatchie Valley, Blount Mountain, Murphrees Valley, Wills Valley, and Lookout Mountain. The majority of the Cumberland Plateau consists of the Warrior Basin and Sand Mountain, with the Black Warrior River and its tributaries as predominant drainage features.

The Warrior Basin is a broad, dissected plateau of sandstone and shale about 80 miles wide lying in Winston, Cullman, Walker, Jefferson, and Tuscaloosa Counties. Flow in larger streams is usually sustained during summer months but many headwater tributaries go dry because of low recharge from groundwater aquifers. The upper Black Warrior River and its tributaries Locust, Mulberry, and Sipsev Forks, and North River comprise the dominant drainage features in the district, with streams occurring in steep-sided valleys many of which are gorge-like.

The Jackson County Mountain district is found in the northeast corner of Alabama and is a plateau of high relief, with level mountain tops capped by sandstone and stream

valleys cut through limestone beds. The principal drainage features are the Paint Rock River and portions of the Flint River, both tributaries of the Tennessee River.

The Sand Mountain district is a large plateau of sandstone and shale ranging from 8 to 18 miles wide and is approximately 80 miles long, gradually merging with the Warrior Basin in the southwest and Blount Mountain in the southeast. Major stream systems on Sand Mountain are Short, South Sauty, and Town Creeks (Tennessee River drainage), and headwater streams of the Locust Fork (Black Warrior drainage). Many streams cut deep gorges through, or fall precipitously over the edge of, Sand Mountain. Poor water quality of streams draining Sand Mountain is a frequent concern and a result of runoff from poor agricultural and animal husbandry practices and permitted discharges from small communities and industries. The upland nature of streams on Sand Mountain and the water-quality issues generally result in a less diverse aquatic fauna in this region.

The Lookout Mountain district is a flat, narrow remnant of the Cumberland Plateau extending from Chattanooga, Tennessee, to Gadsden, Alabama, for a distance of 75 miles and ranging in width from 3 to 7 miles. Lookout Mountain is composed of sandstones and shales and is very similar to Sand Mountain in topography and character. The two major drainage features on Lookout Mountain are Little River and Black Creek. Little River originates on the mountain in Georgia and flows southwest over a series of spectacular falls and through a deep gorge before it joins the Coosa River near present day Weiss Reservoir.

The Sequatchie Valley district is a pronounced topographic feature in Tennessee with its southwestern extent occurring in Blount County, Alabama. The northeastern part of the valley in Alabama is occupied by the Tennessee River where it enters the state downstream to Guntersville, and the southwestern third is drained by streams in the Black Warrior River system.

The Wills Valley district extends for approximately 70 miles southwest across DeKalb and Etowah Counties, ending near Gadsden. The valley averages about 5 miles wide and is composed of three limestone valleys separated by sandstone ridges of low relief. The primary drainage feature of Wills Valley is Big Wills Creek, which follows the valley through its entire course, joining the Coosa River near Gadsden. Many springs and spring seeps enter Big Wills Creek from Sand and Lookout Mountains providing a

variety of aquatic habitats. Big Wills Creek and tributaries are affected by agricultural runoff and permitted discharges from small industries and communities.

The Blount Mountain district is a remnant of the Cumberland Plateau underlain by sandstones and shales. It is about 35 miles long and 4 to 6 miles wide, saucer shaped, and drained by Blackburn Fork, a tributary of the Locust Fork of the Black Warrior River. Blackburn Fork traverses Murphrees Valley before entering the Locust Fork.

ALABAMA VALLEY AND RIDGE

The Alabama Valley and Ridge section consists of a series of folded and faulted parallel ridges and valleys that trend northeast-southwest, with elevations ranging from 600 to 2,100 feet. Ridges are predominantly sandstone and chert, while valleys are generally limestone and shale. Seven districts are described in the Alabama Valley and Ridge section including the Coosa Valley, Coosa Ridges, Weisner Ridges, Cahaba Valley, Cahaba Ridges, Birmingham-Big Canoe Valley and Armuchee Ridges. Over half of the area within the Alabama Valley and Ridge is occupied by the Coosa Valley.

The Coosa Valley district extends for about 100 miles, averaging about 20 miles wide. The Coosa Valley is a plain of shale and limestone with ridges of low relief. The primary drainage feature of the Coosa Valley is the Coosa River, which is impounded along most of its length in Alabama.

The Coosa Ridges district consists of a folded parallel ridge belt about 5 miles wide and 50 miles long extending across St. Clair and Shelby Counties. The district is characterized by parallel, linear sandstone ridges separated by shale valleys. The most prominent mountain ridges are Oak, Double Oak, and Backbone. Streams originating in the Coosa Ridges district drain to either the Coosa or Cahaba Rivers and demonstrate a typical "trellised" drainage pattern where tributaries closely follow the strike of a formation, keeping on beds of softest rock and rarely cross the harder belts. This pattern can be seen in streams such as Beaver, Kelley, and Shoal Creeks and the upper Cahaba River.

The Weisner Ridges district consists of a series of dissected mountains of extreme relief rising above the Coosa Valley some 900 feet. The Weisner Ridges extend for 40 miles from the Alabama-Georgia state line to Coldwater Mountain near Anniston. Major

streams draining the Weisner ridges are Choccolocco, Cane, Nances, and Tallasseehatchee Creeks.

The Cahaba Valley district lies between the Cahaba Ridges and Coosa Ridges districts and extends for approximately 75 miles across Bibb, Jefferson, Chilton, Shelby, and St. Clair Counties. It averages about 10 miles wide and is developed on weathered, soluble limestones and dolomites, erodible shales, and resistant chert beds. Streams draining the Cahaba Valley flow into the Cahaba River and include the upper and lower Little Cahaba Rivers and Cahaba Valley and Buck Creeks.

The Cahaba Ridges district lies between the Cahaba Valley and the Birmingham-Big Canoe Valley and is about 65 miles long and 5 miles wide. It is characterized by several parallel northeast-southwest trending ridges formed by massive sandstone and conglomerate beds. This area is drained by the Cahaba River, which meanders among the ridges. The Cahaba Ridges and Cahaba Valley are extensively developed and receive significant nonpoint-source pollution such as nutrients and sediments.

The Birmingham-Big Canoe Valley district extends for some 90 miles from Etowah County to Tuscaloosa County and ranges from 4 to 8 miles wide. The valley is developed on soluble limestones and dolomites, and less soluble shales, sandstones, and chert. The northeastern portion of the district is drained by streams flowing to Big Canoe Creek, which empties into the Coosa River near Gadsden, whereas the southwest part of the district is drained by Turkey, Valley, Village, Five Mile, and Davis Creeks in the Black Warrior system. Many springs originate in the carbonaceous terrain of the Birmingham Valley, yielding unique aquatic habitats, and the Birmingham Valley is extensively developed and receives significant nonpoint-source pollution such as nutrients and sediments.

PIEDMONT UPLAND

The Piedmont Upland section is the non-mountainous section of the "older Appalachians" as described by Fenneman (1938). This undulating plain is the result of long-term degradation of the surface rocks while the underlying rocks are severely deformed and angled to the surface. The Piedmont Upland section in Alabama is a wedge-shaped feature bounded on the south by coastal plain sediments and to the northwest by the Alabama Valley and Ridge section. Piedmont geology is complex,

consisting of high- and low-grade metamorphic and igneous rocks including quartzite, phyllite, slate, schist, amphibolite, and gneiss. The Piedmont Upland section is divided into two districts, the Northern Piedmont Upland and the Southern Piedmont Upland. Elevations in the Northern Piedmont Upland generally range from 1,000 to 1,200 feet in the northeast and from 500 to 600 feet in the southwest. The Talladega and Rebecca Mountains form a prominent northeast-southwest trending ridge system in the northern part of the district, including Cheaha Mountain, the highest point in the state at 2,407 feet. The Tallapoosa River is the major drainage in the Northern Piedmont Upland and is impounded extensively along its length for hydroelectric power generation. The lower reaches of the Coosa River, including Mitchell and Jordan Lakes, flow through the southern end and empty into the Alabama River just after it enters the Coastal Plain. Numerous small springs and clear upland streams occur throughout the Northern Piedmont Upland, providing unique aquatic habitats.

The Southern Piedmont Upland district consists of a rather flat surface having little topographic relief and is cut by tributaries of the Tallapoosa and Chattahoochee Rivers. Some of the more interesting aquatic habitats in the district are located on the Fall Line where streams cut through the edge of the Piedmont as they enter the Coastal Plain, resulting in a series of rapids or spectacular falls over the basal Piedmont rocks.

EAST GULF COASTAL PLAIN

The East Gulf Coastal Plain section in Alabama is characterized by gently rolling hills, sharp ridges, prairies, and broad alluvial floodplains. Rocks underlying the Coastal Plain are of sedimentary origin and consist of sand, gravel, porous limestone, chalk, marl, and clay. These strata dip underground to the southwest at approximately 35 to 40 feet per mile and strike generally in east-west belts. Some of the strata are more resistant to erosion and underlie broad saw-toothed ridges known as *cuestas* that slope gently to the south with steep north-facing slopes. The East Gulf Coastal Plain comprises over 50 percent of the land area in Alabama and occurs south and southwest of the Fall Line. Eight physiographic districts are delineated in the East Gulf Coastal Plain including the Fall Line Hills, Black Belt, Chunnenugee Hills, Southern Red Hills, Lime Hills, Dougherty Plain, Southern Pine Hills, and Coastal Lowlands.

The Fall Line Hills district is a wide, crescent-shaped band extending from the Tennessee River in northwest Alabama across the central Mobile River Basin, ending near the Chattahoochee River in east Alabama. The Fall Line Hills form a major boundary to the Highland Rim, Cumberland Plateau, Alabama Valley and Ridge, and the Piedmont Upland sections. Streams draining the Fall Line Hills are well sustained, even in the driest years, because of extensive sand and gravel aquifers. Topography can be fairly rugged with steep slopes, particularly near streams. In the western portion of the district the Fall Line exists as an irregularly shaped transition belt about 15 miles wide where rocks of the Cumberland Plateau and Coastal Plain sections commingle. This is in contrast to the eastern portion of the district where the Fall Line is a sharp transition between coastal sediments and Piedmont rocks. The Fall Line divides Alabama into two distinct physical regions, the upland and lowland, and is the most significant physical feature in Alabama affecting the distribution of aquatic species. It is the zone of contact between the harder rocks of the Appalachians and Interior Plateau with the softer, unconsolidated sediments of the Coastal Plain. Because of limitations due to life-history traits, morphological adaptations, or lack of invasion routes, many species are limited to either upstream or downstream of the Fall Line, while other species are unrestricted by this barrier. Streams upstream of the Fall Line are generally swift with higher gradient, reflecting the harder base rocks and higher elevations, whereas streams downstream are generally slower, have muddy or sandy bottoms, and lower gradient indicative of flatter topography.

The Black Belt district is an undulating, deeply weathered plain developed primarily on chalk and marl characterized by concentrations of soft, white-gray limestone. This bedrock material weathers into fertile soils that bake hard in summer heat and become adhesive when wet making them difficult to cultivate. Because of thin soils and impermeable rocks, the Black Belt represents a unique and clearly defined hydrologic region in the state. Many streams have eroded to chalk bedrock and are noted for high rates of runoff and highly variable flows during storm events. Small streams frequently go dry while flow in larger streams is significantly reduced. Harper (1943) noted that the Black Belt is one of the driest regions in the state and that natural prairie

grasslands once covered up to 10 percent of the area. The Black Belt is a significant distributional barrier for some aquatic species.

The Chunnenugee Hills district consists of a series of pine-forested sand hills developed on hardened beds of clay, sandstone, siltstone, and chalk. The northward-facing slope in the western part of the district is known as the Ripley Cuesta and rises abruptly 100 to 200 feet above the Black Belt. This district widens in the eastern part of the state, includes several more cuestas, and encompasses about 2,200 square miles in Alabama. The rocks in the district are somewhat more permeable than chalk in the Black Belt but are still relatively poor aquifers. The Tombigbee and Alabama Rivers of the Mobile River Basin traverse the Chunnenugee Hills, and the headwaters of the Conecuh, Pea, and Choctawhatchee Rivers originate here.

The Southern Red Hills district is a belt about 50 miles wide that is narrow in southwest Alabama broadening considerably to the east. Two subdistricts are delineated in the western portion: the Flatwoods and the Buhrstone Hills. The Flatwoods subdistrict occurs in the southern portion of Sumter County and the middle of Marengo County and is developed on dark clays and marls that weather to stiff, plastic soils. Few ponds and springs are found in the area and potable groundwater is difficult to find. The Southern Red Hills proper is characterized by cuesta type ridges with steep, serrate north slopes and gentle back slopes. The Buhrstone Hills subdistrict is located along the southern edge of the Southern Red Hills proper and is characterized by very rugged terrain developed on hardened and resistant claystone and sandstone. The greatest topographic relief on the Coastal Plain of Alabama occurs in the Buhrstone Hills where ridges locally rise 300 to 400 feet above stream valleys. Streams in this area acquire upland characteristics with high gradient, hard-rock bottoms, and swifter flows. The Tombigbee and Alabama Rivers traverse the Southern Red Hills in the west while a significant portion of the Conecuh, Pea, and Choctawhatchee Rivers drain the east.

The rugged Lime Hills district occurs over resistant limestones in Choctaw, Clarke, Monroe, and Conecuh Counties. The Hatchetigbee dome subdistrict is in the southern end of the Lime Hills district and is a geologic feature exposing the Tallahata Buhrstone. Interesting habitats develop where streams cut through alluvial sediments down to limestone resulting in stream beds with upland character like the Buhrstone

Hills. Mineral springs occur in the Hatchetigbee area and some are saline due to the presence of salt domes near the surface.

The Dougherty Plain district, or "wiregrass region," extends from the southeast corner of the state west to Conecuh County, forming the eastern edge of the Lime Hills district. It is an extension of an upland in Georgia composed of limestone, sand, and clay. Active solution of the underlying limestone produces many shallow, flat-bottomed depressions. Small headwater streams are noticeably absent from the Dougherty Plain because active solution transfers many of the drainages to underground channels. The name "wiregrass" originates from the common occurrence of needlerush in the wet, shallow depressions.

The Southern Pine Hills district is located in southwest Alabama. Topography is low-relief with broad, rounded ridges and V-shaped valleys with sand and clay sediments. This region is not subject to solution like the Dougherty Plain and the boundary between the two districts is sometimes a distinct escarpment. Flat uplands with shallow ponds, bogs, and marshes occur throughout the district and many of the valleys are saucer-like and perpetually wetted by seepage from nearby hills. The abundance of warm summer rains is a major factor in leaching fertility from the soil and favoring the growth of pines in this region. Streams are well sustained by groundwater flows in summer and are commonly called "blackwater" creeks, particularly in reference to those streams originating in the Pine Hills proper, where the term refers to the natural color imparted by dissolved and suspended organic matter.

Major streams draining the Southern Pine Hills district include the Conecuh and Perdido Rivers, the lower reaches of the Tombigbee and Alabama Rivers, the Mobile-Tensaw River Delta, and the Escatawpa River. The Mobile-Tensaw River Delta is about 40 miles long, averages from 5 to 10 miles wide, and is developed on the alluvial sediments transported down the Tombigbee and Alabama Rivers. It is a large, mature, forested wetland that is tidally influenced during low river flows and transected by numerous small stream channels connecting the larger rivers. The mature swamp habitat prevalent in the upper delta transitions into an emergent type of wetland near the head of Mobile Bay.

Between the Southern Pine Hills district and the Gulf of Mexico lies a narrow strip of land generally less than 5 miles wide consisting of ancient sea-level terraces, dunes, beaches, and barrier islands. The topography is usually flat to gently undulating, underlain by sand and clay deposits. This region contains extensive areas of salt and brackish marsh bordering inland bays and estuaries with the landward border of the district defined by the base of the Pamlico marine scarp.

TOPOGRAPHY

Topography determines both the direction and speed with which water flows over the land surface and determines local microclimatic differences due to changes in elevation and orientation of ridges. Variation in elevation, or relief, plays a direct role in the distribution of aquatic species in several ways. Organisms generally have a range of preference or tolerance for temperature, gradient, and streamflow, and if those conditions are not met then a species will most likely not be present. Streams in upland areas with higher and more variable elevation generally have higher gradients on the order of 5 to 40 feet per mile and generally cooler temperatures, whereas lowland streams flowing over relatively flat topography have gradients less than 5 feet per mile and generally warmer temperatures. Different combinations of gradient, streamflow, substrate type, temperature, water quality, and other habitat parameters allow a rich mosaic of aquatic habitats to develop and various faunal groups exploit these habitats. Study of topographic relief statewide reveals a variety, from the wide valleys in the Tennessee River drainage, the steep parallel slopes in the Valley and Ridge section, the high peaks of the Piedmont section, and the rolling hills of the Coastal Plain section. If drainage basin divides are of similar elevation as upland tributaries, then the opportunity for stream capture of headwater tributaries is high and, with time, possible interbasin faunal exchanges occur. This has happened in several aquatic groups between the upper Tombigbee and upper Black Warrior River systems, the upper Black Warrior River system and the Tennessee River drainage, the Tallapoosa and Chattahoochee River systems, and between the Alabama River system and the coastal drainages. Therefore the study of elevation patterns leads to a better understanding of distribution patterns.

METHODS

In order to focus our sampling efforts on those areas most in need of collection effort, the geo-referenced database assembled by Taylor and Schuster (2007) was used to identify areas where crayfish collections have been made in the past (fig. 3). The first year of this project emphasized sampling in the Cumberland Plateau region, in southeast Alabama, and in other undersampled areas and habitats such as springs, roadside ditches, marshes, swamps, vernal pools, etc., in the state along with the initial development of the GIS project. The second year of the project involved continued sampling of underrepresented regions and unique, poorly collected habitats. The third year involved completion of field sampling, updating the GIS component, and preparation of the final report.

Since there had been fairly complete geographic coverage throughout the history of crayfish sampling in the state (with the earliest recorded collections made in 1882), the next step was to identify areas that have seen little or no sampling efforts in recent years (fig. 4). Figure 4 shows that large areas of the Cumberland Plateau, the Tombigbee River drainage, and the East Gulf Coastal Plain received little sampling effort from 1987-2007. During the first year of sampling for this project (2008) sampling efforts were concentrated in these areas, including the middle and lower portions of the Black Warrior River drainage; much of the Tombigbee River drainage from the Alabama/Mississippi state line to the confluence with the Alabama River, and the upper Alabama River drainage; parts of the Tennessee River drainage; some Coastal Plain drainages.

Our collection efforts involved a variety of methods, employed either separately or in combination, including seines, aquatic dip nets, baited traps, and by hand when sampling burrows or when animals were encountered incidentally and were conducted by GSA staff and coauthors. Seines were employed in pooled habitats and when kicking undercut banks and root masses, or in flowing water when the seine was set facing upstream and the habitat upstream was disturbed. Many collections were aided by a backpack electrofishing unit when crayfish were collected incidental to sampling for fishes. Collection by handheld aquatic dip nets involved sweeping the nets through detritus and other coarse particulate organic matter and undercut banks. Another common

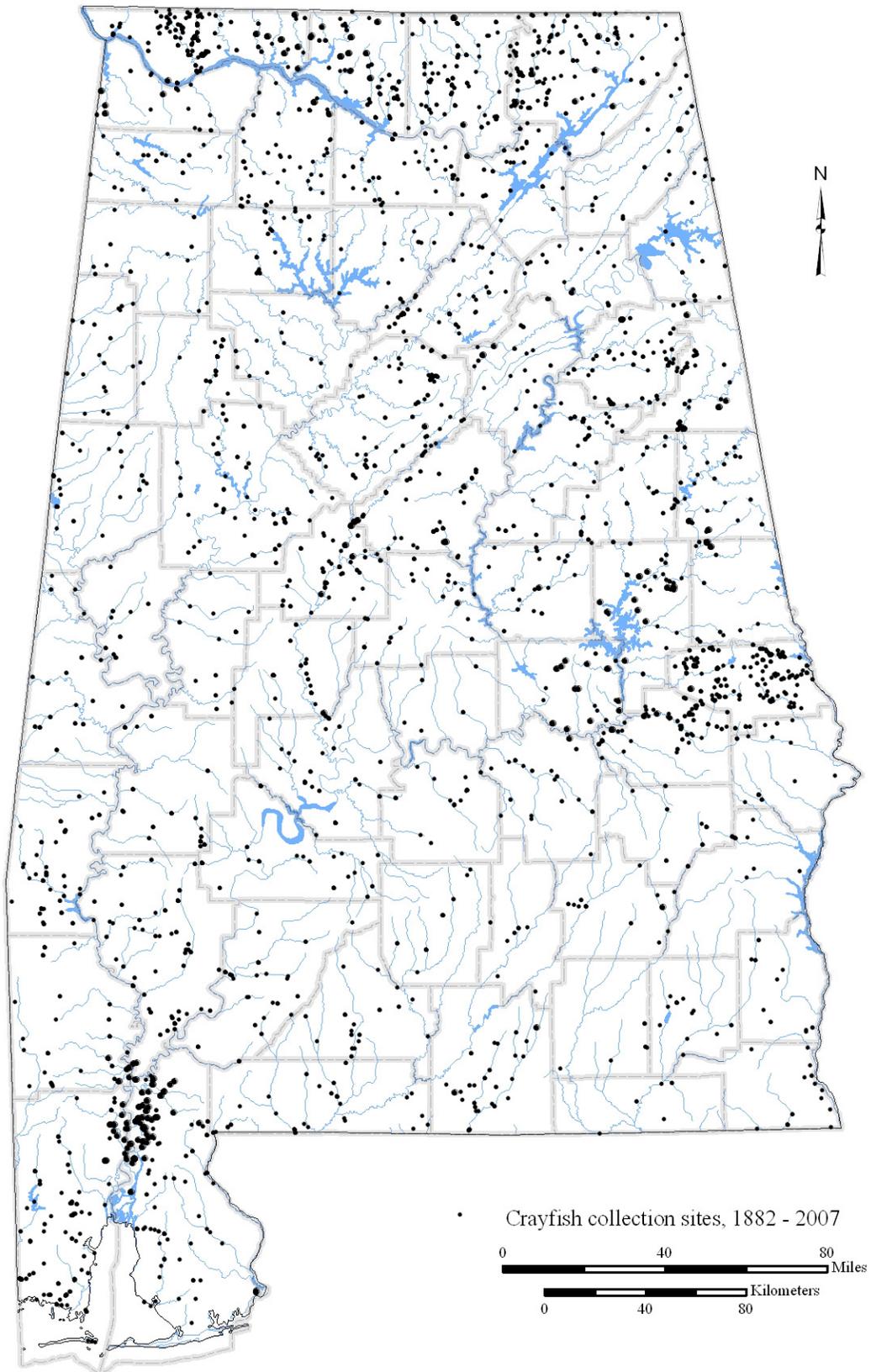


Figure 3. Alabama crayfish collection sites, 1882 - 2007 (Taylor and Schuster, 2007).

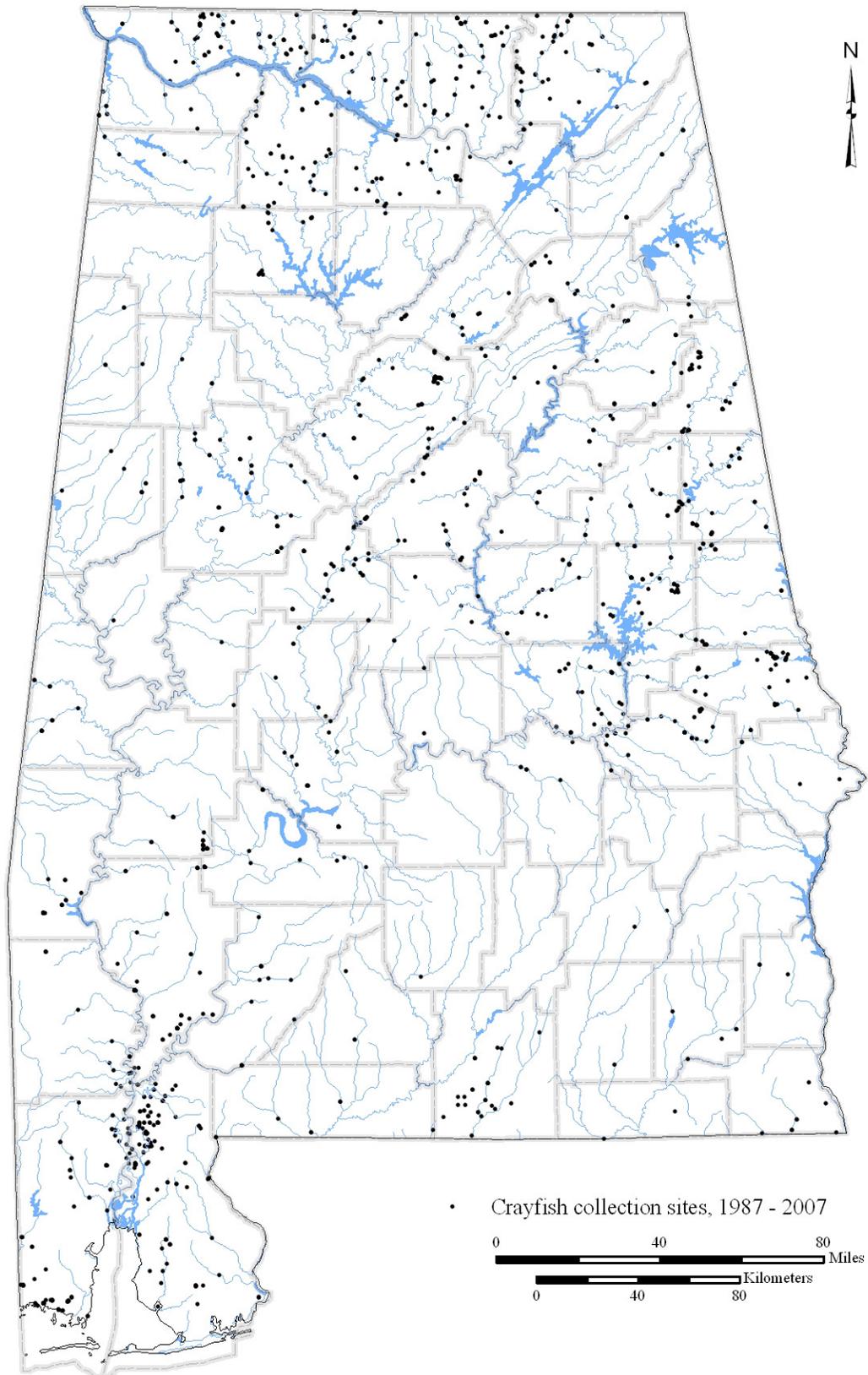


Figure 4. Alabama crayfish collection sites, 1987 - 2007.

method was passive sampling using minnow/crayfish traps, usually baited with cat food, a commercial crayfish bait, or other pungent bait. These traps were usually set near bridge crossings or other access points but discretely hidden to avoid human disturbance, marked with flagging tape, and anchored with stout line at depths of usually 1 to 4 feet. The traps were then checked and retrieved after a period of 3 to 10 days. In areas of burrowing crayfish habitat, hand digging of fresh crayfish burrows (burrows that showed recent burrowing activity indicated by wet mud at the opening) proved to be the most effective sampling method. This is a laborious process, which partly accounts for the paucity of records of primary burrowers (those whose life cycles are completed in and around burrows often away from permanent surface water) and burrowers in general. Occasionally burrowing crayfish nets were used, as described in Welch and Eversole (2006). Although this technique saves the process of excavating a burrow by hand, it demands return visits to the same location and our attempts using this method were relatively few (<20 traps set) and none of the traps yielded specimens. No collections were made in caves by GSA personnel but some material collected from caves by other researchers was donated to this study. These records are included on maps and in the database.

For the vast majority of collections made, initial preservation was accomplished by immersion of live or fresh dead specimens in 70 percent ethanol. Since this solution becomes diluted with water from the specimens' gill chambers, this initial preservative was replaced in the lab by fresh 70 percent ethanol after a period of 3 to 10 days. For a minority of crayfish collections made incidentally while conducting fish sampling, initial preservation occurred in 10 percent formalin with later transfer to 70 percent ethanol.

These preserved specimens (and a few live specimens kept for photographs and tissue collection) were identified by authors Schuster and Taylor. With the exception of a few specimens retained for taxonomic analysis by Schuster and Taylor, identified specimens were returned to the GSA, transferred to museum-quality glass jars, and were placed into storage at GSA. Upon project completion and submission of the final report, the crayfish material will be transferred to the University of Alabama Decapod Collection. A reference collection (consisting of a few specimens from each species) will

be retained by GSA, and a similar collection will be retained by ECU and the INHS, especially those taxa awaiting formal description or genetic analysis.

The geo-referenced crayfish database created by Taylor and Schuster (2007) under contract to ADCNR was incorporated into the GIS mapping component of this project. This component includes the statewide database of crayfish collections developed by Schuster and Taylor (2004) and subsequent crayfish collections obtained for this study. This data will be incorporated into the State Lands Division Heritage Database. In addition, these data, along with physiographic information, were used to generate the distribution maps in this report.

The following definitions of conservation priority follow Mirarchi (2004) and are applied herein to various crayfish taxa:

P1 Highest Conservation Priority: Species critically imperiled and at risk of extinction/extirpation because of extreme rarity, restricted distribution, decreasing population trend/population viability problems, and specialized habitat needs/habitat vulnerability due to natural/human-caused factors. **Immediate research and/or conservation action required.**

P2 High Conservation Priority: Species imperiled because of three of four of the following: rarity; very limited, disjunct, or peripheral distribution; decreasing population trend/population viability problems; specialized habitat needs/habitat vulnerability due to natural/human-caused factors. **Timely research and/or conservation action needed.**

P3 Moderate Conservation Priority: Species with conservation problems because of insufficient data **or** because of two of four of the following: small populations; limited, disjunct, or peripheral distribution; decreasing population trend/population viability problems; specialized habitat needs/habitat vulnerability due to natural/human-caused factors. **Research and/or conservation action recommended.**

P4 Low Conservation Priority: Species that are secure, yet conservation concerns exist because of one of four of the following: relative abundance; limited, disjunct, or peripheral distribution; decreasing population trend/population viability problems; specialized habitat needs/increasing habitat vulnerability due to natural/human-caused factors. **Research on specific problem suggested.**

P5 Lowest Conservation Priority: Species that are demonstrably secure, with size of population stable/increasing, geographical distribution stable/expanding, population trend/population viability stable/increasing; relatively limited vulnerability due to natural/human-caused factors, **or** an unusual visitor to the state. **No specific monitoring or conservation action needed.**

RESULTS

A total of 767 locations were sampled statewide during the period 1 January 2008 through 31 August 2010 (appendix A). Approximately 55 percent of these samples were collected from the Mobile River basin, 32 percent from the Tennessee River drainage, and 13 percent from the Coastal Plain drainages. The majority of these collections were made by GSA staff and Schuster and Taylor; however, some were collected by personnel from other agencies and donated to this project and are included in the distribution maps and the master database. Figure 5 shows the 2008 crayfish collections made by GSA staff and Schuster and Taylor and those specimens collected and donated to GSA by other agencies. Sampling continued during 2009, as shown in figure 6, and figure 7 shows the results of the cumulative collection efforts from 2008-2010, including numerous collections in the Coosa and Tallapoosa River systems. Figure 8 shows the distribution of all known sampling sites from 1882-2010. A total of 64 out of the 85 total described species were collected during this project.

Collections made during this study are illustrated on the distribution maps by red dots and those from previous collections by black dots. Where a station was sampled before this project and that station was sampled again during this project, preference was given to the current project and therefore red dots may overlay black dots.

In the most recently published checklist, Schuster and others (2008) described the Alabama crayfish fauna as containing 85 described species, with only *Orconectes virilis* considered non-native; however, subsequent reexamination of specimens suggests that *Fallicambarus oryktes*, *Orconectes placidus*, and *Procambarus zonangulus* should not be considered part of the state fauna at this time (see Discussion below). Buhay and Crandall (2009) recently described two new cave species, *Cambarus laconensis* and *C. speleocoopi*, which, along with the recent discovery of *Barbicambarus simmonsii*, maintains the current total number of crayfish species in Alabama at 85.

Table 1 shows all Alabama crayfish species listed by drainage and includes provisional Greatest Conservation Need (GCN) rankings. Sixty of these species we have provisionally ranked as highest (P1), high (P2), and moderate (P3) conservation concern in the state. This ranking is based on Mirarchi (2004) and best professional judgment using dated information from museums and recent work, including Taylor and others

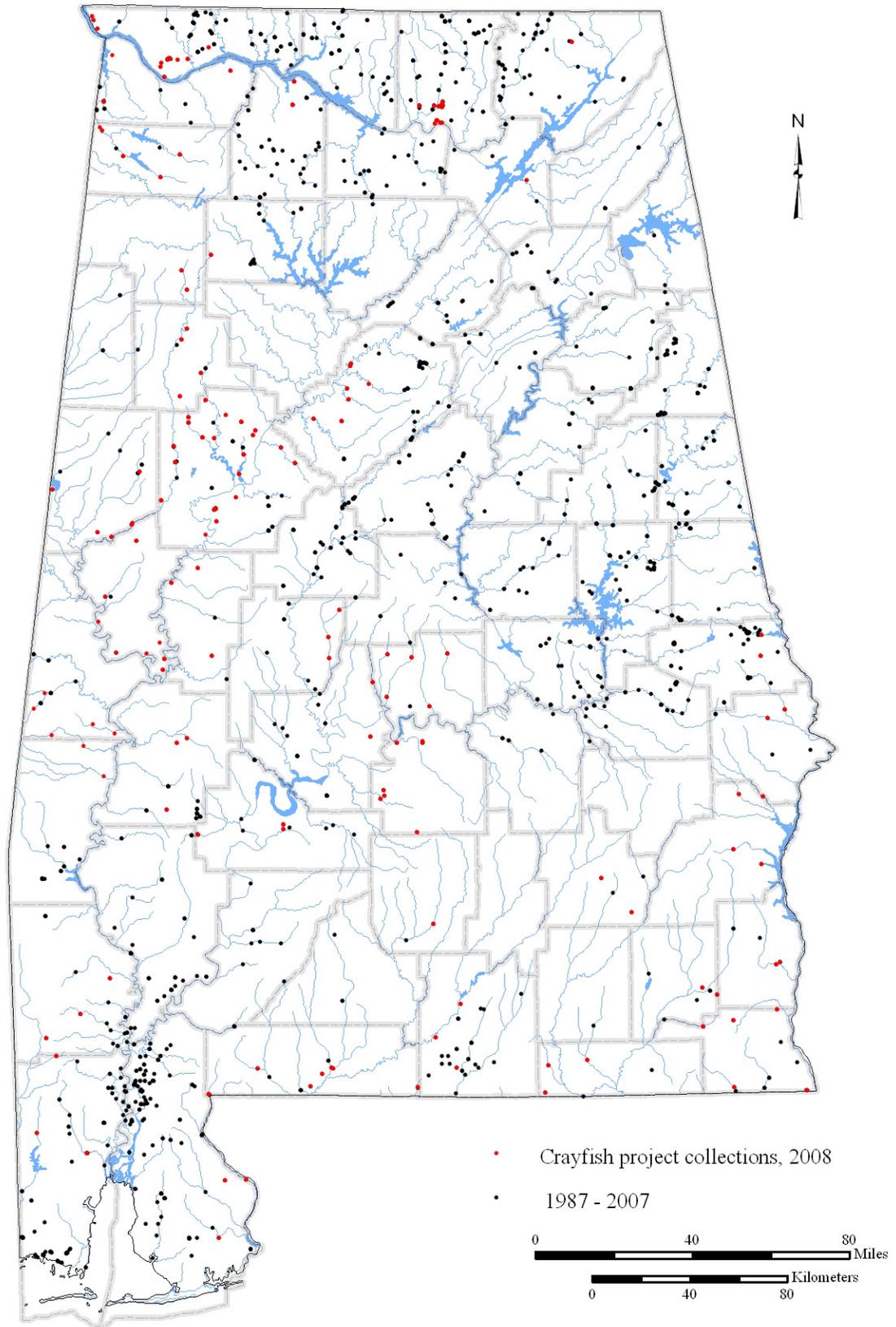


Figure 5. Alabama crayfish collection sites, 1987 - 2008.

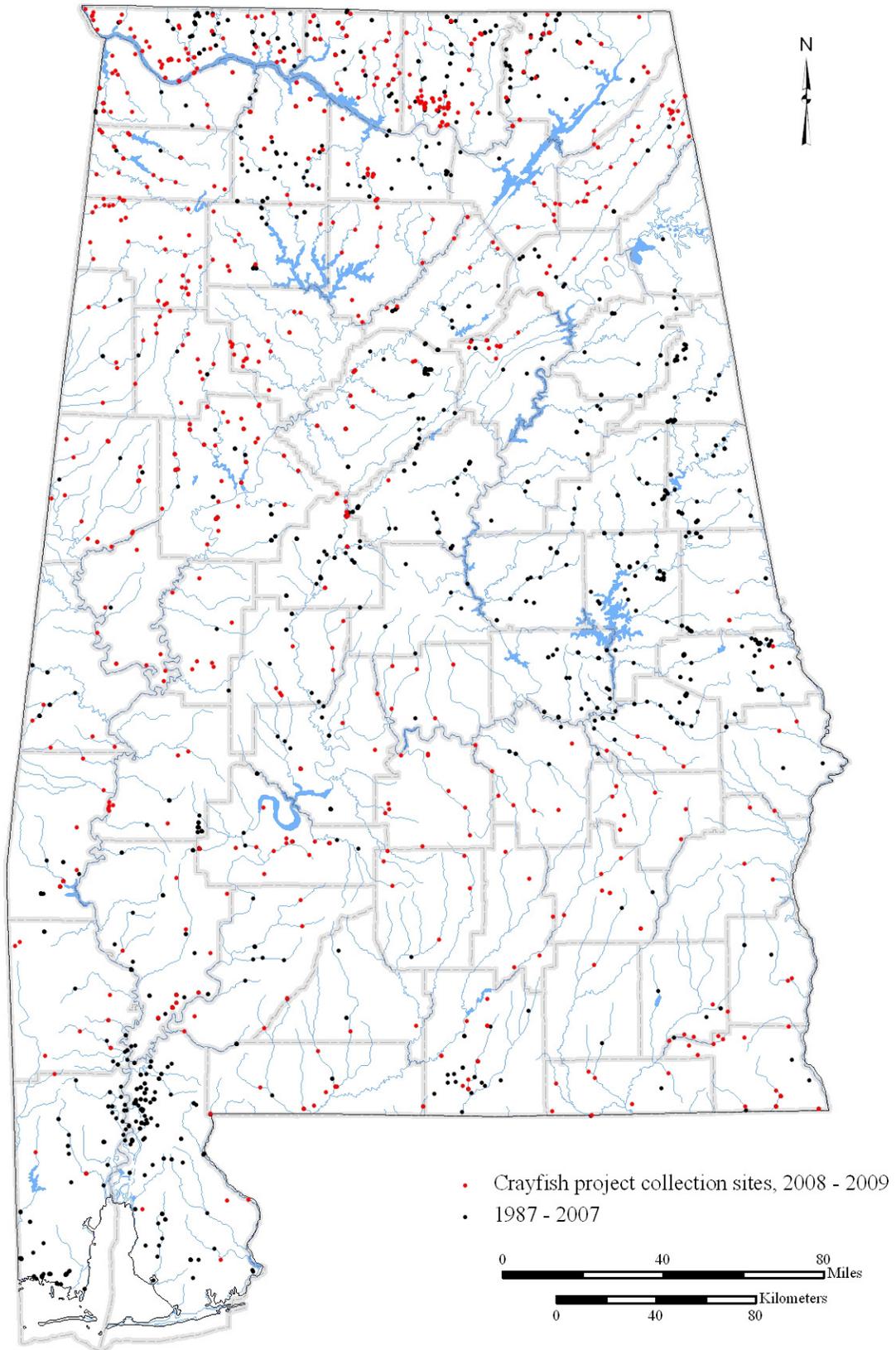


Figure 6. Alabama crayfish collection sites, 1987 - 2009.

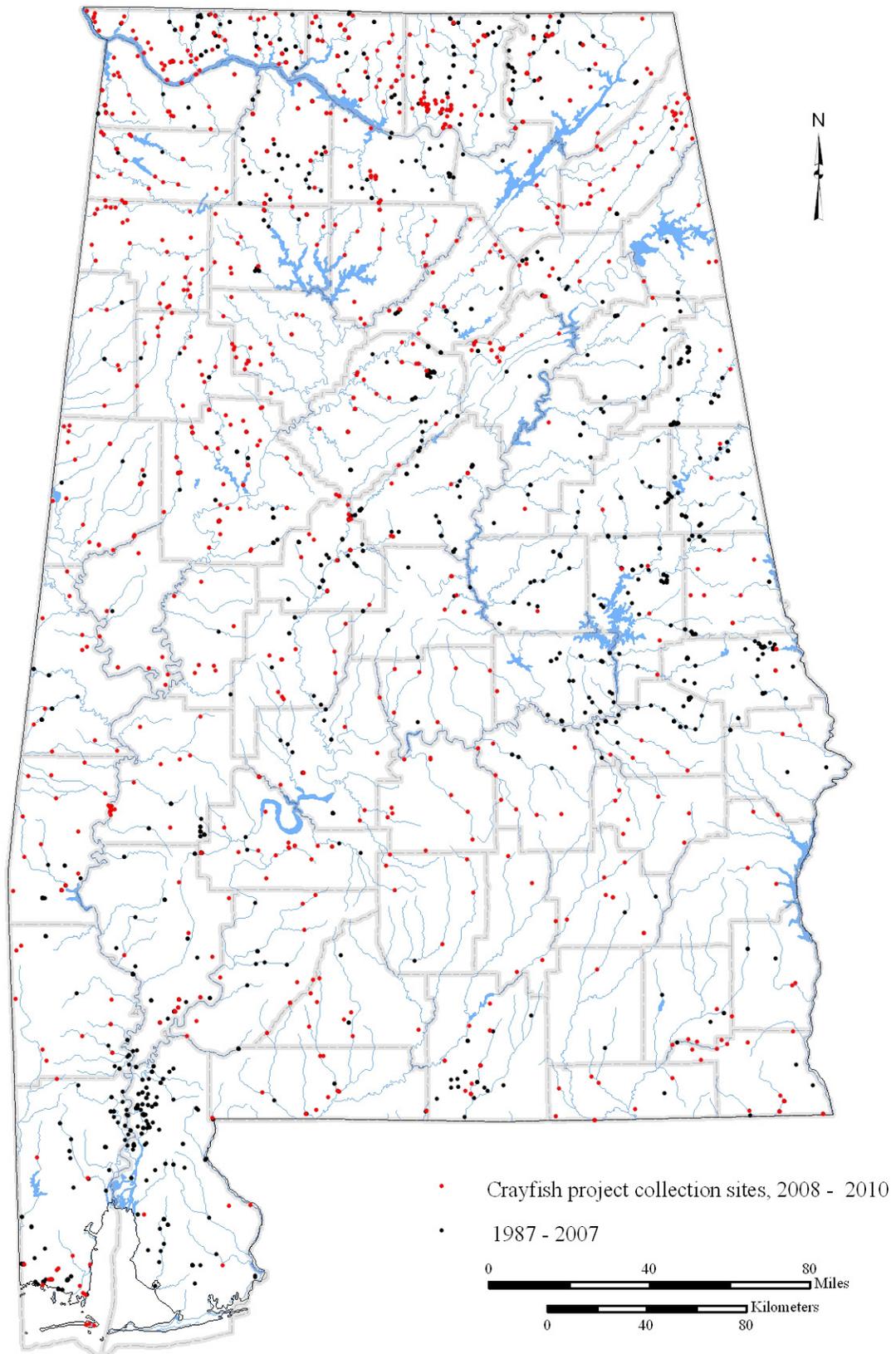


Figure 7. Alabama crayfish collection sites, 1987 - 2010.

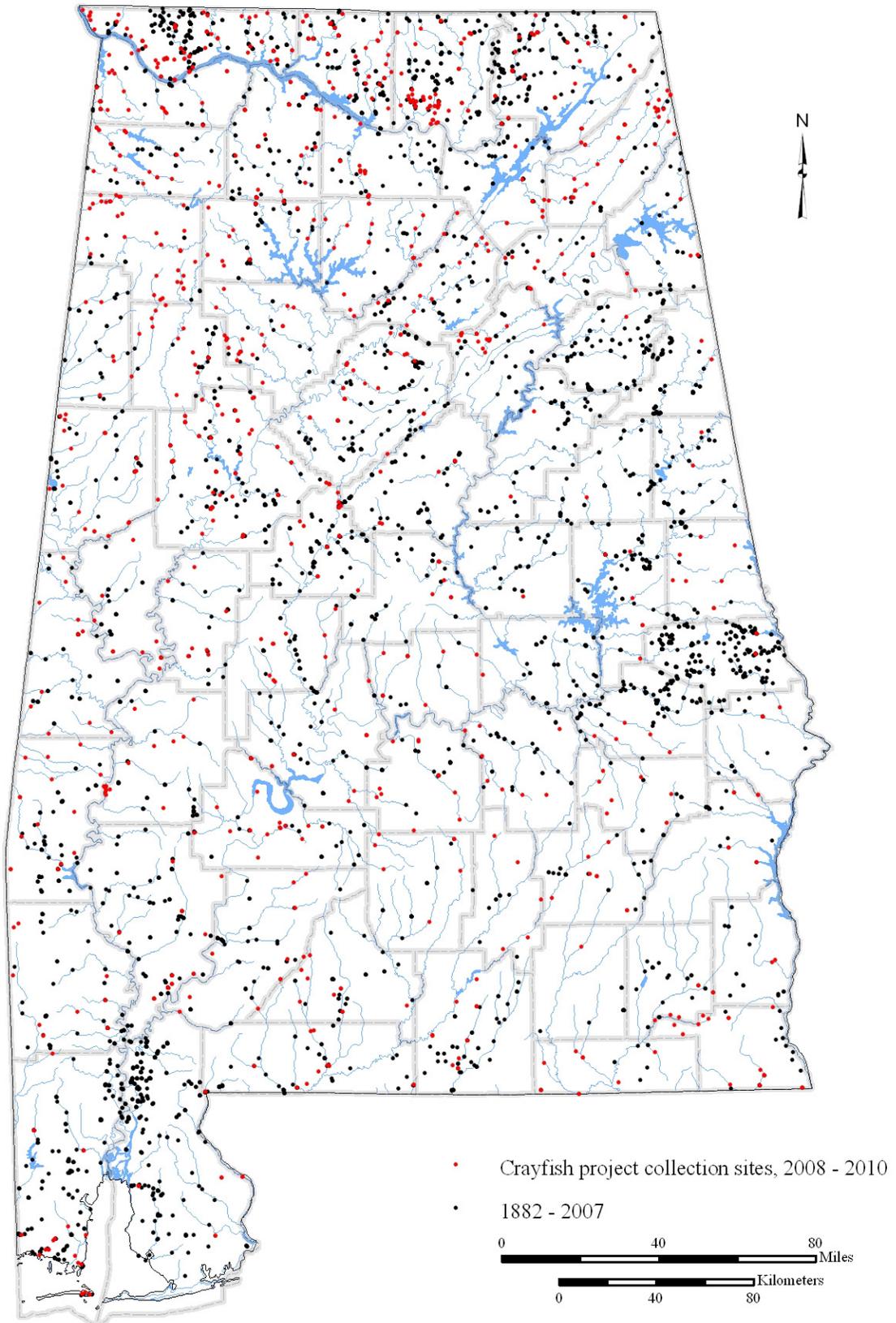


Figure 8. Alabama crayfish collection sites, 1882 - 2010.

Table 1. Crayfish species by drainage group and river system

<i>Species - common name</i>	Drainage Group and River Systems ¹																Habitat ³	Status ⁴		
	TR	MS	Mobile Basin								Coastal Rivers (west to east)							AFS	Rec.	
			MD	LT	UT	BW	AL	CA	CO	TA	ES	PE	CN	BL	YE	CH				CP
<i>Barbicambarus simmonsii</i> , Tennessee Bottlebrush Crayfish	N ²	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	--	P2
<i>Cambarellus diminutus</i> , Least Crayfish	--	N	N	--	--	--	--	--	--	--	N	--	--	--	--	--	--	Le	T	P2
<i>Cambarellus lesliei</i> , Angular Dwarf Crawfish	--	--	N	N	--	--	N	--	--	--	--	--	--	--	--	--	--	Le	T	P3
<i>Cambarellus shufeldtii</i> , Cajun Dwarf Crayfish	--	N	N	--	--	--	--	--	--	--	N	--	--	--	--	--	--	Le	T	P2
<i>Cambarus acanthura</i> , Thornytail Crayfish	N	--	--	--	--	N	--	N	N	--	--	--	--	--	--	--	--	PB	CS	P4
<i>Cambarus bartonii cavatus</i> , Appalachian Brook Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P3
<i>Cambarus coosae</i> , Coosa Crayfish	--	--	--	--	--	--	--	N	N	--	--	--	--	--	--	--	--	Lo	CS	P4
<i>Cambarus cracens</i> , Slenderclaw Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	E	P1
<i>Cambarus diogenes</i> , Devil Crayfish	--	--	N	N	N	N	N	N	N	--	N	N	--	--	N	--	--	Lo,PB,SB	CS	P5
<i>Cambarus distans</i> , Boxclaw Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P1
<i>Cambarus englishi</i> , Tallapoosa Crayfish	--	--	--	--	--	--	--	--	--	N	--	--	--	--	--	--	--	Lo	SC	P2
<i>Cambarus girardianus</i> , Tanback Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P4
<i>Cambarus graysoni</i> , Twospot Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P5
<i>Cambarus halli</i> , Slackwater Crayfish	--	--	--	--	--	--	--	--	--	N	--	--	--	--	--	--	--	Lo	SC	P2
<i>Cambarus hamulatus</i> , Prickly Cave Crayfish	N	--	--	--	--	N	--	--	--	--	--	--	--	--	--	--	--	C	CS	P3
<i>Cambarus howardi</i> , Chattahoochee Crayfish	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N	Lo	SC	P3
<i>Cambarus jonesi</i> , Alabama Cave Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	C	CS	P3
<i>Cambarus laconensis</i> , Lacon Exit Cave Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	C	--	P1
<i>Cambarus latimanus</i> , Variable Crayfish	N	--	--	--	N	N	N	N	N	N	--	--	N	--	--	N	--	Lo	CS	P4
<i>Cambarus longirostris</i> , Longnose Crayfish	N	--	--	--	--	--	--	--	N	--	--	--	--	--	--	--	--	Lo	CS	P2
<i>Cambarus ludovicianus</i> , Painted Devil Crayfish	--	--	N	--	N	N	N	N	--	--	--	--	--	--	--	--	--	PB	CS	P3
<i>Cambarus manningi</i> , Greensaddle Crayfish	--	--	--	--	--	--	--	--	N	--	--	--	--	--	--	--	--	Lo	CS	P2
<i>Cambarus miltus</i> , Rusty Grave Digger	--	--	N	--	--	--	--	--	--	--	--	N	--	--	N	--	--	PB	T	P3
<i>Cambarus obstipus</i> , Sloped Crayfish	--	--	--	--	N	N	--	--	--	--	--	--	--	--	--	--	--	Lo	SC	P5
<i>Cambarus parvoculus</i> , Mountain Midget Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P2
<i>Cambarus pecki</i> , Phantom Cave Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	C	E	P2
<i>Cambarus polychromatus</i> , Painted Mudbug	--	--	--	--	N	N	N	N	--	N	--	--	N	--	--	N	--	PB, SB	--	P3

<i>Species - common name</i>	Drainage Group and River Systems ¹																Habitat ³	Status ⁴		
	TR	MS	Mobile Basin								Coastal Rivers (west to east)							AFS	Rec.	
			MD	LT	UT	BW	AL	CA	CO	TA	ES	PE	CN	BL	YE	CH				CP
<i>Cambarus rusticiformis</i> , Depression Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P2
<i>Cambarus scotti</i> , Chattooga River Crayfish	--	--	--	--	--	--	--	--	--	N	--	--	--	--	--	--	--	Lo	T	P4
<i>Cambarus speleocoopi</i> , Sweet Home Alabama Cave Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	C	--	P2
<i>Cambarus striatus</i> , Ambiguous Crayfish	N	--	--	N	N	N	N	N	N	N	--	--	N	--	--	N	--	Lo,PB,SB	CS	P5
<i>Cambarus tenebrosus</i> , Cavespring Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	C, Lo	CS	P3
<i>Cambarus unestami</i> , Blackbarred Crayfish	N	--	--	--	--	--	--	--	--	N	--	--	--	--	--	--	--	Lo	T	P2
<i>Cambarus veitchorum</i> , White Spring Cave Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	C	--	P1
<i>Fallicambarus burrisi</i> , Burrowing Bog Crayfish	--	--	--	--	--	--	--	--	--	--	N	N	--	--	--	--	--	PB	T	P2
<i>Fallicambarus byersi</i> , Lavender Burrowing Crayfish	--	--	--	--	--	--	--	--	--	--	N	N	N	--	--	--	--	PB	CS	P2
<i>Fallicambarus danielae</i> , Speckled Burrowing Crayfish	--	N	N	--	--	--	N	--	--	--	N	--	--	--	--	--	--	PB	T	P3
<i>Fallicambarus fodiens</i> , Digger Crayfish	N	--	--	N	N	N	N	N	--	N	--	N	N	--	--	--	N	PB	CS	P5
<i>Faxonella clypeata</i> , Ditch Fencing Crayfish	--	N	N	N	--	--	N	--	--	--	N	--	N	N	--	N	N	Le	CS	P3
<i>Hobbseus prominens</i> , Prominence Riverlet Crayfish	--	--	--	N	N	N	N	N	--	--	--	--	--	--	--	--	--	Le	CS	P2
<i>Orconectes alabamensis</i> , Alabama Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	SC	P4
<i>Orconectes australis</i> , Southern Cave Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	C	CS	P2
<i>Orconectes chickasawae</i> , Chickasaw Crayfish	--	--	--	N	N	N	N	N	--	--	--	--	--	--	--	--	--	Lo	CS	P3
<i>Orconectes compressus</i> , Slender Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P4
<i>Orconectes cooperi</i> , Flint River Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	E	P2
<i>Orconectes durelli</i> , Saddle Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P3
<i>Orconectes erichsonianus</i> , Reticulate Crayfish	N	--	--	--	--	N	--	N	N	N	--	--	--	--	--	--	--	Lo	CS	P5
<i>Orconectes forceps</i> , Surgeon Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P4
<i>Orconectes holti</i> , Bimaculate Crayfish	--	--	--	N	N	N	N	--	--	--	--	--	N	--	--	--	--	Lo	T	P3
<i>Orconectes jonesi</i> , Sucarnoochee River Crayfish	--	--	--	N	N	--	N	N	--	--	--	--	--	--	--	--	--	Lo	T	P3
<i>Orconectes lancifer</i> , Shrimp Crayfish	--	--	N	--	--	--	N	--	--	--	--	--	--	--	--	--	--	Le	CS	P2
<i>Orconectes mirus</i> , Wonderful Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P4
<i>Orconectes perfectus</i> , Complete Crayfish	--	--	--	N	N	N	N	--	--	N	--	--	--	--	--	--	--	Lo	CS	P5

Table 1. Crayfish species by drainage group and river system.

Species - common name	Drainage Group and River Systems ¹																Habitat ³	Status ⁴		
	TR	MS	Mobile Basin								Coastal Rivers (west to east)							AFS	Rec.	
			MD	LT	UT	BW	AL	CA	CO	TA	ES	PE	CN	BL	YE	CH				CP
<i>Orconectes putnami</i> , Phallic Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P2
<i>Orconectes sheltae</i> , Shelta Cave Crayfish	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	C	--	P1
<i>Orconectes spinosus</i> , Coosa River Spiny Crayfish	N	--	--	--	--	--	--	N	N	--	--	--	--	--	--	--	--	Lo	CS	P4
<i>Orconectes validus</i> , Powerful Crayfish	N	--	--	--	N	N	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P5
<i>Orconectes virilis</i> , Virile Crayfish	I	--	--	--	--	I	--	I	I	I	--	--	--	--	--	--	--	Le,Lo	--	P5
<i>Procambarus acutissimus</i> , Sharpnose Crayfish	--	--	--	N	N	N	N	N	N	N	--	--	--	--	--	--	--	Le,Lo	CS	P5
<i>Procambarus acutus</i> , White River Crawfish	N	--	N	N	N	N	N	--	N	N	N	--	N	--	N	--	--	Le,Lo	CS	P5
<i>Procambarus bivittatus</i> , Ribbon Crayfish	--	--	N	N	--	--	N	--	--	--	--	--	--	--	--	--	--	Le,Lo	CS	P3
<i>Procambarus capillatus</i> , Capillaceous Crayfish	--	--	--	--	--	--	--	--	--	--	--	--	N	--	--	--	--	Le, PB	CS	P2
<i>Procambarus clarkii</i> , Red Swamp Crawfish	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I	--	--	--	--	--	Le,Lo	CS	P5
<i>Procambarus clemmeri</i> , Cockscomb Crayfish	--	--	--	N	--	--	--	--	--	--	N	--	--	N	--	--	--	Lo	CS	P2
<i>Procambarus escambiensis</i> , Escambia Crayfish	--	--	--	--	--	--	--	--	--	--	--	N	N	--	--	--	--	Le,Lo,SB	E	P2
<i>Procambarus evermanni</i> , Panhandle Crayfish	--	N	N	--	--	--	N	--	--	--	N	--	--	--	--	--	--	Lo	CS	P2
<i>Procambarus h. hagenianus</i> , Southeastern Prairie Crayfish	--	--	--	--	N	--	--	--	--	--	--	--	--	--	--	--	--	PB	CS	P1
<i>Procambarus hayi</i> , Straightedge Crayfish	--	--	--	--	N	--	--	--	--	--	--	--	--	--	--	--	--	Le,Lo	CS	P1
<i>Procambarus hubbelli</i> , Jackknife Crayfish	--	--	--	--	--	--	--	--	--	--	--	--	--	N	N	N	--	Le,SB	CS	P2
<i>Procambarus hybus</i> , Smoothnose Crayfish	--	--	--	N	N	N	--	N	--	--	--	--	--	--	--	--	--	Le,SB	CS	P2
<i>Procambarus lagniappe</i> , Lagniappe Crayfish	--	--	--	N	--	--	--	--	--	--	--	--	--	--	--	--	--	Lo	T	P2
<i>Procambarus lecontei</i> , Mobile Crayfish	--	N	N	N	--	--	--	--	--	--	N	--	--	--	--	--	--	Lo	SC	P2
<i>Procambarus lewisi</i> , Spur Crayfish	--	--	--	--	--	--	N	--	--	N	--	--	N	--	--	--	N	Le,Lo	SC	P2
<i>Procambarus lophotus</i> , Mane Crayfish	N	--	--	N	N	N	N	N	N	N	--	--	N	--	N	--	--	Le,Lo	CS	P3
<i>Procambarus marthae</i> , Crisscross Crayfish	--	--	--	--	--	N	N	N	--	--	--	--	--	--	--	--	--	Le,Lo	SC	P2
<i>Procambarus okaloosae</i> , Okaloosa Crayfish	--	--	--	--	--	--	--	--	--	--	--	N	N	--	N	--	--	Le,Lo	CS	P2
<i>Procambarus paeninsulanus</i> , Peninsula Crayfish	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N	N	Le,Lo	CS	P3

Species - common name	Drainage Group and River Systems ¹																	Habitat ³	Status ⁴	
	TR	MS	Mobile Basin							Coastal Rivers (west to east)							AFS		Rec.	
			MD	LT	UT	BW	AL	CA	CO	TA	ES	PE	CN	BL	YE	CH				CP
<i>Procambarus penni</i> , Pearl Blackwater Crayfish	--	--	--	N	--	--	N	--	--	--	N	--	--	--	--	--	--	Lo	V	P3
<i>Procambarus shermani</i> , Gulf Crayfish	--	--	N	N	--	--	N	--	--	--	N	--	--	--	--	--	--	Le,Lo	CS	P3
<i>Procambarus spiculifer</i> , White Tubercled Crayfish	--	--	N	N	--	N	--	N	N	N	N	N	--	N	N	N	N	Lo	CS	P5
<i>Procambarus suttkusi</i> , Choctawhatchee Crayfish	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N	--	--	Lo	SC	P4
<i>Procambarus verrucosus</i> , Grainy Crayfish	--	--	--	--	--	--	--	--	--	N	--	--	--	--	N	--	N	Lo	CS	P3
<i>Procambarus versutus</i> , Sly Crayfish	--	--	N	N	--	N	N	N	N	N	N	N	N	N	N	--	N	Lo	CS	P5
<i>Procambarus viaeviridis</i> , Vernal Crayfish	N	--	--	--	--	N	--	--	--	--	--	--	--	--	--	--	--	Le,Lo	CS	P1
<i>Procambarus vioscai paynei</i> , Payne's Creek Crayfish	--	--	--	N	N	N	--	--	--	--	--	--	--	--	--	--	--	Lo	CS	P3

¹ AL-Alabama, BL-Blackwater, BW-Black Warrior, CA-Cahaba, CH-Choctawhatchee, CN-Conecuh, CO-Coosa, CP-Chipola, CT-Chattahoochee, ES-Escatawpa, LT-Lower Tombigbee

MD-Mobile Delta- Mobile Bay tributaries, MS-Mississippi Sound, PE-Perdido, TA-Tallahpoosa, TR-Tennessee, UT-Upper Tombigbee, YE-Yellow

² I-Introduced, N-Native

³ C-cave, Le-lentic, Lo-lotic, PB-primary burrower, SB-secondary burrower

⁴ Conservation status; AFS-American Fisheries Society (Taylor and others, 2007), Rec.-Recommended in this report.

(1996), Schuster and Taylor (2004), Taylor and Schuster (2007), Schuster and others (2008), as well as the data collected during this study. A limited number of sampling efforts were conducted at locations which have been sampled for crayfishes one or more times historically and the results of this comparison are found in Appendix C. The species collected during this study are briefly compared to those collected in previous efforts. While no conclusions can be obtained by these comparisons with any degree of quantitative robustness, it does show how visits to the same location by different researchers on different dates can yield different collection results. Whether this represents effects of varying sampling effort, thoroughness, techniques, gear, and/or microhabitat-targeted, or long-term changes in species composition is a question for further study.

SPECIES ACCOUNTS

The 85 currently described crayfish species in Alabama are represented by 29 subgenera, 7 genera, and 2 subfamilies. Only one species, *Orconectes virilis*, is known to be introduced, although *Procambarus clarkii* may be spreading beyond its native range due to its popularity in aquaculture. At least 11 additional species are currently awaiting formal descriptions and other undescribed taxa may yet be discovered, eventually leading to perhaps as many as 100 species for the state. In the following species accounts, genera are listed alphabetically within subfamilies, and species are listed alphabetically within genera. Range information is for Alabama only. For detailed location information on recent project collections see appendix A. Much of the information below is adapted from Schuster and others (2008).

Family: Cambaridae

Subfamily: Cambarellinae

Genus: *Cambarellus*

Cambarellus diminutus Hobbs 1945; Least Crayfish

Habitat: Lentic

Distribution in Alabama: Escatawpa River system and Mobile Bay and Mississippi Sound tributaries.

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Threatened; P2.

Cambarellus lesliei Fitzpatrick and Laning 1976; Angular Dwarf Crayfish
Habitat: Lentic
Distribution in Alabama: lower Alabama and lower Tombigbee River systems, the Mobile-Tensaw Delta, and Mobile Bay tributaries.
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS Threatened; P3.

Cambarellus shufeldtii (Faxon 1884); Cajun Dwarf Crayfish
Habitat: Lentic
Distribution in Alabama: Escatawpa River system, and Mobile Bay and Mississippi Sound tributaries.
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS Currently Stable; P2.

Subfamily: Cambarinae

Genus: *Barbicambarus*

Barbicambarus simmonsii Taylor and Schuster 2010; Tennessee Bottlebrush Crayfish
Habitat: Lotic
Distribution in Alabama: Tennessee River drainage.
Recent Collections: Specimens collected in Shoal Creek at Goose Shoals, Tennessee River drainage, Lauderdale County, represent the first record of this species and genus in Alabama.
Conservation Status: As this is a newly described species, no designation of a previous Alabama status is available. Based on its strict habitat requirements (under large boulders and slab rocks in relatively deep, fast water) and its peripheral range, it is provisionally given a P2 conservation ranking.

Genus: *Cambarus*

Cambarus acanthura Hobbs 1981; Thornytail Crayfish
Distribution in Alabama: Black Warrior, Cahaba, and Coosa River systems, and the Tennessee River drainage.
Habitat: Primary and Secondary Burrower
Recent Collections: Specimens were collected in the Coosa River system and Tennessee River drainage during this study.
Conservation Status: AFS Currently Stable; P4.

Cambarus bartonii cavatus (Hay 1902); Appalachian Brook Crayfish
Distribution in Alabama: Tennessee River drainage.
Habitat: Lotic
Recent Collections: Specimens were collected in the Tennessee River drainage during this study.
Conservation Status: AFS Currently Stable; P3.

Cambarus coosae Hobbs 1981; Coosa Crayfish
Distribution in Alabama: Cahaba and Coosa River systems.
Habitat: Lotic
Recent Collections: Specimens were collected in the Cahaba and Coosa River systems during this study.
Conservation Status: AFS Currently Stable; P4.

Cambarus cracens Bouchard and Hobbs 1976; Slenderclaw Crayfish
Distribution in Alabama: Tennessee River drainage.
Habitat: Lotic
Recent Collections: Despite intensive effort targeting this species, only a few specimens were collected at one location in the Tennessee River drainage during this study.
Conservation Status: Alabama Endemic; AFS Endangered; P1.

Cambarus diogenes Girard 1852; Devil Crayfish
Distribution in Alabama: Alabama River drainage, Black Warrior, Cahaba, Choctawhatchee, Conecuh, Coosa, Tallapoosa, and upper and lower Tombigbee River systems, and Mobile Bay tributaries.
Habitat: Lotic; Primary and Secondary Burrower
Recent Collections: Specimens were collected in the Alabama, Black Warrior, Conecuh, Tallapoosa, and upper and lower Tombigbee River systems during this study.
Conservation Status: AFS Currently Stable; P5.

Cambarus distans Rhoades 1944; Boxclaw Crayfish
Distribution in Alabama: Tennessee River drainage.
Habitat: Lotic
Recent Collections: Despite intensive effort targeting this species, no specimens were collected during this study.
Conservation Status: AFS Currently Stable; P1.

Cambarus englishi Hobbs and Hall 1972; Tallapoosa Crayfish
Distribution in Alabama: Tallapoosa River system.
Habitat: Lotic
Recent Collections: Specimens were collected in the Tallapoosa River system during this study.
Conservation Status: AFS Special Concern; P2.

Cambarus girardianus Faxon 1884; Tanback Crayfish
Distribution in Alabama: Tennessee River drainage.
Habitat: Lotic
Recent Collections: Specimens were collected in the Tennessee River drainage during this study.
Conservation Status: AFS Currently Stable; P4.

Cambarus graysoni Faxon 1914; Twospot Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: Previously known only from the Elk and upper Flint River systems in Alabama, a significant increase in the range of this species within the state was documented across the Tennessee River drainage during this study. It should be noted that in a recent Special Issue of *Southeastern Naturalist*, Stewart and others (2010) listed *C. graysoni* as being one of the most dominant species in the Choctawhatchee, Pea, and Yellow Rivers, and Patsaliga Creek in southeastern Alabama. This identification is probably in error. One reference specimen (courtesy of Dr. Michael Stewart of Troy University) from that study was re-identified by Schuster as *C. latimanus*. It is possible that the remainder of their reported *C. graysoni* specimens were either *C. striatus* or *C. latimanus*, both of which are common species in Alabama. These three species are sometimes difficult to separate. This species is only known from the Tennessee River drainage in Alabama.

Conservation Status: AFS Currently Stable; P5.

Cambarus halli Hobbs 1968; Slackwater Crayfish

Distribution in Alabama: Tallapoosa River system.

Habitat: Lotic

Recent Collections: Specimens were collected in the Tallapoosa River system during this study.

Conservation Status: AFS Special Concern; P2.

Cambarus hamulatus (Cope 1881); Prickly Cave Crayfish

Distribution in Alabama: Black Warrior River system and Tennessee River drainage.

Habitat: Caves

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Currently Stable; P3.

Cambarus howardi Hobbs and Hall 1969; Chattahoochee Crayfish

Distribution in Alabama: Chattahoochee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Chattahoochee River drainage during this study.

Conservation Status: AFS Special Concern; P3.

Cambarus jonesi Hobbs and Barr 1960; Alabama Cave Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Caves

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Currently Stable; P3.

Cambarus laconensis Buhay and Crandall 2009; Lacon Exit Cave Crayfish
Distribution in Alabama: Tennessee River drainage.

Habitat: Caves

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Unlisted; P1.

Cambarus latimanus LeConte 1856; Variable Crayfish

Distribution in Alabama: Alabama, Black Warrior, Cahaba, Chattahoochee, Conecuh, Coosa, Choctawhatchee, Tallapoosa, and Tombigbee River systems, and Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Chattahoochee, Conecuh, Coosa, Tallapoosa River systems, and Tennessee drainage during this study.

Conservation Status: AFS Currently Stable; P4.

Cambarus longirostris Faxon 1885; Longnose Crayfish

Distribution in Alabama: Coosa River system and Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Coosa River system and Tennessee River drainage during this study.

Conservation Status: AFS Currently Stable; P2.

Cambarus ludovicianus Faxon 1884; Painted Devil Crayfish

Distribution in Alabama: Alabama, Cahaba, and upper Tombigbee River systems, and the Mobile-Tensaw Delta.

Habitat: Primary Burrower

Recent Collections: Previously known only from two locations in Alabama, one in the Cahaba River system and one in the Mobile-Tensaw Delta. During this study several widespread records of this species were secured in the Fall Line Hills and Black Belt physiographic districts in the Alabama, Black Warrior, and upper Tombigbee River systems.

Conservation Status: AFS Currently Stable; P3.

Cambarus manningi Hobbs 1981; Greensaddle Crayfish

Distribution in Alabama: Coosa River system.

Habitat: Lotic

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Currently Stable; P2.

Cambarus miltus Fitzpatrick 1978; Rusty Grave Digger

Distribution in Alabama: Perdido and Yellow River systems, the Mobile-Tensaw Delta, and Mobile Bay tributaries.

Habitat: Primary Burrower

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Threatened; P3.

Cambarus obstipus Hall 1959; Sloped Crayfish

Distribution in Alabama: Black Warrior and upper Tombigbee River systems.

Habitat: Lotic

Recent Collections: Specimens were collected throughout the Black Warrior system and at one site in the Buttahatchee River in the upper Tombigbee River system during this study. Previously known only from the Black Warrior River system, the Buttahatchee record represents a new drainage record and modest range extension for the species.

Conservation Status: AFS Special Concern; P5.

Cambarus parvoculus Hobbs and Shoup 1947; Mountain Midget Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: Previously known from only two locations in Tennessee River tributaries in the extreme northeastern corner of the state. Extensive effort targeting this species yielded specimens from several new locations in the Tennessee River drainage.

Conservation Status: AFS Currently Stable; P2.

Cambarus pecki Hobbs 1967; Phantom Cave Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Cave

Recent Collections: Specimens were collected in the Tennessee River drainage during this study.

Conservation Status: AFS Endangered; P2.

Cambarus polychromatus Thoma, Jezerinac, and Simon 2005; Paintedhand Mudbug

Distribution in Alabama: Alabama, Black Warrior, Cahaba, Conecuh, Pea, and upper Tombigbee River systems.

Habitat: Primary and Secondary Burrower

Recent Collections: Specimens were collected in the Black Warrior, Cahaba, Tallapoosa, and upper Tombigbee River systems during in this study. The records from the Cahaba, Tallapoosa, and Upper Tombigbee River systems represent new tributary records and significant inland range extensions for the species.

Conservation Status: AFS None; P3.

Cambarus rusticiformis Rhoades 1944; Depression Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Tennessee River drainage during this study. Specimens are now known from cave entrances, second order streams, medium-sized rivers, and the main channel Tennessee River.

Conservation Status: AFS Currently Stable; P2.

Cambarus scotti Hobbs 1981; Chattooga River Crayfish

Distribution in Alabama: Coosa River system.

Habitat: Lotic

Recent Collections: Specimens were collected in the Coosa River system during this study. While previous records were restricted to the upstream portion of the Coosa River system in Alabama, a recent record obtained in the lower reach of this system was documented.

Conservation Status: AFS Threatened; P4.

Cambarus speleocoopi Buhay and Crandall 2009; Sweet Home Alabama Cave Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Caves

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Unlisted; P2.

Cambarus striatus Hay 1902; Ambiguous Crayfish

Distribution in Alabama: Alabama, Black Warrior, Cahaba, Chattahoochee, Choctawhatchee, Conecuh, Coosa, Tallapoosa, and upper and lower Tombigbee River systems, and the Tennessee River drainage.

Habitat: Lotic; Primary Burrower; Secondary Burrower

Recent Collections: Specimens were collected in the Alabama, Black Warrior, Cahaba, Chattahoochee, Choctawhatchee, Conecuh, Coosa, Tallapoosa, and upper and lower Tombigbee River systems, and Tennessee River drainage during this study.

Conservation Status: AFS Currently Stable; P5.

Cambarus tenebrosus Hay 1902; Cavespring Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Caves; Lotic

Recent Collections: Specimens were collected in the Tennessee River drainage during this study.

Conservation Status: AFS Currently Stable; P3.

Cambarus unestami Hobbs and Hall 1969; Blackbarred Crayfish
Distribution in Alabama: Coosa River system and Tennessee River drainage.
Habitat: Lotic
Recent Collections: Specimens were collected in the Coosa River system and Tennessee River drainage during this study. The records from Little River tributaries represent the first records for the state in the Coosa River system in Alabama.
Conservation Status: AFS Threatened; P2.

Cambarus veitchorum Cooper and Cooper 1997; White Spring Cave Crayfish
Distribution in Alabama: Endemic to White Spring Cave in the Tennessee River drainage, Limestone County.
Habitat: Caves
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS None; P1.

Genus: *Fallicambarus*

Fallicambarus burrisi Fitzpatrick 1987; Burrowing Bog Crayfish
Distribution in Alabama: Escatawpa and Perdido River systems.
Habitat: Primary Burrower in *Sarracenia* (pitcher plant) bogs.
Recent Collections: Specimens were collected in the Escatawpa River system during this study.
Conservation Status: AFS Threatened; P2

Fallicambarus byersi (Hobbs 1941); Lavender Burrowing Crayfish
Distribution in Alabama: Conecuh, Escatawpa, and Perdido River systems.
Habitat: Primary Burrower.
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS Currently Stable; P2.

Fallicambarus danielae Hobbs 1975; Speckled Burrowing Crayfish
Distribution in Alabama: Alabama and Escatawpa River systems, Mobile Bay-Tensaw Delta, and Mississippi Sound tributaries.
Habitat: Primary Burrower.
Recent Collections: Specimens collected in the Alabama River system far inland during this study represent a profound inland range extension and new drainage record.
Conservation Status: AFS Threatened; P3.

Fallicambarus fodiens (Cottle 1863); Digger Crayfish

Distribution in Alabama: Alabama, Black Warrior, Cahaba, Chattahoochee, Conecuh, Perdido, Tallapoosa, and upper and lower Tombigbee River systems, and the Tennessee River drainage.

Habitat: Primary Burrower.

Recent Collections: Specimens were collected in the Alabama, Black Warrior, Chattahoochee, Tallapoosa, upper and lower Tombigbee River systems, and Tennessee River drainage during this study. The Black Warrior collections represent a new drainage record.

Conservation Status: AFS Currently Stable; P5.

Genus: *Faxonella*

Faxonella clypeata (Hay 1899); Ditch Fencing Crayfish

Distribution in Alabama: Alabama, Blackwater, Chattahoochee, Chipola, Choctawhatchee, Conecuh, Escatawpa, Tallapoosa, and lower Tombigbee River systems, and Mobile Bay and Mississippi Sound tributaries.

Habitat: Lentic

Recent Collections: Specimens were collected in the Chattahoochee and Chipola River systems during this study.

Conservation Status: AFS Currently Stable; P3.

Genus: *Hobbseus*

Hobbseus prominens (Hobbs 1966); Prominence Riverlet Crayfish

Distribution in Alabama: Alabama, Black Warrior, Cahaba, and upper and lower Tombigbee River systems.

Habitat: Secondary Burrower; Lentic

Recent Collections: Specimens were collected in the Black Warrior River system during this study.

Conservation Status: AFS Currently Stable; P2.

Genus: *Orconectes*

Orconectes alabamensis (Faxon 1884); Alabama Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Tennessee River drainage during this study including several new distribution records in the upper Bear Creek system.

Conservation Status: AFS Special Concern; P4.

Orconectes australis (Rhoades 1941); Southern Cave Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Caves

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Currently Stable; P2.

Orconectes chickasawae Cooper and Hobbs 1980; Chickasaw Crayfish

Distribution in Alabama: Alabama, Black Warrior, Cahaba, and upper and lower Tombigbee River systems.

Habitat: Lotic

Recent Collections: Specimens were collected in the Black Warrior and upper and lower Tombigbee River systems during this study.

Conservation Status: AFS Currently Stable; P3.

Orconectes compressus (Faxon 1884); Slender Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Tennessee River drainage during this study, including several additional records in the Bear Creek system south of the Tennessee River.

Conservation Status: AFS Currently Stable; P4.

Orconectes cooperi (Cooper and Hobbs 1980); Flint River Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Tennessee River drainage during this study.

Conservation Status: AFS Endangered; P2.

Orconectes durelli Bouchard and Bouchard 1995; Saddle Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Tennessee River tributary Bluff Creek during this study, representing only the second record of the species in Alabama.

Conservation Status: AFS Currently Stable; P3.

Orconectes erichsonianus (Faxon 1898); Reticulate Crayfish

Distribution in Alabama: Black Warrior, Cahaba, Coosa, and Tallapoosa River systems, and Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Black Warrior, Cahaba, Coosa, and Tennessee River systems during this study. Especially significant was the preponderance of records in the far west Tennessee River tributaries.

Conservation Status: AFS Currently Stable; P5.

Orconectes forceps (Faxon 1884); Surgeon Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Tennessee River drainage during this study.

Conservation Status: AFS Currently Stable; P4.

Orconectes holti Cooper and Hobbs 1980; Bimaculate Crayfish

Distribution in Alabama: Alabama, Black Warrior, Conecuh, and upper and lower Tombigbee River systems.

Habitat: Lotic

Recent Collections: Specimens were collected in the Alabama, Conecuh, and upper and lower Tombigbee River systems during this study. The Conecuh and upper Tombigbee River collections represent new drainage records.

Conservation Status: AFS Threatened; P3.

Orconectes jonesi Fitzpatrick 1992; Sucarnoochee River Crayfish

Distribution in Alabama: Alabama, Cahaba, and upper and lower Tombigbee River systems.

Habitat: Lotic

Recent Collections: Specimens were collected in the upper and lower Tombigbee River systems during this study.

Conservation Status: AFS Threatened; P3.

Orconectes lancifer (Hagen 1870); Shrimp Crayfish

Distribution in Alabama: Alabama River system and Mobile-Tensaw Delta.

Habitat: Lentic

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Currently Stable; P2.

Orconectes mirus (Ortmann 1931); Wonderful Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Tennessee River drainage during this study.

Conservation Status: AFS Currently Stable; P4.

Orconectes perfectus Walls 1972; Complete Crayfish

Distribution in Alabama: Alabama, Black Warrior, Tallapoosa, and upper and lower Tombigbee River systems. Its range is disjunct, apparently avoiding the Fall Line Hills district.

Habitat: Lotic

Recent Collections: Specimens were collected in the Alabama, Black Warrior, and upper and lower Tombigbee River systems during this study.

Conservation Status: AFS Currently Stable; P5.

Orconectes putnami (Faxon 1884); Phallic Crayfish

Distribution in Alabama: Tennessee River drainage.

Habitat: Lotic

Recent Collections: No specimens were collected during this study.

Conservation Status: AFS Currently Stable; P2.

Orconectes sheltae Cooper and Cooper 1997; Shelta Cave Crayfish

Distribution in Alabama: Tennessee River drainage; endemic to Shelta Cave, Madison County, Alabama.

Habitat: Cave

Recent Collections: No specimens were collected during this study. It has not been collected since the early 1970s.

Conservation Status: AFS None; P1.

Orconectes spinosus (Bundy 1877); Coosa River Spiny Crayfish

Distribution in Alabama: Cahaba and Coosa River systems, and Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were frequently collected in the Tennessee River drainage during this study.

Conservation Status: AFS Currently Stable; P4.

Orconectes validus (Faxon 1914); Powerful Crayfish

Distribution in Alabama: Black Warrior and upper Tombigbee River systems, and Tennessee River drainage.

Habitat: Lotic

Recent Collections: Specimens were collected in the Black Warrior River system and Tennessee River drainage during this study.

Conservation Status: AFS Currently Stable; P5

Orconectes virilis Hagen 1870; Virile Crayfish

Distribution in Alabama: Black Warrior, Cahaba, Coosa, Tallapoosa River systems, and Tennessee River drainage.

Habitat: Lentic; Lotic

Recent Collections: Specimens were collected in the Black Warrior, Cahaba, and Coosa River systems during this study. It is most common in the Black Warrior and Cahaba River systems, where it appears to be rapidly expanding its distribution and abundance and is the most abundant species in some collections.

Conservation Status: Introduced/non-native; P5.

Genus: *Procambarus*

Procambarus acutissimus (Girard 1852); Sharpnose Crayfish

Distribution in Alabama: Alabama, Black Warrior, Cahaba, Conecuh, Coosa, Tallapoosa, and upper and lower Tombigbee River systems.

Habitat: Lentic; Lotic

Recent Collections: Specimens were collected in the Alabama, Black Warrior, Cahaba, Conecuh, Coosa, Tallapoosa, and upper and lower Tombigbee River systems during this study. The Conecuh River record represents a new drainage record for the species in Alabama.

Conservation Status: AFS Currently Stable; P5.

Procambarus acutus (Girard 1852); White River Crawfish

Distribution in Alabama: Alabama, Black Warrior, Choctawhatchee, Conecuh, Coosa, Escatawpa, Tallapoosa, and upper and lower Tombigbee River systems, the Tennessee River drainage, the Mobile-Tensaw Delta, and Mobile Bay tributaries.

Habitat: Lentic; Lotic

Recent Collections: Specimens were collected in the Alabama, Black Warrior, Choctawhatchee, Conecuh, Coosa, upper and lower Tombigbee River systems, Tennessee River drainage, and the Mobile-Tensaw Delta during this study.

Conservation Status: AFS Currently Stable; P5.

Procambarus bivittatus Hobbs 1942; Ribbon Crayfish

Distribution in Alabama: Alabama and lower Tombigbee River systems, Mobile-Tensaw Delta, and Mobile Bay tributaries.

Habitat: Lentic; Lotic

Recent Collections: Specimens were collected in the lower Tombigbee River system during this study.

Conservation Status: AFS Currently Stable; P3.

Procambarus capillatus Hobbs 1971; Capillaceous Crayfish
Distribution in Alabama: Conecuh River system.
Habitat: Lentic; Secondary Burrower
Recent Collections: Specimens were collected in the Conecuh River system during this study.
Conservation Status: AFS Currently Stable; P2.

Procambarus clarkii (Girard 1852); Red Swamp Crawfish
Distribution in Alabama: Alabama, Black Warrior, Cahaba, Coosa, Escatawpa, Tallapoosa, and upper and lower Tombigbee River systems, the Tennessee River drainage, the Mobile-Tensaw Delta, and Mobile Bay and Mississippi Sound tributaries.
Habitat: Lentic; Lotic
Recent Collections: Specimens were collected in the Alabama, Black Warrior, Cahaba, Coosa, Tallapoosa, and Tombigbee River systems, and Tennessee River drainage during this study.
Conservation Status: AFS Currently Stable; P5.

Procambarus clemmeri Hobbs 1975; Cockscomb Crayfish
Distribution in Alabama: Escatawpa, lower Tombigbee, and Yellow River systems.
Habitat: Lotic
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS Currently Stable; P2.

Procambarus escambiensis Hobbs 1942; Escambia Crayfish
Distribution in Alabama: Conecuh and Perdido River systems.
Habitat: Lentic; Lotic; Secondary Burrower
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS Endangered; P2.

Procambarus evermanni (Faxon 1890); Panhandle Crayfish
Distribution in Alabama: Alabama and Escatawpa River systems, the Mobile-Tensaw Delta, and Mobile Bay and Mississippi Sound tributaries.
Habitat: Lotic
Recent Collections: Specimens were collected in the Mississippi Sound system during this study.
Conservation Status: AFS Currently Stable; P2.

Procambarus hagenianus hagenianus (Faxon 1884); Southeastern Prairie Crayfish
Distribution in Alabama: Upper Tombigbee River system.
Habitat: Primary Burrower
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS Currently Stable; P1.

Procambarus hayi (Faxon 1884); Straightedge Crayfish
Distribution in Alabama: Upper Tombigbee River system.
Habitat: Lentic; Lotic
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS Currently Stable; P1.

Procambarus hubbelli (Hobbs 1938); Jackknife Crayfish
Distribution in Alabama: Chipola, Choctawhatchee, and Yellow River systems.
Habitat: Lentic; Secondary Burrower
Recent Collections: Specimens collected in the Chipola River system during this study are the first known from that river system in Alabama.
Conservation Status: AFS Currently Stable; P2.

Procambarus hybus Hobbs and Walton 1957; Smoothnose Crayfish
Distribution in Alabama: Black Warrior, Cahaba, and upper and lower Tombigbee River systems.
Habitat: Lentic; Secondary Burrower
Recent Collections: Specimens were collected in the upper and lower Tombigbee River systems during this study.
Conservation Status: AFS Currently Stable; P2.

Procambarus lagniappe Black 1968; Lagniappe Crayfish
Distribution in Alabama: Lower Tombigbee River system.
Habitat: Lotic
Recent Collections: Specimens were collected in the lower Tombigbee River system during this study.
Conservation Status: AFS Threatened; P2.

Procambarus lecontei (Hagen 1870); Mobile Crayfish
Distribution in Alabama: Escatawpa and lower Tombigbee River systems, the Mobile-Tensaw Delta, and Mobile Bay and Mississippi Sound tributaries.
Habitat: Lotic
Recent Collections: Specimens were collected in the Mississippi Sound tributaries during this study.
Conservation Status: AFS Special Concern; P2.

Procambarus lewisi Hobbs and Walton 1959; Spur Crayfish
Distribution in Alabama: Alabama, Chattahoochee, Conecuh, and Tallapoosa River systems.
Habitat: Lentic; Lotic
Recent Collections: Specimens were collected in the Alabama and Chattahoochee River systems during this study.
Conservation Status: AFS Special Concern; P2.

Procambarus lophotus Hobbs and Walton 1960; Mane Crayfish
Distribution in Alabama: Alabama, Black Warrior, Cahaba, Choctawhatchee, Conecuh, Coosa, Tallapoosa, and upper and lower Tombigbee River systems, and the Tennessee River drainage.
Habitat: Lentic; Lotic
Recent Collections: Specimens were collected in the Black Warrior River system and Tennessee River drainage during this study. The Tennessee River drainage record represents a new drainage record and inland range extension.
Conservation Status: AFS Currently Stable; P3.

Procambarus marthae Hobbs 1975; Crisscross Crayfish
Distribution in Alabama: Alabama, Black Warrior, and Cahaba River systems.
Habitat: Lentic; Lotic
Recent Collections: Specimens were collected in the Alabama River system during this study.
Conservation Status: AFS Special Concern; P2.

Procambarus okaloosae Hobbs 1942; Okaloosa Crayfish
Distribution in Alabama: Conecuh, Perdido, and Yellow River systems.
Habitat: Lentic; Lotic
Recent Collections: Specimens were collected in the Conecuh River system during this study.
Conservation Status: AFS Currently Stable; P2.

Procambarus paeninsulanus (Faxon 1914); Peninsula Crayfish
Distribution in Alabama: Chattahoochee and Chipola River systems.
Habitat: Lentic; Lotic
Recent Collections: Specimens were collected in the Chattahoochee and Chipola River systems during this study.
Conservation Status: AFS Currently Stable; P3.

Procambarus penni Hobbs 1951; Pearl Blackwater Crayfish
Distribution in Alabama: Alabama, Escatawpa, and lower Tombigbee River systems.
Habitat: Lotic
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS Vulnerable; P3

Procambarus shermani Hobbs 1942; Gulf Crayfish
Distribution in Alabama: Escatawpa and lower Tombigbee River systems, the Mobile-Tensaw Delta, and Mobile Bay tributaries.
Habitat: Lentic; Lotic
Recent Collections: Specimens were collected in the Escatawpa River system during this study.
Conservation Status: AFS Currently Stable; P3.

Procambarus spiculifer (LeConte 1856); White Tubercled Crayfish
Distribution in Alabama: Black Warrior, Cahaba, Chattahoochee, Chipola, Coosa, Choctawhatchee, Conecuh, Escatawpa, Perdido, Tallapoosa, lower Tombigbee, and Yellow River systems, and Mobile Bay tributaries.
Habitat: Lotic
Recent Collections: Specimens were collected in the Chattahoochee, Chipola, Choctawhatchee, Conecuh, Coosa, Perdido, and Yellow River systems during this study.
Conservation Status: AFS Currently Stable; P5.

Procambarus suttkusi Hobbs 1953; Choctawhatchee Crayfish
Distribution in Alabama: Choctawhatchee and Pea River systems.
Habitat: Lotic
Recent Collections: Specimens were collected at numerous stations in the Choctawhatchee and Pea River systems during this study.
Conservation Status: AFS Special Concern; P4.

Procambarus verrucosus Hobbs 1952; Grainy Crayfish
Distribution in Alabama: Chattahoochee, Choctawhatchee, and Tallapoosa River systems.
Habitat: Lotic
Recent Collections: Specimens were collected in the Chattahoochee River system during this study.
Conservation Status: AFS Currently Stable; P3.

Procambarus versutus (Hagen 1870); Sly Crayfish
Distribution in Alabama: Alabama, Black Warrior, Blackwater, Cahaba, Chattahoochee, Coosa, Choctawhatchee, Conecuh, Escatawpa, Perdido, Tallapoosa, lower Tombigbee, and Yellow River systems, the Mobile-Tensaw Delta, and Mobile Bay tributaries.
Habitat: Lotic
Recent Collections: Specimens were collected in the Alabama, Blackwater, Cahaba, Choctawhatchee, Conecuh, Perdido, lower Tombigbee, and Yellow River systems, and Mobile Bay tributaries during this study.
Conservation Status: AFS Currently Stable; P5.

Procambarus viaeviridis (Faxon 1914); Vernal Crayfish
Distribution in Alabama: Black Warrior River system and Tennessee River drainage.
Habitat: Lentic; Lotic
Recent Collections: No specimens were collected during this study.
Conservation Status: AFS Currently Stable; P1.

Procambarus vioscai paynei Fitzpatrick 1990; Payne's Creek Crayfish
Distribution in Alabama: Black Warrior and upper and lower Tombigbee River
systems.

Habitat: Lotic

Recent Collections: Specimens were collected in the upper and lower Tombigbee
River systems during this study.

Conservation Status: AFS Currently Stable; P3.

DISCUSSION

Numerous species collected during this project were encountered in a similar geographic extent to their previously known ranges, suggesting that our current understanding of their range and habitat preferences is correct, and appropriate sampling methodology and necessary sampling rigor to collect them was sufficient. These species include *Cambarus coosae*, *C. diogenes*, *C. girardianus*, *C. latimanus*, *C. obstipus*, *C. scotti*, *C. striatus*, *Fallicambarus fodiens*, *Orconectes alabamensis*, *O. compressus*, *O. erichsonianus*, *O. forceps*, *O. jonesi*, *O. mirus*, *O. perfectus*, *O. spinosus*, *O. validus*, *Procambarus acutissimus*, *P. acutus*, *P. capillatus*, *P. spiculifer*, *P. suttkusi*, *P. versutus*, and *P. vioscai paynei*.

Other species were occasionally encountered within or marginal to their previously known ranges. In some cases these results document modest range extensions and/or new drainage records, or at least augment our understanding of their known ranges, but in some cases may suggest possible range reductions or a lack of necessary sampling methodology or sampling rigor. For some of these species (*Cambarus bartonii cavatus*, *C. howardi*, and *C. parvoculus*) our sampling effort was likely sufficient due to their naturally limited ranges and/or rarity in Alabama, and the distributions shown on their respective distribution maps are accurate. For these species only continued monitoring is deemed necessary at this time. However, for others we feel that further sampling within and marginal to their known ranges is justified to confirm their distribution status. These include *Cambarus acanthura*, *C. cracens*, *C. englishi*, *C. halli*, *C. rusticiformis*, *C. tenebrosus*, *Faxonella clypeata*, *Hobbseus prominens*, *Orconectes cooperi*, *O. durelli*, *Procambarus bivittatus*, *P. capillatus*, *P. evermanni*, *P. hubbelli*, *P. lagniappe*, *P. lecontei*, *P. lewisi*, *P. marthae*, *P. okaloosae*, *P. paeninsulanus*, *P. pecki*, *P. shermani*, and *P. verrucosus*.

Species collected during this study that displayed significant range extensions and/or new drainage records include *Cambarus graysoni*, *C. ludovicianus*, *C. polychromatus*, *C. unestami*, *Fallicambarus danielae*, *Orconectes chickasawae*, *O. holti*, *Procambarus clarkii*, *P. hybus*, *P. lecontei*, and *P. lophotus*. It should be noted that several of these species are members of species complexes with problematic taxonomies, and that work in progress by Schuster, Taylor, and other researchers will likely result in distributional changes in these taxa. For these species we recommend additional sampling within and marginal to their newly refined ranges to further clarify their distributions and relative abundance.

While brief comments for each species known from Alabama were provided in the species accounts, we feel that further discussion for some is warranted due to their rapidly expanding ranges, significant range extensions and/or drainage records, refinement of habitat preferences, or because they are new records for the state. *Barbicambarus simmonsii*, the Tennessee Bottlebrush Crayfish, is a newly described species and a new state record, not only for the species but for the genus as well. Prior to this project *Barbicambarus* was a monotypic genus, with the only member *Barbicambarus cornutus*, the Bottlebrush Crayfish, which is restricted to the upper Green River system in Kentucky and Tennessee. Jeff Simmons of TVA is an active crayfish researcher and donated numerous crayfish specimens he collected in Alabama to this project. While sampling crayfish in Factory Creek, a tributary of Shoal Creek in Tennessee a short distance north of the Alabama/Tennessee state line, he recognized individuals resembling *B. cornutus*, but clearly outside the known range for the species. He passed that material on to Schuster and Taylor for verification. They subsequently collected additional specimens from Factory Creek and nearby Shoal Creek and found sufficient differences between the two to describe *B. simmonsii*. In the description they noted that the species likely also occurs in appropriate downstream habitat in Alabama, and Jeff Garner of WFFD subsequently reported it from Goose Shoals in Shoal Creek, Lauderdale County, as predicted (Taylor and Schuster, 2010).

Cambarus rusticiformis, the Depression Crayfish, previously believed to occupy small to medium rivers under large, flat rocks (Taylor and Schuster, 2004) was collected from the main stem Tennessee River over the past decade and is reported to be rather

common there (Jeff Garner, WFFD, pers. comm., 2010). It also has been reported near a cave entrance and in a second order stream over the past few years in Lauderdale County, and in the Paint Rock River in the 1970s and during this study. This suggests that the preferred habitat of at least some species may be more diverse than once thought.

Orconectes virilis, the Virile Crayfish, is native to the Missouri River, upper Mississippi River, lower Ohio River, and Great Lakes drainages. It has been introduced into various areas outside of its native range, including the western United States, northern Mexico, the eastern United States from Mississippi to Maine, and more recently Europe. Within Alabama it is known from the Black Warrior, Cahaba, Coosa, Tallapoosa, and Tennessee River systems. Within these systems it is more common in the Locust Fork of the Black Warrior River and the Cahaba River upstream of the Fall Line and its range and abundance seem to be rapidly increasing. If this expansion goes unchecked it may prove to be a serious competitor for native crayfishes. Recent sampling yielded *O. virilis* in two new areas of the state from which it was previously unknown—the Sipsey Fork of the Black Warrior River and the upper Coosa River system near the Alabama/Georgia state line. It would be beneficial to conduct studies of potential declines in native crayfish species in these invaded habitats.

Procambarus clarkii, the Red Swamp Crawfish, is native to the Mississippi Embayment and along the Gulf Coast to Mexico. Among crayfish this species is the most economically important aquaculture species in the world and has been widely introduced on a global scale. Recent collections have revealed that this species is more widely distributed in Alabama than previously thought but it is unknown whether these are recently established populations or artifacts of insufficient collection effort in the past. However, it is likely that at least some of these populations, especially those upstream of the Fall Line, are associated with aquaculture production and supplemental forage stocking for recreational bass pond enhancement (Matthew R. Euten, Southeastern Pond Management, pers. comm., 2011).

Schuster and others (2008) listed 85 species in the Alabama state fauna. Since that time three new species were described—*Barbicambarus simmonsii*, *Cambarus laconensis*, and *C. speleocoopi*, and three species were removed—*Fallicambarus oryctes*, *Orconectes placidus*, and *Procambarus zonangulus*, thus the current total remains at 85.

Fallicambarus oryktes and *Orconectes placidus* were removed upon re-examination of the museum specimens for these species, both of which have very few known records within Alabama. In these cases the few museum collections contained individuals that were difficult to identify to the species level (i.e., were juvenile, female, or Form II male). It was thus determined that they were likely mis-identified and are instead members of *F. danielae* and *O. forceps*, respectively.

The case with *Procambarus zonangulus* is more complicated. Based upon its widespread occurrence across the Mississippi Embayment and Gulf Coastal Plain in adjacent states, and its close association with the closely related *P. acutus* (Huner, 2002), it was originally considered part of the state fauna. Also, it superficially resembles *P. acutus* and might be misidentified in museum collections. However, without confirmed specimens collected from Alabama waters, we have opted not to list it as part of the state fauna until its presence is confirmed.

A list of all species currently known from each county, including taxa not yet formally described, is found in Appendix D. Lauderdale County leads the list of described taxa with 23 species, followed by Baldwin and Tuscaloosa with 19 each, Jackson and Limestone with 18 each, Mobile and Washington with 17 each, and Clarke and Hale with 16 each. Counties with the fewest recorded species include Autauga, Dale, and Randolph with 4 species each, Crenshaw, Walker, and Winston with 5 each, and Coffee, Geneva, Henry, Houston, and Lamar with 6 each. Other counties with low diversity of crayfishes include Clay, Cleburne, Coosa, Elmore, Fayette, and Tallapoosa with 7 each, Blount, Chambers, Cullman, Franklin, and Marion with 8 each, and Barbour, Butler, Cherokee, Conecuh, Russell, and Shelby with 9 each.

Lauderdale County happens to lead in diversity of freshwater fish and mussel species in Alabama as well as in crayfish. Only Baldwin County has more species of fishes if marine and estuarine species are included. Reasons given for the extraordinary mussel diversity found at the historic Muscle Shoals in Lauderdale County, beyond the overlap of two important ancestral faunal groups and a diverse fish host fauna, are the complex microhabitats found within the pre-impoundment Shoals accommodating species preferring small, medium, or large streams; deep or shallow water; swift or moderate flow or still water; braided channels; boulder or bedrock substrates; deep or

shallow riffles; gravel or sand bars; vegetated streambeds; muddy substrates; and embayments; all of which were found in close proximity where the formations of the Interior Low Plateaus commingle with those of the Coastal Plain. The pre-impoundment quality of that habitat is also due to the presence of large tributaries such as Elk River, Bear Creek, Cypress Creek, and Shoal Creek, which contributed abundant supplies of high quality water during even the driest periods, thereby sustaining the river's flow. The fish and crayfish faunas likely benefitted from those generous resources as well. The Tennessee Valley counties also have the added advantage of karst terrain to boost their lists with species adapted to cave environments.

Obviously, a lack of sampling effort and sampling rigor are significant reasons for low crayfish diversity in some counties, but the availability of diverse, quality habitat types certainly has considerable influence as well. For example, Walker and Winston Counties have long histories of widespread coal mining, as do to a lesser extent Fayette, Franklin, Lamar, and Marion Counties, which certainly has affected the abundance and distribution of aquatic taxa by physical removal (strip mining), disruption of groundwater flow (underground mining), or contamination of water bodies (runoff). Furthermore, vast areas of swampy habitat on the Coastal Plain are likely undersampled due to the difficult and often inaccessible nature of these habitats. Additional sampling would most likely increase species lists there.

The arbitrary factors of size and position of a county also must be considered when comparing species lists. Baldwin and Mobile Counties are two of the larger counties in the U.S. east of the Mississippi River and each encompasses parts of various drainages and correspondingly diverse habitat types. Baldwin County is drained by the Alabama, Mobile, and Perdido River systems, the Mobile-Tensaw Delta, and the Mobile Bay system, and Mobile County by the Mobile and Escatawpa River systems, the Mobile-Tensaw Delta, and Mobile Bay and Mississippi Sound tributaries. Conversely, Cherokee, Clay, Conecuh, Dale, Lamar, Randolph, and Tallapoosa Counties are examples of comparatively small counties completely or essentially restricted to only one geologic province and/or drainage system, thereby limiting their opportunity for diversity across geological and drainage divides and habitat types.

Due to the need to sample over large areas of the state and given constraints on time, we mostly neglected major river channels and reservoirs, and to a lesser extent important but time-consuming habitats such as swamps, marshes, roadside ditches, and burrowing habitats. Future studies should concentrate on these areas, as well as Coastal Plain and Mississippi Sound river systems in general, where many species are known to occur but which were scarcely encountered in this survey.

In closing, given the status of the southeastern United States, and Alabama in particular, as the global hotspot for crayfish biodiversity, we hope that biologists are attracted to this rich fauna for further study. Crayfishes are excellent model organisms for a range of biological topics, including biogeography, systematics, ecology, natural and sexual selection, behavior, and so on.

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Appendix A

Crayfish collection locations in Alabama, 2008-2010

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Bridge Creek at Co. Rd. 40 crossing at junction of Co. Rd. 40 and Co. Rd. 59	Autauga	sec. 1, T. 18 N., R. 15 E.	32.5688	-86.5127	2/11/2010	Seine/digging/hand net	GAS 10-16
Pine Creek at Co. Rd. 19 crossing	Autauga	sec. 5, T. 17 N., R. 14 E.	32.4869	-86.6893	2/11/2010	Seine/digging/hand net	GAS 10-17
Swift Creek at AL Hwy. 14 ~0.25 mi NE Autaugaville	Autauga	sec. 22, T. 17 N., R. 14 E.	32.4345	-86.6508	4/3/2008	Trap	JBS 080326-1
Little Mulberry Creek at AL Hwy. 14 ~0.20 mi W Statesville	Autauga	sec. 11, T. 17 N., R. 12 E.	32.4698	-86.8362	4/1/2008	Seine/Trap	JBS 080326-2
Big Mulberry Creek at Co. Rd. 83 ~1.0 mi S Fremont	Autauga	sec. 19, T. 18 N., R. 12 E.	32.5241	-86.8979	4/3/2008	Trap	JBS 080326-3
Buck Creek at Co. Rd. 22 ~1.0 mi E Bethel Grove	Autauga	sec. 14, T. 19 N., R. 12 E.	32.6266	-86.8328	4/1/2008	Trap	JBS 080326-4
Autauga Creek at Co. Rd. 49	Autauga	sec. 16, T. 19 N., R. 15 E.	32.6303	-86.5725	3/28/2008	Trap	JBS 080326-5
Roadside ditch nr. Little Mulberry Creek at U.S. Hwy. 82	Autauga	sec. 24, T. 19 N., R. 13 E.	32.6150	-86.7266	3/28/2008	Digging	JBS 080328-1
South Mortar Creek at Co. Rd. 85 on Jim Freenee property	Autauga	sec. 23, T. 19 N., R. 16 E.	32.6192	-86.4251	4/13/2010	Trap/Hand Net	SWM 100412-2
Threemile Creek at Co. Rd. 32	Baldwin	sec. 3/34, T. 6/7 S. R. 5 E.	30.4731	-87.5549	6/25/2008	Seine/BP	JBS 080625-1
Bellefontaine Creek at Co. Rd. 87	Baldwin	sec. 24, T. 4 S., R. 5 E.	30.6866	-87.5278	6/25/2008	Seine/BP	JBS 080625-2
Perdido River at Duck Place Road (near Barrineau Park)	Baldwin	sec. 23, T. 4 S., R. 6 E.	30.6908	-87.4403	6/25/2008	Seine/BP	JBS 080625-3
Little River at AL Hwy. 59 S Chrysler, N Little River	Baldwin/Monroe	sec. 19, T. 4 N., R. 4 E.	31.2997	-87.7104	1/19/2009	Trap	SWM 090119-5
Sikes Creek at AL Hwy. 131 crossing	Barbour	sec. 4, T. 8 N., R. 25 E.	31.6960	-85.5413	2/9/2010	Seine/digging/hand net	GAS 10-05
Sand Creek at Co. Rd. 9 crossing	Barbour	sec. 15, T. 9 N., R. 24 E.	31.7515	-85.6231	2/10/2010	Seine/digging/hand net	GAS 10-06
Gin Creek at AL Hwy. 31 crossing	Barbour	sec. 19, T. 9 N., R. 27 E.	31.7461	-85.3762	2/10/2010	Seine/digging/hand net	GAS 10-4
Middle Fork Cowikee Creek at Co. Rd. 49	Barbour	sec. 22, T. 13 N., R. 27 E.	32.1008	-85.3126	6/4/2008	Seine/BP	JBS 080604-1
Barbour Creek at Co. Rd. 79	Barbour	sec. 33, T. 11 N., R. 27 E.	31.8982	-85.3400	6/4/2008	Seine/BP	JBS 080604-2
Cheneyhatchee Creek at Co. Rd. 32	Barbour	sec. 22, T. 10 N., R. 28 E.	31.8399	-85.2192	6/4/2008	Seine/BP	JBS 080604-3
North Fork Cowikee Creek at unnumbered county road	Barbour	sec. 27, T. 13 N., R. 28 E.	32.0892	-85.2089	6/5/2008	Seine/BP	JBS 080605-1
Shades Creek downstream of box cars	Bibb	sec. 26, T. 21 S., R. 5 W.	33.1850	-87.0290	7/1/2008	Seine/BP	GSA 2212
Shades Creek at Co. Rd. 12	Bibb	sec. 11, T. 21 S., R. 5 W.	33.2199	-87.0331	6/1/2008	Seine/BP	GSA 2213
Little Cahaba River at Bulldog Bend	Bibb	sec. 13, T. 24 N., R. 5 W.	33.0580	-87.0242	4/23/2009	By Hand	JTG 090423-1
Haysop Creek at Co. Rd. 26 near Haysop Baptist Church between Harmon and Scottsville	Bibb	sec. 25, T. 24 N., R. 8 E.	33.0304	-87.2346	4/13/2010	Trap	SWM 100413-3
Oakmulgee Creek at Belvin property at old railroad bed ~0.5 mi E Lawley	Bibb	sec. 26, T. 22 N., R. 11 E.	32.8586	-86.9424	4/13/2010	Hand Net	SWM 100418-1
Cahaba River at Pratt's Ferry/Riverbend on Co. Rd. 26	Bibb	sec. 33, T. 23 N., R. 9 E.	33.0189	-87.0787	6/15/2010	Seine/BP	SWM 100615-1
Hill Creek at Co. Rd. 24 just E Belchers	Bibb	sec. 19, T. 22 S., R. 6 W.	33.1143	-87.1985	3/23/2010		TBF 100323-1
Hill Creek at Scottsville Rd.	Bibb	sec. 4, T. 24 N., R. 9 E.	33.0955	-87.1803	3/23/2010		TBF 100323-2
Blue Springs Creek at Chamblees Mill	Blount	sec. 20, T. 11 S., R. 1 W.	34.0598	-86.6664	6/2/2010	Seine/BP	CCJ 100602-1
Longs Branch at Co. Rd. 22	Blount	sec. 10, T. 14 S., R. 2 W.	33.8383	-86.7272	6/30/2010	Seine/BP	CCJ 100630-2
Locust Fork at Vaughn's Bridge	Blount	sec. 24, T. 13 S., R. 2 W.	33.8893	-86.6955	7/1/2010	Seine/BP	CCJ 100701-1
Locust Fork at Co. Rd. 13 near Nectar	Blount	sec. 32, T. 12 S., R. 1 W.	33.9459	-86.6691	7/1/2010	Seine/BP	CCJ 100701-2
Locust Fork at Co. Rd. 26 near Royal	Blount	sec. 24, T. 11 S., R. 1 E.	34.0678	-86.4928	6/10/2009	Seine/BP	JBS 090610-1
Big Mud Creek at Co. Rd. 21 near Highmound and Snead	Blount	sec. 30, T. 10 S., R. 3 E.	34.1356	-86.3721	6/11/2009	Seine/BP/Hand Net	JBS 090611-1
Mill Creek at Co. Rd. 5 ~3.2 mi ENE Sulphur Springs	Blount	sec. 12, T. 13 S., R. 3 W.	33.9285	-86.8092	12/1/2009	Trap	JBS 091112-1
Locust Fork at Co. Rd. 36	Blount	sec. 6, T. 10 S., R. 3 E.	34.1114	-86.3633	7/22/2010	Seine/BP	JBS 100722-1
Locust Fork at AL Hwy. 278	Blount	sec. 27, T. 10 S., R. 2 W.	34.1324	-86.4159	7/22/2010	Seine/BP	JBS 100722-2
Big Branch at Co. Rd. 21 between McLarty and Highmound	Blount	sec. 24, T. 10 S., R. 2 E.	34.1583	-86.3921	3/25/2009	Hand Net	SWM 090325-1
Calvert Prong at Co. Rd. 33	Blount	sec. 22, T. 12 S., R. 1 E.	33.9358	-86.6159	6/16/2010	By Hand	SWM 100616-1
James Creek at unnumbered county road ~1.0 mi NE Sulphur Springs	Blount	sec. 9, T. 13 S., R. 3 W.	33.9220	-86.8539	12/1/2009	Trap	JBS 091112-2
Mulberry Fork at Co. Rd. 47	Blount/Cullman	sec. 13, T. 11 S., R. 2 W.	34.0863	-86.6965	6/2/2010	Seine/BP	CCJ 100602-2
Old Town Creek at AL Hwy. 29 N Union Springs	Bullock	sec. 26, T. 14 N., R. 23 E.	32.1613	-85.7149	2/6/2009	Trap	CCJ 090204-1
Flat Creek at Co. Rd. 12	Bullock	sec. 8, T. 12 N., R. 22 E.	32.0275	-85.8651	2/4/2009	Hand Net	CCJ 090204-2
Spring Creek at Co. Rd. 14	Bullock	sec. 26, T. 12 N., R. 24 E.	31.9916	-85.6066	2/4/2009	Hand Net	CCJ 090204-3
Bluff Creek at Co. Rd. 35	Bullock	sec. 24, T. 13 N., R. 24 E.	32.0977	-85.5859	2/4/2009	Hand Net	CCJ 090204-4
Line Creek at Co. Rd. 7	Bullock	sec. 19, T. 14 N., R. 22 E.	32.1856	-85.8790	2/6/2009	Trap	CCJ 090204-5
Shopton Branch at Co. Rd. 7	Bullock	sec. 36, T. 14 N., R. 21 E.	32.1466	-85.8963	2/6/2009	Hand Net	CCJ 090206-1
Mountain Creek at Co. Rd. 15	Bullock	sec. 28, T. 13 N., R. 22 E.	32.0786	-85.8462	2/6/2009	Hand Net	CCJ 090206-2
Persimmon Creek at AL Hwy. 106	Butler	sec. 27, T. 8 N., R. 14 E.	31.6337	-86.6352	6/20/2008	Seine/BP	JBS 080620-1
Pigeon Creek at U.S. Hwy. 31 ~4.3 mi SE Ft. Deposit	Butler	sec. 11, T. 11 N., R. 15 E.	31.9383	-86.5289	2/18/2009	Trap	JBS 090205-4

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Pigeon Creek at Co. Rd. 50 ~2.7 mi NE Mashville	Butler	sec. 24, T. 10 N., R. 15 E.	31.8198	-86.5029	2/18/2009	Trap	JBS 090205-5
Cedar Creek at Co. Rd. 11 ~2.0 mi NNW Ridgeville	Butler	sec. 3, T. 11 N., R. 12 E.	31.9562	-86.8529	2/28/2009	Trap	JBS 090206-1
Wolf Creek at Co. Rd. 11 ~1.6 mi WSW Ridgeville	Butler	sec. 21, T. 11 N., R. 12 E.	31.9174	-86.8699	2/18/2009	Trap	JBS 090206-2
Pine Barren Creek at Co. Rd. 7 just N Saucer	Butler	sec. 23, T. 10 N., R. 12 E.	31.8285	-86.8346	2/18/2009	Trap	JBS 090206-3
Tallaseehatchee Creek at Co. Rd. 19	Calhoun	sec. 25, T. 13 S., R. 8 E.	33.8637	-85.7564	6/3/2010	Seine/BP	CCJ 100603-2
Little Chatahospee Creek at Co. Rd. 48	Chambers	sec. 23, T. 22 N., R. 25 E.	32.8848	-85.5075	10/13/2009	Trap	CCJ 090916-1
County Line Creek at Co. Rd. 48	Chambers	sec. 20, T. 22 N., R. 25 E.	32.8861	-85.5678	10/13/2009	Trap	CCJ 090916-2
Allen Creek at Co. Rd. 54	Chambers	sec. 15, T. 23 N., R. 25 E.	32.9804	-85.5332	10/13/2009	Trap	CCJ 090916-3
Chikasanoxee Creek at Co. Rd. 158	Chambers	sec. 27, T. 24 N., R. 26 E.	33.0476	-85.4396	10/13/2009	Trap	CCJ 090916-4
Gay Creek at Co. Rd. 267	Chambers	sec. 1, T. 24 N., R. 27 E.	33.0120	-85.2922	10/13/2009	Trap	CCJ 090916-5
Kellum Hill Creek at AL Hwy. 50 ESE LaFayette	Chambers	sec. 20, T. 22 N., R. 27 E.	32.8829	-85.3528	9/17/2009	Hand Net	CCJ 090917-1
Forney Branch at U.S. Hwy. 411	Cherokee	sec. 15, T. 11 S., R. 11 E.	34.0865	-85.4664	1/28/2010	Seine/BP/Hand Net	CCJ 100128-1
Lumpkin Mill Creek at Co. Rd. 101	Cherokee	sec. 12, T. 11 S., R. 11 E.	34.0889	-85.4377	6/3/2010	Seine/BP	CCJ 100603-1
Culstigh Creek at Co. Rd. 41 crossing NE of Broomtown	Cherokee	sec. 7, T. 8 S., R. 11 E.	34.3649	-85.5168	11/11/2009	Seine/digging/hand net	GAS 0957
Tributary to Mills Creek at Co. Rd. 120 crossing	Cherokee	sec. 29, T. 8 S., R. 11 E.	34.3088	-85.5089	11/11/2009	Seine/digging/hand net	GAS 09-58
Floodplain along Spring Creek at Co. Rd. 29 crossing	Cherokee	sec. 3, T. 11 S., R. 11 E.	34.1066	-85.4618	11/11/2009	Seine/digging/hand net	GAS 09-59
Forney Branch at U.S. Hwy. 411 crossing at Forney	Cherokee	sec. 15, T. 11 S., R. 11 E.	34.0871	-85.4667	11/11/2009	Seine/digging/hand net	GAS 09-60
Unnamed spring tributary to Forney Creek at Co. Rd. 18 and U.S. Hwy. 11 jct, about 0.1 mi W of Forney	Cherokee	sec. 15, T. 11 S., R. 11 E.	34.0873	-85.4688	11/11/2009	Seine/digging/hand net	GAS 09-61
Frog Creek and tributary at Co. Rd. 29 crossing (Rock Run Rd.)	Cherokee	sec. 34, T. 11 S., R. 11 E.	34.0388	-85.4690	11/11/2009	Seine/digging/hand net	GAS 09-62
Unnamed tributary to Ballplay Creek d/s Jones Chapel Road	Cherokee	sec. 1, T. 12 S., R. 8 E.	34.0218	-85.7511	2/25/2010	Hand Net	JBS 100225-1
Mills Creek at AL Hwy. 68	Cherokee	sec. 32, T. 8 S., R. 11 E.	34.2954	-85.5096	6/9/2010	Seine/BP	JBS 100609-1
Ballplay Creek at Co. Rd. 19	Cherokee	sec. 29, T. 12 S., R. 9 E.	33.9608	-85.7130	6/9/2010	Seine/BP	JBS 100609-2
Walnut Creek at Co. Rd. 251 (Mount Springs Road)	Chilton	sec. 16, T. 22 N., R. 15 E.	32.8940	-86.5673	5/17/2010	Seine/BP	JBS 100517-1
Poley Bridge Creek at Co. Rd. 28/Lake Mitchell Road	Chilton	sec. 36, T. 22 N., R. 14 E.	32.8427	-86.6176	5/17/2010	Seine/BP	JBS 100517-2
Yellowleaf Creek at Co. Rd. 61 near Jumbo	Chilton	sec. 20, T. 23 N., R. 15 E.	32.9625	-86.5900	5/17/2010	Seine/BP	JBS 100517-3
Cargle Creek at Co. Rd. 97 E Clanton ~5.0 mi N Cooper	Chilton	sec. 2, T. 21 N., R. 15 E.	32.8327	-86.5356	4/13/2010	Hand Net	SWM 100413-1
Confluence of Blue Gut and Yellowleaf Creeks at Jumbo	Chilton	sec. 20, T. 23 N., R. 15 E.	32.9630	-86.5887	4/13/2010	Hand Net	SWM 100413-2
Tuckabum Creek at AL Hwy 114 ~2.5 mi SSW Pennington, AL	Choctaw	sec. 22, T. 14 N., R. 1 W.	32.1724	-88.0632	9/3/2008	Trap	JBS 080821-2
Kinterbish Creek at Co. Rd. 42	Choctaw	sec. 11, T. 15 N., R. 2 W.	32.2839	-88.1515	9/3/2008	Trap	JBS 080821-3
Wahalak Creek at Co. Rd. 43	Choctaw	sec. 4, T. 12 N., R. 2 W.	32.0346	-88.1758	1/22/2009	Trap	JBS 090119-1
Big Tallawampa Creek at Co. Rd. 23	Choctaw	sec. 34, T. 11 N., R. 2 W.	31.8823	-88.1732	1/22/2009	Trap	JBS 090119-2
Okatuppa Creek at Co. Rd. 14 ~1.3 mi ENE Barrytown	Choctaw	sec. 13, T. 10 N., R. 3 W.	31.8404	-88.2284	1/22/2009	Trap	JBS 090119-3
Swamp on W bank of Tombigbee River at Lavaca, near Ezell's Fish Camp under AL Hwy. 10 bridge	Choctaw	sec. 2, T. 13 N., R. 1 W.	32.1300	-88.0485	4/8/2010	Trap	SWM 100406-8
Bogueloosa Creek at Co. Rd. 28 at Needham at Broadhead Wilson Park	Choctaw	sec. 25, T. 12 N., R. 4 W.	31.9874	-88.3321	4/6/2010	Hand Net	SWM 100407-1
Okatuppa Creek at Okatuppa on Co. Rd. 18	Choctaw	sec. 8, T. 11 N., R. 4 W.	31.9396	-88.4019	4/7/2010	Hand Net	SWM 100407-2
Gin Creek at Gin Creek Road at Co. Rd. 39 near Emory	Choctaw	sec. 24, T. 10 N., R. 5 W.	31.8187	-88.4467	4/7/2010	Hand Net	SWM 100407-3
Tuckabum Creek at AL Hwy. 10 near Yantley ~3 mi E of Alabama/Mississippi state line	Choctaw	sec. 33, T. 15 N., R. 4 W.	32.2321	-88.3894	6/28/2010	Hand Net	SWM 1006228-1
Wildcat Branch of Yantley Creek at Co. Rd. 32 near Mollie and Cromnell	Choctaw	sec. 28, T. 15 N., R. 3 W.	32.2363	-88.2914	6/28/2010	Hand Net	SWM 100628-2
Bogue Chitto Creek at AL Hwy. 10 SE Lisman	Choctaw	sec. 27, T. 14 N., R. 3 W.	32.1540	-88.2729	6/28/2010	Hand Net	SWM 100628-3
Okatuppa Creek at Co. Rd. 20 near Hinton and Rock Springs ~2 mi E Alabama/Mississippi state line	Choctaw	sec. 20, T. 13 N., R. 4 W.	32.0870	-88.4121	6/28/2010	Hand Net	SWM 100628-4
Roadside ditch off U.S. Hwy. 43 S of Thomasville	Clarke	sec. 11, T. 10 N., R. 3 E.	31.8542	-87.7480	1/14/2009	Hand Net	CCJ 090114-1
Cane Creek at Co. Rd. 1	Clarke	sec. 26, T. 9 N., R. 5 E.	31.7999	-87.5344	1/14/2009	Hand Net	CCJ 090114-2
Pigeon Creek at U.S. Hwy. 84	Clarke	sec. 7, T. 7 N., R. 5 E.	31.5854	-87.6035	1/14/2009	Hand Net/Digging	CCJ 090114-3
James Creek at Co. Rd. 22	Clarke	sec. 18, T. 8 N., R. 4 E.	31.6707	-87.7062	1/14/2009	Hand Net/Digging	CCJ 090114-4
Jackson Creek at AL Hwy. 69 ~1.0 mi SE Mays Crossroads	Clarke	sec. 9, T. 7 N., R. 1 E.	31.5902	-87.9764	1/22/2009	Trap	JBS 090119-4
Little Hillabee Creek at AL Hwy. 148 ~1 mi NW Millerville	Clay	sec. 17, T. 21 S., R. 7 E.	33.1974	-85.9387	5/11/2010	Seine/BP	JBS 100511-1
Muscadine Creek at Co. Rd. 35	Cleburne	sec. 30, T. 14 S., R. 12 E.	33.7692	-85.4237	6/10/2010	Seine/BP	JBS 100610-3

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Tallapoosa River at Co. Rd. 49	Cleburne	sec. 21, T. 15 S., R. 12 E.	33.7003	-85.3807	6/22/2010	Seine/BP	SWM 100622-1
Mathews Creek at Co. Rd. 157 crossing	Coffee	sec. 21, T. 5 N., R. 22 E.	31.3880	-85.8499	2/11/2010	Seine/digging/hand net	GAS 10-12
Clearwater Creek at Co. Rd. 105 crossing	Coffee	sec. 22, T. 7 N., R. 22 E.	31.5644	-85.8379	2/11/2010	Seine/digging/hand net	GAS 10-13
Whitewater Creek at Co. Rd. 215	Coffee	sec. 32, T. 7 N., R. 21 E.	31.5386	-85.9818	6/17/2008	Seine/BP	GSA 2216
Spring Creek at Co. Rd. 52 crossing at Spring Valley	Colbert	sec. 1, T. 5 S., R. 11 W.	34.6566	-87.6401	11/6/2008	Seine/digging/hand net	GAS 08-37
Unnamed spring tributary to Sugar Camp Branch and Rock Creek at Coon Dog Cemetery off Co. Rd. 21, Freedom Hill Wildlife Management Area	Colbert	sec. 14, T. 5 S., R. 14 W.	34.6307	-87.9672	10/13/2009	Seine/digging/hand net	GAS 09-48
Buzzard Roost Creek near U.S. Hwy 72	Colbert	sec. 25, T. 3 S., R. 15 W.	34.7674	-88.0574	5/22/2008	Electroboat	GSA 2113
Buzzard Roost Creek at Co. Rd. 21	Colbert	sec. 22, T. 4 S., R. 14 W.	34.6981	-87.9890	8/6/2008	Seine/BP	GSA 2294
Rock Creek at Co. Rd. 1	Colbert	sec. 15, T. 5 S., R. 15 W.	34.6318	-88.0910	8/6/2008	Seine/BP	GSA 2295
Bear Creek at Natchez Trace Parkway	Colbert	sec. 3, T. 5 S., R. 15 W.	34.6597	-88.0921	8/1/2008	Seine/BP	JBS 080801-1
Buck Branch at Co. Rd. 1	Colbert	sec. 1, T. 2 S., R. 15 W.	34.8309	-88.0584	9/9/2008	Seine	JBS 080909-2
Spring Creek at Spring Valley at Co. Rd. 57	Colbert	sec. 1, T. 5 S., R. 11 W.	34.6564	-87.6396	11/6/2008	Seine/Hand Net/Digging	JBS 081106-4
Chandelower Creek at Sally Burns Road	Colbert	sec. 13, T. 5 S., R. 15 W.	34.6276	-88.0624	5/4/2009	Seine/BP	JBS 090504-1
Foxtrap Creek at Co. Rd. 37	Colbert	sec. 31, T. 5 S., R. 10 W.	34.5758	-87.6339	5/28/2009	Seine/BP/Hand Net	JBS 090528-3
Buzzard Roost Creek at U.S. Hwy. 72	Colbert	sec. 31, T. 3 S., R. 14 W.	34.7626	-88.0316	8/12/2009	Seine/BP	JBS 090812-1
Cripple Deer Creek at Co. Rd. 1	Colbert	sec. 16, T. 4 S., R. 15 W.	34.7126	-88.1093	8/19/2009	Seine/BP	JBS 090819-1
Unnamed tributary to Buzzard Roost Creek at Co. Rd. 5	Colbert	sec. 30, T. 3 S., R. 14 W.	34.7763	-88.0407	8/19/2009	Seine/BP	JBS 090819-2
Shogog Creek at Co. Rd. 48 nr. Ford City	Colbert	sec. 19, T. 3 S., R. 9 W.	34.7758	-87.5289	2/15/2008	Digging/Hand Net	SWM 080215-3
Colbert Creek at Colbert Ferry Park at Georgetown N Cherokee	Colbert	sec. 36, T. 2 S., R. 14 W.	34.8380	-87.9554	5/20/2009	Seine/BP/Hand Net	SWM 090520-1
Waterfall Creek (Cane Creek) in Cane Creek Nature Preserve	Colbert	sec. 16, T. 5 S., R. 12 W.	34.6200	-87.7964	2/10/2010	Hand Net	SWM 100216-1
Cane Creek at Linden Meadows in Cane Creek Canyon Nature Preserve	Colbert	sec. 16, T. 5 S., R. 12 W.	34.6241	-87.8045	2/16/2010	Hand Net	SWM 100216-2
Big Spring tributary to Devil's Hollow Creek in Cane Creek Canyon Nature Preserve	Colbert	sec. 8, T. 5 S., R. 12 W.	34.6379	-87.8120	2/16/2010	Hand Net	SWM 100216-3
Unnamed stream in Lower Delony Hollow on Cane Creek Canyon Nature Preserve	Colbert	sec. 8, T. 5 S., R. 12 W.	34.6389	-87.8194	2/16/2010	Hand Net	SWM 100216-4
Simmons Creek at Co. Rd. 43	Conecuh	sec. 11, T. 4 N., R. 13 E.	31.3226	-86.7346	6/19/2008	Seine/BP	GSA 2221
Sizemore Creek at Co. Rd. 27	Conecuh	sec. 32, T. 2 N., R. 7 E.	31.0986	-87.3913	6/24/2008	Seine/BP	JBS 080624-1
Burnt Corn Creek at upper gravel road crossing off Co. Rd. 5 and 15 ~3 mi S Burnt Corn	Conecuh	sec. 3, T. 6 N., R. 9 E.	31.5096	-87.1522	3/16/2010		JTH 100316-1
Unnamed tributary of Burnt Corn Creek at Hwy. 84/12 ~3.2 mi W Belleville	Conecuh	sec. 4, T. 5 N., R. 9 E.	31.4233	-87.1619	3/16/2010		JTH 100316-3
Unnamed tributary of Burnt Corn Creek at Co. Rd. 40 just W Appleton	Conecuh	sec. 14, T. 3 N., R. 9 E.	31.2308	-87.1345	3/17/2010		JTH 100317-1
Brushy Creek at old Co. Rd. 10/new Co. Rd. 6 ~1/2 mi W Lenox	Conecuh	sec. 6, T. 4 N., R. 9 E.	31.3368	-87.1944	3/17/2010		JTH 100317-2
Jordan Creek at Co. Rd. 17 between I-65 and U.S. Hwy. 31	Conecuh	sec. 34, T. 5 N., R. 10 E.	31.3623	-87.0484	3/19/2010		JTH 100319-1
Autry Creek at U.S. Hwy. 31	Conecuh	sec. 24, T. 5 N., R. 10 E.	31.3871	-87.0188	3/9/2010		MLB 100309-3
Unnamed tributary of Burnt Corn Creek at Co. Rd. 5 ~1.5 mi NE Burmuda	Conecuh/Monroe	sec. 8, T. 6 N., R. 9 E.	31.5035	-87.1785	3/16/2010		JTH 100316-2
Big Escambia Creek at Old Stage Rd. NE Vocation	Conecuh/Monroe	sec. 16, T. 4 N., R. 7 E.	31.3118	-87.3738	1/19/2009	Trap	SWM 090119-3
Swamp Creek at U.S. Hwy. 231 ~3 mi S Rockford	Coosa	sec. 1, T. 21 S., R. 18 E.	32.8345	-86.2228	6/22/2010	Seine/BP	SWM 100622-2
Feagin Creek at Co. Rd. 41	Covington	sec. 10, T. 5 N., R. 16 E.	31.4186	-86.4348	6/17/2008	Seine/BP	GSA 2217
Five Runs Creek at unnumbered Co. Rd.	Covington	sec. 29, T. 3 N., R. 22 W.	31.1931	-86.4744	6/18/2008	Seine/BP	GSA 2218
Hogfoot Creek at unnumbered road (Blue Springs?)	Covington	sec. 23/24, T. 2 N., R. 23 W.	31.1273	-86.5137	6/18/2008	Seine/BP	GSA 2219
Teel Creel at Co. Rd. 25	Covington	sec. 23, T. 3 N., R. 24 E.	31.2127	-86.6265	6/16/2008	Seine/BP	GSA 2245
Prestwood Creek at U.S. Hwy. 84	Covington	sec. 2, T. 4 N., R. 15 E.	31.3380	-86.5209	6/16/2008	Seine/BP	JBS 080616-1
Pond Creek at Co. Rd. 24 in Conecuh National Forest	Covington	sec. 27, T. 2 N., R. 23 W.	31.1025	-86.5389	6/18/2008	Seine/BP	JBS 080618-1
Little Patsaliga Creek at Taylor Crossing, gravel road off Co. Rd. 68	Crenshaw	sec. 15, T. 11 N., R. 17 E.	31.9499	-86.3531	2/5/2009	Trap	CCJ 090203-1
Poley Creek at Co. Rd. 30	Crenshaw	sec. 9, T. 10 N., R. 18 E.	31.8522	-86.2540	2/5/2009	Trap	CCJ 090203-2
Double Branch at unnumbered county road (Old Dozier Road)	Crenshaw	sec. 35, T. 7 N., R. 17 E.	31.5313	-86.3192	2/5/2009	Trap	CCJ 090203-3
Bryan Mill Creek at unmarked road (Club Pond Road)	Crenshaw	sec. 24, T. 7 N., R. 18 E.	31.5742	-86.2119	2/5/2009	Trap	CCJ 090203-4
Broadhead Creek at Co. Rd. 28	Crenshaw	sec. 33, T. 9 N., R. 19 E.	31.7135	-86.1538	2/5/2009	Trap	CCJ 090203-5
Duck River at Co. Rd. 38	Cullman	sec. 36, T. 10 S., R. 2 W.	34.1304	-86.7049	6/2/2010	Seine/BP	CCJ 100602-3

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
York Branch (tributary of Ryan Creek) at Co. Rd. 469 ~0.25 km SW of Exit 308, I-65 and U.S. Hwy. 278 junction	Cullman	sec. 17/20, T. 10 S., R. 3 W.	34.1632	-86.8794	10/14/2009	Seine/digging/hand net	GAS 09-50
Killpatrick Creek, tributary to Ryan Creek, at unnumbered county road N I-65 Exit 310 ~2.7 mi NE Baldwin	Cullman	sec. 31, T. 9 S., R. 3 W.	34.2135	-86.8809	10/28/2009	Trap	JBS 091021-2
Crooked Creek at unnumbered county road (Shady Grove Road?) ~2.0 mi WNW Guthery Crossroads	Cullman	sec. 3, T. 11 S., R. 5 W.	34.1231	-87.0485	10/28/2009	Trap	JBS 091021-3
Blevens Creek at Co. Rd. 1043 (old bridge crossing downstream of new bridge)	Cullman	sec. 29, T. 9 S., R. 5 W.	34.2308	-87.0871	10/29/2009	Trap/Digging	JBS 091022-4
Sullivan Creek at Washington (Loop) Road ~2.7 mi S Arkadelphia	Cullman	sec. 33, T. 13 S., R. 4 W.	33.8727	-86.9613	12/1/2009	Trap	JBS 091112-3
Dorsey Creek at AL Hwy. 91 ~1.2 mi SW Arkadelphia	Cullman	sec. 20, T. 13 S., R. 4 W.	33.8948	-86.9774	12/1/2009	Trap	JBS 091112-4
Dorsey Creek at Co. Rd. 30 ~2.0 mi E Wilburn	Cullman	sec. 31, T. 12 S., R. 4 W.	33.9525	-87.0041	12/1/2009	Trap	JBS 091112-5
Duck River at AL Hwy. 69 near Birdsong and Fairview	Cullman	sec. 20, T. 9 S., R. 1 W.	34.2439	-86.6538	10/28/2008	Trap	SWM 081020-1
Duck River at Co. Rd. 1651 E Oak Level, NW Holly Pond	Cullman	sec. 36, T. 10 S., R. 2 W.	34.1952	-86.6882	10/28/2008	Trap	SWM 081020-2
Duck River at Co. Rd. 747 near confluence with Mulberry Fork	Cullman	sec. 13, T. 11 S., R. 2 W.	34.0865	-86.6971	10/28/2008	Trap	SWM 081020-3
Ryan Creek at Co. Rd. 436 ~3 mi SW Cullman near Grandview	Cullman	sec. 7, T. 10 S., R. 1 E.	34.1456	-86.8947	5/20/2010	Seine/BP	SWM 100520-1
Crooked Creek at Clarkson-Legg Covered Bridge at Co. Rd. 1043	Cullman	sec. 6, T. 10 S., R. 4 W.	34.2072	-86.9906	10/28/2008	Trap	JBS 081022-3
Ryan Creek at Co. Rd. 436 ~1.2 mi NNE Grandview	Cullman	sec. 25, T. 10 S., R. 4 W.	34.1454	-86.8944	10/28/2009	Trap	JBS 091021-1
Mulberry Fork at U.S. Hwy. 278 ~3.5 mi E Holly Pond	Cullman/Blount	sec. 17, T. 10 S., R. 1 E.	34.1740	-86.5602	10/28/2008	Trap	JBS 081022-1
Mulberry Fork at Bradley Road	Cullman/Blount	sec. 14, T. 9 S., R. 1 E.	34.2519	-86.5028	10/28/2008	Trap	JBS 081022-2
Mossy Camp Branch at Co. Rd. 55	Dale	sec. 55, T. 4 N., R. 24 E.	31.2825	-85.6021	7/28/2009	Seine/BP	JBS 090728-2
Unnamed tributary to Little Choctawhatchee River at Co. Rd. 563	Dale	sec. 32, T. 4 S., R. 25 E.	31.2728	-85.5652	7/30/2009	Seine/BP	JBS 090730-3
Seabes Creek at Co. Rd. 67	Dale	sec. 19, T. 5 N., R. 26 E.	31.3893	-85.4806	6/12/2008	Seine/BP	JBS 080612-2
Dunham Creek at Co. Rd. 16/14 at Dale/Henry county line ~4.5 mi WNW Headland	Dale/Henry Co. Line	sec. 35, T. 5 N., R. 26 E.	31.3633	-85.4175	6/12/2008	Seine/BP	JBS 080612-1
Little Choctawhatchee River at U.S. Hwy. 84	Dale/Houston	sec. 5, T. 3 N., R. 24 E.	31.2614	-85.6678	7/28/2009	Seine/BP	JBS 090728-1
Soapstone Creek at U.S. Hwy. 80 nr. Selma	Dallas	sec. 31, T. 19 N., R. 12 E.	32.3227	-86.9060	4/3/2008	Seine/Trap/Digging	JBS 080401-1
Floodplain at Selma Fitness and Wellness Center at Medical Center Parkway, Selma	Dallas	sec. 26, T. 16 N., R. 11 E.	32.4187	-87.0446	4/16/2009	Digging	JTH 090416-1
Hogan Creek ~1.5 mi W Crumptonia	Dallas	sec. 1, T. 14 N., R. 7 E.	32.2080	-87.3194	6/25/2009	Hand Net	JTH 090625-2
Dry Cedar Creek at Co. Rd. 85 SE Swink, NE Minter	Dallas	sec. 9, T. 13 N., R. 11 E.	32.1165	-86.9602	6/30/2009		JTH 090630-1
Cedar Creek at Co. Rd. 4 near Minter	Dallas	sec. 20, T. 13 N., R. 11 E.	32.0791	-86.9835	6/30/2009		JTH 090630-2
Chilatchee Creek at AL Hwy. 5	Dallas/Wilcox	sec. 30, T. 15 N., R. 7 E.	32.2363	-87.4088	6/25/2009	Hand Net	JTH 090625-1
Town Creek at AL Hwy. 117 crossing at Double Bridges	DeKalb	sec. 36, T. 4 S., R. 9 E.	34.6485	-85.6478	3/12/2009	Seine/digging/hand net	GAS 09-06
West Fork Lookout Creek S Hawkins Rd. at Bean Cemetery, E U.S. Hwy. 11, NNE Dixie Brown Spring	DeKalb	sec. 8, T. 5 S., R. 10 E.	34.6237	-85.6012	3/12/2009	Seine/digging/hand net	GAS 09-07
Bengis Creek at Co. Rd. 116	DeKalb	sec. 25, T. 5 S., R. 8 E.	34.5734	-85.7512	3/12/2009	Seine/digging/hand net	GAS 09-08
Bengis Creek at Co. Rd. 108 crossing	DeKalb	sec. 10, T. 6 S., R. 8 E.	34.5246	-85.7814	3/12/2009	Seine/digging/hand net	GAS 09-09
Jackie Branch at unnumbered county road	DeKalb	sec. 18, T. 6 S., R. 7 E.	34.5097	-85.9472	3/13/2009	Seine/digging/hand net	GAS 09-11
South Sauty Creek at Co. Rd. 47 crossing	DeKalb	sec. 20, T. 6 S., R. 7 E.	34.4992	-85.9295	3/13/2009	Seine/digging/hand net	GAS 09-12
Scarham Creek at Co. Rd. 20	DeKalb	sec. 14, T. 8 S., R. 6 E.	34.3308	-85.9777	3/13/2009	Seine/digging/hand net	GAS 09-13
Scarham Creek at AL Hwy. 227 crossing ~ 1.2 mi N Crossville	DeKalb	sec. 27, T. 8 S., R. 6 E.	34.3047	-85.9923	3/13/2009	Seine/digging/hand net	GAS 09-14
Unnamed tributary of Little River at DeSoto State Park, below lodge	DeKalb	sec. 20, T. 6 S., R. 10 E.	34.4950	-85.6161	11/9/2009	Seine/digging/hand net	GAS 09-51
Burrows along West Fork Lookout Creek S Hawkins Rd. (Bean Cemetery) E U.S. Hwy. 11, NNE Dixie Brown Spring (Coots property)	DeKalb	sec. 8, T. 5 S., R. 10 E.	34.6237	-85.6012	11/10/2009	Seine/digging/hand net	GAS 09-52
Unnamed spring along Co. Rd. 239 ~0.65 km NE of U.S. Hwy. 11 jct (Milligan property)	DeKalb	sec. 5, T. 5 S., R. 10 E.	34.6289	-85.6020	11/10/2009	Seine/digging/hand net	GAS 09-53
West Fork Lookout Creek at Paul Ray property, 0.5 km E of Co. Rd. 239, near the Alabama/Georgia state line	DeKalb	sec. 24, T. 4 S., R. 10 E.	34.6809	-85.5466	11/10/2009	Seine/digging/hand net	GAS 09-54
Dry Creek at Co. Rd. 889 crossing E U.S. Hwy. 11	DeKalb	sec. 14, T. 4 S., R. 10 E.	34.6959	-85.5602	11/10/2009	Seine/digging/hand net	GAS 09-55
West Fork Lookout Creek at Co. Rd. 137 crossing W of Railroad Valley and U.S. Hwy. 11	DeKalb	sec. 17, T. 5 S., R. 10 E.	34.6008	-85.6153	11/10/2009	Seine/digging/hand net	GAS 09-56
Millers Creek at Co. Rd. 155 crossing SE Shiloh	DeKalb	sec. 32, T. 2 S., R. 10 E.	34.8268	-85.6159	11/12/2009	Seine/digging/hand net	GAS 09-63

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Town Creek at AL Hwy. 117 at Double Bridges	DeKalb	sec. 36, T. 4 S., R. 9 E.	34.6484	-85.6477	3/12/2009	Seine/Hand Net	JBS 090312-4
Bengis Creek at Co. Rd. 116 ~1.5 mi E Mahan Crossroads	DeKalb	sec. 26, T. 5 S., R. 8 E.	34.5735	-85.7515	3/12/2009	Seine/Hand Net/Trap	JBS 090312-6
Bengis Creek at Co. Rd. 108 ~3.1 mi SE Sylvania	DeKalb	sec. 10, T. 6 S., R. 8 E.	34.5246	-85.7815	3/12/2009	Seine/Hand Net/Trap	JBS 090312-7
Unnamed tributary to South Sauty Creek at Co. Rd. 120	DeKalb	sec. 18, T. 6 S., R. 7 E.	34.5099	-85.9471	3/13/2009	Seine/Hand Net/Digging	JBS 090313-2
South Sauty Creek at Co. Rd. 47 ~3.1 mi SW Powell	DeKalb	sec. 20, T. 6 S., R. 7 E.	34.4994	-85.9294	3/13/2009	Seine/Hand Net	JBS 090313-3
Scarham Creek at Co. Rd. 20	DeKalb	sec. 13, T. 8 S., R. 6 E.	34.3308	-85.9777	3/13/2009	Seine	JBS 090313-4
Scarham Creek at AL Hwy. 227 ~1.0 mi N Crossville	DeKalb	sec. 27, T. 8 S., R. 6 E.	34.3047	-85.9923	3/13/2009	Seine/Hand Net	JBS 090313-5
South Fork at Co. Rd. 33 ~1.1 mi NNE Crossville	DeKalb	sec. 27, T. 8 S., R. 6 E.	34.3047	-85.9849	3/13/2009	Seine/Hand Net	JBS 090313-6
Town Creek at AL Hwy. 117 at Double Bridges	DeKalb	sec. 36, T. 4 S., R. 9 E.	34.6487	-85.6477	6/4/2009	Seine/BP/Hand Net	JBS 090604-1
Town Creek at Co. Rd. 50 ~0.25 mi NNW Guest	DeKalb	sec. 14, T. 7 S., R. 7 E.	34.4269	-85.8755	6/5/2009	Seine/BP/Hand Net	JBS 090605-1
Reedy Creek at Co. Rd. 328	DeKalb	sec. 2, T. 8 S., R. 6 E.	34.3733	-85.9808	6/10/2009	Seine/BP	JBS 090610-2
Dry Creek along Sulphur Spring Road ~1/2 mi W Alabama/Georgia state line	DeKalb	sec. 14, T. 4 S., R. 10 E.	34.6961	-85.5605	2/18/2010		MLB 100218-1
South Sauty Creek at Co. Rd. 47	DeKalb	sec. 20, T. 6 S., R. 7 E.	34.4991	-85.9289	6/11/2009	Seine/BP	PEO 090611-1
Laurel Creek at Co. Rd. 302 near Fairview and Gilbert's Crossroads, upstream of Co. Rd. 843	DeKalb	sec. 8, T. 8 S., R. 7 E.	34.3526	-85.9249	3/13/2009	Trap	SWM 090310-1
Scarham Creek at Co. Rd. 28 NW Crossville	DeKalb	sec. 20, T. 8 S., R. 6 E.	34.3032	-86.0204	3/13/2009	Trap	SWM 090310-2
Scarham Creek at Co. Rd. 82 near County Line	DeKalb	sec. 34, T. 8 S., R. 5 E.	34.2952	-86.0959	3/13/2009	Trap	SWM 090310-3
Bengis Creek at Co. Rd. 108	DeKalb	sec. 10, T. 6 S., R. 8 E.	34.5246	-85.7813	3/13/2009	Trap	SWM 090310-4
Bengis Creek at Co. Rd. 116 between Mahan and High Point	DeKalb	sec. 25, T. 5 S., R. 8 E.	34.5731	-85.7508	3/13/2009	Trap	SWM 090310-5
West Fork Lookout Creek at Coots property near Bean Cemetery off Hawkins Rd.	DeKalb	sec. 8, T. 5 S., R. 10 E.	34.6239	-85.6014	3/24/2009	Trap	SWM 090319-1
Spring tributary to West Fork Lookout Creek on Milligan property off Hawkins Road	DeKalb	sec. 4, T. 5 S., R. 10 E.	34.6286	-85.6018	3/24/2009	Trap/Hand Net	SWM 090319-2
Lookout Creek at RR trestle at Alabama/Georgia state line	DeKalb	sec. 24, T. 4 S., R. 10 E.	34.6808	-85.5448	3/19/2009	Hand Net	SWM 090319-3
East Fork Lookout Creek at Co. Rd. 760 at Bradshaw property	DeKalb	sec. 16, T. 5 S., R. 10 E.	34.6006	-85.5986	3/19/2009	Trap/Hand Net	SWM 090319-4
Spring tributary to East Fork Lookout Creek at Brown property near Kaolin	DeKalb	sec. 3, T. 5 S., R. 10 E.	34.6267	-85.5790	3/19/2009	Trap/Hand Net	SWM 090319-5
Big Wills Creek at AL Hwy. 35 N Fort Payne	DeKalb	sec. 11, T. 6 S., R. 8 E.	34.4383	-85.7668	3/24/2009	Trap	SWM 090320-1
Big Wills Creek at AL Hwy. 68 near Collinsville	DeKalb	sec. 3, T. 9 S., R. 7 E.	34.2841	-85.8960	3/24/2009	Trap	SWM 090320-2
Laurel Creek at Azalea Cascade Trail and Co. Rd. 89 in DeSoto State Park	DeKalb	sec. 19, T. 6 S., R. 10 E.	34.4990	-85.6178	11/12/2009	Hand Net	SWM 091112-1
West Fork Lookout Creek at Hester property on U.S. Hwy. 11 ~2.5 mi E Hammondville	DeKalb	sec. 8, T. 5 S., R. 10 E.	34.6187	-85.6104	11/12/2009	Hand Net	SWM 091112-2
Dry Creek at Doug Hick's property near Sequoyah Caverns	DeKalb	sec. 28, T. 4 S., R. 10 E.	34.6633	-85.5969	11/12/2009	Hand Net	SWM 091112-3
Dry Creek at bridge near lake on U.S. Hwy. 11 between U.S. Hwy. 11 and I-59	DeKalb	sec. 5, T. 4 S., R. 10 E.	34.6334	-85.6160	11/12/2009	Hand Net	SWM 091112-4
Unnamed tributary of West Fork Little River at Co. Rd. 642 E Mentone	DeKalb	sec. 26, T. 5 S., R. 10 E.	34.5808	-85.5581	11/13/2009	Hand Net	SWM 091113-1
Brush Creek of Middle Fork of Little River at Co. Rd.106, upstream of impounded stretch of river	DeKalb	sec. 12, T. 6 S., R. 10 E.	34.5349	-85.5320	11/13/2009	Hand Net	SWM 091113-2
Kenner Creek at Co. Rd. 7 crossing	Elmore	sec. 17, T. 18 N., R. 17 E.	32.5450	-86.3949	2/11/2010	Seine/digging/hand net	GAS 10-15
Kenner Creek confluence with unnamed tributary upstream of Co. Rd. 7	Elmore	sec. 18, T. 18 N., R. 17 E.	32.5450	-86.3983	4/13/2010	Trap/Hand Net	SWM 100412-1
Murder Creek at Co. Rd. 6 near Castleberry	Escambia	sec. 24, T. 4 N., R. 10 E.	31.3019	-87.0122	6/19/2008	Seine/BP	GSA 2222
Burnt Corn Creek at U.S. Hwy. 29/31	Escambia	sec. 29, T. 2 N., R. 10 E.	31.1025	-87.0760	6/19/2008	Seine/BP	GSA 2254
Burnt Corn Creek at Co. Rd. 40	Escambia	sec. 15, T. 3 N., R. 9 E.	31.2291	-87.1484	7/17/2008	Seine/BP	GSA 2274
Little Escambia Creek at U.S. Hwy. 31	Escambia	sec. 30, T. 1 N., R. 9 E.	31.0203	-87.2073	7/17/2008	Seine/BP	GSA 2275
Blackwater River at Co. Rd. 2 ~1.0 mi from Bradley	Escambia	sec. 24, T. 1 N., R. 13 E.	31.0303	-86.7042	6/18/2008	Seine/BP	JBS 080618-2
Jernigan Mill Creek at Louisville Street	Escambia	sec. 21, T. 1 N., R. 9 E.	31.0338	-87.1645	6/19/2008	Seine/BP	JBS 080619-1
Murder Creek at U.S. Hwy. 29/31 at Brewton	Escambia	sec. 28, T. 2 N., R. 10 E.	31.1014	-87.0679	6/19/2008	Seine/BP	JBS 080619-3
Franklin Mill Creek at U.S. Hwy. 31	Escambia	sec. 1, T. 1 N., R. 9 E.	31.0799	-87.1140	6/19/2008	Seine/BP	JBS 080619-4
Perdido River at RR Street in Nokomis	Escambia	sec. 31, T. 1 N., R. 5 E.	31.0037	-87.5993	6/26/2008	Seine/BP	JBS 080626-1
Little Canoe Creek at Rocky Hollow Road	Etowah	sec. 24, T. 12 S., R. 4 E.	33.9722	-86.1849	6/25/2009	Seine/BP	CCJ 090625-1
Locust Fork at Number 2 Cove Road ~1.0 mi NE Walnut Grove	Etowah	sec. 14, T. 11 S., R. 3 E.	34.0841	-86.2882	7/21/2010	Seine/BP	JBS 100721-1
Bristow Creek at Pine Grove	Etowah	sec. 7, T. 11 S., R. 4 E.	34.0881	-86.2575	7/21/2010	Seine/BP	JBS 100721-2
Private Lake near Egypt on unnamed tributary to Line Creek	Etowah	sec. 17, T. 11 S., R. 5 E.	34.0718	-86.1439	3/13/2009	Trap/Hand Net	SWM 090310-6

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Big Wills Creek at Co. Rd. N Reece City, u/s of Cave Spring	Etowah	sec. 6, T. 11 S., R. 6 E.	34.0973	-86.0386	3/24/2009	Trap	SWM 090320-3
Turkeytown Creek at Co. Rd. 345 (Turkeytown Rd.) N Turkeytown	Etowah	sec. 9, T. 11 S., R. 7 E.	34.0955	-85.9011	3/24/2009	Trap/Hand Net	SWM 090320-4
Unnamed tributary of Brown Creek at U.S. 278 at Carnes Chapel Methodist Church	Etowah	sec. 30, T. 11 S., R. 5 E.	34.0462	-86.1586	3/24/2009	Hand Net	SWM 090324-1
Little Canoe Creek at Rocky Hollow Road	Etowah	sec. 24, T. 12 S., R. 4 E.	33.9698	-86.1783	8/26/2009	Hand Net	SWM 090826-1
Black Creek at U.S. Hwy. 278 in Gadsden	Etowah	sec. 5, T. 12 S., R. 6 E.	34.0237	-86.0297	6/9/2010	Seine/BP	JBS 100609-3
Hells Creek at Kirkland Rd. crossing, ~1.25 mi S of Bluff	Fayette	sec. 28/33, T. 14 S., R. 13 W.	33.8028	-87.9105	11/5/2008	Seine/digging/hand net	GAS 08-32
Unnamed trib. to Sipsey River at Co. Rd. 53 ~0.5 mi NNE Ford's Mountain	Fayette	sec. 36, T. 14 S., R. 12 W.	33.7855	-87.7386	3/21/2008	Seine	JBS 080321-1
Tributary to Boxes Creek at Co. Rd. 53	Fayette	sec. 17, T. 14 S., R. 11 W.	33.8249	-87.7141	3/21/2008	Dip Net/Digging	JBS 080321-2
Deadwater Creek at confluence with Clear Creek at AL Hwy. 13 ~1.5 mi SE Bankston	Fayette	sec. 14, T. 16 S., R. 11 W.	33.6620	-87.6515	7/22/2008	Seine/BP/Digging	JBS 080722-1
Davis Creek at Co. Rd. 35	Fayette	sec. 13, T. 17 S., R. 12 W.	33.5767	-87.7442	8/7/2008	Seine/Hand Net/Digging	JBS 080807-1
Hells Creek at Holliman Bottom ~1.5 mi SSW Bluff	Fayette	sec. 28, T. 14 S., R. 13 W.	33.8026	-87.9104	11/5/2008	Hand Net/Digging	JBS 081105-4
Luxapallila Creek at Co. Rd. 6 ~0.75 mi WSW Belk	Fayette	sec. 19, T. 16 S., R. 13 W.	33.6455	-87.9437	1/15/2009	Trap	JBS 090113-2
Luxapallila Creek at Co. Rd. 42 near Porter's Crossing	Fayette	sec. 24, T. 14 S., R. 13 W.	33.8277	-87.8515	1/15/2009	Trap	JBS 090113-5
Luxapallila Creek at Moss Bottom Crossing ~1.0 mi NW Bobo	Fayette	sec. 30, T. 13 S., R. 12 W.	33.8894	-87.8397	1/15/2009	Trap	JBS 090113-7
Moss Branch at Co. Rd. 88	Fayette	sec. 21, T. 13 S., R. 12 W.	33.9098	-87.7959	1/14/2009	Hand Net/By Hand	JBS 090114-1
North River at Jenkins Cemetery	Fayette	sec. 29, T. 15 S., R. 10 W.	33.7172	-87.6051	8/7/2009	Seine/BP	JBS 090807-1
Clear Creek at Lowery Rd. near Cleveland, downstream of Bay's Lake	Fayette	sec. 2, T. 16 S., R. 11 W.	33.6895	-87.6637	9/30/2008	Trap	SWM 080922-1
Clear Creek at Clear Creek Rd. u/s of Bay's Lake and Boles Creek confluence	Fayette	sec. 22, T.15 S., R. 11 W.	33.7363	-87.6729	10/8/2008	Trap	SWM 080930-1
Wolf Creek at Wolf Creek Rd. ~0.2 mi N AL Hwy. 102	Fayette	sec. 25, T. 14 S., R. 10 W.	33.7994	-87.5334	8/13/2009	Hand Net	SWM 090813-1
Luxapallila Creek at Dodson Crossing on gravel road	Fayette	sec. 1, T. 14 S., R. 13 W.	33.8604	-87.8561	1/15/2009	Trap	JBS 090113-6
Gum Creek, along AL Hwy. 19 at Gum Creek Lane crossing	Franklin	sec. 4, T. 8 S., R. 15 W.	34.4023	-88.1211	11/6/2008	Seine/digging/hand net	GAS 08-34
Bear Creek at Co. Rd. 4 (Old Cotton Road) crossing	Franklin	sec. 33, T. 7 S., R. 14 W.	34.4092	-88.0251	11/6/2008	Seine/digging/hand net	GAS 08-35
Bear Creek at Co. Rd. 187 ~3 mi NE of Hodges	Franklin	sec. 16, T., 8 S., R. 13 W.	34.3586	-87.8999	11/6/2008	Seine/digging/hand net	GAS 08-36
Turkey Creek at AL Hwy. 243	Franklin	sec. 17, T. 8 S., R. 10 W.	34.3631	-87.6070	8/18/2008	Seine/BP	GSA 2291
Little Bear Creek at Co. Rd. 59	Franklin	sec. 11, T. 8 S., R. 12 W.	34.3757	-87.7730	8/18/2008	Seine/BP	GSA 2292
Cedar Creek at Pogo	Franklin	sec. 9, T. 6 S., R. 15 W.	34.5628	-88.1091	8/6/2008	Seine/BP	GSA 2296
Little Bear Creek at Co. Rd. 23	Franklin	sec. 31, T. 6 S., R. 14 W.	34.5024	-88.0410	8/5/2008	Seine/BP	GSA 2297
Little Bear Creek at Lawler Cemetery Rd. ~1.2 mi N Duketon	Franklin	sec. 7, T. 8 S., R. 12 W.	34.3828	-87.8368	7/30/2008	Seine/BP	JBS 080730-1
Little Bear Creek at AL Hwy. 24 at Jordan's Mill	Franklin	sec. 15, T. 7 S., R. 14 W.	34.4593	-88.0026	7/31/2008	Seine/BP	JBS 080731-1
Cedar Creek at U.S. Hwy. 43 nr. confluence with Mud Creek	Franklin	sec. 12, T. 7 S., R. 12 W.	34.4659	-87.7530	7/31/2008	Seine/BP	JBS 080731-2
Cedar Creek ~0.5 mi NE Pogo	Franklin	sec. 9, T. 6 S., R. 15 W.	34.5627	-88.1082	9/9/2008	Seine	JBS 080909-1
Cedar Creek at Co. Rd. 15/90 ~0.75 mi ESE Pogo	Franklin	sec. 10, T. 6 S., R. 15 W.	34.5529	-88.0983	9/10/2008	Seine	JBS 080910-1
Bear Creek at Co. Rd. 4	Franklin	sec. 33, T. 7 S., R. 14 W.	34.4093	-88.0251	11/6/2008	Seine/Hand Net	JBS 081106-2
Little Bear Creek at U.S. Hwy. 24 at Jordan's Mill	Franklin	sec. 15, T. 7 S., R. 14 W.	34.4600	-88.0038	3/9/2009	Trap	JBS 090309-1
Cedar Creek downstream of dam at tailrace	Franklin	sec. 14, T. 6 S., R. 14 W.	34.5472	-87.9773	4/29/2009	Seine/BP	JBS 090429-1
Cedar Creek at AL Hwy. 247	Franklin	sec. 11, T. 6 S., R. 14 W.	34.5528	-87.9852	4/29/2009	Seine/BP	JBS 090429-2
Little Bear Creek at AL Hwy. 187	Franklin	sec. 34, T. 7 S., R. 13 W.	34.4018	-87.8719	5/27/2009	Seine/BP	JBS 090527-1
Little Bear Creek at Co. Rd. 23	Franklin	sec. 31, T. 6 S., R. 14 W.	34.5026	-88.0445	5/28/2009	Seine/BP	JBS 090528-1
Cedar Creek at Pogo	Franklin	sec. 9, T. 6 S., R. 15 W.	34.5628	-88.1091	5/28/2009	Seine/BP	JBS 090528-2
Chenault Spring Branch at Co. Rd. 34	Franklin	sec. 14, T. 8 S., R. 10 W.	34.3517	-87.5617	7/9/2009	Seine/Hand Net	JBS 090708-1
Cedar Creek at AL Hwy. 247	Franklin	sec. 30, T. 6 S., R. 14 W.	34.5527	-87.9851	8/11/2009	Seine/BP	JBS 090811-1
Cedar Creek at U.S. Hwy. 43, S Russellville	Franklin	sec. 12, T. 7 S., R. 12 W.	34.4659	-87.7530	5/19/2009	Seine/BP/Hand Net	SWM 090519-2
Hurricane Creek at Co. Rd. 69	Geneva	sec. 17, T. 2 N., R. 24 E.	31.1438	-85.6713	6/10/2008	Seine/BP	GSA 2264
Spring Creek at Co. Rd. 4	Geneva	sec. 27, T. 1 N., R. 22 E.	31.0336	-85.8263	6/12/2008	Seine/BP	GSA 2268
Tight Eye Creek at Co. Rd. 43	Geneva	sec. 11, T. 2 N., R. 20 E.	31.1516	-86.0100	6/12/2008	Seine/BP	GSA 2269
Double Bridges Creek at Co. Rd. 40	Geneva	sec. 19, T. 2 N., R. 21 E.	31.1289	-85.9806	6/12/2008	Seine/BP	JBS 080612-3
Eightmile Creek at Co. Rd. 4	Geneva	sec. 32, T. 1 N., R. 19 E.	31.0093	-86.1613	6/17/2008	Seine/BP	JBS 080617-1
Flat Creek at AL Hwy. 54	Geneva	sec. 28, T. 2 N., R. 19 E.	31.1091	-86.1459	6/17/2008	Seine/BP	JBS 080617-2
Dallas Creek tributary at Co. Rd. 69	Greene	sec. 17, T. 19 N., R. 1 E.	32.6287	-88.0147	3/19/2008	Trap/Digging	JBS 080306-4

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Trussels Creek at Co. Rd. 20 ~1.5 mi N Crawford Fork	Greene	sec. 2, T. 21 N., R. 1 W.	32.8335	-88.0634	3/19/2008	Trap/Digging/Seine	JBS 080306-5
Backbone Creek at Co. Rd. 18 at COE boat launch	Greene	sec. 5, T. 18 N., R. 3 E.	32.5680	-87.8108	4/15/2008	Trap	JBS 080408-1
Roadside ditch at Co. Rd. 18 ~1.6 mi ESE Birdine	Greene	sec. 20, T. 19 N., R. 3 E.	32.6060	-87.8019	4/8/2008	Seine/Digging	JBS 080408-2
Brush Creek at Co. Rd. 208 nr. Mantua	Greene	sec. 19, T. 24 N., R. 13 W.	33.0418	-87.9288	8/8/2008	Trap	JBS 080806-1
Sipsey River at Co. Rd. 181 ~2 mi N Lewiston	Greene	sec. 19, T. 24 N., R. 1 E.	33.0539	-88.0391	8/8/2008	Trap/Digging	JBS 080806-3
Wetland just E Tombigbee River at I-59/20	Greene	sec. 20, T. 20 N., R. 1 W.	32.7414	-88.0944	9/4/2008	Trap	JBS 080822-1
Roadside ditch near South Needham Creek at Co. Rd. 41 near Dollarhide Swamp	Greene	sec. 32, T. 20 N., R. 3 E.	32.6665	-87.8245	9/3/2008	Digging	JBS 080903-1
Sipsey River ~0.5 mi upstream Benevola Bridge	Greene	sec. 25, T. 22 S., R. 13 W.	33.1077	-87.9468	9/17/2008	Trap	JBS 080917-1
COE Boat Launch ~1.8 mi S Forkland	Greene	sec. 16, T. 19 N., R. 2 E.	32.6265	-87.8830	9/3/2008	Trap/Digging/Mist Nets	JBS 080821-1
Sipsey River at Co. Rd. 156 ~1.5 mi ESE Benevola	Greene/Pickens	sec. 25, T. 22 N., R. 14 W.	33.1031	-87.9501	8/8/2008	Trap/Digging	JBS 080806-4
Elliots Creek at Co. Rd. 50 crossing	Hale	sec. 10, T. 23 N., R. 5 E.	32.9826	-87.5721	11/3/2008	Seine/digging/hand net	GAS 08-19
Latner Branch (headwater tributary of Fivemile Creek) at Co. Rd. 29 crossing, 3 mi E of Ingram	Hale	sec. 19, T. 22 N., R. 6 E.	32.8735	-87.5079	11/3/2008	Seine/digging/hand net	GAS 08-20
Fivemile Creek at AL Hwy. 25 crossing SW Wateroak	Hale	sec. 22, T. 22 N., R. 6 E.	32.8610	-87.4600	11/3/2008	Seine/digging/hand net	GAS 08-21
Unnamed tributary of Sparks Creek at AL Hwy. 25 crossing ~8 mi NE Greenboro	Hale	sec. 19, T. 21 N., R. 6 E.	32.7807	-87.5209	11/3/2008	Seine/digging/hand net	GAS 08-22
Picks Creek (headwater of Little Praire Creek) at AL Hwy. 25 crossing ~4.5 mi S Greensboro	Hale	sec. 8, T. 19 N., R. 5 E.	32.6369	-87.6045	11/3/2008	Seine/digging/hand net	GAS 08-23
Gabriel Creek at Co. Rd. 21	Hale	sec. 26, T. 23 N., R. 4 W.	32.9419	-87.6597	3/12/2008	Trap	JBS 080306-2
Unnamed tributary to Reedy Branch and wetland ~1.6 mi WNW Akron	Hale	sec. 15, T. 22 N., R. 3 E.	32.8894	-87.7755	3/19/2008	Trap	JBS 080306-3
Smelley Farm at AL Hwy. 25	Hale	sec. 7, T. 19 N., R. 5 E.	32.6203	-87.5983	4/8/2008	Trap/Digging	JBS 080408-5
Little Prairie Creek at AL Hwy. 25	Hale	sec. 8, T. 19 N., R. 5 E.	32.6366	-87.6040	11/3/2008	Seine/Hand Net/Digging	JBS 081103-2
Big German Creek at State Cattle Ranch	Hale	sec. 10, T. 9 N., R. 4 E.	32.6413	-87.6685	11/21/2008	Seine/Digging	CCJ 081121-1
Big German Creek at Co. Rd. 16	Hale	sec. 16, T. 19 N., R. 4 E.	32.6127	-87.6865	11/21/2008	Seine/Digging	CCJ 081121-2
Abbie Creek at AL Hwy. 95	Henry	sec. 20, T. 6 N., R. 29 E.	31.4718	-85.1619	6/11/2008	Seine/BP	JBS 080611-2
Peterman Creek at Co. Rd. 28	Henry	sec. 20, T. 6 N., R. 29 E.	31.4794	-85.1467	6/11/2008	Seine/BP	JBS 080611-3
Cowarts Creek at Prevatt Road crossing	Houston	sec. 1, T. 2 N., R. 27 E.	31.1767	-85.2978	2/10/2010	Seine/digging/hand net	GAS 10-10
Unnamed tributary and ditch along Rocky Creek Rd., ~0.5 km NNE Co. Rd. 8	Houston	sec. 35, T. 2 N., R. 28 E.	31.1039	-85.2080	2/10/2010	Seine/digging/hand net	GAS 10-11
Irwin Mill Creek at AL Hwy. 95 ~0.5 mi N Alabama/Florida state line	Houston	sec. 17, T. 7 N., R. 8 W.	31.0053	-85.0410	6/10/2008	Seine/BP	JBS 080610-1
Big Creek at Co. Rd. 55 (State Line Rd.) (a.k.a. GSA 2235)	Houston	sec. 33, T. 1 N., R. 27 E.	31.0202	-85.3501	6/10/2008	Seine/BP	JBS 080610-2
Hurricane Creek at Co. Rd. 22	Houston	sec. 20, T. 4 N., R. 29 E.	31.3054	-85.1617	6/11/2008	Seine/BP	JBS 080611-1
Omussee Creek at Kinsey Rd. (Co. Rd. 48)	Houston	sec. 32, T. 3 N., R. 27 E.	31.2673	-85.3517	6/11/2008	Seine/BP	JBS 080611-4
Little Choctawhatchee River at Brannon Stand Rd. near Dothan	Houston	sec. 7, T. 3 N., R. 26 E.	31.2457	-85.4816	6/13/2008	Seine/BP	JBS 080613-1
Little Choctawhatchee River at U.S. Hwy. 231 in Dothan	Houston	sec. 4, T. 3 N., R. 26 E.	31.2642	-85.4389	7/29/2009	Seine/BP	JBS 090729-1
Murphy Mill Branch at Kelly Spring Road	Houston	sec. 32, T. 4 N., R. 26 E.	31.2768	-85.4612	7/29/2009	Seine/BP	JBS 090729-2
Panther Creek at Panther Road	Houston	sec. 7, T. 3 N., R. 25 E.	31.2433	-85.5838	7/30/2009	Seine/BP	JBS 090730-1
Bear Creek at Fortner Road	Houston	sec. 28, T. 3 N., R. 25 E.	31.2084	-85.5480	7/30/2009	Seine/BP	JBS 090730-2
Larkin Fork off Co. Rd. 27	Jackson	sec. 4, T. 2 S., R. 4 E.	34.9008	-86.2194	5/22/2009	Seine/BP	CCJ 090522-1
Paint Rock River and feeder stream ~2 mi N Trenton at ford	Jackson	sec. 18, T. 3 S., R. 4 E.	34.7754	-86.2510	3/11/2009	Seine/digging/hand net	GAS 09-01
Roadside ditch (Houston Branch) along Co. Rd. 42	Jackson	sec. 1, T. 3 S., R. 6 E.	34.8084	-85.9514	3/11/2009	Seine/digging/hand net	GAS 09-02
Little Coon Creek at Co. Rd. 53 W Rash	Jackson	sec. 9, T. 2 S., R. 7 E.	34.8744	-85.9104	3/11/2009	Seine/digging/hand net	GAS 09-03
Kash Creek at AL Hwy. 117 crossing	Jackson	sec. 7, T. 3 S., R. 9 E.	34.7903	-85.7250	3/12/2009	Seine/digging/hand net	GAS 09-04
Flat Rock Creek at Flat Rock at AL Hwy. 117 crossing	Jackson	sec. 17, T. 3 S., R. 9 E.	34.7717	-85.7099	3/12/2009	Seine/digging/hand net	GAS 09-05
Kirby Creek at AL Hwy. 35 NW Powell	Jackson	sec. 31, T. 5 S., R. 7 E.	34.5597	-85.9443	3/13/2009	Seine/digging/hand net	GAS 09-10
Guest Creek at Co. Rd. 93 crossing ~0.25 mi N Co. Rd. 296	Jackson	sec. 25, T. 1 S., R. 9 E.	34.9248	-85.6484	11/12/2009	Seine/digging/hand net	GAS 09-64
Unnamed tributary (Culvert Creek) of Tennessee River at Co. Rd. 93 crossing, NW of Long Island, about 0.1 mi from Alabama/Tennessee state line	Jackson	sec. 3, T. 1 S., R. 9 E.	34.9818	-85.6711	11/12/2009	Seine/digging/hand net	GAS 09-65
Roadside ditch near Houston Spring on Co. Rd. 42 ~1.0 mi E Carns	Jackson	sec. 1, T. 3 S., R. 6 E.	34.8084	-85.9515	3/11/2009	Seine/Hand Net/Digging	JBS 090311-2
Unnamed tributary of Tennessee River on AL Hwy 117 near Old Fabius	Jackson	sec. 34, T. 2 S., R. 8 E.	34.8744	-85.9105	3/12/2009	Hand Net	JBS 090312-1
Flat Rock Creek at AL Hwy. 117 at Flat Rock	Jackson	sec. 17, T. 3 S., R. 9 E.	34.7707	-85.7083	6/4/2009	Seine/BP/Hand Net	JBS 090604-2
Jones Creek at Co. Rd. 74 ~1.0 mi NNE Rocky Springs	Jackson	sec. 12, T. 1 S., R. 8 E.	34.9697	-85.7431	6/4/2009	Seine/BP/Hand Net	JBS 090604-3

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Hurricane Creek at Prince low water bridge near confluence with Paint Rock River	Jackson	sec. 36, T. 1 S., R. 4 E.	34.9087	-86.1525	10/20/2009	Snorkeling/Hand	JTG 091020-1
Paint Rock River at Rocky Hollow Ford just S Hollytree	Jackson	sec. 18, T. 3 S., R. 4 E.	34.7781	-86.2508	10/21/2009	By Hand	JTG 091021-1
McCary Spring, tributary to Big Coon Creek	Jackson	sec. 9, T. 1 S., R. 6 E.	34.8787	-86.0057	2/13/2008	Digging/Hand Net	PLF 080213-1
Unnamed tributary to Tennessee River at Walnut and Water Street intersection in Hollywood	Jackson	sec. 2, T. 4 S., R. 6 E.	34.7257	-85.9705	7/23/2010	Hand Net	SWM 100723-1
Roseberry Creek at AL Hwy. 35 at RR track W Scottsboro ~2 mi E AL Hwy. 79	Jackson	sec. 23, T. 4 S., R. 5 E.	34.6766	-86.0640	7/23/2010	Hand Net/Digging	SWM 100723-2
Cahaba River at Grants Mill Road	Jefferson	sec. 33, T. 17 S., R. 1 W.	33.5112	-86.6527	5/26/2010	Seine/BP	CCJ 100526-3
Locust Fork at Warrior-Kimberly Road	Jefferson	sec. 21, T. 14 S., R. 2 W.	33.8084	-86.8008	6/30/2010	Seine/BP	CCJ 100630-1
Gurley Creek at Co. Rd. 133 at Trafford	Jefferson	sec. 21, T. 14 S., R. 2 W.	33.8023	-86.7532	7/2/2010	Seine/BP	CCJ 100702-1
Valley Creek at Co. Rd. 23 just S Toadvine	Jefferson	sec. 10, T. 18 S., R. 6 W.	33.4961	-87.1560	2/28/2008	Trap	JBS 080213-1
Turkey Creek at Co. Rd. 129	Jefferson	sec. 13, T. 15 S., R. 3 W.	33.7345	-86.7987	7/7/2010	Seine/BP	JBS 100707-1
Turkey Creek at Co. Rd. 121	Jefferson	sec. 15, T. 15 S., R. 2 W.	33.7310	-86.7286	7/7/2010	Seine/BP	JBS 100707-2
Fivemile Creek at Linn Crossing	Jefferson	sec. 4., T. 16 S., R. 4 W.	33.6720	-86.9644	7/8/2010	Seine/BP	JBS 100708-1
Turkey Creek at Coalburg	Jefferson	sec. 33, T. 16 S., R. 3 W.	33.6060	-86.8541	7/8/2010	Seine/BP	JBS 100708-2
Cribbs Mill Creek headwaters on McGregor property in Alberta City	Tuscaloosa	sec. 20, T. 21 S., R. 9 W.	33.2044	-87.4963	3/3/2008	Trap	SWM 080227-1
Rock Creek at Co. Rd. 41 between Concord and Hoagtown	Jefferson	sec. 11, T. 18 S., R. 5 W.	33.4854	-87.0313	3/3/2008	Trap	SWM 080228-1
Village Creek nr. Mulga Mine between Mulga and Adamsville	Jefferson	sec. 13, T. 17 S., R. 5 W.	33.5660	-87.0026	3/3/2008	Trap	SWM 080228-2
Village Creek d/s Woodruff Mill Dam at Woodruff Mill Rd.	Jefferson	sec. 36, T. 16 S., R. 5 W.	33.6060	-87.0100	3/3/2008	Trap	SWM 080228-3
Borrow pit at U.S. Hwy. 78 nr. Sayre and Locust Fork	Jefferson	sec. 31, T. 15 S., R. 4 W.	33.6979	-86.9907	3/3/2008	Trap	SWM 080229-1
Cane Creek at Littleton Rd. near confluence with Locust Fork	Jefferson	sec. 31, T. 15 S., R. 4 W.	33.6909	-86.9961	3/3/2008	Trap	SWM 080229-2
Five Mile Creek at Old Bivens-Brookside Rd. nr. Daisy City	Jefferson	sec. 23, T. 16 S., R. 4 W.	33.6226	-86.9109	3/3/2008	Trap	SWM 080229-3
Turkey Creek at Bradford Road ~0.3 mi N Crosston	Jefferson	sec. 15, T. 15 S., R. 1 W.	33.7311	-86.7289	7/23/2009	Hand Net	SWM 090723-1
Turkey Creek at Morris-Majestic Road	Jefferson	sec. 22, T. 15 S., R. 1 W.	33.7292	-86.7391	7/23/2009	Hand Net	SWM 090723-2
Village Creek at Mulga Mine near Maytown	Jefferson	sec. 18, T. 17 S., R. 4 W.	33.5666	-87.0025	6/2/2010	Hand Net	SWM 100602-1
Cahaba River at Bain's Bridge on Lorna Road	Jefferson	sec. 24, T. 19 S., R. 3 W.	33.3629	-86.8133	6/15/2010	Seine/BP	SWM 100615-2
Turkey Creek at Turkey Creek Road in Turkey Creek Preserve	Jefferson	sec. 25, T. 15 S., R. 2 W.	33.7046	-86.6948	6/18/2010	Hand Net	SWM 100618-1
Turkey Creek at Co. Rd. 129	Jefferson	sec. 13, T. 15 S., R. 3 W.	33.7345	-86.7987	6/18/2010	Hand Net	SWM 100618-2
Buttahatchee River at AL Hwy. 17 crossing N Sulligent	Lamar	sec. 19, T. 13 S., R. 15 W.	33.9196	-88.1469	11/5/2008	Seine/digging/hand net	GAS 08-30
Beaver Creek at Co. Rd. 77 crossing 4 mi E Sulligent	Lamar	sec. 23, T. 13 S., R. 15 W.	33.9197	-88.0786	11/5/2008	Seine/digging/hand net	GAS 08-31
Luxapallila Creek at AL Hwy. 17 ~1.0 mi N Millport	Lamar	sec. 14, T. 17 S., R. 15 W.	33.5752	-88.0836	1/15/2009	Trap	JBS 090113-1
Hells Creek at Co. Rd. 49 ~3.3 SSW Crossville	Lamar	sec. 32, T. 15 S., R. 14 W.	33.7022	-88.0207	1/15/2009	Trap	JBS 090113-3
Little Hells Creek at Little Hells Creek Rd. ~2.0 SW Crossville	Lamar	sec. 29, T. 15 S., R. 14 W.	33.7199	-88.0263	1/15/2009	Trap	JBS 090113-4
Cowpen Creek along Co. Rd. 8 ~1.0 km SW jct of Co. Rd. 145	Lauderdale	sec. 22, T. 1 S., R. 10 W.	34.9560	-87.5807	10/12/2009	Seine/digging/hand net	GAS 09-43
Buffler (King) Spring at Mars Hill Road	Lauderdale	sec. 25, T. 2 S., R. 11 W.	34.8559	-87.6549	10/13/2009	Seine/digging/hand net	GAS 09-44
Anderson Creek at AL Hwy. 207	Lauderdale	sec. 33, T. 1 S., R. 7 W.	34.9168	-87.2706	10/13/2009	Seine/digging/hand net	GAS 09-45
Butler Creek at Co. Rd. 61 (Pruitton Rd.) at Pruitton	Lauderdale	sec. 8, T. 1 S., R. 10 W.	34.9858	-87.6152	12/15/2009	Seine/digging/hand net	GAS 09-70
First Creek at Turner Lindsey Road (Co. Rd. 70)	Lauderdale	sec. 25, T. 2 S., R. 8 W.	34.8509	-87.3206	5/12/2009	Seine/BP	JBS 090512-3
Little Butler Creek at Co. Rd. 61 (Butler Creek Road)	Lauderdale	sec. 8, T. 1 S., R. 10 W.	34.9820	-87.6161	5/13/2009	Seine/BP	JBS 090513-1
Cox Creek at Old Jackson Road near Florence	Lauderdale	sec. 4, T. 3 S., R. 11 W.	34.8286	-87.6981	5/13/2009	Seine/BP	JBS 090513-2
Second Creek at Fords Mill	Lauderdale	sec. 21, T. 1 S., R. 14 W.	34.9560	-88.0245	5/13/2009	Seine/BP	JBS 090513-3
Tennessee River at Wilson Dam tailrace, TRM 254.6	Lauderdale	sec. 28, T. 3 S., R. 11 W.	34.7725	-87.6996	8/7/2009	Diving/Hand	JTG 030807-1
Sinking Creek at Co. Rd. 180 (Rabbit Bridge)	Lauderdale	sec. 7, T. 3 S., R. 12 W.	34.8029	-87.8369	2/18/2008	Trap	SWM 080214-1
Sinking Creek at Co. Rd. 15 nr. Walston Cemetery	Lauderdale	sec. 4, T. 3 S., R. 12 W.	34.8216	-87.7994	2/18/2008	Trap	SWM 080215-4
Beasley Spring tributary to Cypress Creek	Lauderdale	sec. 5, T. 3 S., R. 11 W.	34.8190	-87.7216	2/18/2008	Trap	SWM 080215-5
Sinking Creek Swamp at Ronnie Clanton property	Lauderdale	sec. 4, T. 3 S., R. 12 W.	34.8198	-87.8052	4/7/2008	Trap	SWM 080402-2
Sinking Creek at Gunwhaleford Rd. (Co. Rd. 2) at Bethel Church	Lauderdale	sec. 18, T. 3 S., R. 12 W.	34.7893	-87.8425	4/7/2008	Trap	SWM 080402-5
Sinking Creek at Co. Rd. 19 nr. Kimbrough Crossroads	Lauderdale	sec. 1, T. 3 S., R. 12 W.	34.8161	-87.7640	4/7/2008	Trap	SWM 080402-7
Wilson Spring at Ray Gresham property near St. Florian	Lauderdale	sec. 19, T. 2 S., R. 10 W.	34.8615	-87.6258	4/8/2008	Trap	SWM 080402-8
Unnamed tributary to Tennessee River at Union Hollow Road, Lauderdale WMA	Lauderdale	sec. 33, T. 1 S., R. 15 W.	34.9265	-88.1238	4/8/2008	Seine	SWM 080408-1

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Panther Creek at Lauderdale WMA nr. Peterman property	Lauderdale	sec. 20, T. 1 S., R. 15 W.	34.9595	-88.1420	4/8/2008	Seine	SWM 080408-2
Cedar Fork at Hunting Club (Kennedy/McIntyre property)	Lauderdale	sec. 17, T. 1 S., R. 15 W.	34.9732	-88.1493	4/8/2008	Hand Net	SWM 080408-3
Colbert Creek at Co. Rd. 2 (Gunwaleford Rd.) ~1.0 mi W Natchez Trace Bridge	Lauderdale	sec. 29, T. 2 S., R. 13 W.	34.8499	-87.9250	12/26/2008	Trap	SWM 081223-1
Winnie Pond/Sinking Creek system at Bell Sink	Lauderdale	sec. 7, T. 3 S., R. 12 W.	34.8127	-87.8490	12/26/2008	Trap	SWM 081223-2
Colbert Creek SW Rhodesville (d/s of Co. Rd. 14/Waterloo Rd.) u/s of Natchez Trace Parkway off Co. Rd. 213	Lauderdale	sec. 22, T. 2 S., R. 13 W.	34.8647	-87.8944	12/26/2008	Hand Net/Trap	SWM 081223-3
Spring-fed swamp/roadside ditch tributary to Cypress Creek adjacent to AL Hwy. 20 (Savannah Hwy)	Lauderdale	sec. 15/21, T. 3 S., R. 11 W.	34.7893	-87.6833	12/26/2008	Trap	SWM 081223-4
Spring outlet tributary to Cox Creek at Co. Rd. 41 near AL Hwy. 133	Lauderdale	sec. 33, T. 2 S., R. 11 W.	34.8296	-87.6971	12/26/2008	Trap	SWM 081223-5
Long Branch u/s of Co. Rd. 14 (Waterloo Rd.) near powerline crossing	Lauderdale	sec. 12, T. 2 S., R. 14 W.	34.9015	-87.9601	12/26/2008	Hand Net	SWM 081226-1
Cedar Fork at Blackhawk Hunting Club on Co. Rd. 105 (Panther Creek Road)	Lauderdale	sec. 17, T. 1 S., R. 15 W.	34.9780	-88.1468	1/3/2008	Trap	SWM 090101-1
Cedar Fork at Co. Rd. 105 on Lauderdale WMA ~2.0 mi S State Line Road	Lauderdale	sec. 8, T. 1 S., R. 15 W.	34.9895	-88.1432	1/1/2009	Hand Net/Trap	SWM 090101-2
Bluewater Creek at Charles Walton property N U.S. Hwy. 72, S Mitchelltown	Lauderdale	sec. 19, T. 2 S., R. 8 W.	34.8671	-87.4239	1/2/2009	Hand Net	SWM 090102-1
Second Creek at Co. Rd. 489 ~2.5 mi NE Lexington, u/s AL Hwy. 64	Lauderdale	sec. 2, T. 1 S., R. 8 W.	34.9918	-87.3492	1/2/2008	Hand Net	SWM 090102-2
Little Bluewater Creek at Co. Rd. 159 N AL Hwy. 64	Lauderdale	sec. 13, T. 1 S., R. 9 W.	34.9731	-87.4280	1/2/2008	Hand Net	SWM 090102-3
Dry Branch at Co. Rd. 415 (Houstontown Rd.) SE Center Star, SSW Elgin Crossroads	Lauderdale	sec. 25, T. 2 S., R. 9 W.	34.8433	-87.4346	1/9/2009	Hand Net/Trap	SWM 090103-1
Shoal Creek at Bailey Springs subdivision	Lauderdale	sec. 10, T. 2 S., R. 10 W.	34.8972	-87.5723	2/14/2009	Trap	SWM 090214-1
Unnamed creek on main road into Joe Wheeler State Park (#1) nearest U.S. Hwy. 72	Lauderdale	sec. 6, T. 3 S., R. 7 W.	34.8182	-87.3054	5/14/2009	Trap	SWM 090513-1
Weaver Creek tributary to First Creek on main road into Joe Wheeler State Park (#2)	Lauderdale	sec. 6, T. 3 S., R. 7 W.	34.8182	-87.3040	5/14/2009	Trap/Hand Net	SWM 090513-2
Neely Branch on main road into Joe Wheeler State Park (#3) nearest state park	Lauderdale	sec. 5, T. 3 S., R. 7 W.	34.8169	-87.3028	5/14/2009	Trap/Hand Net	SWM 090513-3
Bluewater Creek at Co. Rd. 33	Lauderdale	sec. 8, T. 1 S., R. 8 W.	34.9785	-87.4027	5/14/2009	Seine/BP/Hand Net	SWM 090514-1
Second Creek at Co. Rd. 76	Lauderdale	sec. 9, T. 2 S., R. 8 W.	34.8859	-87.3739	5/14/2009	Seine/BP/Hand Net	SWM 090514-2
First Creek embayment at Joe Wheeler State Park Lodge	Lauderdale	sec. 1, T. 3 S., R. 8 W.	34.8120	-87.3338	5/15/2009	Trap	SWM 090514-3
Brush Creek at Co. Rd. 33	Lauderdale	sec. 35, T. 1 S., R. 14 W.	34.9289	-87.9765	5/20/2009	Seine/BP	SWM 090520-2
Bluff Creek at Co. Rd. 14 (Waterloo Road) at Gravelly Springs	Lauderdale	sec. 16, T. 2 S., R. 13 W.	34.8858	-87.9077	5/20/2009	Seine/BP/Hand Net	SWM 090520-3
Middle Cypress Creek at AL Hwy. 157 near Cloverdale	Lauderdale	sec. 26, T. 1 S., R. 12 W.	34.9338	-87.7631	5/21/2009	Seine/BP/Hand Net	SWM 090521-2
Shoal Creek at Happy Hollow	Lauderdale	sec. 4, T. 2 S., R. 10 W.	34.9118	-87.5982	2/19/2010	Trap	SWM 100217-1
Shoal Creek at Bailey Springs subdivision	Lauderdale	sec. 10, T. 2 S., R. 10 W.	34.8968	-87.5706	2/19/2010	Trap	SWM 100217-2
Sour Branch at Co. Rd. 299	Lauderdale	sec. 6, T. 1 S., R. 10 W.	34.9914	-87.6349	2/19/2010	Seine/BP/Hand Net	SWM 100219-1
Sinking Creek at Co. Rd. 15 S Oakland and Walston Cemetery (Doc's Place)	Lauderdale	sec. 3, T. 3 S., R. 12 W.	34.8190	-87.7958	4/7/2008	Trap	SWM 080402-1
Sinking Creek at Ronne Clanton's land nr. power lines	Lauderdale	sec. 4, T. 3 S., R. 12 W.	34.8187	-87.8096	4/7/2008	Trap	SWM 080402-3
Pond on Ronnie Clanton Farm	Lauderdale	sec. 4, T. 3 S., R. 12 W.	34.8158	-87.8113	4/7/2008	Trap	SWM 080402-4
Sinking Creek at TVA site nr. Tennessee River (near cemetery)	Lauderdale	sec. 32, T. 3 S., R. 12 W.	34.7532	-87.8232	4/7/2008	Trap	SWM 080402-6
Unnamed tributary to Tennessee River at Wates Cemetery on McKelvey Hollow Rd. at Lauderdale WMA	Lauderdale	sec. 1, T. 1 S., R. 16 W.	34.9982	-88.1789	12/24/2008	Hand Net	SWM 081224-1
Manbone Creek at Kennedy Branch confluence near Lauderdale WMA Game Plot #28	Lauderdale	sec. 9, T. 1 S., R. 14 W.	34.9811	-88.0154	12/24/2008	Hand Net	SWM 081224-2
Little Bluewater Creek at Co. Rd. 39/369 intersection, E Greenhill, N Center Hill	Lauderdale	sec. 10, T. 1 S., R. 9 W.	34.9785	-87.4625	1/2/2008	Hand Net	SWM 090102-4
Little Cypress Creek at Co. Rd. 41 (Old Jackson Rd.) near Forks of Cypress	Lauderdale	sec. 32, T. 2 S., R. 11 W.	34.8420	-87.7219	5/21/2009	Seine/BP/Hand Net	SWM 090521-1
Shoal Creek at Goosa Shoals (Co. Rd. 8)	Lauderdale	sec. 21, T. 1 S., R. 10 W.	34.9505	-87.5912	11/9/2010	Seine/Hand Net	GAS 10-50
Borden Creek at Bunyan Hill Road	Lawrence	sec. 32, T. 8 S., R. 8 W.	34.3095	-87.3940	5/19/2010	Seine/BP	CCJ 100519-2
Troublesome Creek at Old AL Hwy. 24	Lawrence	sec. 4/9, T. 7 S., R. 9 W.	34.4639	-87.4894	11/6/2008	Seine/digging/hand net	GAS 08-38
Borden Creek off AL Hwy. 24 ~2.1 mi NNE Landersville	Lawrence	sec. 28, T. 6 S., R. 8 W.	34.4974	-87.3868	11/6/2008	Seine/digging/hand net	GAS 08-39
Brooks Spring at Brooks Spring Rd. crossing (Co. Rd. 261)	Lawrence	sec. 5, T. 5 S., R. 8 W.	34.6503	-87.4019	10/13/2009	Seine/digging/hand net	GAS 09-47
Muddy Fork at Co. Rd. 236	Lawrence	sec. 10, T. 6 S., R. 8 W.	34.5407	-87.3580	5/29/2009	Seine/BP	JBS 090529-1

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Brushy Creek at Forest Service Road 254 (next upstream bridge from Brushy Creek Lake)	Lawrence	sec. 20, T. 8 S., R. 7 W.	34.3313	-87.2861	10/29/2009	Trap	JBS 091022-1
Trinity Branch at Alternate U.S. Hwy. 72	Lawrence	sec. 1, T. 5 S., R. 6 W.	34.6345	-87.1092	4/29/2009	Hand Net	JTG 090429-2
Goldfield Branch (embayment) at Co. Rd. 400 (Spring Creek Road)	Lawrence	sec. 35, T. 3 S., R. 7 W.	34.7375	-87.2460	2/15/2008	Digging/Hand Net	SWM 080215-1
Wheeler Spring at Alternate U.S. Hwy. 72	Lawrence	sec. 34, T. 4 S., R. 7 W.	34.6530	-87.2520	2/15/2008	Digging/Hand Net	SWM 080215-2
Big Shoal Creek at Cole family property upstream of Co. Rd. 221 on Cole Lane	Lawrence	sec. 28, T. 6 S., R. 6 W.	34.4930	-87.1703	11/27/2008	Trap	SWM 081126-4
Wolf Creek on McGregor family property	Lawrence	sec. 11, T. 5 S., R. 9 W.	34.6317	-87.4497	11/28/2008	Trap	SWM 081126-5
West Flint Creek at Co. Rd. 81 S Speake, Black Warrior WMA in Bankhead National Forest	Lawrence	sec. 7, T. 8 S., R. 6 W.	34.3657	-87.1789	5/19/2009	Seine/BP/Hand Net	SWM 090519-1
Flannagan Creek at Forest Service Road 208 in Bankhead National Forest	Lawrence	sec. 21, T. 8 S., R. 8 W.	34.3388	-87.3882	5/18/2010	Seine/BP	SWM 100518-2
Halawakee Creek at Co. Rd. 259	Lee	sec. 35, T. 20 N., R. 28 E.	32.6855	-85.2035	6/3/2008	Seine/BP	JBS 080603-1
Wacoochee Creek at Co. Rd. 252 (Lee Road)	Lee	sec. 26, T. 19 N., R. 28 E.	32.6098	-85.2086	6/3/2008	Seine/BP	JBS 080603-2
Halawakee Creek SW Tillery Crossroads	Lee	sec. 35, T. 20 N., R. 28 E.	32.6862	-85.2039	10/22/2009		TBF 091022-1
Dry Creek at Co. Rd. 24 (Ripley Rd.) crossing	Limestone		34.7574	-87.0861	10/13/2009	Seine/digging/hand net	GAS 09-46
Sulphur Creek at Easter Ferry Road	Limestone	sec. 35, T. 1 S., R. 5 W.	34.9080	-87.0305	5/14/2009	Seine/BP	JBS 090514-1
Round Island Creek at Browns Ferry Road	Limestone	sec. 32, T. 3 S., R. 5 W.	34.7358	-87.0722	5/14/2009	Seine/BP	JBS 090514-2
Cooper Run Creek at Capshaw Road	Limestone	sec. 13, T. 3 S., R. 3 W.	34.7732	-86.7950	5/14/2009	Seine/BP	JBS 090514-3
Spring tributary to Swan Creek ~0.3 mi W L & N Railroad track near Wheeler National Wildlife Refuge	Limestone	sec. 20, T. 4 S., R. 4 W.	34.6841	-86.9778	3/25/2009	Hand Net	JTG 090325-1
Limestone Creek side channel at Auburn Agricultural Experiment Station	Limestone	sec. 20, T. 4 S., R. 3 W.	34.6756	-86.8788	5/8/2009	Hand	JTG 090508-1
Spring tributary to Piney Creek d/s South Road at Leon Ruf property	Limestone	sec. 9, T. 1 S., R. 3 W.	34.8895	-86.8534	10/20/2008	Trap	SWM 081014-2
Piney Creek at Co. Rd. 86 (Black Road) near I-65	Limestone	sec. 33, T. 1 S., R. 3 W.	34.8616	-86.9062	10/20/2008	Trap	SWM 081014-3
Piney Creek at Leon Ruf property downstream of South (Davis) Rd.	Limestone	sec. 9, T. 1 S., R. 3 W.	34.8899	-86.8541	10/20/2008	Trap	SWM 081014-4
Thorson Spring tributary to Beaverdam Creek at Sue Towe property near Huntsville	Limestone	sec. 2, T. 5 S., R. 3 W.	34.6392	-86.8083	11/18/2008	Hand Net	SWM 081118-2
Piney Creek at Huntsville-Browns Ferry Road just E I-65, NE Dogwood Flats	Limestone	sec. 20, T. 3 S., R. 2 W.	34.7305	-86.9090	11/18/2008	Hand Net	SWM 081118-3
Town Creek at U.S. Hwy. 31 at U.S. Hwy. 72 intersection	Limestone	sec. 16, T. 3 S., R. 4 W.	34.7832	-86.9565	12/9/2008	Hand Net	SWM 081209-4
Shoal Creek at Leggtown Road	Limestone	sec. 16, T. 1 S., R. 5 W.	34.9553	-87.0644	5/15/2009	Seine/BP	SWM 090515-1
Swan Creek at Elkton Road bridge near Athens	Limestone	sec. 33, T. 2 S., R. 4 W.	34.8318	-86.9515	5/15/2009	Seine/BP	SWM 090515-2
Sugar Creek at Lester on Sugar Creek Road	Limestone	sec. 8, T. 1 S., R. 6 W.	34.9832	-87.1730	5/21/2009	Seine/BP/Hand Net	SWM 090521-3
Limestone Creek at Copeland Road	Limestone	sec. 26, T. 1 S., R. 3 W.	34.8356	-86.8078	6/25/2009	Hand Net	SWM 090625-3
Limestone Creek at Nick Davis Road	Limestone	sec. 2, T. 3 S., R. 3 W.	34.8029	-86.8162	6/25/2009	Hand Net	SWM 090625-4
Unnamed spring run and Shack Branch tributary to Sugar Creek at Siniard Road near Good Springs	Limestone	sec. 17, T. 1 S., R. 6 W.	34.9603	-87.1893	6/26/2009	Hand Net	SWM 090626-1
Unnamed tributary to Big Swamp Creek at Lowndes WMA on South Rd.	Lowndes	sec. 5, T. 15 N., R. 14 E.	32.3000	-86.6823	3/27/2008	Digging	JBS 080327-1
Molly Pond at South Road on Lowndes WMA	Lowndes	sec. 5, T. 15 N., R. 14 E.	32.3058	-86.6806	4/1/2008	Trap	JBS 080327-2
Big Swamp Creek at Co. Rd. 40	Lowndes	sec. 5, T. 15 N., R. 13 E.	32.3008	-86.7940	3/27/2008	Seine/Digging	JBS 080327-3
Unnamed tributary to Sullivan Creek at unnumbered county road	Lowndes	sec. 3, T. 13 N., R. 12 E.	32.1259	-86.8487	3/27/2008	Digging	JBS 080327-4
Sullivan Creek at Co. Rd. 7	Lowndes	sec. 15, T. 13 N., R. 12 E.	32.1064	-86.8451	3/27/2008	Digging	JBS 080327-5
Mussell Creek at Knights Rd. ~ 7.5 mi WSW Fort Deposit	Lowndes	sec. 31, T. 12 N., R. 14 E.	31.9713	-86.7042	4/16/2008	Trap	JBS 080416-1
Dry Cedar Creek at Co. Rd. 16 ~2.3 mi WNW Fostoria	Lowndes	sec. 21, T. 13 N., R. 12 E.	32.0932	-86.8641	4/16/2008	Hand Net/Digging	JBS 080416-2
Big Swamp Creek at AL Hwy. 21 ~1.0 mi SW Hayneville	Lowndes	sec. 19, T. 14 N., R. 15 E.	32.1729	-86.5952	2/18/2009	Trap	JBS 090205-1
Big Swamp Creek at Co. Rd. 37 ~6.0 mi SSW Hayneville	Lowndes	sec. 14, T. 13 N., R. 15 E.	32.1107	-86.5245	2/18/2009	Trap	JBS 090205-2
Big Swamp Creek at gravel road ~3.2 mi SE Calhoun	Lowndes	sec. 13, T. 12 N., R. 15 E.	32.0108	-86.5045	2/18/2009	Trap	JBS 090205-3
Old Town Creek at Co. Rd. 9 ~1.0 mi N Chesson	Macon	sec. 2, T. 15 N., R. 21 E.	32.3141	-85.9173	3/5/2009	Trap	JBS 090219-2
Cubahatchee Creek at Co. Rd. 19 ~1.5 mi NE Hardaway	Macon	sec. 11, T. 15 N., R. 22 E.	32.3024	-85.8220	3/5/2009	Trap	JBS 090219-3
Calabee Creek at Co. Rd. 73 near Liverpool	Macon	sec. 18, T. 16 N., R. 23 E.	32.3635	-85.7849	3/5/2009	Trap	JBS 090219-4
Calabee Creek at U.S. Hwy. 29 near Davisville	Macon	sec. 5, T. 16 N., R. 24 E.	32.3200	-85.6732	3/5/2009	Trap	JBS 090219-5
Calabee Creek at gravel road ~0.3 mi N Roba	Macon	sec. 25, T. 15 N., R. 24 E.	32.2530	-85.5914	3/5/2009	Trap	JBS 090219-6
Path to Nature area on Redstone Arsenal	Madison	sec. 22, T. 5 S., R. 1 W.	34.5816	-86.6169	7/22/2008	By Hand	CFE 080722-1
Hurricane Creek at dirt road ~1.0 mi WNW Gurley off U.S. Hwy. 72	Madison	sec. 3, T. 4 S., R. 2 E.	34.7122	-86.3946	11/2/2008	Seine/digging/hand net	GAS 08-17

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Bradford Creek at James Record Road	Madison	sec. 29, T. 4 S., R. 2 W.	34.6509	-86.7516	5/12/2009	Seine/BP	JBS 090512-1
Aldridge Creek at Green Mountain Road	Madison	sec. 4, T. 5 S., R. 1 E.	34.6295	-86.5389	5/15/2009	Seine/BP	JBS 090515-1
Williams Spring N Martin Road on Redstone Arsenal	Madison	sec. 36, T. 4 S., R. 2 W.	34.6486	-86.6850	2/25/2008	Trap	SLA 080221-1
Swamp N of Martin Road nr. Gate 1 on Redstone Arsenal	Madison	sec. 34, T. 4 S., R. 1 W.	34.6486	-86.6209	2/25/2008	Trap	SLA 080222-1
Williams Spring N Martin Road on Redstone Arsenal	Madison	sec. 36, T. 4 S., R. 2 W.	34.6486	-86.6850	2/29/2008	Trap	SLA 080225-1
Swamp N of Martin Road nr. Gate 1 on Redstone Arsenal	Madison	sec. 34, T. 4 S., R. 1 W.	34.6486	-86.6209	2/25/2008	Trap	SLA 080225-2
Drainage ditch nr. pasture on SE boundary of Redstone Arsenal	Madison	sec. 24, T. 5 S., R. 11 W.	34.5866	-86.5873	3/31/2008	Trap	SLA 080320-1
Swamp N of Martin Road nr. Gate 1 on Redstone Arsenal	Madison	sec. 34, T. 4 S., R. 1 W.	34.6486	-86.6209	3/25/2008	Trap	SLA 080320-2
Tennessee River near east boundary of Redstone Arsenal	Madison	sec. 23, T. 5 S., R. 1 W.	34.5848	-86.5916	3/25/2008	Trap	SLA 080320-3
Byrd Spring at Hayes Branch	Madison	sec. 36, T. 4 S., R. 1 W.	34.6491	-86.5836	4/1/2008	Trap	SLA 080325-2
Byrd Spring at "lower dam"	Madison	sec. 35, T. 4 S., R. 1 W.	34.6460	-86.6011	3/25/2008	Trap	SLA 080325-3
Byrd Spring at "Little Spring"	Madison	sec. 25, T. 4 S., R. 1 W.	34.6628	-86.5830	4/1/2008	Trap	SLA 080325-4
Path to Nature area on Redstone Arsenal E Lehman's Bluff	Madison	sec. 27, T. 5 S., R. 1 W.	34.5821	-86.6188	4/7/2008	Trap	SLA 080331-1
Drainage ditch on Buxton Road ~2400 m W of Redstone Arsenal boundary	Madison	sec. 23, T. 5 S., R. 1 W.	34.5949	-86.6082	4/8/2008	Trap	SLA 080331-2
Drainage ditch on Buxton Road ~3000 m W of Redstone Arsenal boundary	Madison	sec. 23, T. 5 S., R. 1 W.	34.5950	-86.6113	4/8/2008	Trap	SLA 080331-3
Byrd Spring at main outlet	Madison	sec. 25, T. 4 S., R. 1 W.	34.6526	-86.5839	4/9/2008	Trap	SLA 080401-1
Byrd Spring at piers	Madison	sec. 36, T. 4 S., R. 1 W.	34.6527	-86.5841	4/9/2008	Trap	SLA 080401-2
Intersection of Eagle Road and Eastline Road on Redstone Arsenal	Madison	sec. 11, T. 5 S., R. 1 W.	34.6226	-86.5994	6/24/2008	By Hand	SLA 080624-1
Byrd Spring Hunting Club at Three Pipes	Madison	sec. 36, T. 4 S., R. 1 W.	34.6428	-86.5866	3/25/2008	Trap	SWM 080318-1
Byrd Spring Hunting Club at Hayes Branch	Madison	sec. 36, T. 4 S., R. 1 W.	34.6491	-86.5836	3/25/2008	Trap	SWM 080318-2
Byrd Spring at "lower dam"	Madison	sec. 35, T. 4 S., R. 1 W.	34.6460	-86.6011	3/25/2008	Trap	SWM 080318-3
Byrd Spring at "Little Spring"	Madison	sec. 25, T. 4 S., R. 1 W.	34.6628	-86.5830	3/18/2008	Trap	SWM 080318-4
Williams Spring N Martin Road on Redstone Arsenal	Madison	sec. 36, T. 4 S., R. 2 W.	34.6467	-86.6863	8/13/2008	Seine	SWM 080813-1
Piney Creek at Thach Rd. ~3.0 mi E Thach, W AL Hwy. 251	Madison	sec. 13, T. 2 S., R. 4 W.	34.9187	-86.8399	10/20/2008	Trap	SWM 081014-1
Lady Ann Lake (Betts Spring Branch system) on Redstone Arsenal N Bobcat Cave	Madison	sec. 23, T. 4 S., R. 2 W.	34.6733	-86.7140	11/17/2008	Trap	SWM 081112-1
Indian Creek/spring oxbow off Hackberry Rd. and Hale Rd. W Rideout Rd.	Madison	sec. 25, T. 4 S., R. 2 W.	34.6577	-86.6903	11/17/2008	Trap	SWM 081112-2
Indian Creek downstream of Martin Rd.	Madison	sec. 36, T. 4 S., R. 2 W.	34.6443	-86.6861	11/17/2008	Trap	SWM 081112-3
Headwater of Betts Spring Branch at Zierdt Rd. on Redstone Arsenal	Madison	sec. 23, T. 4 S., R. 2 W.	34.6837	-86.7160	11/17/2008	Hand Net	SWM 081117-1
Roadside ditch at Anderson Rd. at gate to Bobcat Cave	Madison	sec. 26, T. 4 S., R. 2 W.	34.6654	-86.7079	11/17/2008	Hand Net	SWM 081117-2
Headwater tributary of Knox Creek at Wall Triana Rd. N Madison	Madison	sec. 36, T. 3 S., R. 4 W.	34.7667	-86.7498	11/18/2008	Hand Net	SWM 081118-1
Unnamed tributary of Huntsville Spring Branch at Mills Rd. near Patton Rd. on Redstone Arsenal	Madison	sec. 4, T. 5 S., R. 1 W.	34.6381	-86.6327	3/25/2009	Hand Net	SWM 090325-2
Spring/swamp complex S Redstone Arsenal Airfield	Madison	sec. 30, T. 4 S., R. 1 W.	34.6650	-86.6822	3/25/2009	Hand Net	SWM 090325-3
McDonald Creek at Hanson Rd. and adjacent spring	Madison	sec. 22, T. 4 S., R. 1 W.	34.6783	-86.6193	5/13/2009	Trap	SWM 090511-1
Unnamed spring box on Weeden Mountain (#1) on Redstone Arsenal	Madison	sec. 20, T. 4 S., R. 1 W.	34.6800	-86.6532	5/12/2009	Hand Net	SWM 090512-1
Unnamed spring seep near summit of Madkin Mountain near TVA towers	Madison	sec. 20, T. 4 S., R. 1 W.	34.6694	-86.6482	5/12/2009	Hand Net	SWM 090512-2
Unnamed spring on Weeden Mountain (#2)	Madison	sec. 20, T. 4 S., R. 1 W.	34.6805	-86.6512	5/12/2009	Hand Net	SWM 090512-3
Indian Creek at U.S. Hwy. 72	Madison	sec. 14, T. 4 S., R. 1 W.	34.6905	-86.5962	5/22/2009	Seine/BP/Hand Net	SWM 090522-1
Indian Creek at Martin Road on Redstone Arsenal	Madison	sec. 36, T. 4 S., R. 2 W.	34.6444	-86.6860	6/23/2009	Hand Net	SWM 090623-1
McDonald Creek at Hanson Rd. on Redstone Arsenal	Madison	sec. 22, T. 4 S., R. 1 W.	34.6775	-86.6203	6/24/2009	Hand Net/By Hand	SWM 090624-1
Indian Creek at Old Madison Pike	Madison	sec. 11, T. 4 S., R. 2 W.	34.7090	-86.7017	6/24/2009	Hand Net/By Hand	SWM 090624-2
Brier Fork of Flint River at Ready Section Road ~4.0 mi W Hazel Green, just NW H.G. Airport	Madison	sec. 20, T. 1 S., R. 1 W.	34.9331	-86.6598	6/25/2009	Hand Net	SWM 090625-1
Unnamed tributary of Beaverdam Creek at Bo Howard Road at Pleasant Home M.B. Church	Madison	sec. 12, T. 2 S., R. 2 W.	34.8775	-86.6845	6/25/2009	Hand Net	SWM 090625-2
Indian Creek headwater/swamp at south end of Redstone Arsenal airport	Madison	sec. 25, T. 4 S., R. 2 W.	34.6651	-86.6822	10/21/2009	Hand Net/Trap	SWM 091020-1
Indian Creek at Laser Road--Hale Road bridge	Madison	sec. 24, T. 4 S., R. 1 W.	34.6694	-86.6979	10/20/2009	Hand Net	SWM 091020-2
Indian Creek at cul-de-sac on N end of Laser Range on Redstone Arsenal	Madison	sec. 14, T. 4 S., R. 2 W.	34.6911	-86.6998	10/20/2009	Hand Net	SWM 091020-3
Mill Creek at U.S. Hwy 43 and AL Hwy. 10 ~0.25 mi S Dixon's Mill	Marengo	sec. 33, T. 13 N., R. 3 E.	32.0515	-87.7869	3/14/2008	Seine/Digging	JBS 080314-3
Watkins Creek at Co. Rd. 33 ~2.8 mi ESE Linden	Marengo	sec. 2, T. 15 N., R. 3 E.	32.2991	-87.7478	4/15/2008	Trap	JBS 080408-3

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Chickasaw Bogue at Co. Rd. 39	Marengo	sec. 32, T. 16 N., R. 4 E.	32.3147	-87.7032	4/15/2008	Trap	JBS 080408-4
Marsh at AL Hwy. 10 at bridge over Tombigbee River near Nanafalia (east bank)	Marengo	sec. 1, T. 13 N., R. 1 W.	32.1285	-88.0366	2/7/2009	Trap	SWM 090204-1
Mallard Pond (tributary to Pritchett Creek) on Pritchett property S AL Hwy. 10	Marengo	sec. 12, T.13 N., R. 1 W.	32.1145	-88.0370	2/4/2009	Trap	SWM 090204-2
Pritchett Creek near lower end of Wood Duck pond on Pritchett property S AL Hwy. 10 near Nanafalia	Marengo	sec. 12, T. 13 N., R. 1 W.	32.1064	-88.0408	2/4/2009	Trap	SWM 090204-3
Unnamed tributary of Tombigbee River near Co. Rd. 9 on Pritchett Property	Marengo	sec. 13, T. 13 N., R. 1 W.	32.0970	-88.0392	2/4/2009	Trap	SWM 090204-4
Pritchett Creek headwaters near AL Hwy. 10 at Nanafalia	Marengo	sec. 6, T. 13 N., R. 1 E.	32.1174	-88.0205	2/4/2009	Trap	SWM 090204-5
Powell Creek at Co. Rd. 51 ~4.0 W Faunsdale	Marengo	sec. 10, T. 17 N., R. 4 E.	32.4536	-87.6605	4/6/2010	Hand Net	SWM 100406-1
Allen Creek at Co. Rd. 57 ~2.75 mi NW Jefferson, tributary of Double Creek	Marengo	sec. 29, T. 17 N., R. 2 E.	32.4159	-87.9166	4/6/2010	Hand Net	SWM 100406-2
Threemile Creek at AL Hwy. 69 ~3.0 mi SW Linden	Marengo	sec. 12, T. 15 N., R. 2 E.	32.2799	-87.8297	4/6/2010	Hand Net	SWM 100406-3
Little Beaver Creek at Co. Rd. 17 and AL Hwy. 69 intersection near Half Acre	Marengo	sec. 1, T. 14 N., R. 1 E.	32.2153	-87.9416	4/6/2010	Hand Net	SWM 100406-4
Overflow pool at service road to AL Hwy. 10, overflow pool/swamp near Compton Landing	Marengo	sec. 1, T. 13 N., R. 1 W.	32.1286	-88.0366	4/8/2010	Trap	SWM 100406-5
Tombigbee River along left bank at South Riverview Dr. d/s AL Hwy. 10	Marengo	sec. 1, T. 13 N., R. 1 W.	32.1242	-88.0417	4/6/2010	Trap	SWM 100406-6
Unnamed creek on Pritchett property d/s AL Hwy. 10 near Nanafalia	Marengo	sec. 12, T. 13 N., R. 1 W.	32.1150	-88.0388	4/7/2010	Trap	SWM 100406-7
Hamilton Mill Creek at AL Hwy. 19 crossing ~1.5 mi N Byrd	Marion	sec. 20, T. 11 S., R. 15 W.	34.0964	-88.1293	11/5/2008	Seine/digging/hand net	GAS 08-29
Buttahatchee River at AL Hwy. 253 crossing near Pearce's Mill	Marion	sec. 5, T. 11 S., R. 12 W.	34.1326	-87.8184	11/5/2008	Seine/digging/hand net	GAS 08-33
Little New River at Co. Rd. 92 nr. Gold Mine	Marion	sec. 6, T. 12 S., R. 11 W.	34.0392	-87.7395	3/21/2008	Seine/Digging	JBS 080321-4
Thompson Branch at Corridor X/Future Interstate 22	Marion	sec. 29, T. 12 S., R. 11 W.	33.9696	-87.7155	8/7/2008	Seine/Hand Net	JBS 080807-2
Unnamed tributary of East Branch Luxapallila Creek just upstream of U.S. Hwy. 78 in downtown Winfield	Marion	sec. 17, T. 13 S., R. 12 W.	33.9303	-87.8180	1/15/2009	Trap/Hand Net	JBS 090113-8
Luxapallila Creek at Three Bridge Bottom Rd. near U.S. Hwy 78 W Winfield	Marion	sec. 12, T. 13 S., R. 12 W.	33.9459	-87.8474	1/14/2009	Hand Net	JBS 090114-2
Luxapallila Creek at Co. Rd. 407	Marion	sec. 18, T. 12 S., R. 12 W.	34.0177	-87.8353	1/14/2009	Seine	JBS 090114-3
Unnamed tributary to East Branch of Luxapallila Creek at Winfield City Park	Marion	sec. 9, T. 13 S., R. 12 W.	33.9365	-87.8078	1/14/2009	Seine	JBS 090114-4
Camp Creek at AL Hwy. 253	Marion	sec. 19, T. 10 S., R. 12 W.	34.1742	-87.8389	5/1/2009	Trap	JBS 090429-3
Unnamed tributary to Little New River at Co. Rd. 24 ~1.5 mi SE Gold Mine	Marion	sec. 8, T. 12 S., R. 11 W.	34.0185	-87.7178	5/1/2009	Trap	JBS 090429-4
Roadside ditch at Co. Rd. 40 near Little New River	Marion	sec. 19, T. 12 S., R. 11 W.	33.9932	-87.7279	5/1/2009	Trap	JBS 090430-1
Thompson Branch near New River Road at Aldridge homeplace	Marion	sec. 29, T. 12 S., R. 11 W.	33.9735	-87.7159	5/15/2009	Trap	JBS 090430-2
West Branch Buttahatchee River at Co. Rd. 48	Marion	sec. 17, T. 10 S., R. 11 W.	34.1847	-87.7158	5/1/2009	Trap	JBS 090430-3
Field near ephemeral stream at Brookside	Marion	sec. 24, T. 12 N., R. 12 W.	33.9950	-87.7451	5/1/2009	Digging	JBS 090501-1
Sipsey Creek at unnumbered gravel road ~2.0 mi S Bexar	Marion	sec. 32, T. 10 S., R. 15 W.	34.1543	-88.1449	5/8/2009	Trap	JBS 090508-1
Williams Creek at gravel road at Old Chickasaw Boundary ~6.5 mi NNE Hamilton	Marion	sec. 33, T. 9 S., R. 14 W.	34.2360	-88.0121	5/8/2009	Trap	JBS 090508-2
Rideout Falls Branch at gravel road ~7.0 mi N Hamilton	Marion	sec. 27, T. 9 S., R. 14 W.	34.2454	-87.9914	5/8/2009	Trap	JBS 090508-3
Crooked Creek at Crooked Creek Road ~2.0 mi ESE Sunny Home	Marion	sec. 26, T. 11 S., R. 11 W.	34.0706	-87.6649	5/8/2009	Trap	JBS 090508-4
Williams Creek at U.S. Hwy. 43 just N Hamilton	Marion	sec. 26, T. 10 S., R. 13 W.	34.1605	-87.9800	10/13/2009	Hand Net	JBS 091013-1
Bull Mountain Creek at Nello Emerson property u/s Mt. Hope Church at Co. Rd. 89	Marion	sec. 10, T. 9 S., R. 15 W.	34.2916	-88.0858	10/9/2008	Trap	SWM 081002-1
Bull Mountain Creek at Co. Rd. 89/56 intersection near Shottsville	Marion	sec. 20, T. 9 S., R. 15 W.	34.2651	-88.1351	10/9/2008	Trap	SWM 081002-2
Bull Mountain Creek at AL Hwy. 19 ~0.9 mi NE Newburg Cemetery	Marion	sec. 7, T. 9 S., R. 14 W.	34.2899	-88.0448	10/9/2008	Trap	SWM 081002-3
Bluegut Creek at Co. Rd. 89	Marion	sec. 16, T. 9 S., R. 15 W.	34.2832	-88.1224	10/9/2008	Hand Net	SWM 081009-1
Turkey Creek headwaters at Smith property	Marion	sec. 2, T. 9 S., R. 15 W.	34.3142	-88.0879	10/9/2008	Hand Net	SWM 081009-2
Dry Creek at Co. Rd. 27 at Marion/Franklin County line	Marion	sec. 33, T. 8 S., R. 14 W.	34.3154	-88.0180	10/14/2008	Trap	SWM 081009-3
Skirum Creek near Buzzard Bluff at Smith property near Franklin/Marion County line	Marion	sec. 4, T. 9 S., R. 14 W.	34.3089	-88.0051	10/14/2008	Trap	SWM 081009-4
Bull Mountain Creek upstream of confluence of Skirum Creek at Buzzard Bluff	Marion	sec. 3, T. 9 S., R. 14 W.	34.3088	-88.0000	10/14/2008	Trap	SWM 081009-5
Confluence of Mill Creek and Bull Mountain Creek at Pap Franklin Rd.	Marion	sec. 12, T. 9 S., R. 15 W.	34.2885	-88.0646	10/14/2008	Trap	SWM 081009-6
Buttahatchee River tributary at AL Hwy. 129 at Co. Rd. 70 S U.S. Hwy. 278	Marion	sec. 7, T. 11 S., R. 11 W.	34.1091	-87.7326	11/26/2008	Hand Net	SWM 081126-1

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Buttahatchee River at AL Hwy. 129 at Co. Rd. 70 S U.S. Hwy. 278	Marion	sec. 7, T. 11 S., R. 11 W.	34.1127	-87.7315	11/26/2008	Hand Net	SWM 081126-2
Mill Creek at AL Hwy. 172 near AL Hwy. 241 at canoe launch	Marion	sec. 17, T. 9 S., R. 11 W.	34.2781	-87.7192	11/26/2008	Hand Net	SWM 081126-3
Short Creek at AL Hwy. 75 near Albertville	Marshall	sec. 36, T. 8 S., R. 4 E.	34.2927	-86.1666	3/13/2009	Seine/digging/hand net	GAS 09-16
Short Creek at AL Hwy. 168 crossing	Marshall	sec. 21, T. 9 S., R. 5 E.	34.2351	-86.1216	3/13/2009	Seine/digging/hand net	GAS 09-17
Shoal Creek at Co. Rd. 320 crossing at confluence with Little Shoal Creek	Marshall	sec. 8, T. 8 S., R. 5 E.	34.3472	-86.1246	3/14/2009	Seine/digging/hand net	GAS 09-18
Scarham Creek at Co. Rd. 372 ~1.0 mi NE McVie	Marshall	sec. 33, T. 8 S., R. 5 E.	34.2987	-86.1164	6/3/2009	Seine/BP/Hand Net	JBS 090603-2
Slab Creek at AL Hwy. 75 near Horton	Marshall	sec. 36, T. 9 S., R. 3 E.	34.2127	-86.2803	6/11/2009	Seine/BP/Hand Net	JBS 090611-2
Short Creek at Co. Rd. 543	Marshall	sec. 9, T. 9 S., R. 5 E.	34.2581	-86.1239	6/10/2009	Seine/BP	PEO 090610-1
Short Creek embayment at AL Hwy. 227 nr. Lake Guntersville SP	Marshall	sec. 3, T. 8 S., R. 4 E.	34.3721	-86.2110	2/14/2008	Digging/Hand Net	SWM 080211-1
Slab Creek at AL Hwy. 75 NE of Horton, SW Albertville	Marshall	sec. 36, T. 9 S., R. 3 E.	34.2129	-86.2799	3/13/2009	Trap	SWM 090311-1
Campbell Mill Creek at Old Union Road and Elkins Road	Marshall	sec. 30, T. 6 S., R. 4 E.	34.4963	-86.2412	7/23/2010	Hand Net	SWM 100723-3
Big Creek at Co. Rd. 63 (Wilmer-Georgetown Rd.) crossing	Mobile	sec. 24, T. 2 S., R. 4 W.	30.8559	-88.3339	3/12/2008	Seine/digging/hand net	GAS 08-02
Burrows at AL Hwy. 213 crossing of Bennett Creek and roadside ditch at U.S. Hwy. 45	Mobile	sec. 36, T. 3 S., R. 1 W.	30.7822	-88.1180	3/12/2008	Seine/digging/hand net	GAS 08-03
Bennett Creek and roadside ditch at U.S. Hwy. 45	Mobile	sec. 14, T. 2 N., R. 3 W.	31.1398	-88.2552	3/13/2008	Seine/digging/hand net	GAS 08-03
Chickasaw Creek at AL Hwy. 213 ~1.5 mi SSE University of Mobile campus	Mobile	sec. 7, T. 3 S., R. 1 W.	30.7822	-88.1192	3/12/2008	Seine/Trap/Hand Net/Digging	JBS 080312-1
Big Creek at Co. Rd. 63	Mobile	sec. 24, T. 2 S., R. 4 W.	30.8559	-88.3338	3/12/2008	Seine/Hand Net/Digging	JBS 080312-2
Bennet Creek and roadside ditch at U.S. Hwy. 45	Mobile	sec. 14, T. 2 N., R. 3 W.	31.1398	-88.2552	3/13/2008	Digging	JBS 080313-1
Pond at ADCNR Marine Resources Headquarters on Dauphin Island	Mobile	Offshore Section 75	30.2577	-88.1072	6/4/2010	Trap	JBS 100602-1
Gaillard Lake and swamp at Audubon Bird Sanctuary on Dauphin Island	Mobile	Offshore Section 75	30.2504	-88.0872	6/4/2010	Trap	JBS 100602-2
Salt Creek at Bienville Boulevard on Dauphin Island	Mobile	Offshore Section 75	30.2529	-88.1207	6/4/2010	Trap	JBS 100602-3
Unnamed tributary to Bayou la Batre ~1.5 mi NNW Bayou La Batre	Mobile	sec. 22, T. 7 S., R. 3 W.	30.4162	-88.2651	6/3/2010	Trap	JBS 100602-4
Bishop Manor Creek at Co. Rd. 19 ~3 mi N Bayou La Batre	Mobile	sec. 11, T. 7 S., R. 3 W.	30.4490	-88.2443	6/3/2010	Trap	JBS 100602-5
Hammar Creek at Co. Rd. 19 at Dixon Corner ~3 mi S Irvington	Mobile	sec. 12, T. 7 S., R. 3 W.	30.4562	-88.2392	6/3/2010	Trap	JBS 100602-6
Tributary to Heron Bayou ~1.2 mi W Alabama Port on AL Hwy. 188	Mobile	sec. ?, T. 8 S., R. 2 W.	30.3678	-88.1367	6/4/2010	Trap	JBS 100602-7
Roadside ditch along AL Hwy. 188 ~0.3 mi W Alabama Port	Mobile	sec. 7, T. 8 S., R. 1 W.	30.3630	-88.1244	6/4/2010	Trap	JBS 100602-8
Franklin Creek at Old U.S. Hwy. 90 crossing	Mobile	sec. 4, T. 7 S., R. 4 W.	30.4680	-88.3816	6/3/2010	Hand Net	JBS 100603-1
Unnambd tributary to Bayou La Batre ~1.3 mi NW Bayou La Batre	Mobile	sec. 21, T. 7 S., R. 3 W.	30.4148	-88.2778	6/4/2010	Trap	JBS 100603-2
Isolated pool on Marine Laboratory Road on Point Aux Pins Island	Mobile	sec. 32, T. 7 S., R. 3 W.	30.3956	-88.3028	6/3/2010	Hand Net	JBS 100603-3
Bayou Jonas at Co. Rd. 59 ~0.5 mi S Delchamps	Mobile	sec. 35, T. 7 S., R. 2 W.	30.3941	-88.1498	6/4/2010	Trap	JBS 100603-4
Fowl River at Half Mile Road ~0.75 mi W Laurendine	Mobile	sec. 28, T. 6 S., R. 2 W.	30.5008	-88.1814	6/4/2010	Trap	JBS 100603-5
Unnamed tributary to Mobile Bay ~0.6 mi NNE Bayles Corner near Fowl Point on Salt Aire Road	Mobile	sec. 33, T. 6 S., R. 1 W.	30.4719	-88.1075	6/4/2010	Trap	JBS 100603-6
Unnamed cave 3.5 mi W Perdue Hill	Monroe	sec. 4, T. 6 N., R. 5 E.	31.5130	-87.5720	11/2/2009	By hand	EWS 091102-1
Big Flat Creek at gravel road just SE Nadawah	Monroe	sec. 28, T. 10 N., R. 9 E.	31.8114	-87.1695	6/16/2009	By hand	MLB 090616-1
Unnamed tributary to Brushy Creek u/s Co. Rd. 20	Monroe	sec. 10, T. 6 N., R. 8 E.	31.4962	-87.2476	3/9/2010	By hand	MLB 100309-1
Mill Creek at Langham Rd.	Monroe	sec. 29, T. 6 N., R. 9 E.	31.4554	-87.1887	3/9/2010	By hand	MLB 100309-2
Big Flat Creek at AL Hwy. 265 N Beatrice, S of Chestnut, d/s of Rickards Mill Historical Park	Monroe	sec. 1, T. 9 N., R. 8 E.	31.7784	-87.2229	1/19/2009	Trap	SWM 090119-1
Robinson Creek at pasture u/s AL Hwy. 47/21 ~4.0 mi S Beatrice	Monroe	sec. 1, T. 8 N., R. 8 E.	31.6839	-87.2164	1/19/2009	Hand Net	SWM 090119-2
Shomo Creek at Co. Rd. 8 near Eliska	Monroe	sec. 5, T. 4 N., R. 4 E.	31.3539	-87.6700	1/19/2009	Hand Net	SWM 090119-4
Ramer Creek at Co. Rd. 61 crossing	Montgomery	sec. 14, T. 13 N., R. 18 E.	32.0993	-86.2301	2/11/2010	Seine/digging/hand net	GAS 10-14
Baskins Mill Creek at Woodley Rd. ~1.5 mi ENE Gibson	Montgomery	sec. 14, T. 13 N., R. 19 E.	32.1006	-86.1277	2/5/2009	Trap	JBS 090203-1
Pintlala Creek at Butler Mill Rd. ~2.5 mi SW Sprague	Montgomery	sec. 12, T. 13 N., R. 17 E.	32.1194	-86.3179	2/5/2009	Trap	JBS 090203-2
Pinchony Creek at Co. Rd. 54 (Tabernacle Rd.) ~1.5 mi SSW Pintlala	Montgomery	sec. 29, T. 14 N., R. 17 E.	32.1531	-86.3829	2/5/2009	Trap	JBS 090203-3
Pintlala Creek at Co. Rd. 54 (Old Selma Rd.)	Montgomery	sec. 29, T. 16 N., R. 16 E.	32.3392	-86.4778	2/6/2009	Trap	JBS 090204-2
Ramer Creek at Co. Rd. 61 (Hanche Mill Rd.)	Montgomery	sec. 10, T. 14 N., R. 18 E.	32.0992	-86.2302	2/5/2009	Trap	JBS 090204-3
Millies Creek at AL Hwy. 110 ~1.3 mi ESE Merry	Montgomery	sec. 28, T. 16 N., R. 20 E.	32.3417	-86.0675	3/5/2009	Trap	JBS 090219-1
Ditch tributary to Catoma Creek at 418 Daphne Lane near Selbrook and Montgomery	Montgomery	sec. 24, T. 16 N., R. 16 E.	32.3572	-86.4150	4/12/2010	Hand Net	SWM 100412-3
Pintlala Creek at Co. Rd. 15 (Wasden Rd.) ~3.0 mi SW Hope Hull	Montgomery/Lowndes	sec. 30, T. 15 N., R. 17 E.	32.2430	-86.4066	2/6/2009	Trap	JBS 090204-1

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Dry Creek off Dry Creek Road	Morgan	sec. 15, T. 6 S., R. 1 W.	34.5117	-86.6242	11/2/2008	Seine/digging/hand net	GAS 08-18
Baker Creek at Ipsco Road	Morgan	sec. 15, T. 5 S., R. 5 W.	34.6083	-87.0452	5/12/2009	Seine/BP	JBS 090512-2
Flint Creek embayment on Tennessee River and small, swampy slough at Point Mallard Golf Course	Morgan	sec. 27, T. 5 S., R. 4 W.	34.5814	-86.9331	4/29/2009	Hand Net	JTG 090429-1
Unnamed tributary to Shoal Creek at Sparkman Park at Adams Street in Hartselle	Morgan	sec. 22, T. 7 S., R. 4 W.	34.4269	-86.9359	12/9/2008	Hand Net	SWM 081209-1
Cedar Creek at U.S. Hwy. 31 N Falkville, S Hartselle at RR bridge	Morgan	sec. 25, T. 7 S., R. 4 W.	34.3981	-86.9131	12/9/2008	Hand Net	SWM 081209-2
Trinity Branch at Alt. U.S. Hwy. 72/AL Hwy 20 near Lawrence/Morgan Co. line at Trinity	Morgan	sec. 1/12, T. 5 S., R. 6 W.	34.6356	-87.1261	12/9/2008	Hand Net	SWM 081209-3
Oakmulgee Creek at Co. Rd. 30 ~1.8 mi ESE Perryville	Perry	sec. 20, T. 19 N., R. 10 E.	32.6121	-87.0869	4/3/2008	Trap	JBS 080401-2
Oakmulgee Creek at Co. Rd. 64 ~3.1 mi ENE Osborn	Perry	sec. 29, T. 20 N., R. 10 E.	32.6913	-87.0904	4/3/2008	Trap	JBS 080401-3
Oakmulgee Creek at unnamed county road ~0.6 mi SSE Oakmulgee	Perry	sec. 23, T. 21 N., R. 10 E.	32.7899	-87.0414	4/3/2008	Trap	JBS 080401-4
roadside ditch at gravel road ~2.3 mi SW Norman	Perry	sec. 18, T. 18 N., R. 8 E.	32.5270	-87.3124	4/16/2009	Hand Net	JBS 090416-1
Tributary to Bogue Chitto Creek ~1.5 mi SW Hamburg at Co. Rd. 12	Perry	sec. 19, T. 18 N., R. 8 E.	32.5195	-87.3065	4/16/2009	Hand Net/Digging	JBS 090416-2
Ditch on N side of Alabama Biodiversity Center ponds ~0.5 mi E AL Hwy. 175	Perry	sec. 22, T. 20 N., R. 8 E.	32.6978	-87.2573	3/20/2009	Digging	MLB 090320-1
Bogue Chitto floodplain at power line just S Co. Rd. 38	Perry	sec. 12, T. 18 N., R. 8 E.	32.5435	-87.3298	4/14/2009	Digging	JTH 090326-1
Unknown tributary to Rice Creek downstream Co. Rd. 7	Perry	sec. 31, T. 20 N., R. 8 E.	32.6611	-87.3137	4/20/2009	Digging	JTH 090420-1
Rice Creek at Co. Rd. 7 N Marion	Perry	sec. 31, T. 20 N., R. 8 E.	32.6613	-87.3173	4/23/2009		JTH 090423-1
Sand Creek tributary off Ridgecrest Road	Perry	sec. 27, T. 20 N., R. 7 E.	32.6763	-87.3685	4/23/2009	Hand Net/Digging	JTH 090423-2
Blubber Creek at AL Hwy. 14 WNW Aliceville	Pickens	sec. 13, T. 22 S., R. 2 W.	33.1435	-88.1688	1/22/2009	Hand Net	CCJ 090122-1
Snake Creek at AL Hwy. 86 ENE Pickensville	Pickens	sec. 18, T. 21 S., R. 3 W.	33.2377	-88.2433	1/22/2009	Hand Net	CCJ 090122-2
Tributary of Lubbub Creek at Co. Rd. 2 S Aliceville	Pickens	sec. 7, T. 24 N., R. 1 W.	33.0809	-88.1419	1/22/2009	Hand Net	CCJ 090122-3
Hughes Creek at Co. Rd. 23 SSE Aliceville	Pickens	sec. 9, T. 24 N., R. 1 W.	33.0707	-88.0994	1/22/2009	Hand Net	CCJ 090122-4
Bear Creek at Co. Rd. 30 crossing ~6.0 mi NW Gordo	Pickens	sec. 5, T. 20 S., R. 13 W.	33.3432	-87.9171	11/4/2008	Seine/digging/hand net	GAS 08-27
Coal Fire Creek at Co. Rd. 27 crossing	Pickens	sec. 1, T. 19 S., R. 15 W.	33.4367	-88.0584	11/4/2008	Seine/digging/hand net	GAS 08-28
Little Bear Creek at Co. Rd. 9 ~2.0 mi SSW Gordo	Pickens	sec. 20, T. 20 S., R. 13 W.	33.2965	-87.9203	4/17/2008	Digging	JBS 080417-1
Roadside ditch just W Tenn-Tom Waterway at AL Hwy. 86	Pickens	sec. 22, T. 21 S., R. 17 W.	33.2272	-88.3007	4/17/2008	Digging	JBS 080417-2
Hughes Creek at Co. Rd. 23	Pickens	sec. 16, T. 24 N., R. 1 W.	33.0713	-88.0993	8/8/2008	Trap/Seine/Hand	JBS 080806-2
Little Magby Creek at Co. Rd. 34	Pickens	sec. 18, T. 18 S., R. 16 W.	33.4975	-88.2549	7/15/2010	Trap/Hand Net	JBS 100715-1
Little Magby Creek at Caston Road	Pickens	sec. 17, T. 18 S., R. 16 W.	33.5017	-88.2332	7/15/2010	Trap/Hand Net	JBS 100715-2
Magby Creek at Co. Rd. 53	Pickens	sec. 20, T. 18 S., R. 16 W.	33.4810	-88.2365	7/15/2010	Trap	JBS 100715-3
Bell Branch at Bell Branch Rd. N Co. Rd. 30, S U.S. Hwy. 82 at Stafford	Pickens	sec. 5, T. 19 S., R. 16 W.	33.4419	-88.2374	12/30/2008	Hand Net	SWM 081230-1
Kincaide Creek at St. Johns Rd. ~3.0 mi SE Ethelsville	Pickens	sec. 28, T. 19 S., R. 16 W.	33.3765	-88.2057	12/30/2008	Hand Net	SWM 081230-2
Walnut Creek at Co. Rd. 26	Pike	sec. 35, T. 10 N., R. 21 E.	31.7983	-85.9106	6/9/2008	Seine/BP/Digging	JBS 080609-1
Bowden Mill Creek at Co. Rd. 2	Pike	sec. 18, T. 8 N., R. 23 E.	31.6690	-85.7829	6/9/2008	Seine/BP/Digging	JBS 080609-2
Bowden Mill Creek at Pike Co. Rd. 4423 (Co. Rd. 2?)	Pike	sec. 18, T. 8 N., R. 23 E.	31.6690	-85.7829	7/23/2009	Trap	JBS 090721-1
Walnut Creek at Co. Rd. 5513 (Co. Rd. 26)	Pike	sec. 35, T. 10 N., R. 21 E.	31.7983	-85.9106	7/23/2009	Trap	JBS 090721-2
Unnamed tributary to Walnut Creek at Co. Rd. 5513 ~2.7 mi E Troy	Pike	sec. 34, T. 10 N., R. 21 E.	31.8074	-85.9435	7/23/2009	Trap	JBS 090721-3
Conecuh River at Co. Rd. 2243 ~1.0 mi ESE Goshen	Pike	sec. 25, T. 9 N., R. 19 E.	31.7197	-86.1069	7/23/2009	Trap	JBS 090722-1
Conecuh River at Co. Rd. 7708 ~1.5 mi NNE McClure Town	Pike	sec. 4, T. 10 N., R. 21 E.	31.8690	-85.9467	7/23/2009	Trap	JBS 090722-2
Conecuh River at Co. Rd. 6600 ~0.3 mi SE Linwood	Pike	sec. 20, T. 11 N., R. 22 E.	31.9230	-85.8612	7/23/2009	Trap	JBS 090722-3
Cohobadiah Creek at Co. Rd. 82 in Newell	Randolph	sec. 30, T. 18 S., R. 12 E.	33.4317	-85.4312	6/10/2010	Seine/BP	JBS 100610-1
Wedowee Creek at AL Hwy. 48	Randolph	sec. 2, T. 20 S., R. 11 E.	33.3098	-85.4714	6/10/2010	Seine/BP	JBS 100610-2
Unnamed tributary of North Fork Cowikee Creek along AL Hwy. 51 ~1.0 km SSW Co. Rd. 22 ~5 km N Hurtsboro	Russell	sec. 14, T., 15 N., R. 26 E.	32.2899	-85.4155	2/9/2010	Seine/digging/hand net	GAS 10-02
Roadside ditch along Co. Rd. 49 N Hurtsboro Creek ~1.1 km SSE Co. Rd. 49/4 intersection	Russell	sec. 23, T. 14 N., R. 27 E.	32.1809	-85.3085	2/9/2010	Seine/digging/hand net	GAS 10-03
Uchee Creek at AL Hwy. 169	Russell	sec. 13, T. 16 N., R. 28 E.	32.3786	-85.1823	6/5/2008	Seine/BP	JBS 080605-2
Little Uchee Creek at Co. Rd. 28	Russell	sec. 2, T. 16 N., R. 29 E.	32.4108	-85.1077	6/6/2008	Seine/BP	JBS 080606-1
Yellowleaf Creek at Co. Rd. 49	Shelby	sec. 13, T. 20 S., R. 1 W.	33.2956	-86.5896	5/26/2010	Seine/BP	CCJ 100526-1
Muddy Prong at Co. Rd. 450	Shelby	sec. 35, T. 19 S., R. 1 E.	33.3351	-86.5173	5/26/2010	Seine/BP	CCJ 100526-2

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Cahaba River at Presbytery Canoe Launch	Shelby	sec. 35, T. 21 S., R. 5 W.	33.1696	-87.0201	11/24/2009	Snorkling	SWM 091124-1
Shoal Creek at Montevallo at old covered bridge site d/s Spring Creek	Shelby	sec. 22, T. 22 S., R. 3 W.	33.1081	-86.8475	5/12/2010	Seine/BP	SWM 100512-1
Dry Creek at Co. Rd. 12 near Montevallo	Shelby	sec. 22, T. 22 S., R. 3 W.	33.1047	-86.8386	5/12/2010	Seine/BP	SWM 100512-2
Unnamed tributary of Little Canoe Creek at prison facility	St. Clair	sec. 1, T. 15 S., R. 2 E.	33.7511	-86.3899	11/5/2009	Seine/BP	CCJ 091105-1
Beaver Creek at Co. Rd. 21	St. Clair	sec. 9, T. 14 S., R. 5 E.	33.8364	-86.1200	5/27/2010	Seine/BP	CCJ 100527-1
Big Canoe Creek at Co. Rd. 36	St. Clair	sec. 12, T. 14 S., R. 3 E.	33.8326	-86.2832	10/30/2008	Seine	JBS 081030-1
Little Canoe Creek at Beulah	St. Clair	sec. 30, T. 14 S., R. 3 E.	33.7808	-86.3632	10/30/2008	Seine	JBS 081030-2
Big Canoe Creek at Co. Rd. 31	St. Clair	sec. 22, T. 14 S., R. 2 E.	33.8039	-86.4199	6/30/2009	Seine/BP/Hand Net	JBS 090630-1
Big Canoe Creek at Co. Rd. 9	St. Clair	sec. 24, T. 14 S., R. 1 E.	33.7989	-86.4888	6/30/2009	Seine/BP/Hand Net	JBS 090630-2
Little Canoe Creek between Beulah Rd. and Big Canoe Creek	St. Clair	sec. 30, T. 14 S., R. 3 E.	33.7848	-86.3607	10/17/2009	Seine/BP	PEO 081217-1
Unnamed tributary of Big Canoe Creek (?) near Red Hill Church	St. Clair	sec. 35, T. 14 S., R. 2 E.	33.7762	-86.4112	2/11/2009	Seine/BP	PEO 090211-1
Gin Branch at Beulah Church Loop Road	St. Clair	sec. 30, T. 14 S., R. 3 E.	33.7838	-86.3758	2/11/2009	Seine/BP	PEO 090211-2
Little Canoe Creek at Beulah Circle Road	St. Clair	sec. 30, T. 14 S., R. 3 E.	33.7801	-86.3626	8/26/2009	Hand Net	SWM 090826-2
Little Canoe Creek at St. Clair Correctional Facility Road	St. Clair	sec. 12, T. 15 S., R. 2 E.	33.7368	-86.3799	8/27/2009	Hand Net	SWM 090827-1
Cole Springs at Cole Farm on Cole Drive near Springville	St. Clair	sec. 36, T. 14 S., R. 1 E.	33.7794	-86.4964	11/9/2009	Hand Net	SWM 091109-1
Private swimming pool of W.D. Morrison off Oak Grove Rd. near Springville	St. Clair	sec. 24, T. 14 S., R. 1 E.	33.8086	-86.4824	8/31/2009	By hand	WDM 090831-1
Alamuchee Creek at Co. Rd. 10 near Cuba	Sumter	sec. 26, T. 17 N., R. 4 W.	32.4203	-86.3696	9/4/2008	Trap	JBS 080822-2
Kinterbish Creek at Charles Spur Rd. ~0.25 mi W Charles	Sumter	sec. 33, T. 16 N., R. 3 W.	32.3235	-88.2897	9/4/2008	Trap	JBS 080822-3
Roadside ditch at Co. Rd. 42 just W Whitfield	Sumter	sec. 17, T. 16 N., R. 1 W.	32.3648	-88.1107	9/3/2008	Trap	JBS 080822-4
Cotohaga Creek at Co. Rd. 42	Sumter	sec. 30, T. 16 N., R. 1 E.	32.3297	-88.0155	9/3/2008	Trap	JBS 080822-5
Roadside ditch tributary to Toomsaba Creek ~1.0 mi SW York	Sumter	sec. 5, T. 17 N., R. 3 W.	32.4769	-88.3220	9/4/2008	Digging	JBS 080904-1
Jones Creek at AL Hwy. 39 ~2.8 mi N junction of U.S. Hwy. 11 and AL Hwy. 39	Sumter	sec. 23, T. 20 N., R. 2 W.	32.6906	-88.1671	7/15/2010	Trap/Digging	JBS 100714-1
Jones Creek at Co. Rd. 20 near I-59/20 Exit 23	Sumter	sec. 7, T. 20 N., R. 1 W.	32.7022	-88.1471	7/15/2010	Trap/Digging	JBS 100714-2
Tifallili Creek at Watson Creek confluence	Sumter	sec. 7, T. 21 N., R. 3 W.	32.8043	-88.3367	5/27/2010	Hand Net	SWM 100527-1
Scuma Creek at Co. Rd. 35 between Gainesville and Panola ~3 mi W Tombigbee River	Sumter	sec. 17/18, T. 22 N., R. 2 W.	32.8845	-88.2225	5/27/2010	Hand Net	SWM 100527-2
Fenache Creek at Co. Rd. 4 ~2.5 mi S Pickens/Sumter County line ~5 mi W Tombigbee River	Sumter	sec. 18, T. 23 N., R. 2 W.	32.9728	-88.2348	5/27/2010	Hand Net	SWM 100527-3
Factory Creek at AL Hwy. 39 ~6 mi N Epes	Sumter	sec. 2/3, T. 20 N., R. 2 W.	32.7449	-88.1674	5/27/2010	Hand Net	SWM 100527-4
Shirtee Creek at Old Sylacauga Hwy. (Co. Rd. 45)	Talladega	sec. 18, T. 21 S., R. 4 E.	33.2028	-86.2724	5/25/2010	Seine/BP	CCJ 100525-1
Poorhouse Branch at AL Hwy. 34	Talladega	sec. 36, T. 17 S., R. 4 E.	33.5166	-86.1666	5/25/2010	Seine/BP	CCJ 100525-2
Sougahatchee Creek at Moss Flat Rd.	Tallapoosa	sec. 25, T. 19 N., R. 23 E.	32.6006	-85.7131	5/12/2010	Seine/BP	JBS 100512-1
Blue Creek at AL Hwy. 50	Tallapoosa	sec. 13, T. 20 N., R. 23 E.	32.7229	-85.7014	5/12/2010	Seine/BP	JBS 100512-2
Chattasofka Creek at East South Street in Dadeville	Tallapoosa	sec. 10, T. 21 N., R. 23 E.	32.8228	-85.7447	5/12/2010	Seine/BP	JBS 100512-3
Emuckfaw Creek at AL Hwy. 49 near Horseshoe Bend	Tallapoosa	sec. 9, T. 23 N., R. 23 E.	32.9945	-85.7497	5/12/2010	Seine/BP	JBS 100512-4
Hillabee Creek at AL Hwy. 22	Tallapoosa	sec. 16, T. 23 S., R. 22 E.	32.9847	-85.8610	5/13/2010	Seine/BP	JBS 100513-1
Yellow Creek at Watermelon Road crossing	Tuscaloosa	sec. 27, T. 19 S., R. 9 W.	33.3604	-87.4608	11/4/2008	Seine/digging/hand net	GAS 08-25
Mill Creek at Flatwoods/Cloverdale Road	Tuscaloosa	sec. 5, T. 21 S., R. 10 W.	33.2481	-87.6061	11/4/2008	Seine/digging/hand net	GAS 08-26
Binion Creek at Old Fayette Rd. nr. Gin Creek confluence	Tuscaloosa	sec. 1, T. 19 S., R. 11 W.	33.4256	-87.6431	1/16/2008	Trap	JBS 080109-1
Binion Creek at Kemp Rd. ~1.1 mi NNW Wilson Cemetery	Tuscaloosa	sec. 17, T. 18 S., R. 11 W.	33.4792	-87.7042	1/16/2008	Trap	JBS 080109-2
Binion Creek at gravel road and Jones Mill Pond Road intersection	Tuscaloosa	sec. 8, T. 18 S., R. 11 W.	33.4999	-87.7051	1/16/2008	Trap	JBS 080109-3
Sipsey River at Brownville Road	Tuscaloosa	sec. 14, T. 19 S., R. 12 W.	33.3910	-87.7691	1/16/2008	Trap	JBS 080109-4
Sipsey River at Echola Rd. ~1.5 mi SE Echola (Co. Rd. 21)	Tuscaloosa	sec. 2, T. 20 S., R. 12 W.	33.3323	-87.7637	1/16/2008	Trap	JBS 080109-5
Moody Swamp and roadside ditch at M. L. King Boulevard	Tuscaloosa	sec. 4, T. 22 S., R. 10 W.	33.1628	-87.5834	1/16/2008	Trap	JBS 080109-6
Yellow Creek at Lake Nicol Tailrace Pool on Co. Rd. 42	Tuscaloosa	sec. 21, T. 20 S., R. 9 W.	33.2900	-87.4830	2/4/2008	Trap	JBS 080123-1
Yellow Creek at Watermelon Rd. ~0.7 mi ENE Yellow Creek Church	Tuscaloosa	sec. 27, T. 19 S., R. 9 W.	33.3625	-87.4625	2/4/2008	Trap	JBS 080123-2
Strip pit pond at Watermelon Rd. nr. Blue Creek	Tuscaloosa	sec. 30, T. 18 S., R. 8 W.	33.4353	-87.4221	2/4/2008	Trap	JBS 080123-3
Blue Creek at Watermelon Road	Tuscaloosa	sec. 30, T. 18 S., R. 8 W.	33.4505	-87.4125	2/4/2008	Trap	JBS 080123-4
Blue Creek at Co. Rd. 38 ~1.5 mi E Windham Springs	Tuscaloosa	sec. 15, T. 18 S., R. 9 W.	33.4840	-87.4716	2/4/2008	Trap	JBS 080123-5
Davis Creek at Co. Rd. 59/Thompsons Mill	Tuscaloosa	sec. 17, T. 19 S., R. 7 W.	33.3883	-87.2971	2/28/2008	Trap	JBS 080204-1

Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Davis Creek at Hannah Creek Rd. ~0.5 mi E of Jim Walter Mine #7	Tuscaloosa	sec. 2, T. 20 S., R. 7 W.	33.3319	-87.2375	2/28/2008	Trap	JBS 080204-2
Moody Swamp at industrial road/overpass of Interstate 20/59	Tuscaloosa	sec. 4, T. 22 S., R. 5 W.	33.1577	-87.5890	2/27/2008	Trap	JBS 080213-2
Duck Creek at Maxwell Loop Rd. at Englewood	Tuscaloosa	sec. 21, T. 22 S., R. 5 E.	33.1143	-87.5799	3/12/2008	Trap	JBS 080306-1
Mud Creek downstream of Ironworks at Tannehill State Park	Tuscaloosa	sec. 33, T. 20 S., R. 5 W.	33.2509	-87.0688	4/28/2008	Seine	JBS 080428-1
North River at Co. Rd. 63 nr. New Lexington	Tuscaloosa	sec. 19, T. 17 S., R. 10 W.	33.5622	-87.6302	7/22/2008	Seine/BP	JBS 080722-2
North River at Co. Rd. 38/Windham Springs Road	Tuscaloosa	sec. 16, T. 18 S., R. 10 W.	33.4221	-87.5938	7/23/2008	Seine/BP	JBS 080723-1
Malone Mill at gravel road between Pioneer and Elrod	Tuscaloosa	sec. 30, T. 21 S., R. 12 W.	33.1913	-87.8224	8/6/2008	Hand Net/Digging	JBS 080806-5
Cypress Pond (Oxbow Lake) at Foster's Loop Road	Tuscaloosa	sec. 12, T. 24 N., R. 4 E.	33.0656	-87.6270	9/17/2008	Trap	JBS 080904-2
Big Yellow Creek at AL Hwy. 69 ~0.25 mi NE Whitson	Tuscaloosa	sec. 17, T. 17 S., R. 8 W.	33.5717	-87.4034	10/15/2008	Trap	JBS 081010-4
Mud Creek downstream of Ironworks at Tannehill State Park	Tuscaloosa	sec. 33, T. 20 S., R. 5 W.	33.2509	-87.0688	4/8/2009	Seine/BP/Digging	JBS 090408-1
Hurricane Creek at Brookwood Middle School Road	Tuscaloosa	sec. 17, T. 21 S., R. 7 W.	33.2098	-87.2936	4/8/2009	Seine/BP/Digging	JBS 090408-2
Bear Creek at Old USGS Site gauging site	Tuscaloosa	sec. 26, T. 17 S., R. 10 W.	33.5428	-87.5612	4/9/2009	Seine/BP	JBS 090409-2
North River at Co. Rd. 63 nr. New Lexington	Tuscaloosa	sec. 19, T. 17 S., R. 10 W.	33.5622	-87.6302	4/9/2009	Seine	JBS 090409-3
Carrolls Creek at AL Hwy. 69	Tuscaloosa	sec. 22, T. 20 S., R. 10 W.	33.2944	-87.5683	4/10/2009	Seine/BP	JBS 090410-1
Binion Creek at Kemp Rd. ~1.1 mi NNW Wilson Cemetery	Tuscaloosa	sec. 17, T. 18 S., R. 11 W.	33.4792	-87.7042	4/10/2009	Seine/BP	JBS 090410-2
University of Alabama Campus at Bryant-Denny Stadium Plaza	Tuscaloosa	sec. 23, T. 21 S., R. 10 W.	33.2089	-87.5503	4/20/2010	Hand	JBS 100420-1
Mud Creek downstream of Ironworks at Tannehill State Park	Tuscaloosa	sec. 33, T. 20 S., R. 5 W.	33.2509	-87.0688	4/20/2010	Seine/BP	JBS 100420-2
Unnamed spring tributary to Mud Creek just N Tannehill State Park entrance at RR crossing	Tuscaloosa	sec. 32, T. 20 S., R. 5 W.	33.2565	-87.0840	6/2/2009	Hand Net	JTG 090602-1
Cripple Creek at mouth of Johnson Creek on High Mount Property	Tuscaloosa	sec. 1, T. 18 S., R. 10 W.	33.5086	-87.5401	7/9/2008	Hand Net	SWM 080709-1
Unnamed tributary to Black Warrior River at 5th St. and RR crossing in downtown Northport	Tuscaloosa	sec. 16, T. 21 S., R. 10 W.	33.2187	-87.5811	11/26/2008	Trap	SWM 081124-1
Blue Creek at AL Hwy. 69	Tuscaloosa	sec. 33, T. 17 S., R. 9 W.	33.5218	-87.4849	7/22/2009	Hand Net	SWM 090722-1
Big Yellow Creek at AL Hwy. 69	Tuscaloosa	sec. 17, T. 17 S., R. 8 W.	33.5684	-87.4080	7/22/2009	Hand Net	SWM 090722-2
Big Sandy Creek at bridge just downstream of U.S. Hwy. 82 near Duncanville	Tuscaloosa	sec. 14, T. 24 N., R. 6 E.	33.0546	-87.4498	4/13/2010	Trap	SWM 100413-4
Tadpole Creek (tributary of Big Sandy Creek) near Duncanville	Tuscaloosa	sec. 14, T. 24 N., R. 6 E.	33.0606	-87.4482	4/13/2010	Trap	SWM 100413-5
Town Creek at 17th Street in Jasper	Walker	sec. 16, T. 14 S., R. 7 W.	33.8348	-87.2765	5/20/2008	Seine	JBS 080520-1
Lost Creek at AL Hwy. 69 ~1.0 mi W Sardis	Walker	sec. 3, T. 15 S., R. 8 W.	33.7640	-87.3583	10/9/2008	Trap	JBS 080924-1
Blackwater Creek at AL Hwy. 257 ~1.0 mi E South Lowell	Walker	sec. 15, T. 13 S., R. 7 W.	33.9083	-87.2567	10/9/2008	Trap	JBS 080924-2
Blackwater Creek at Co. Rd. 51 (Walston Bridge Road)	Walker	sec. 24, T. 13 S., R. 7 W.	33.9045	-87.2287	10/9/2008	Trap	JBS 080924-3
Unnamed tributary to Wolf Creek at Pleasant Hill Road	Walker	sec. 35, T. 14 S., R. 9 W.	33.7855	-87.4532	10/10/2008	Trap	JBS 080924-4
Wolf Creek at Lockhart Hill Rd. and Co. Rd. 173 intersection	Walker	sec. 15, T. 15 S., R. 9 W.	33.7388	-87.4608	10/10/2008	Trap	JBS 080924-5
Wetland at Lockhart Hill Road	Walker	sec. 15, T. 15 S., R. 9 W.	33.7395	-87.4646	10/10/2008	Trap	JBS 080924-6
Strip pit pond near Lockhart Hill	Walker	sec. 7, T. 15 S., R. 9 W.	33.7533	-87.5156	10/10/2008	Trap	JBS 080925-1
Unnamed tributary to Wolf Creek at Frozen Hollow Road	Walker	sec. 31, T. 14 S., R. 9 W.	33.7820	-87.5272	10/9/2008	Trap	JBS 080925-2
Wolf Creek at AL Hwy. 102	Walker	sec. 31, T. 14 S., R. 9 W.	33.7889	-87.5226	10/9/2008	Trap	JBS 080925-3
Cane Creek at Coal Valley Rd. ~1.5 mi NW Oakman	Walker	sec. 20, T. 15 S., R. 8 W.	33.7274	-87.4104	10/15/2008	Trap	JBS 081010-1
Wolf Creek at AL Hwy. 18 downstream of RR crossing near Corona	Walker	sec. 28, T. 15 S., R. 9 W.	33.7089	-87.4775	10/15/2008	Trap	JBS 081010-2
Indian Creek at AL Hwy. 69 ~0.5 mi NNE The Wye	Walker	sec. 27, T. 17 S., R. 8 W.	33.6240	-87.3636	10/15/2008	Trap	JBS 081010-3
Town Creek at 17th Street in Jasper	Walker	sec. 16, T. 14 S., R. 7 W.	33.8348	-87.2765	4/9/2009	Seine	JBS 090409-1
Wolf Creek alongside Co. Rd. 173 N AL Hwy. 18	Walker	sec. 22, T. 15 S., R. 9 W.	33.7300	-87.4724	7/22/2009	Hand Net	SWM 090722-3
Lost Creek at Pleasant Grove Road SW New Jagger and SE Hilliard (McLain Bridge)	Walker	sec. 27, T. 14 S., R. 8 W.	33.8025	-87.3679	8/13/2009	Hand Net	SWM 090813-2
Lost Creek at Haley Bottoms Rd. at R.R. track near Kansas community	Walker	sec. 22, T. 13 S., R. 10 W.	33.9019	-87.5710	4/2/2010	Hand Net	SWM 100402-1
Mill Creek headwaters at Radiant City Rd. ~2 mi SW Nauvoo	Walker	sec. 25, T. 12 S., R. 10 W.	33.9705	-87.5378	4/2/2010	Hand Net	SWM 100402-2
Tributary of Gum Springs Branch at U.S. Hwy. 45	Washington	sec. 34, T. 3 N., R. 3 W.	31.2061	-88.2971	3/13/2008	Seine/Digging	JBS 080313-2
Bilbo Creek at Co. Rd. 19	Washington	sec. 23, T. 4 N., R. 2 W.	31.2958	-88.1512	3/13/2008	Seine/Hand Net/Digging	JBS 080313-3
Armstrong Creek at U.S. Hwy 43	Washington	sec. 1, T. 5 N., R. 1 W.	31.4286	-88.0262	3/13/2008	Seine/Hand Net	JBS 080313-4
Red Creek at Co. Rd. 34 ~0.75 mi W Mehaphy ~1.0 mi SW Shady Grove	Washington	sec. 32, T. 8 N., R. 4 W.	31.6192	-88.4109	1/22/2009	Seine/Hand Net	JBS 090122-1
Red Creek at unnumbered county road ~3.0 mi SW Mehaphy	Washington	sec. 6, T. 7 N., R. 4 W.	31.6037	-88.4314	1/22/2009	Seine/Hand Net	JBS 090122-2
Roadside ditch on U.S. Hwy. 45 ~0.2 mi N AL Hwy. 17 intersection	Washington	sec. 7, T. 3 N., R. 3 W.	31.2464	-88.3146	4/7/2010	Hand Net	SWM 100407-4

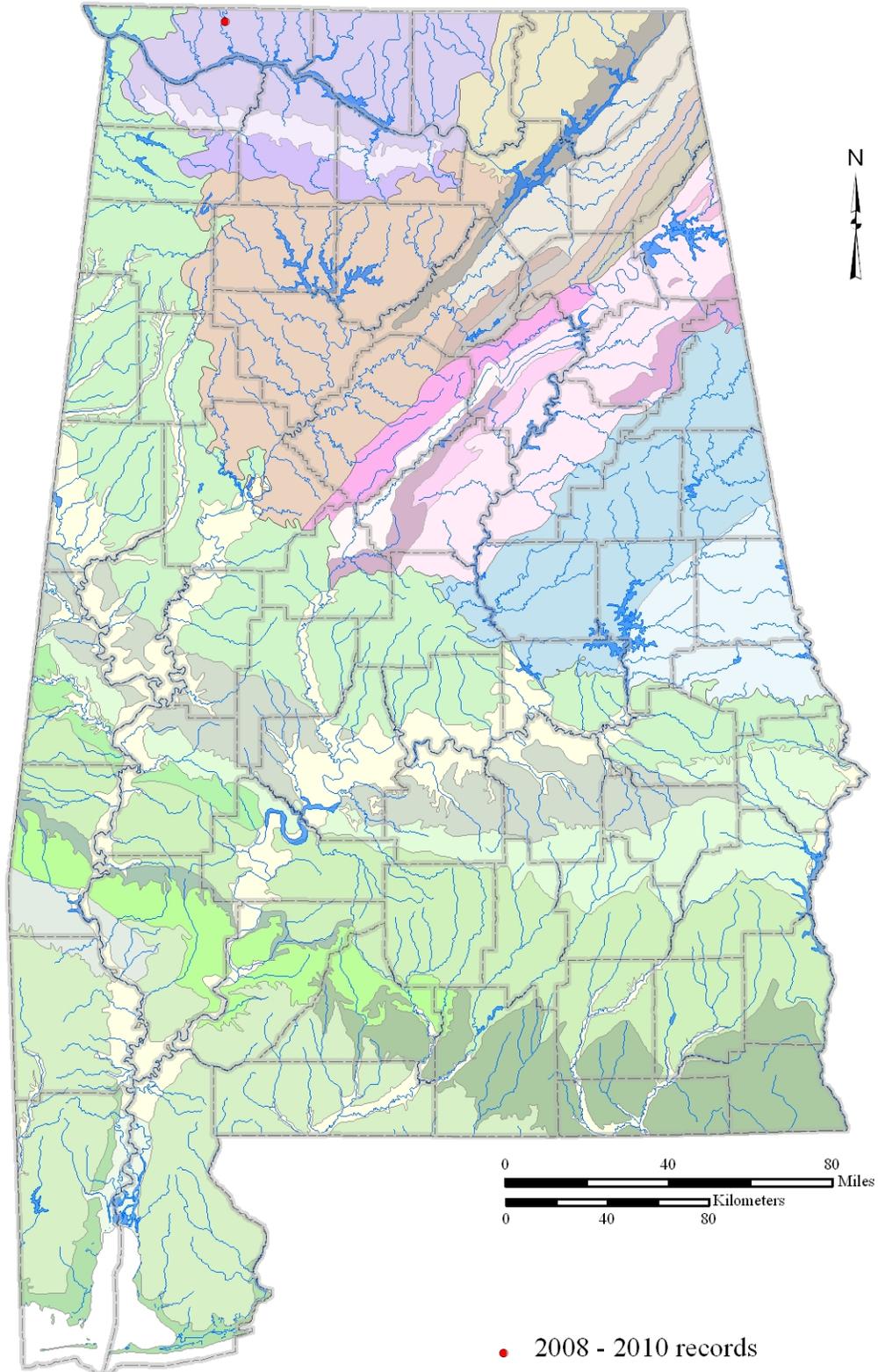
Location	County	sec., Township, Range	Lat. (dd N)	Long. (dd W)	Date	Method(s)	Field No.
Roadside ditch tributary to Escatawpa River at Second Street N Yellow Pine	Washington	sec. 1, T. 5 N., R. 5 W.	31.4286	-88.4325	4/7/2010	Hand Net	SWM 100407-5
Roadside ditch tributary to Rockwest Creek at Days Inn Hotel on AL Hwy. 10	Wicox	sec. 20, T. 12 N., R. 8 E.	32.0000	-87.2833	3/13/2008	Trap/Digging	JBS 080313-5
Oxbow lake near Alabama River at AL Hwy. 10 ~0.5 mi W Yellow Bluff	Wilcox	sec. 32, T. 12 N., R. 6 E.	31.9662	-87.4976	1/15/2009	Trap	CCJ 090113-1
Floodplain swamp adjacent to Alabama River at AL Hwy. 10 at Frank Dobson Bridge	Wilcox	sec. 31, T. 11 N., R. 6 E.	31.9696	-87.4126	1/15/2009	Trap/Digging	CCJ 090113-2
Lotties Creek at AL Hwy. 10	Wilcox	sec. 27, T. 11 N., R. 8 E.	31.9885	-87.2586	1/15/2009	Trap/Digging	CCJ 090113-3
Little Wolf Creek at AL Hwy. 28 E	Wilcox	sec. 27, T. 11 N., R. 9 E.	31.9882	-87.1608	1/15/2009	Trap	CCJ 090113-4
Prairie Creek at AL Hwy. 28 E	Wilcox	sec. 30, T. 11 N., R. 10 E.	31.9845	-87.1001	1/15/2009	Trap	CCJ 090113-5
Pursley Creek at Paul Jones Road	Wilcox	sec. 8, T. 11 N., R. 9 E.	31.9403	-87.1867	1/15/2009	Trap	CCJ 090113-6
Roadside ditch off AL Hwy. 28	Wilcox	sec. 9, T. 13 N., R. 7 E.	32.1126	-87.3811	1/13/2009	Hand Net	CCJ 090113-7
Pursley Creek at AL Hwy. 265 ~1.3 mi S Camden	Wilcox	sec. 29, T. 12 N., R. 8 E.	31.9824	-87.2850	3/14/2008	Seine/Hand Net/Digging	JBS 080314-1
Beaver Creek at Co. Rd. 27 ~0.8 mi WSW Sunny South	Wilcox	sec. 3, T. 11 N., R. 4 E.	31.9619	-87.6533	3/14/2008	Seine/Digging	JBS 080314-2
Goose Creek at Co. Rd. 32 just E Anne Manie and AL Hwy. 5	Wilcox	sec. 34, T. 13 N., R. 5 E.	32.0541	-87.5569	6/24/2009		JTH 090624-1
Pursley Creek at AL Hwy. 265	Wilcox	sec. 29, T. 12 N., R. 7 E.	31.9796	-87.2815	6/18/2009		MLB 090618-1
McCall's Creek at AL Hwy. 41 N Hybart, S of Dry Fork	Wilcox	sec. 4, T. 10 N., R. 7 E.	31.8704	-87.3780	1/22/2009	Hand Net	SWM 090122-1
Pursley Creek at AL Hwy. 41 near intersection of AL Hwy. 221 N Pebble Hill ~4 mi SW Camden	Wilcox	sec. 2, T. 11 N., R. 7 E.	31.9553	-87.3377	1/22/2009	Hand Net	SWM 090122-2
Sipsey Fork at Co. Rd. 60	Winston	sec. 8, T. 9 S., R. 8 W.	34.2853	-87.3991	5/19/2010	Seine/BP	CCJ 100519-1
Boone Creek just downstram of Co. Rd. 43 crossing	Winston	sec. 28, T. 9 S., R. 6 W.	34.2298	-87.1723	10/14/2009	Seine/digging/hand net	GAS 09-49
Quarter Creek off George Avenue	Winston	sec. 17, T. 9 S., R. 10 W.	34.2711	-87.6099	8/20/2008	Seine/BP	GSA 2287
New River at Natural Bridge Park	Winston	sec. 17, T. 11 S., R. 10 W.	34.0966	-87.6112	3/21/2008	Seine/Hand Net/Digging	JBS 080321-3
Unnamed tributary to Splunge Creek at Co. Rd. 17 ~1.2 mi NE Lynn	Winston	sec. 25, T. 11 S., R. 10 W.	34.0566	-87.5383	10/29/2008	Trap	JBS 081023-1
Splunge Creek at Co. Rd. 17 ~2.0 mi NNE Lynn	Winston	sec. 24, T. 11 S., R. 10 W.	34.0747	-87.5439	10/29/2008	Trap	JBS 081023-2
Right Fork at Co. Rd. 32	Winston	sec. 8, T. 10 S., R. 9 W.	34.1886	-87.4985	10/29/2008	Trap	JBS 081023-3
Clear Creek at Co. Rd. 81	Winston	sec. 20, T. 10 S., R. 9 W.	34.1656	-87.5134	10/29/2008	Trap	JBS 081023-4
Clear Creek at Co. Rd. 4 ~5.5 mi SSW Double Springs	Winston	sec. 19, T. 11 S., R. 8 W.	34.0809	-87.4232	10/29/2008	Trap	JBS 081023-5
Brushy Creek Lake at picnic area and campground	Winston	sec. 4, T. 9 S., R. 7 W.	34.2963	-87.2737	10/29/2009	Trap	JBS 091022-2
Rock Creek at Co. Rd. 39 ~3.2 mi NE Addison	Winston	sec. 35, T. 9 S., R. 6 W.	34.2264	-87.1411	10/29/2009	Trap	JBS 091022-3
Capsey Creek at Forest Service Road 266	Winston	sec. 18, T. 9 N., R. 6 W.	34.2693	-87.2110	5/18/2010	Seine/BP	SWM 100518-1
Rock Creek at Co. Rd. 66 ~3 mi SW Nesmith	Winston	sec. 21, T. 10 S., R. 6 E.	34.1589	-87.1663	5/20/2010	Seine/BP	SWM 100520-2

Appendix B

Distribution maps of Alabama crayfish species

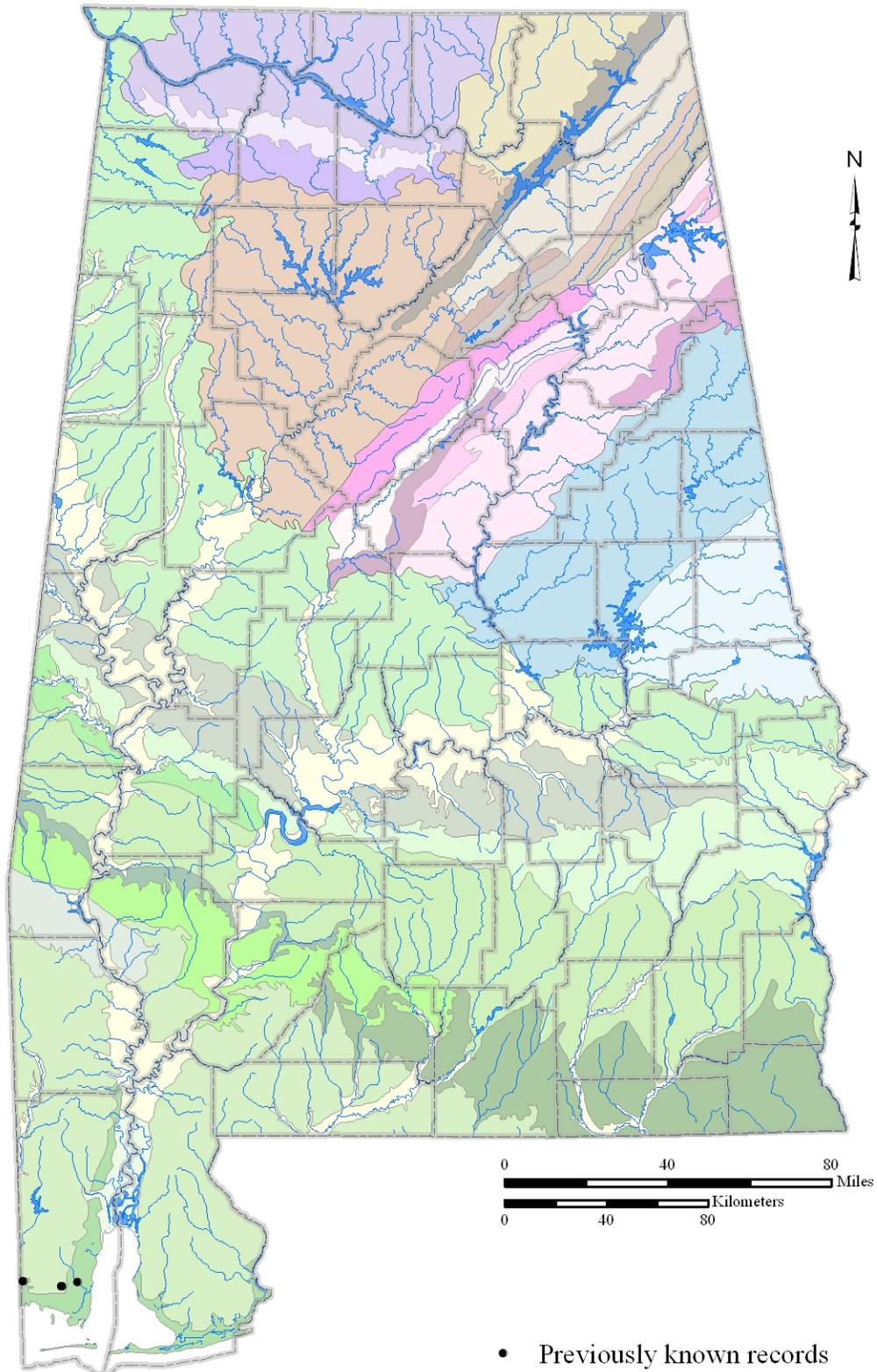
Tennessee Bottlebrush Crayfish

Barbicambarus simmonsii



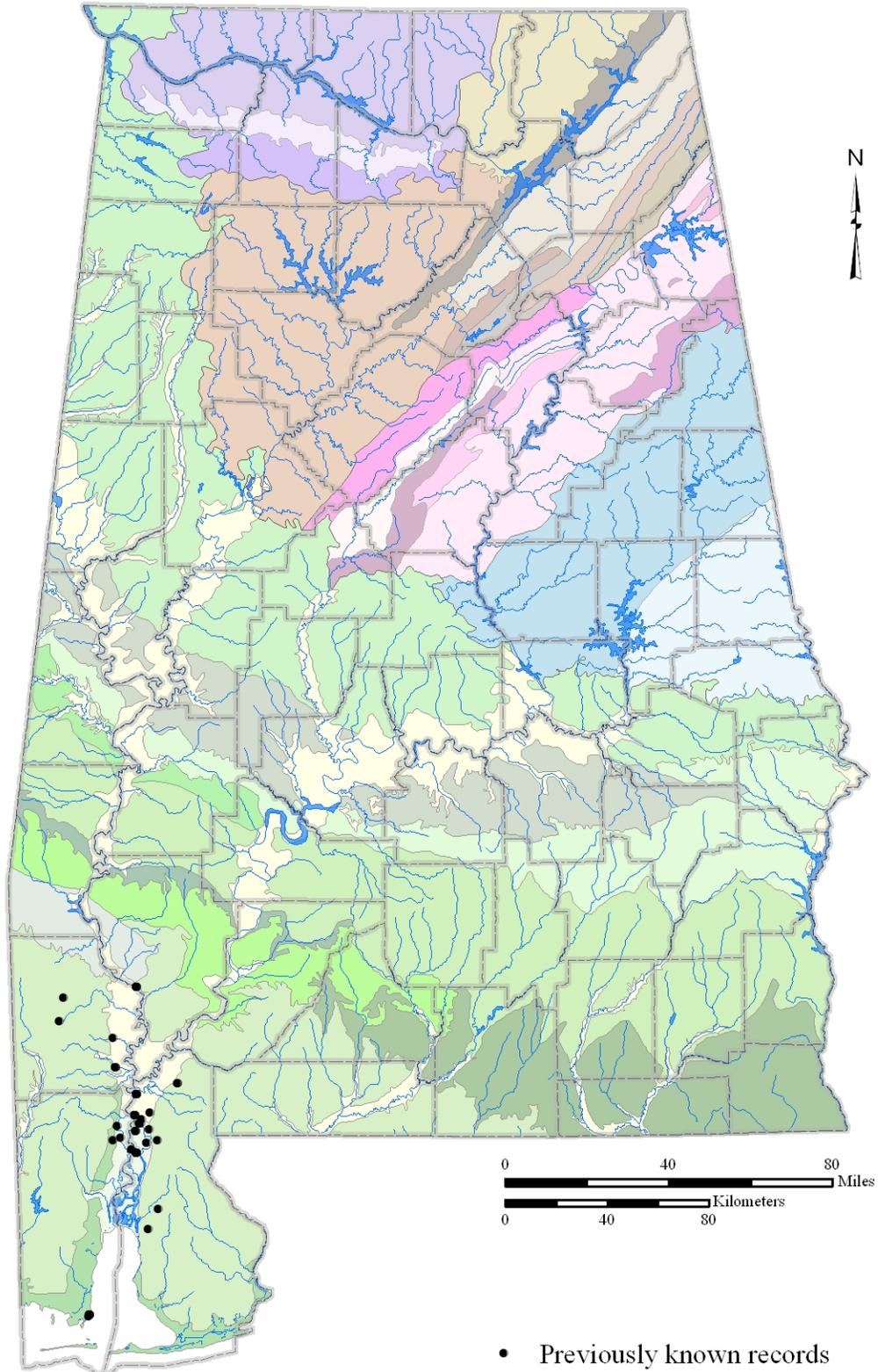
Least Crayfish

Cambarellus diminutus



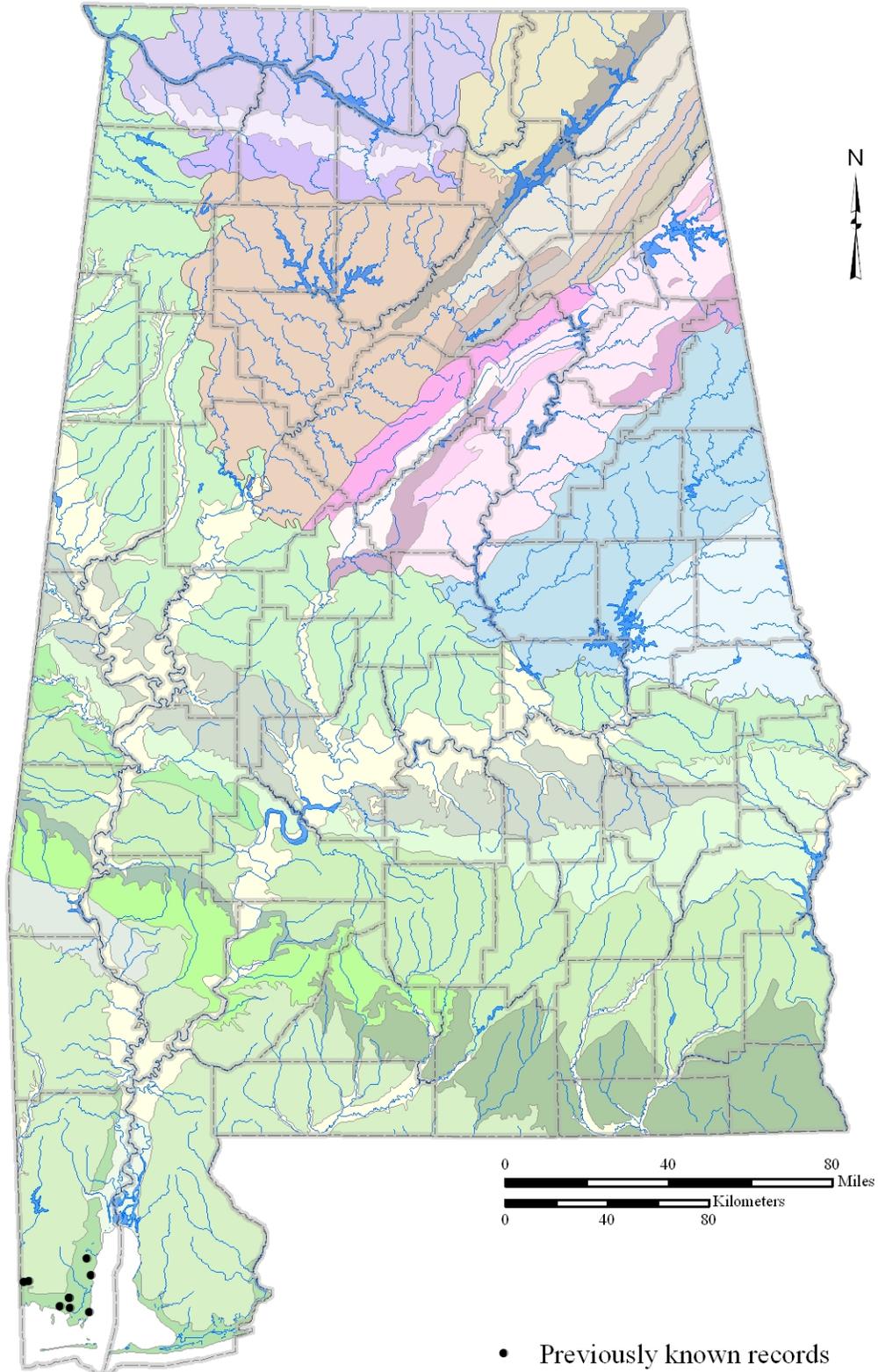
Angular Dwarf Crayfish

Cambarellus lesliei



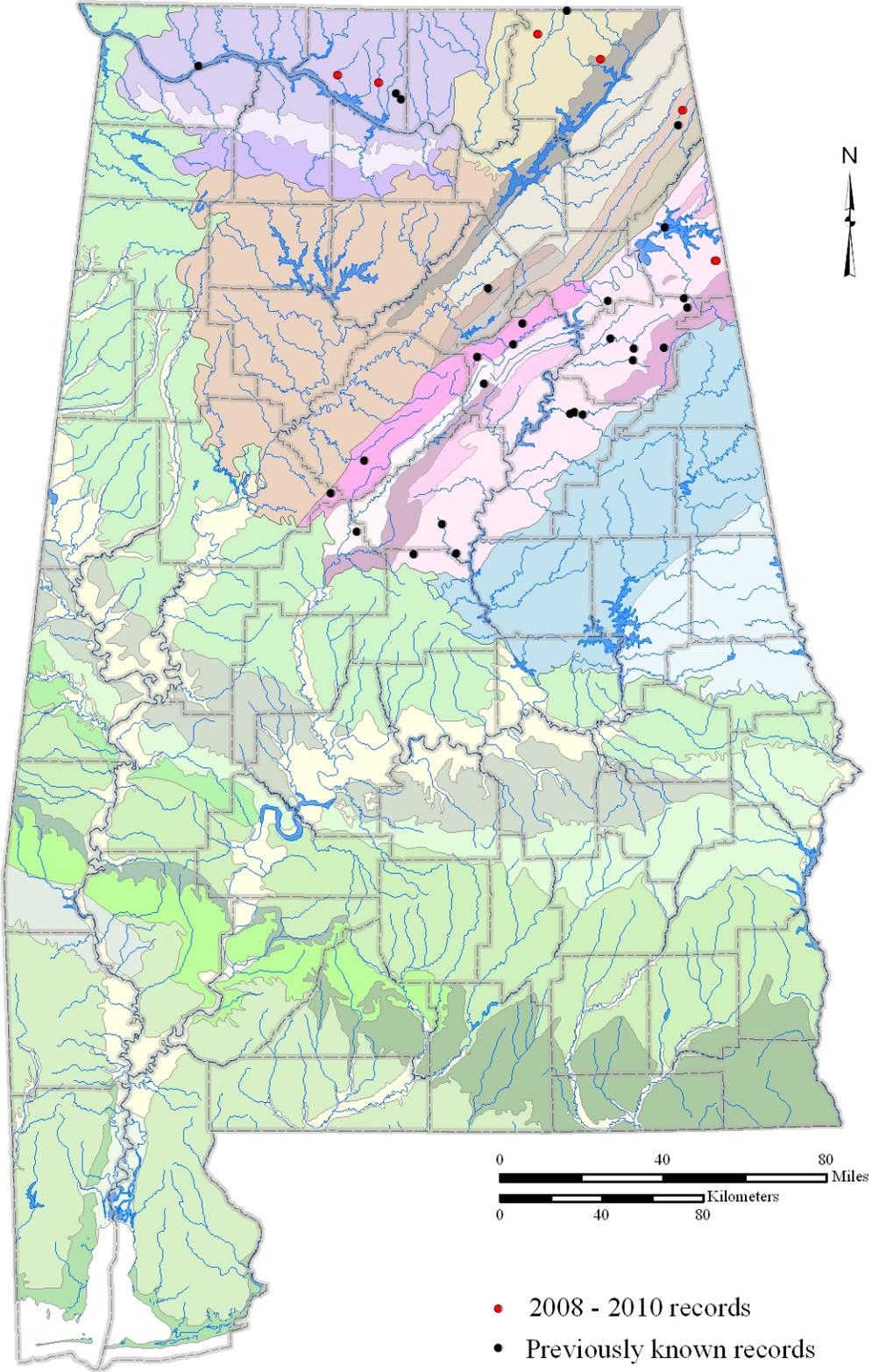
Cajun Dwarf Crayfish

Cambarellus shufeldtii



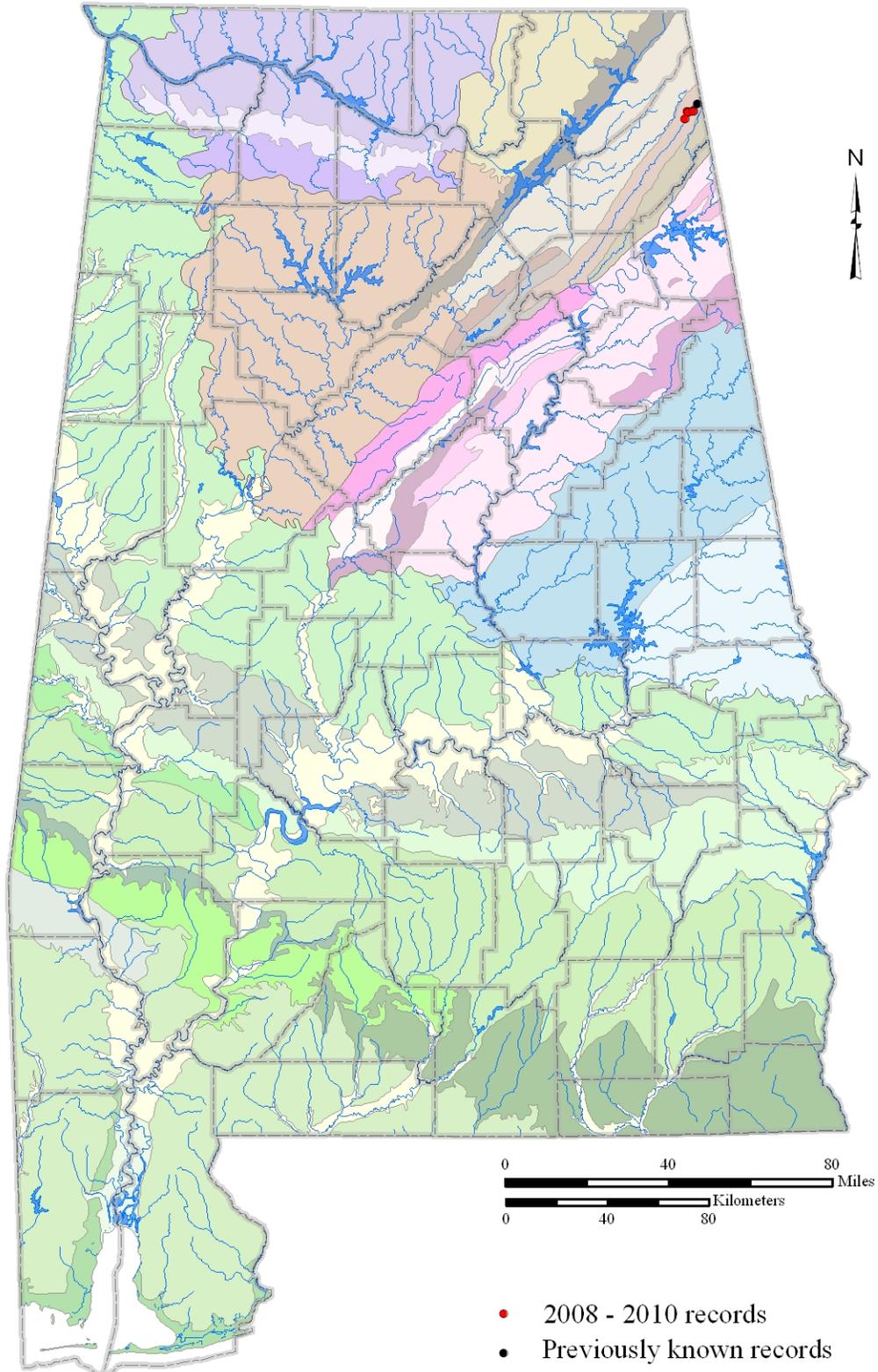
Thornytail Crayfish

Cambarus acanthura



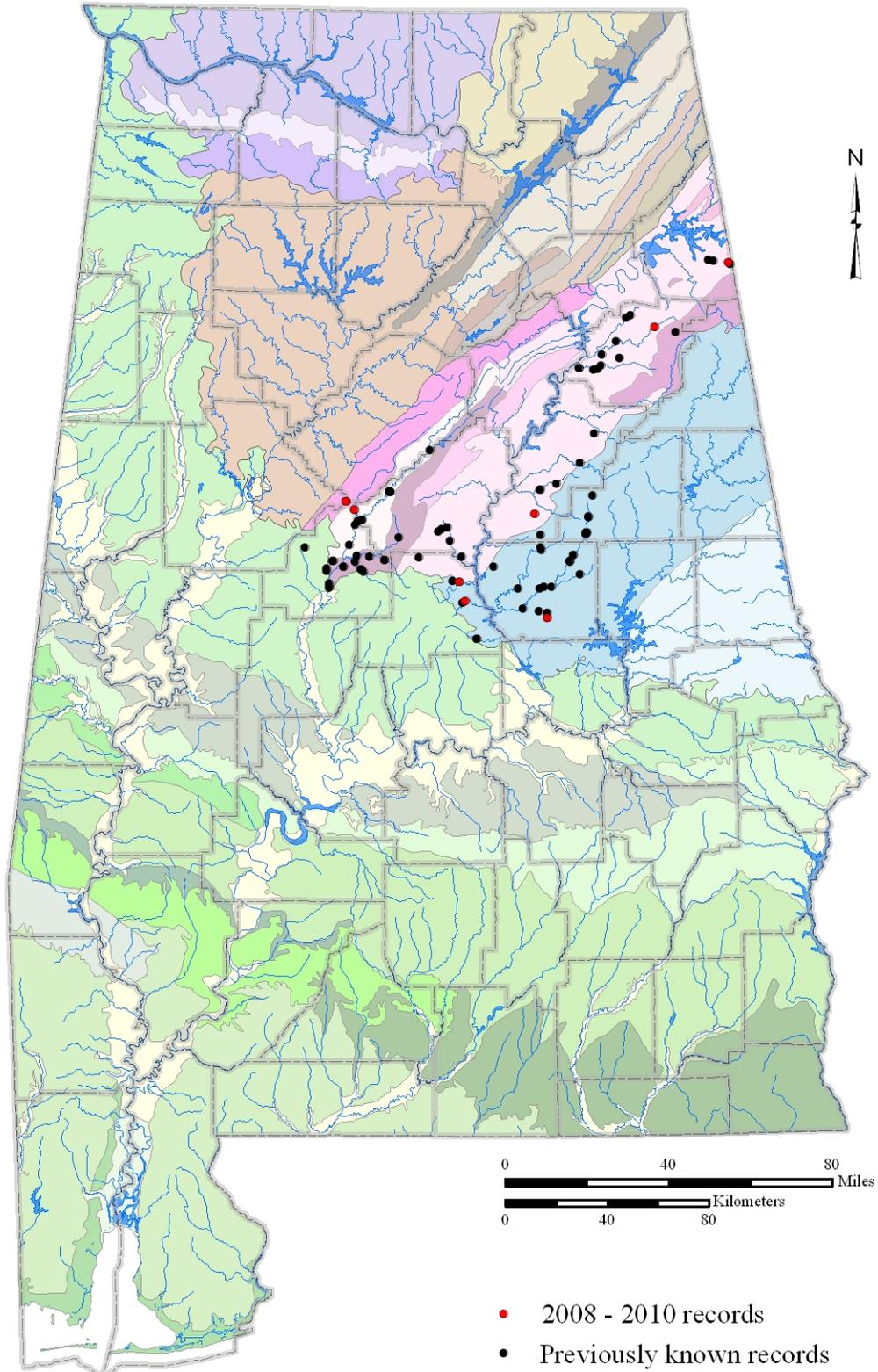
Appalachian Brook Crayfish

Cambarus bartonii cavatus



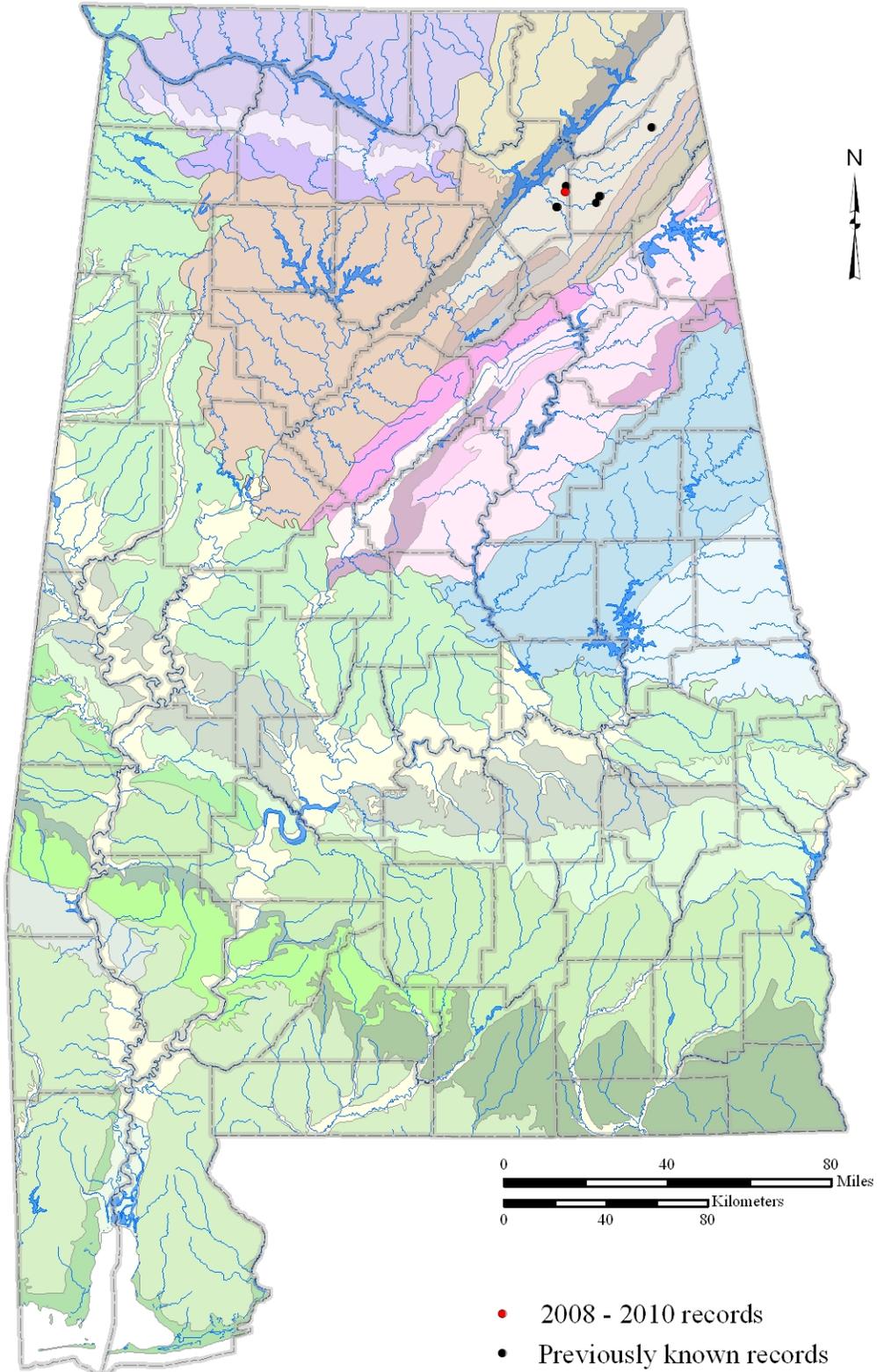
Coosa Crayfish

Cambarus coosae



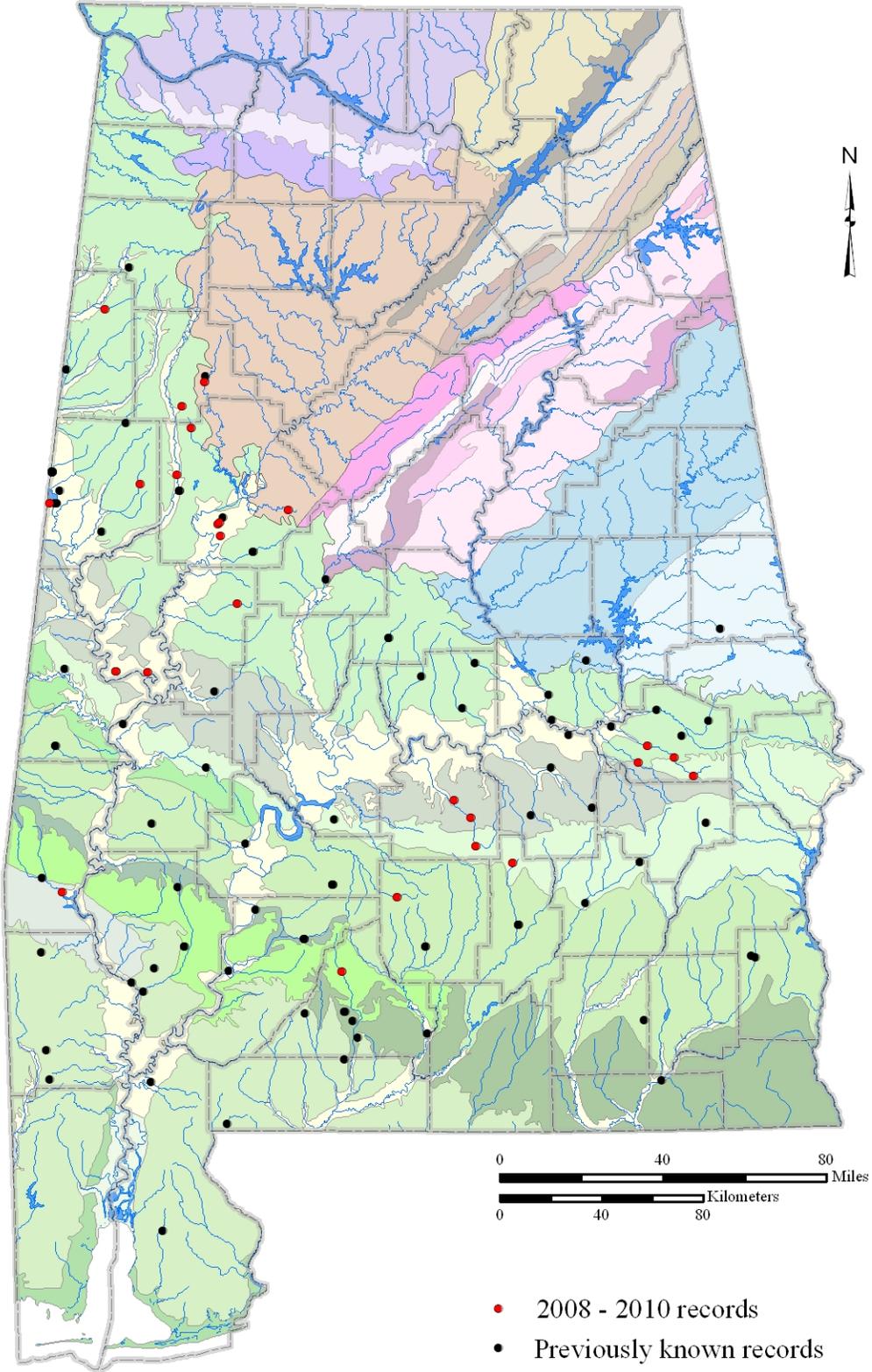
Slenderclaw Crayfish

Cambarus cracens



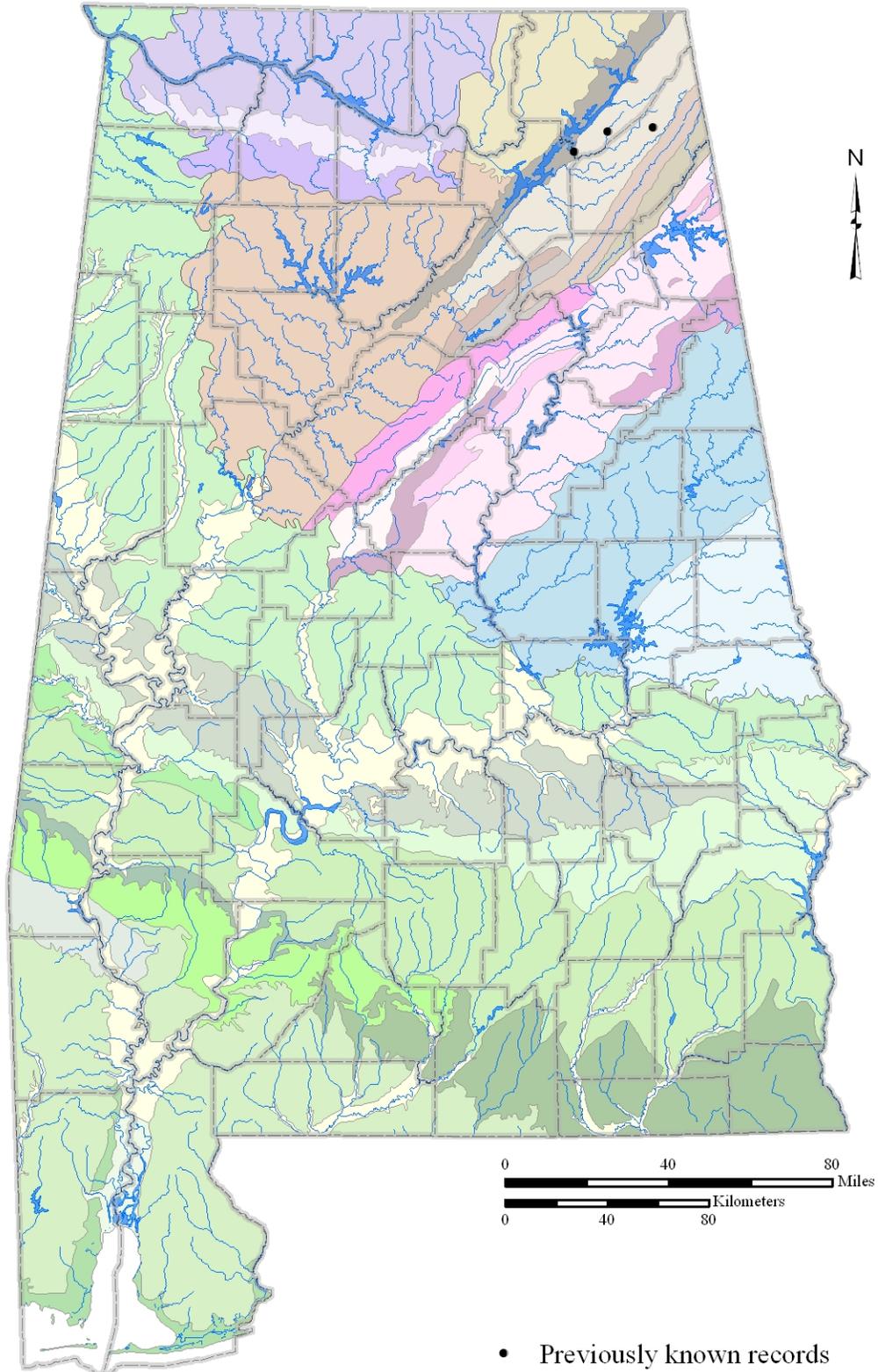
Devil Crayfish

Cambarus diogenes



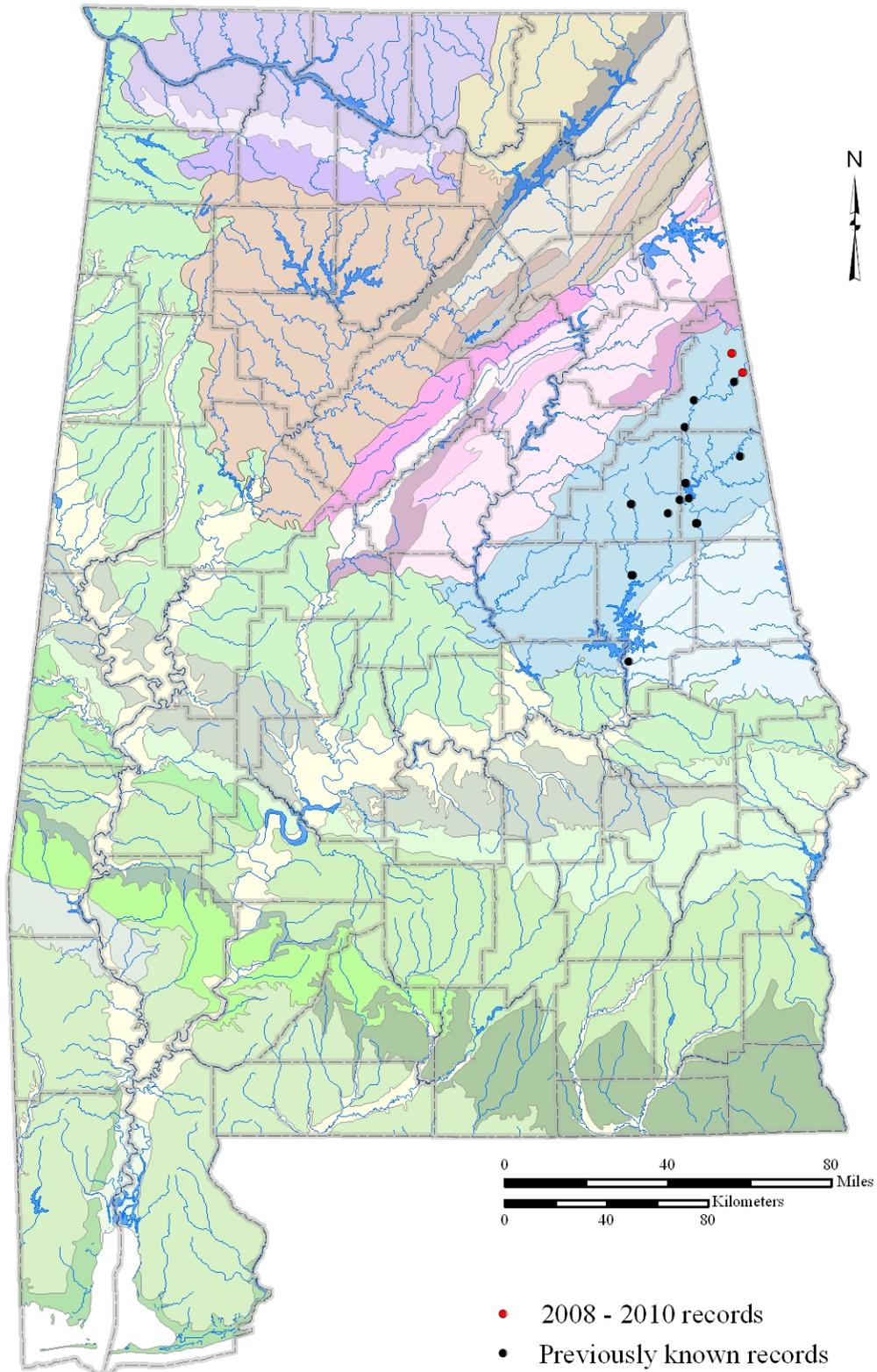
Boxclaw Crayfish

Cambarus distans



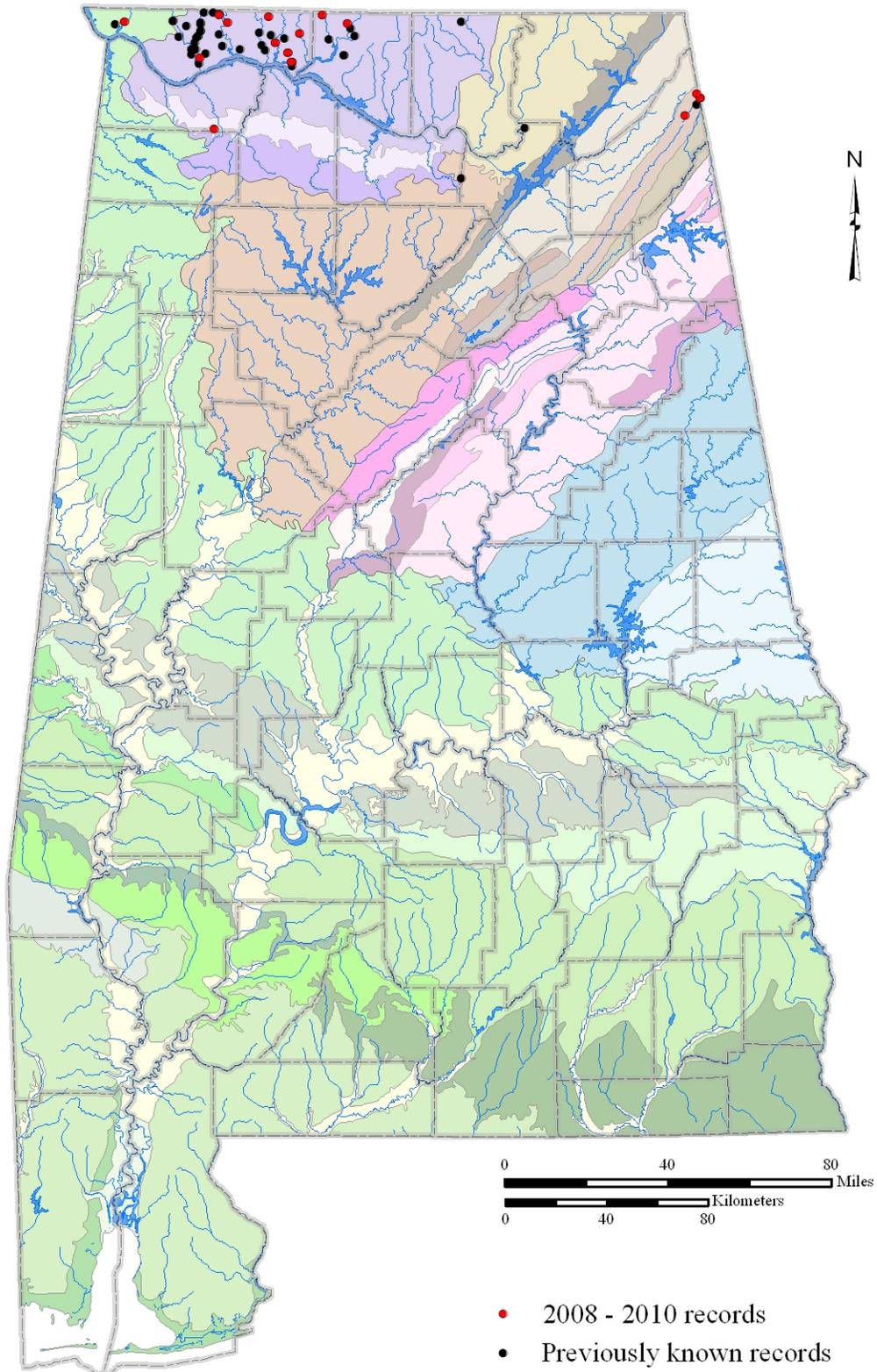
Tallapoosa Crayfish

Cambarus englishi



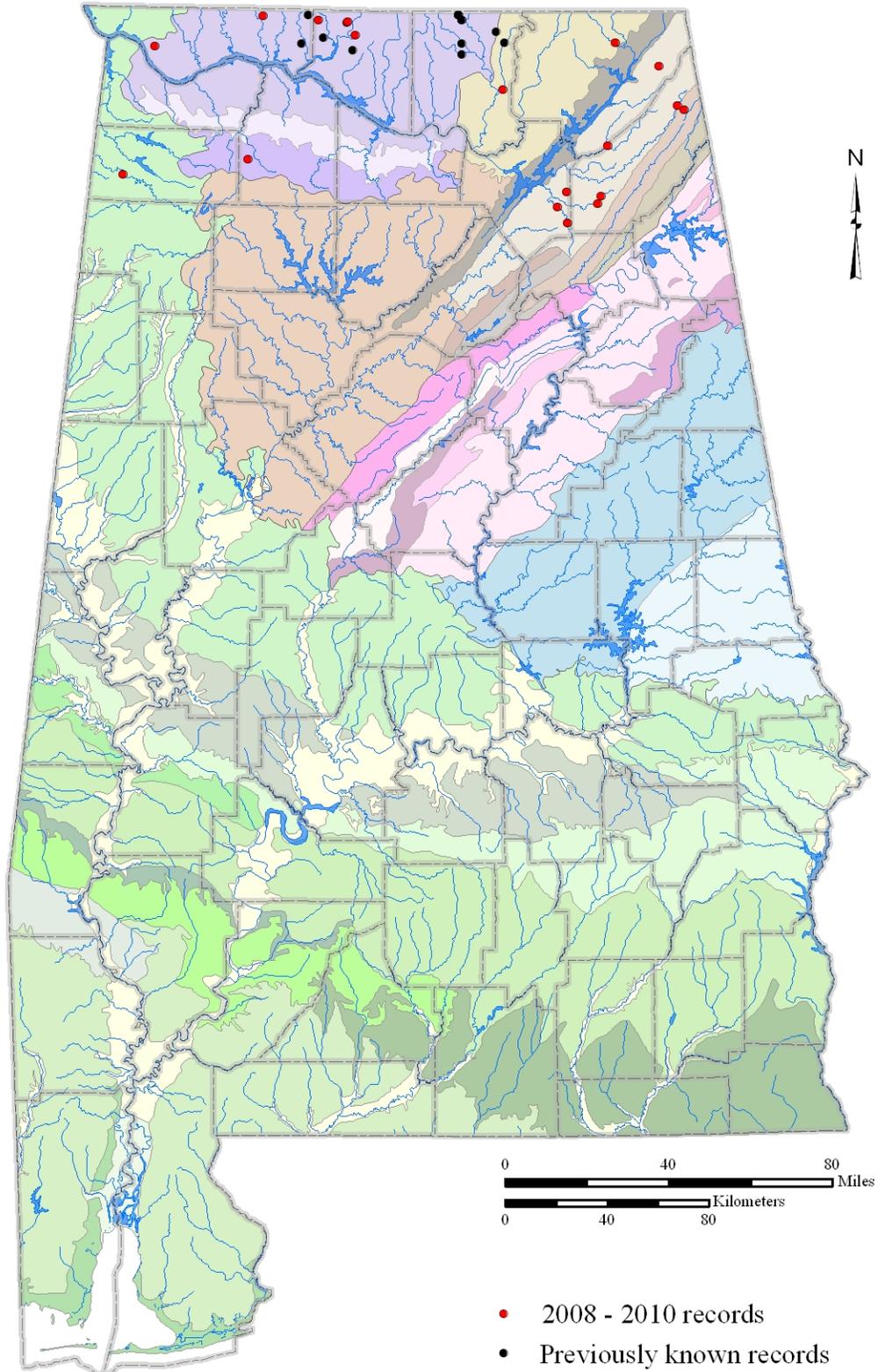
Tanback Crayfish

Cambarus girardianus



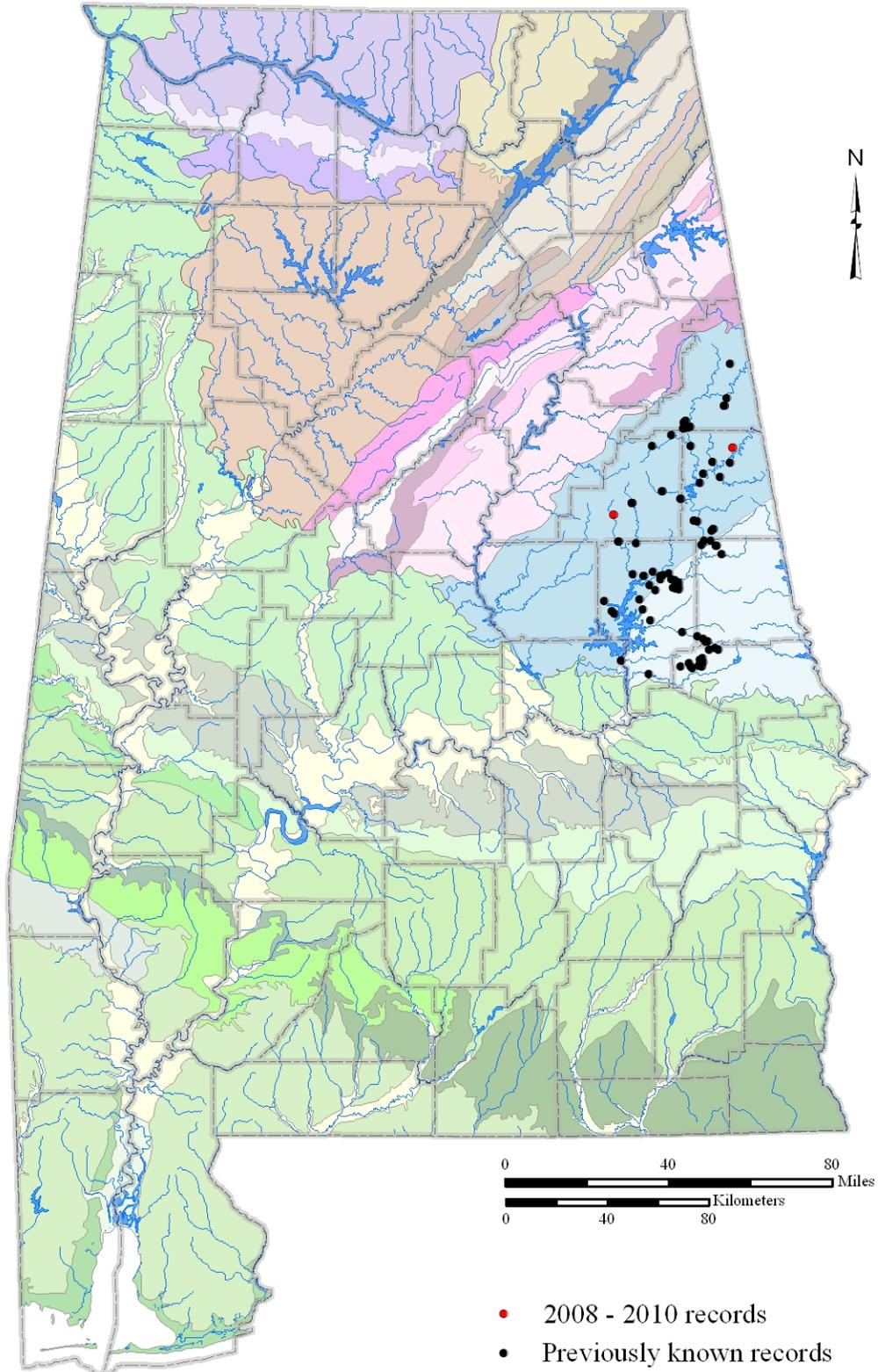
Twospot Crayfish

Cambarus graysoni



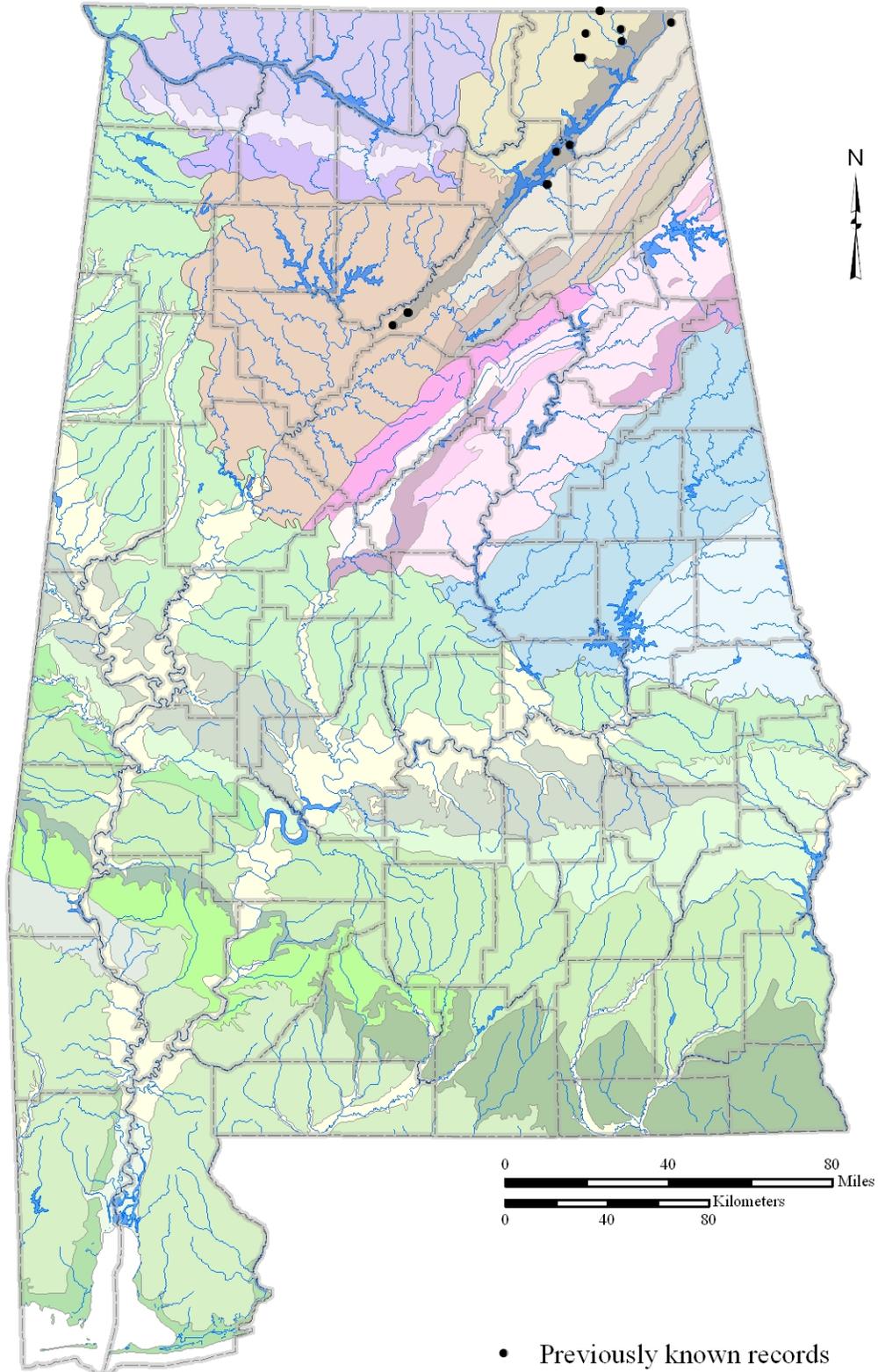
Slackwater Crayfish

Cambarus halli



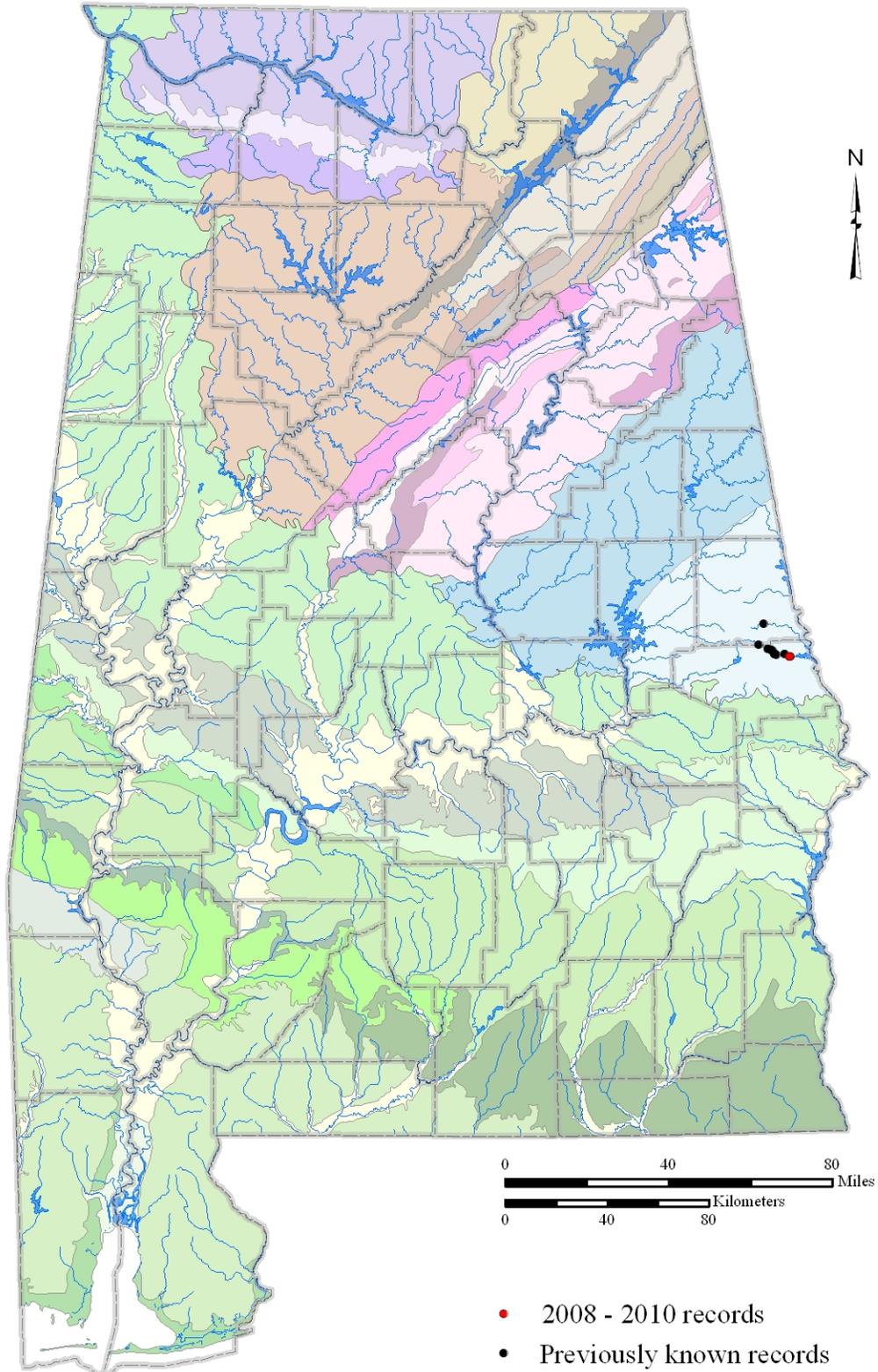
Prickly Cave Crayfish

Cambarus hamulatus



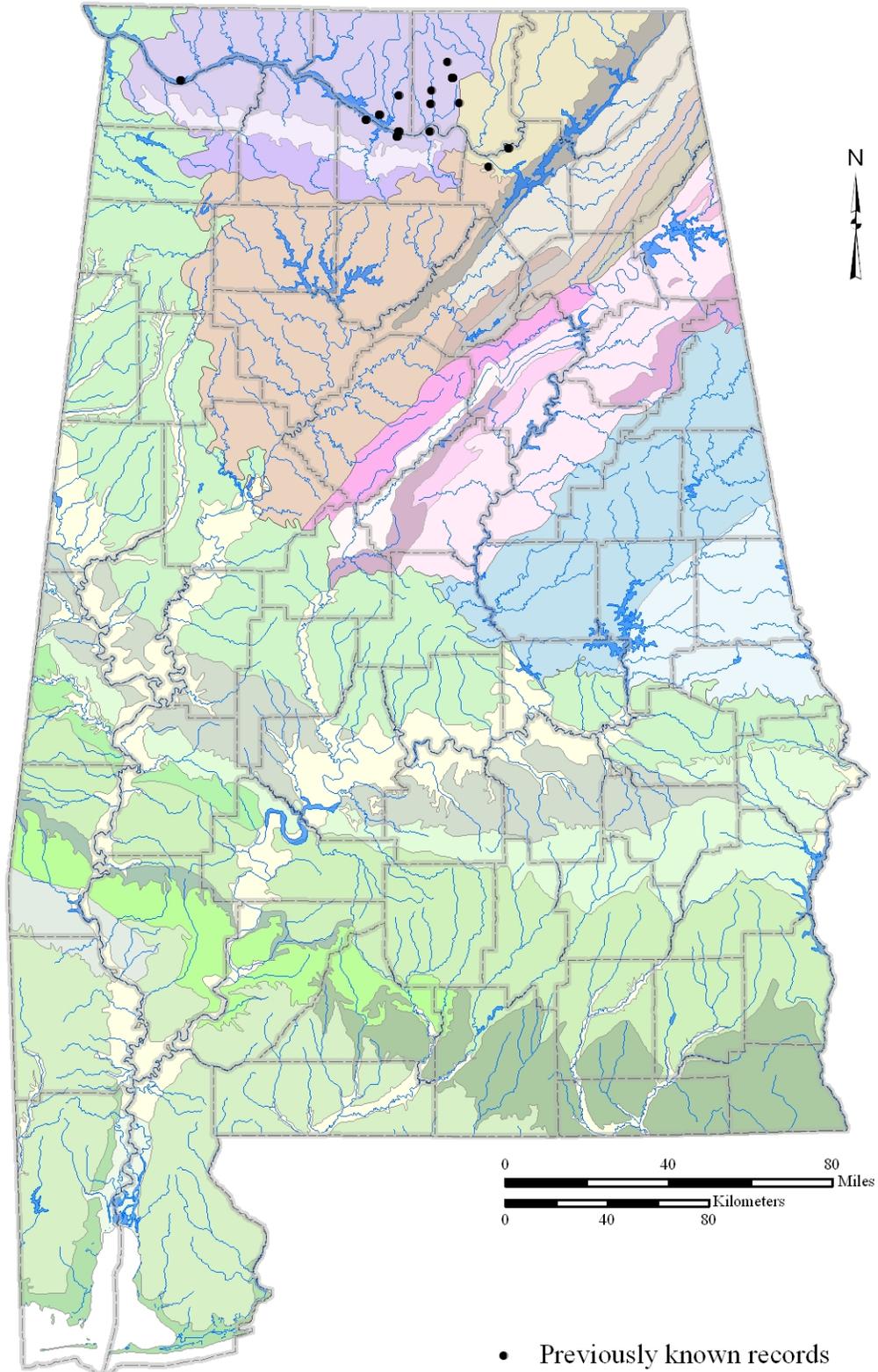
Chattahoochee Crayfish

Cambarus howardi



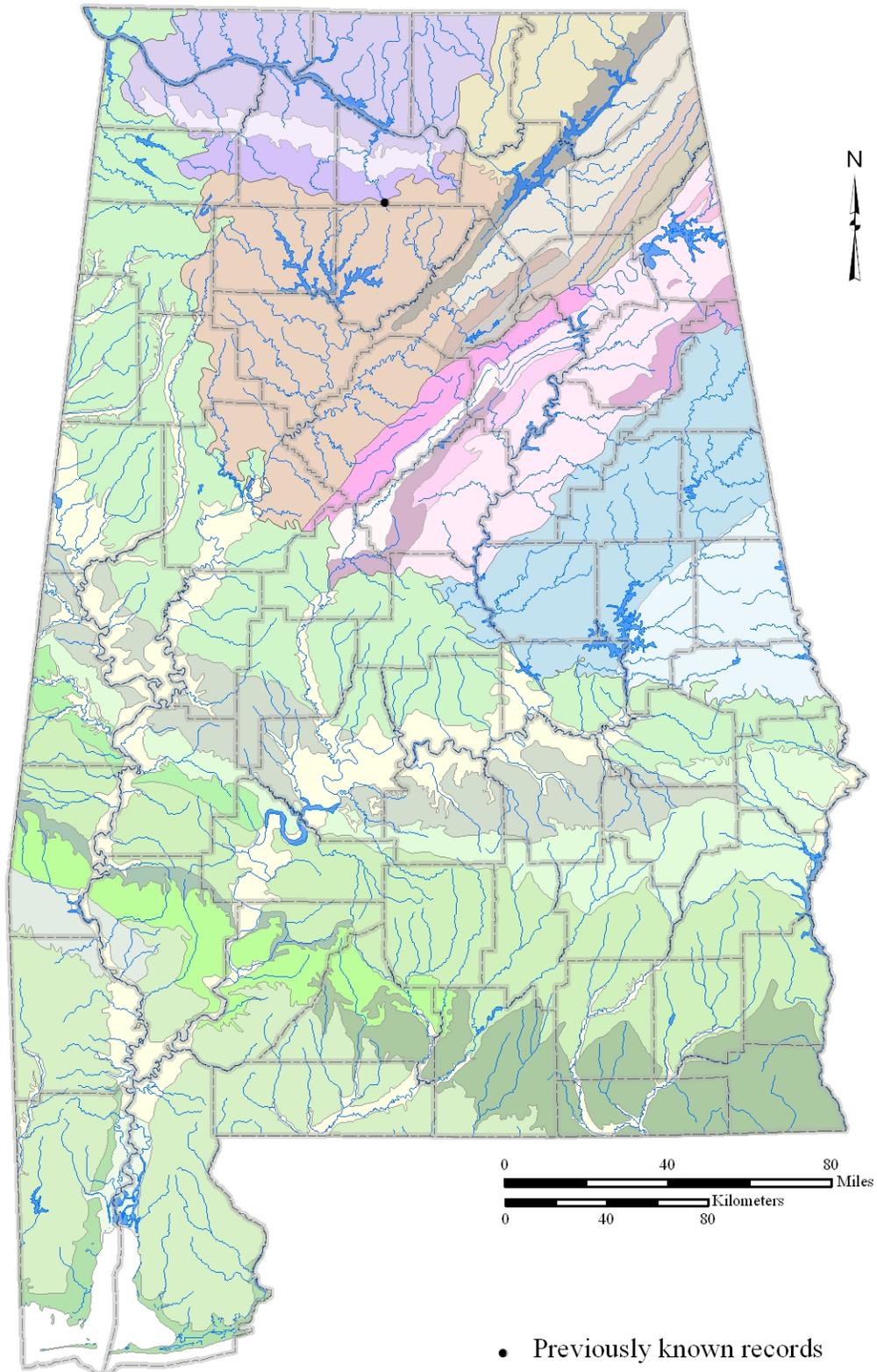
Alabama Cave Crayfish

Cambarus jonesi



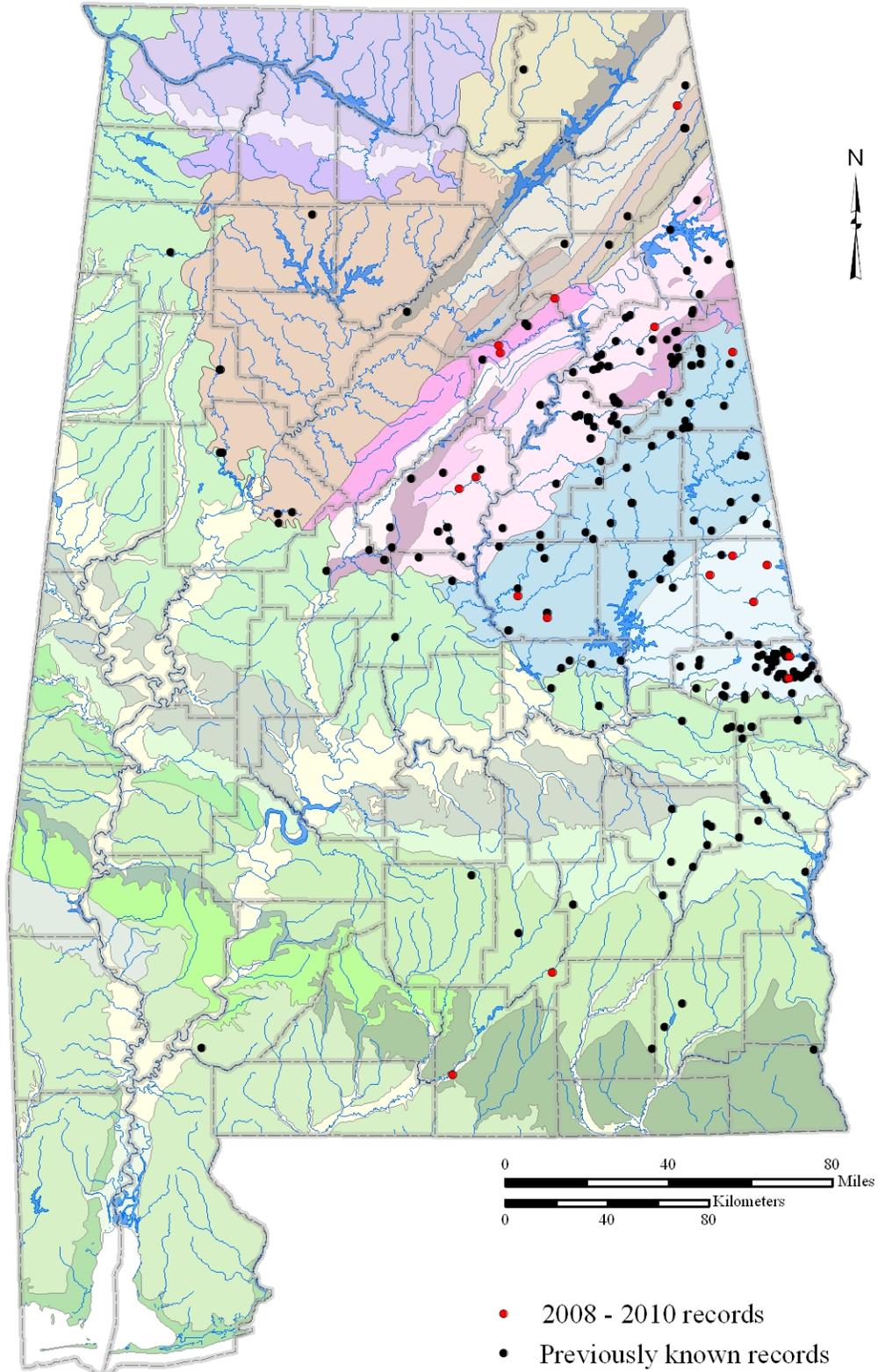
Lacon Exit Cave Crayfish

Cambarus laconensis



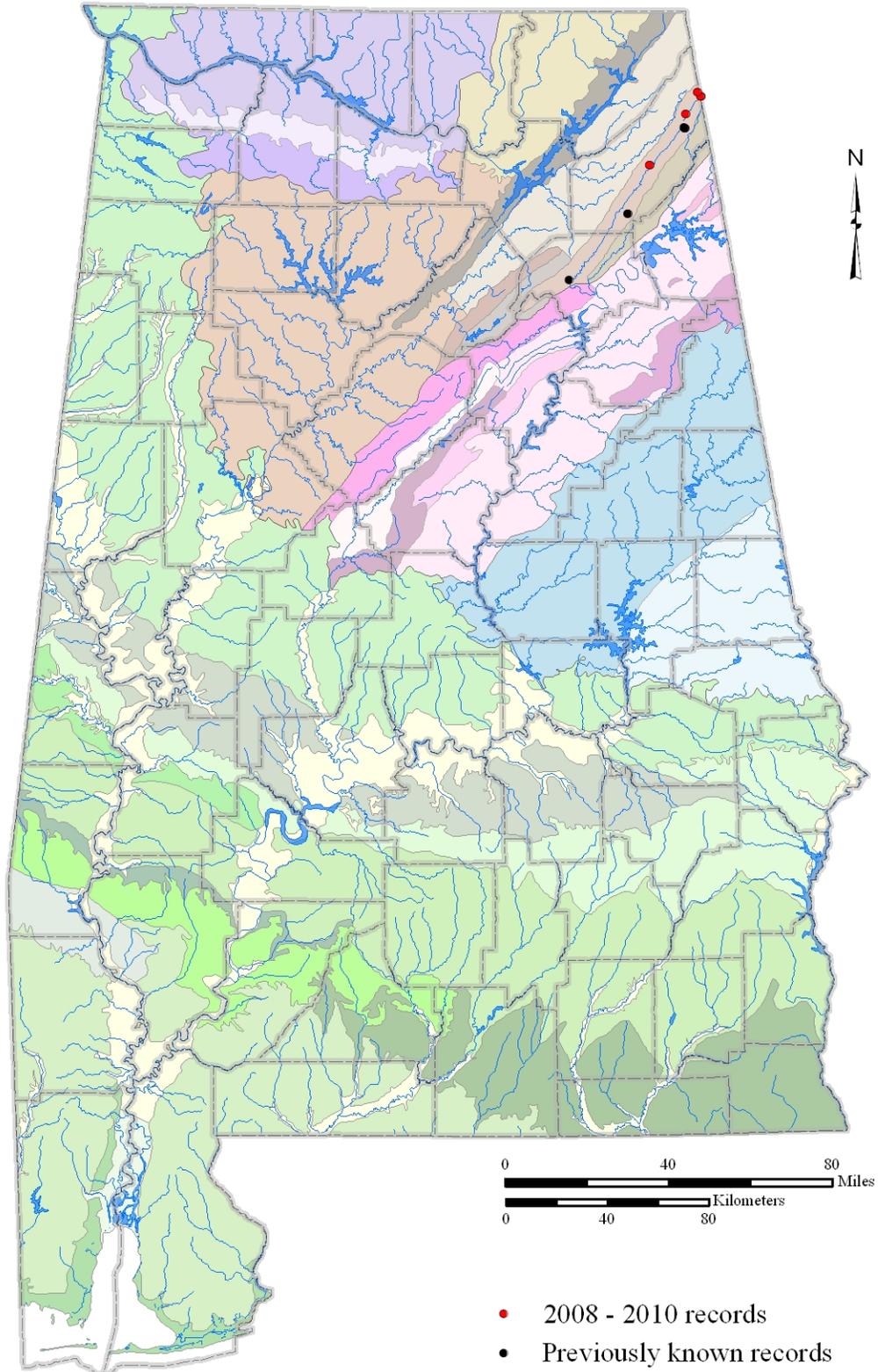
Variable Crayfish

Cambarus latimanus



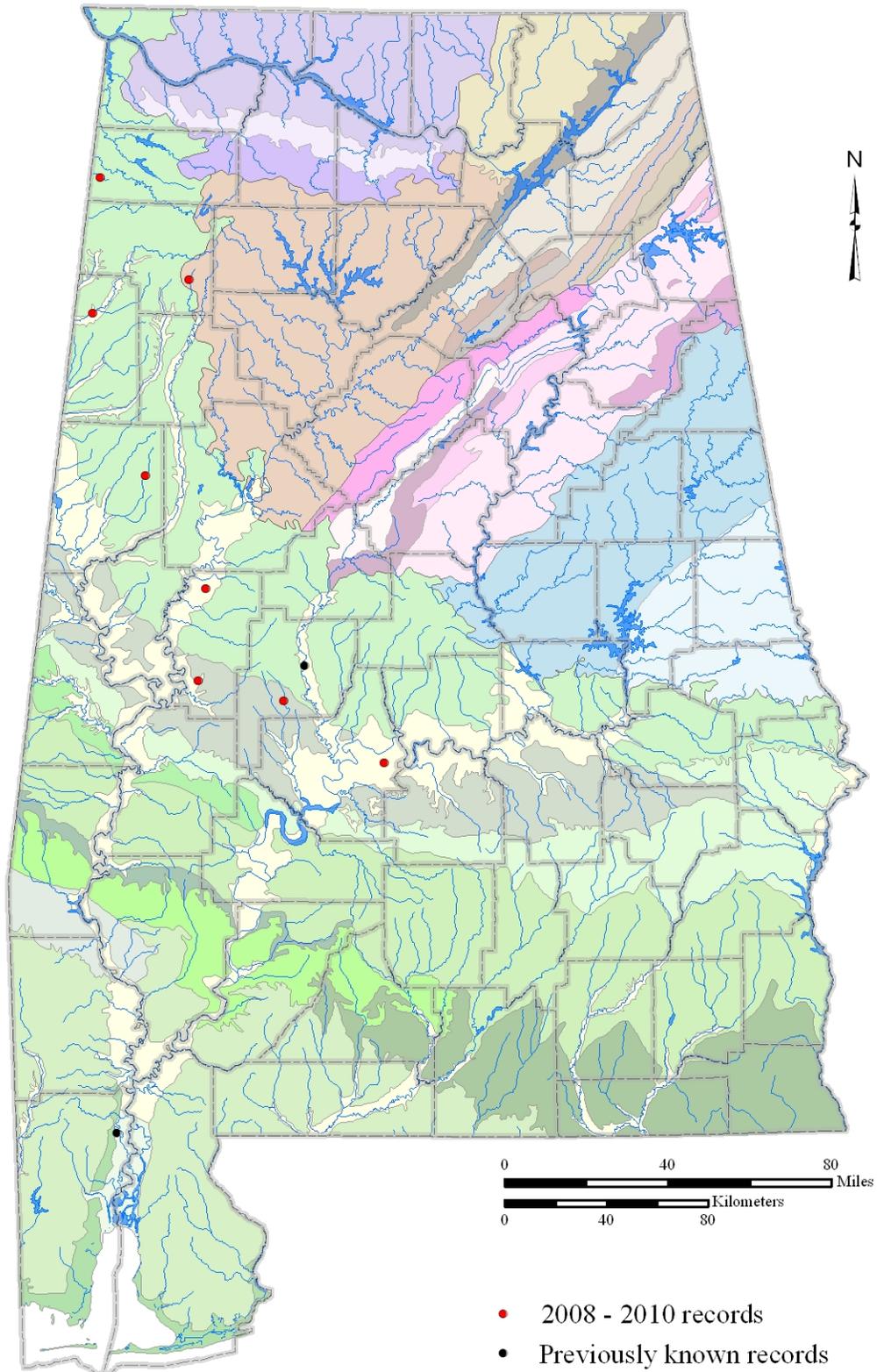
Longnose Crayfish

Cambarus longirostris



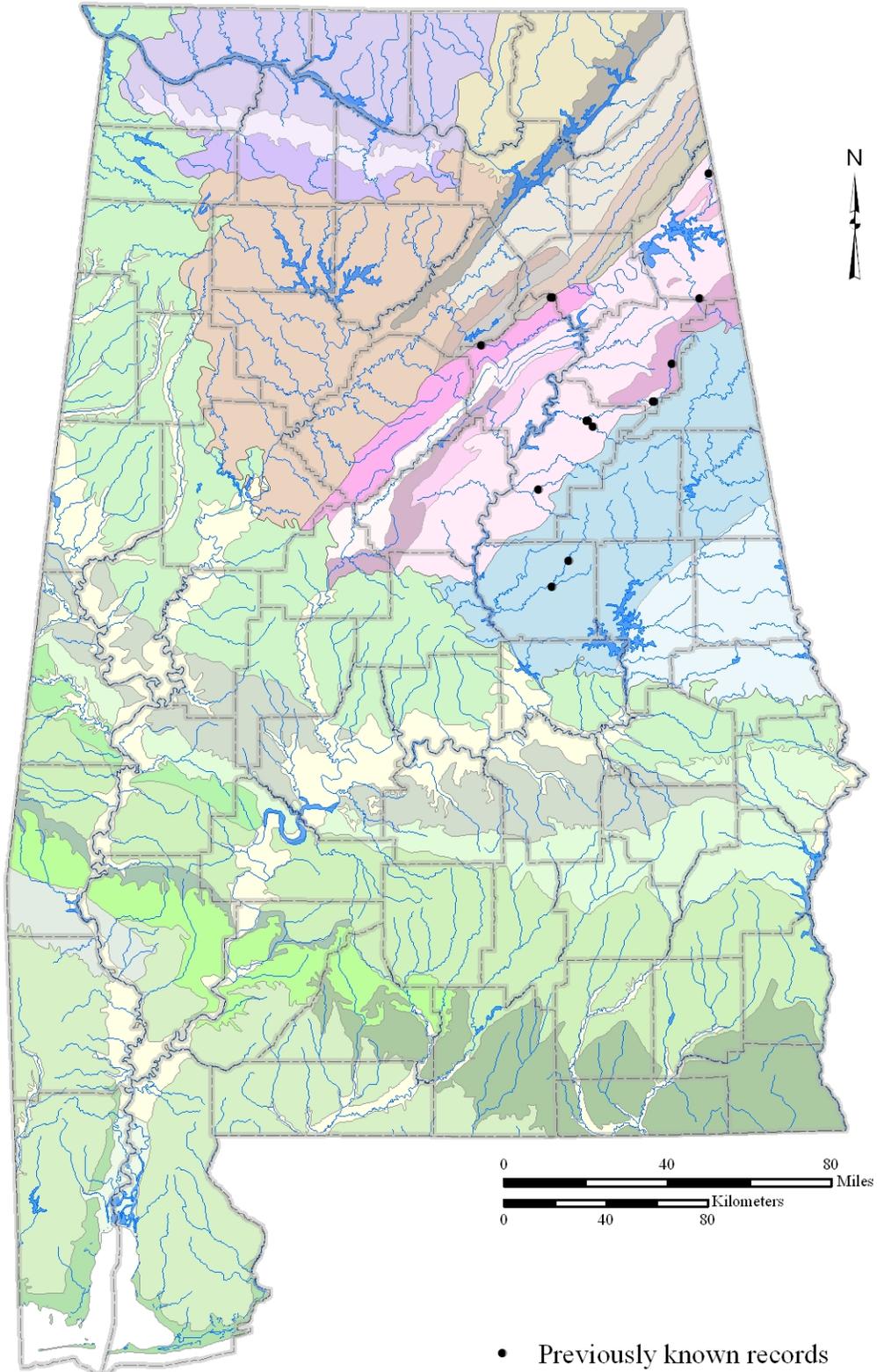
Painted Devil Crayfish

Cambarus ludovicianus



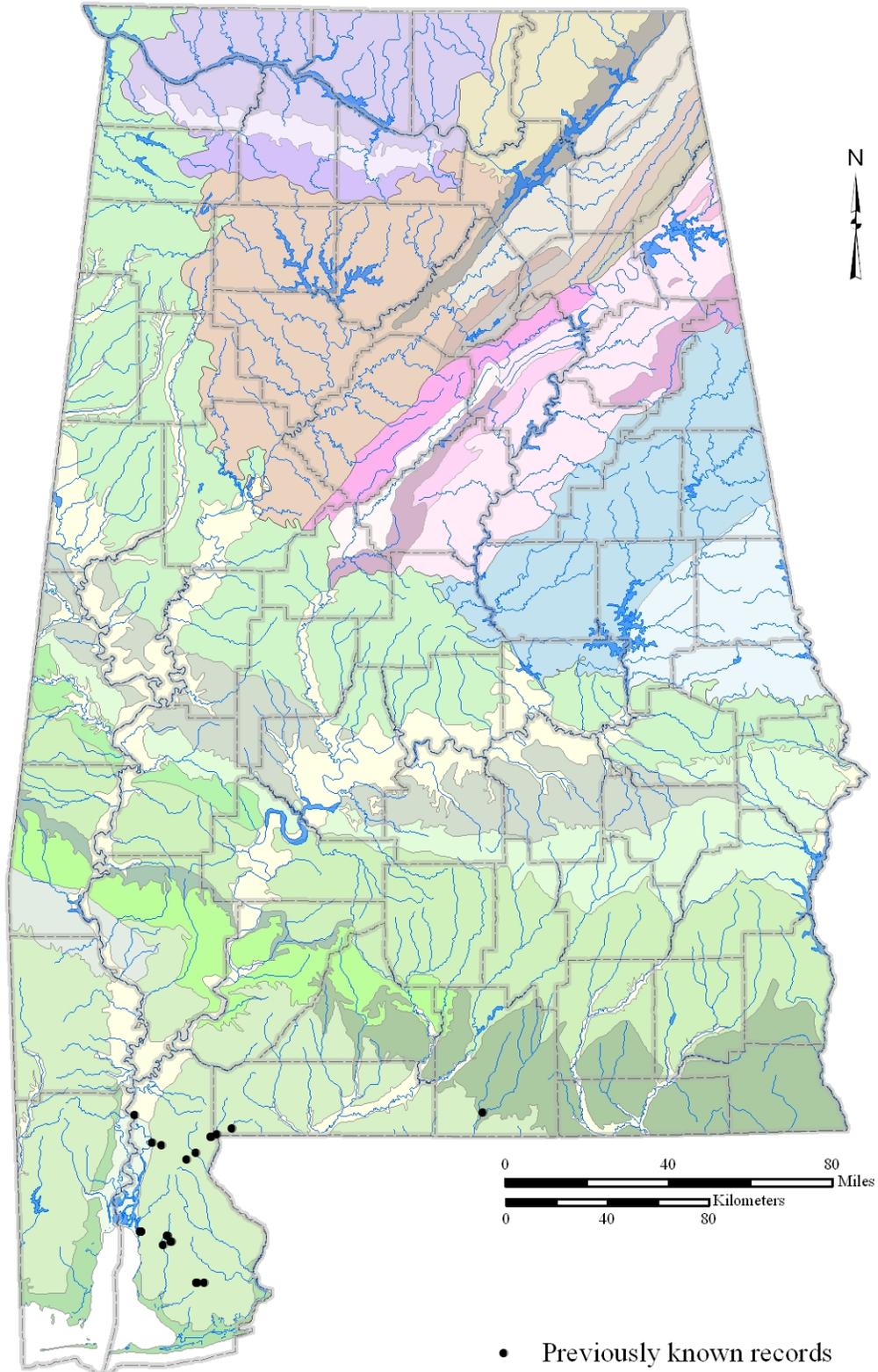
Greensaddle Crayfish

Cambarus manningi



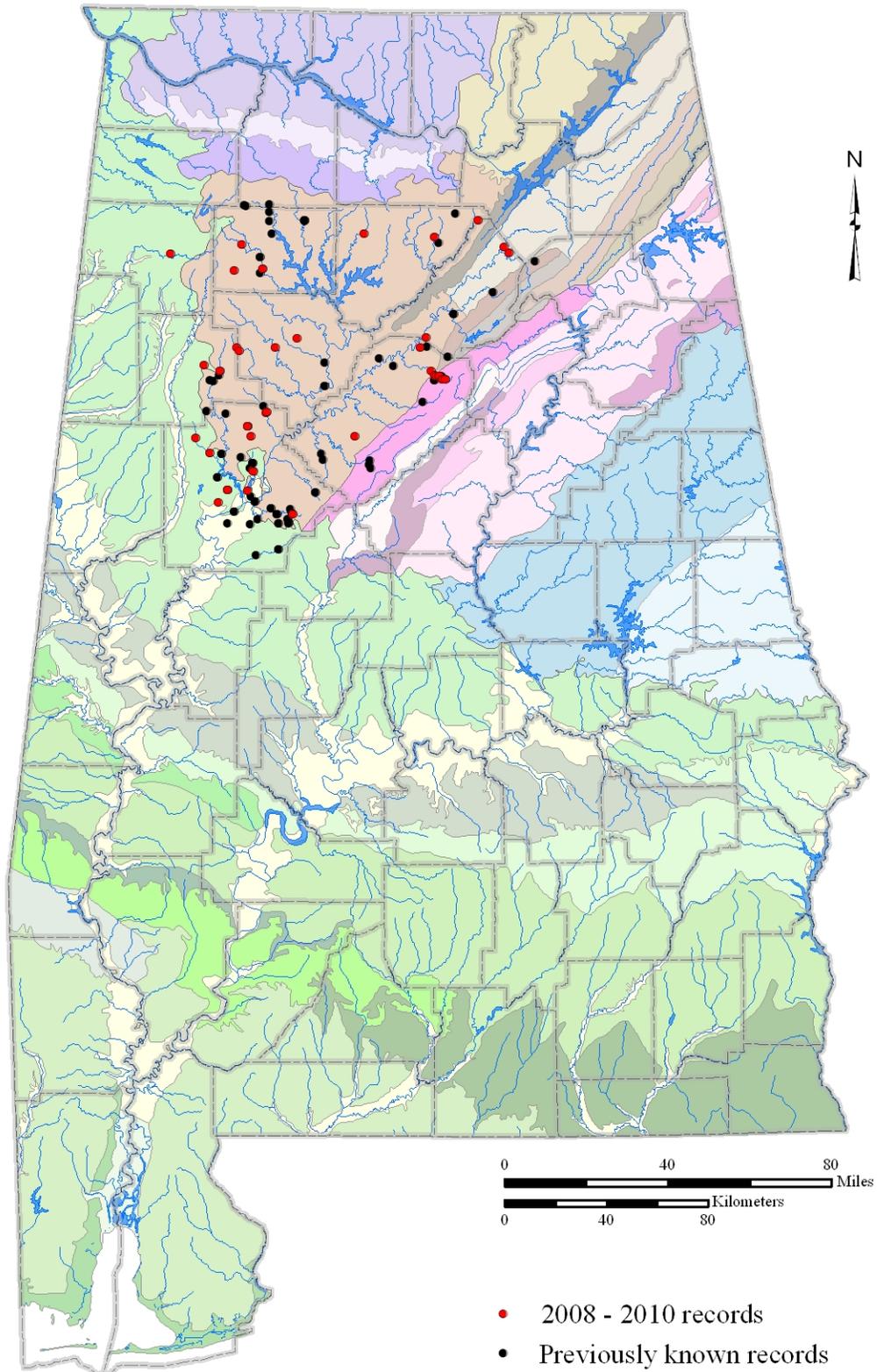
Rusty Grave Digger

Cambarus miltus



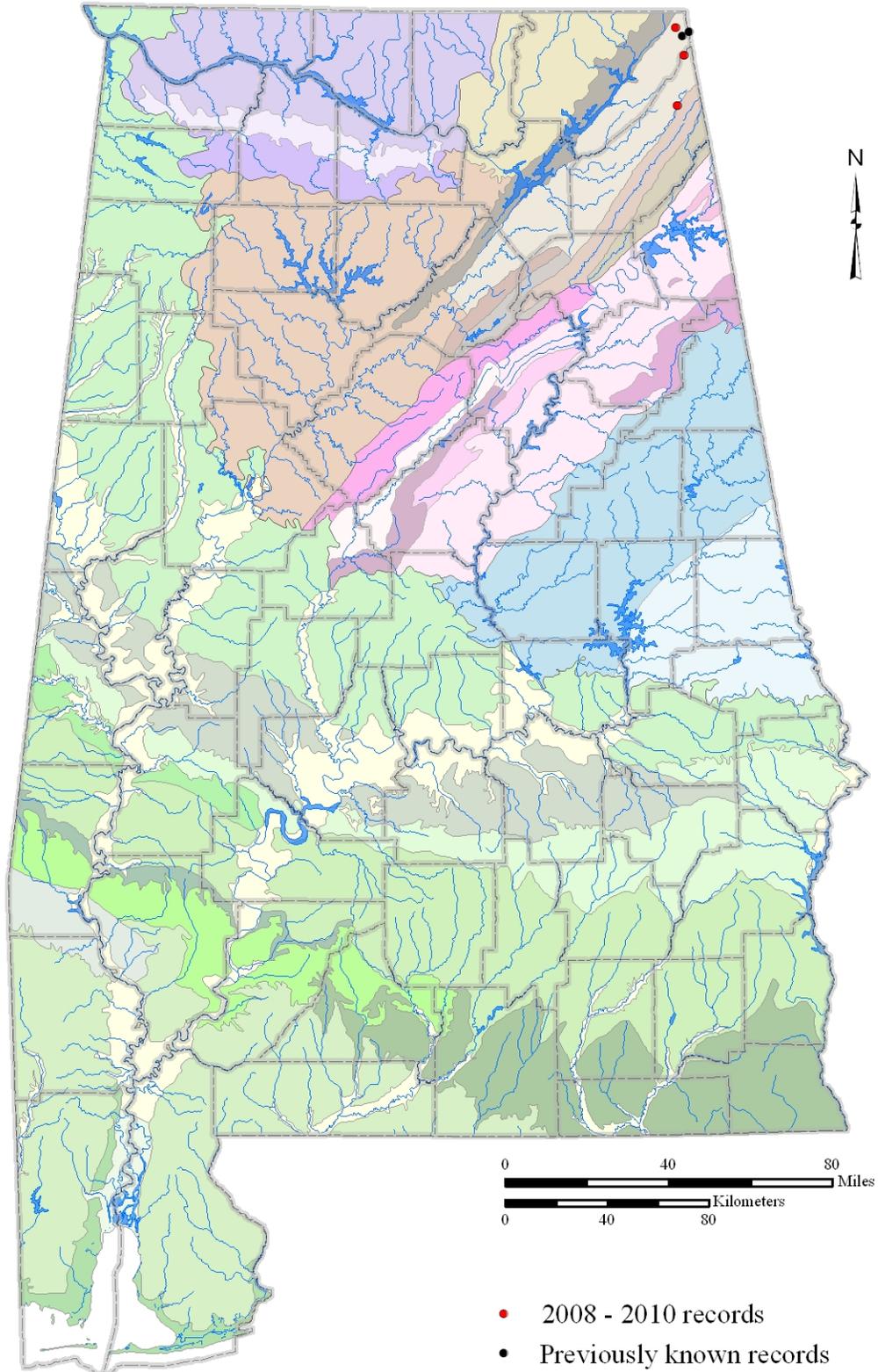
Sloped Crayfish

Cambarus obstipus



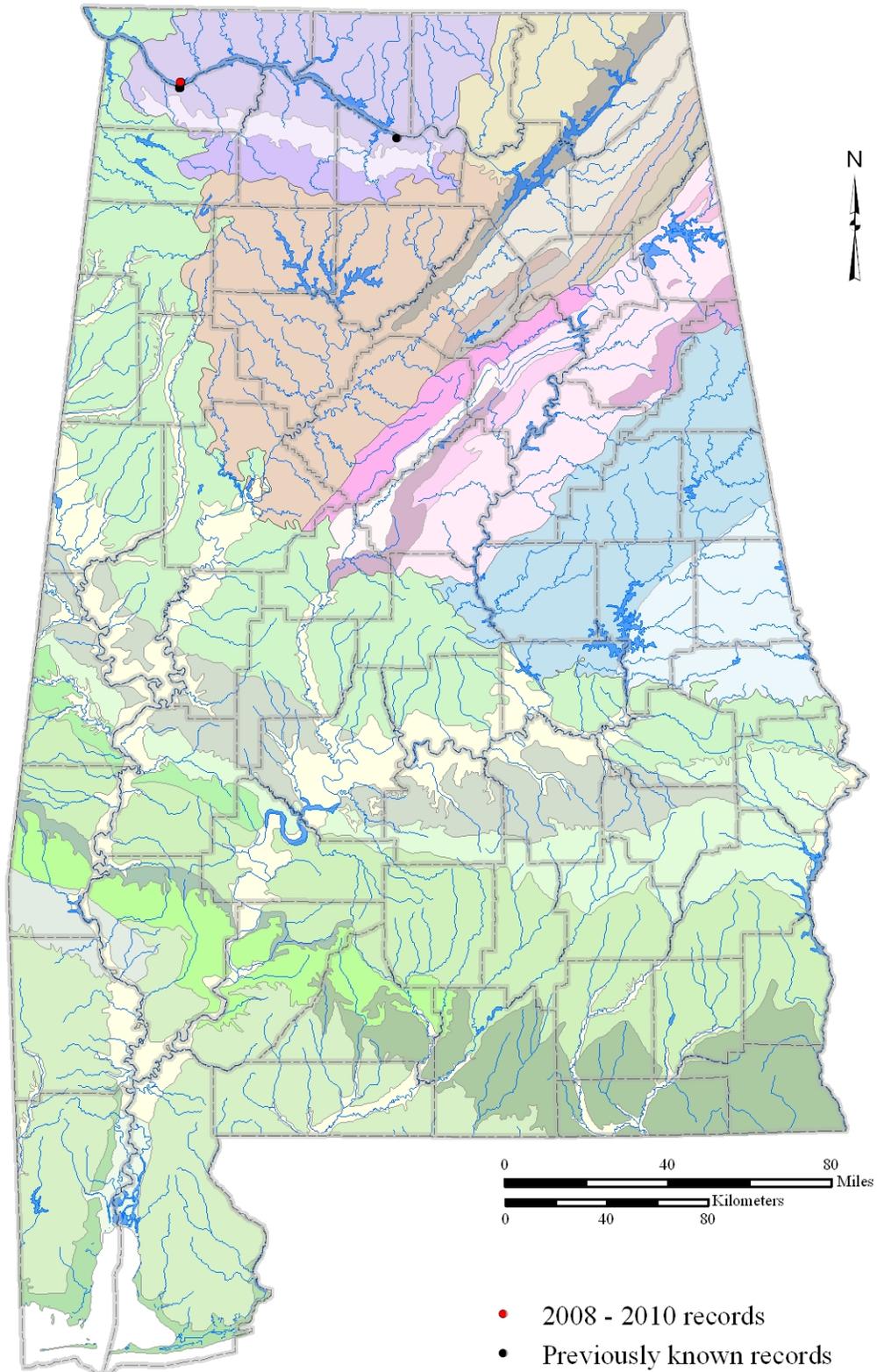
Mountain Midget Crayfish

Cambarus parvoculus



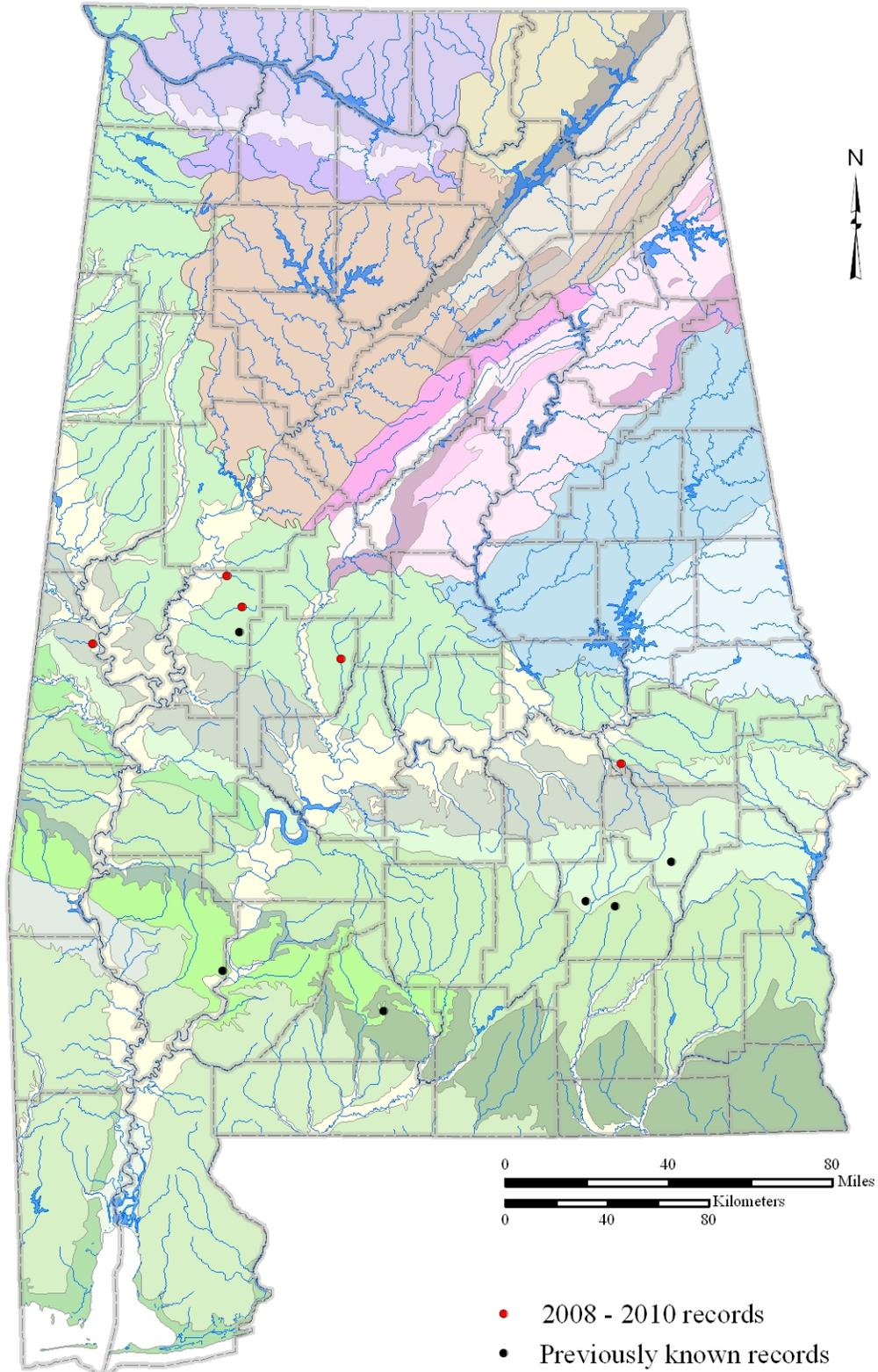
Phantom Cave Crayfish

Cambarus pecki



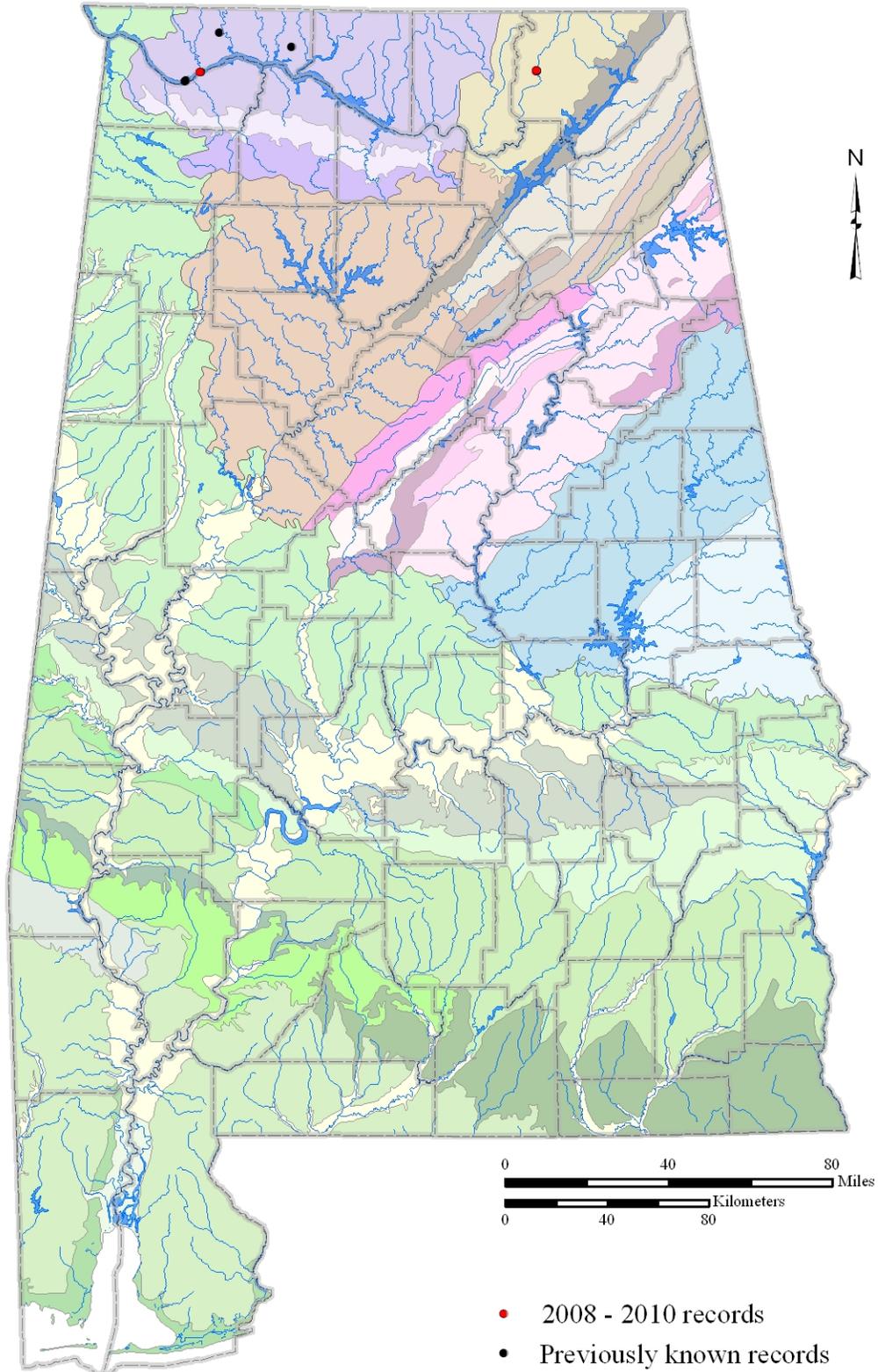
Paintedhand Mudbug

Cambarus polychromatus



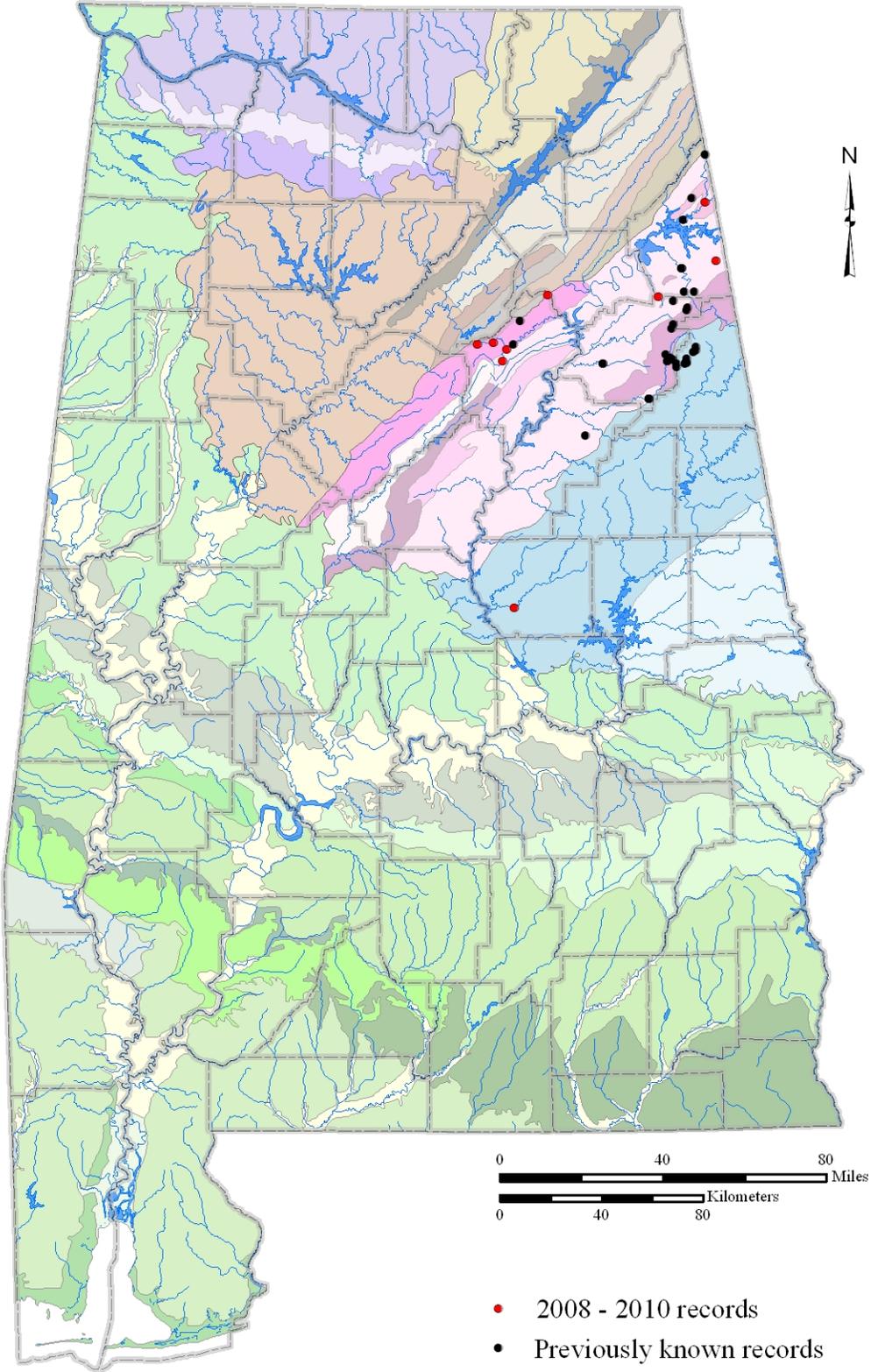
Depression Crayfish

Cambarus rusticiformis



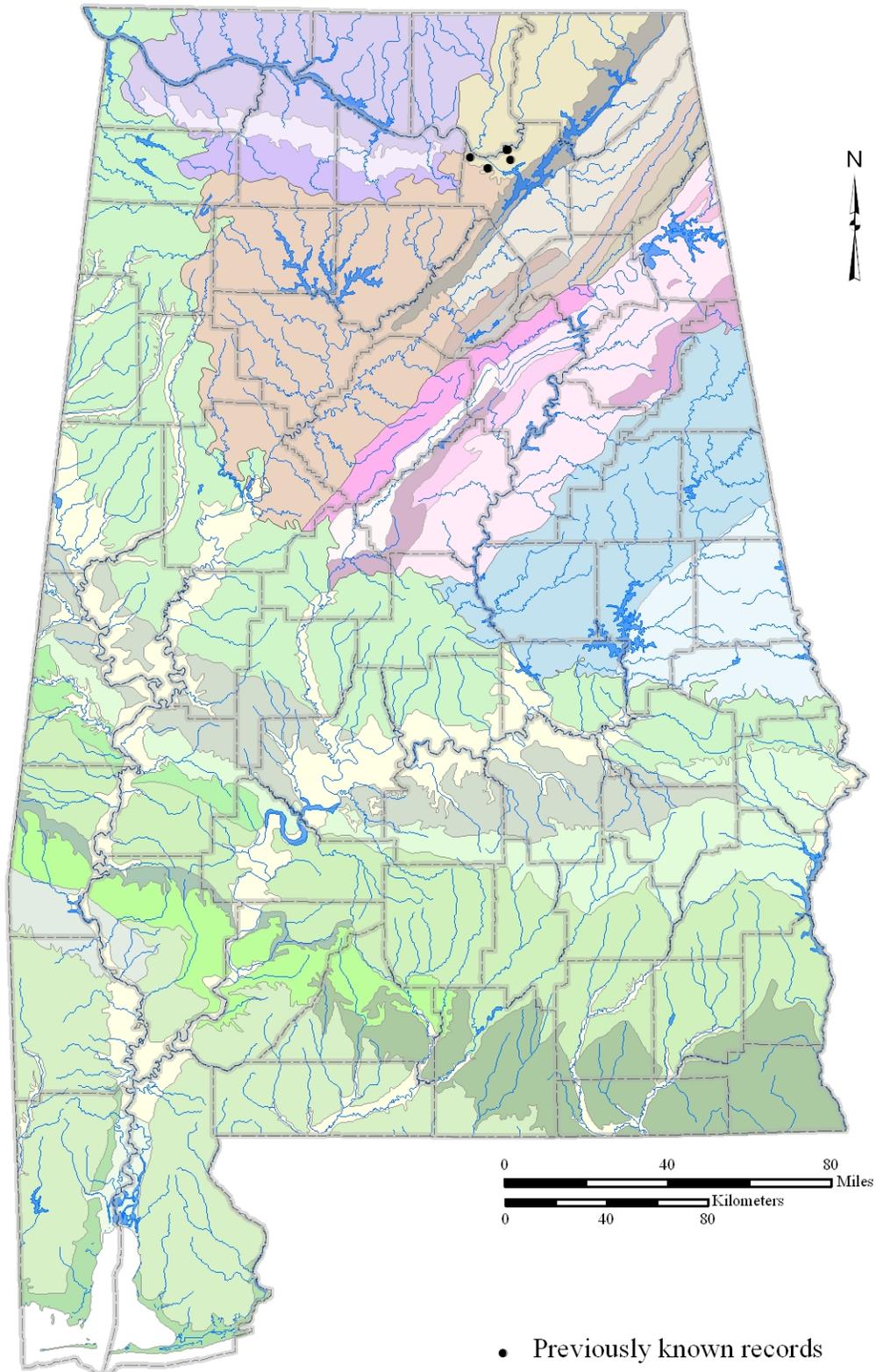
Chattooga River Crayfish

Cambarus scotti



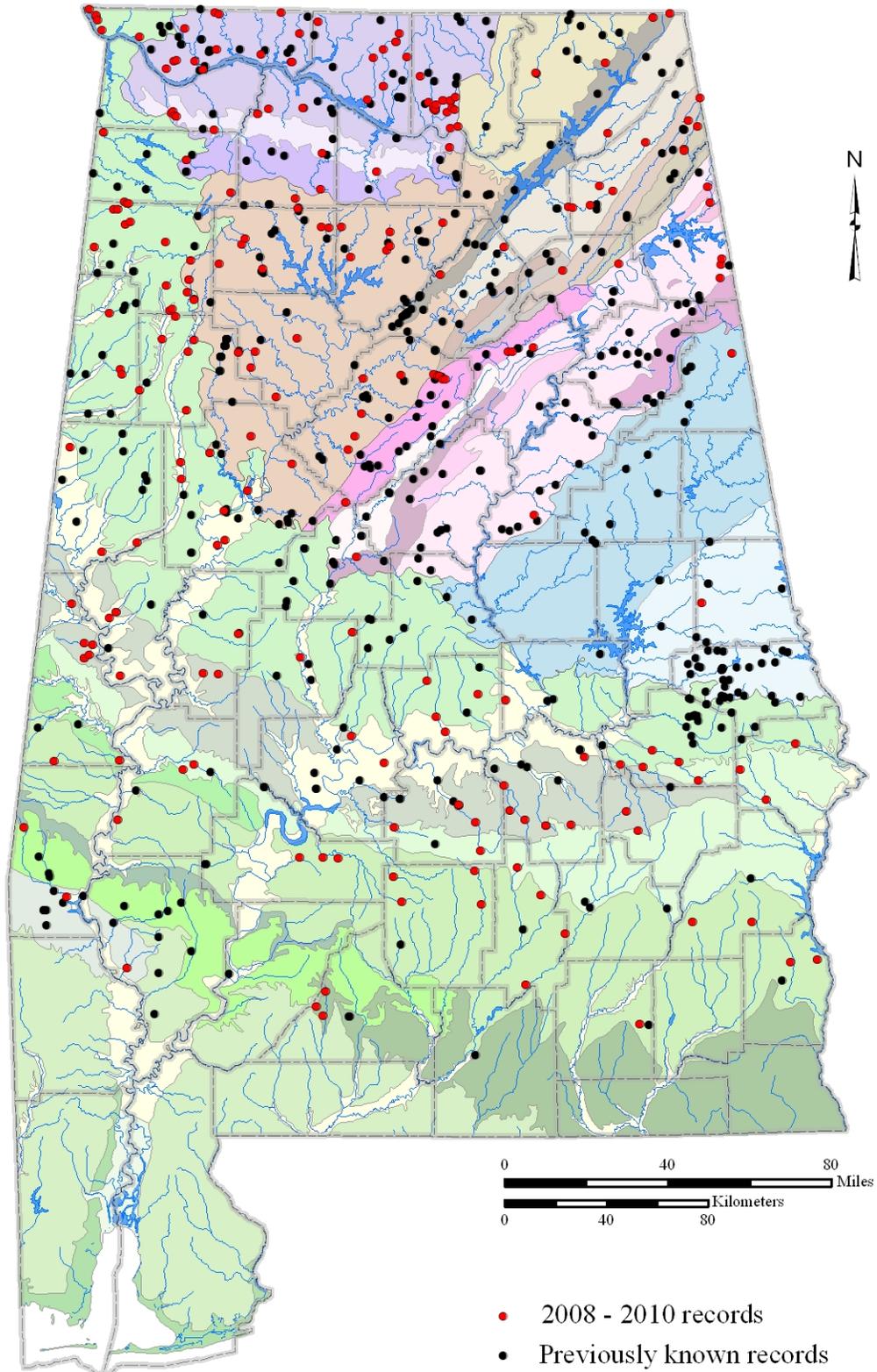
Sweet Home Alabama Cave Crayfish

Cambarus speleocoopi



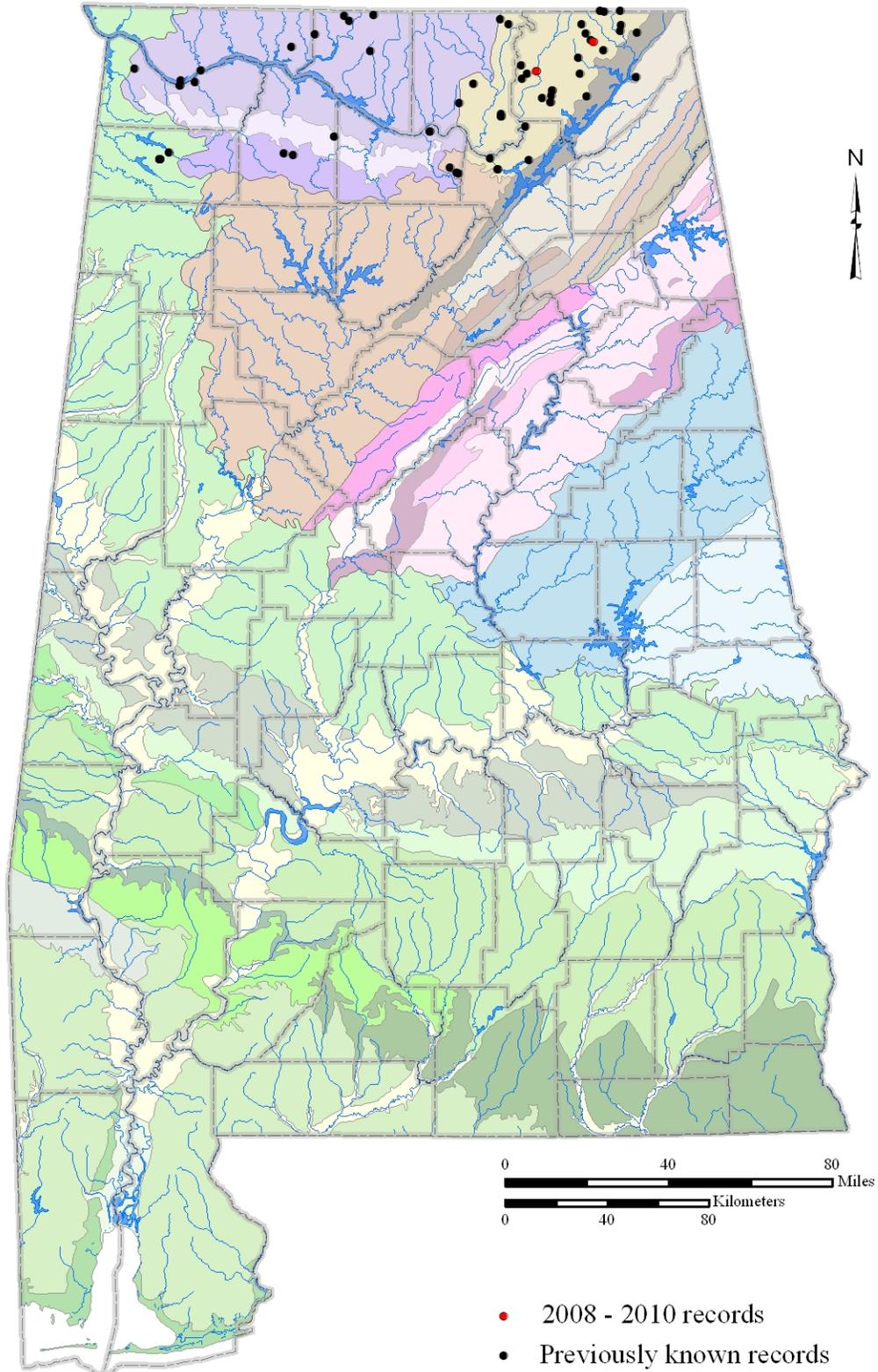
Ambiguous Crayfish

Cambarus striatus



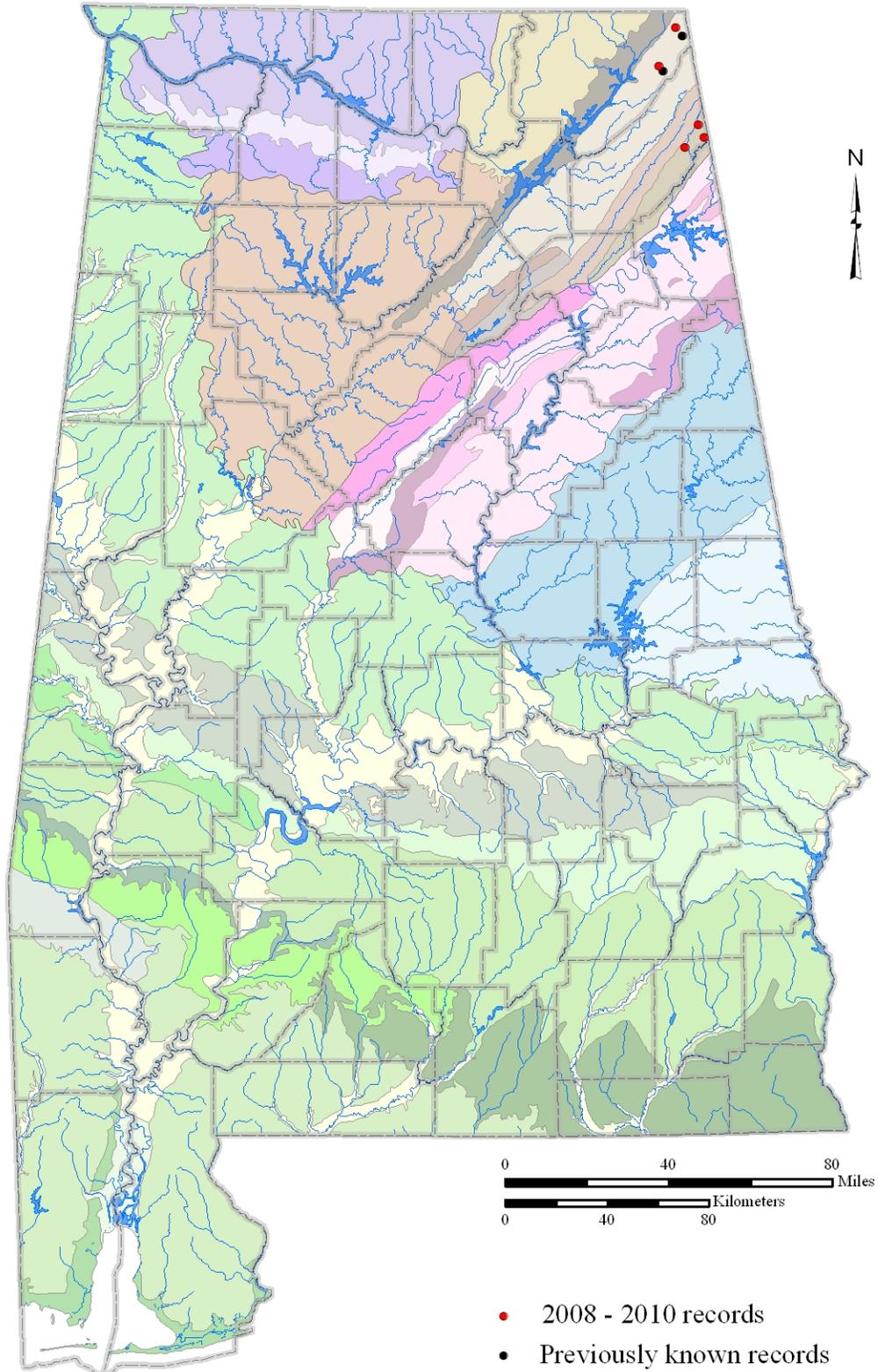
Cavespring Crayfish

Cambarus tenebrosus



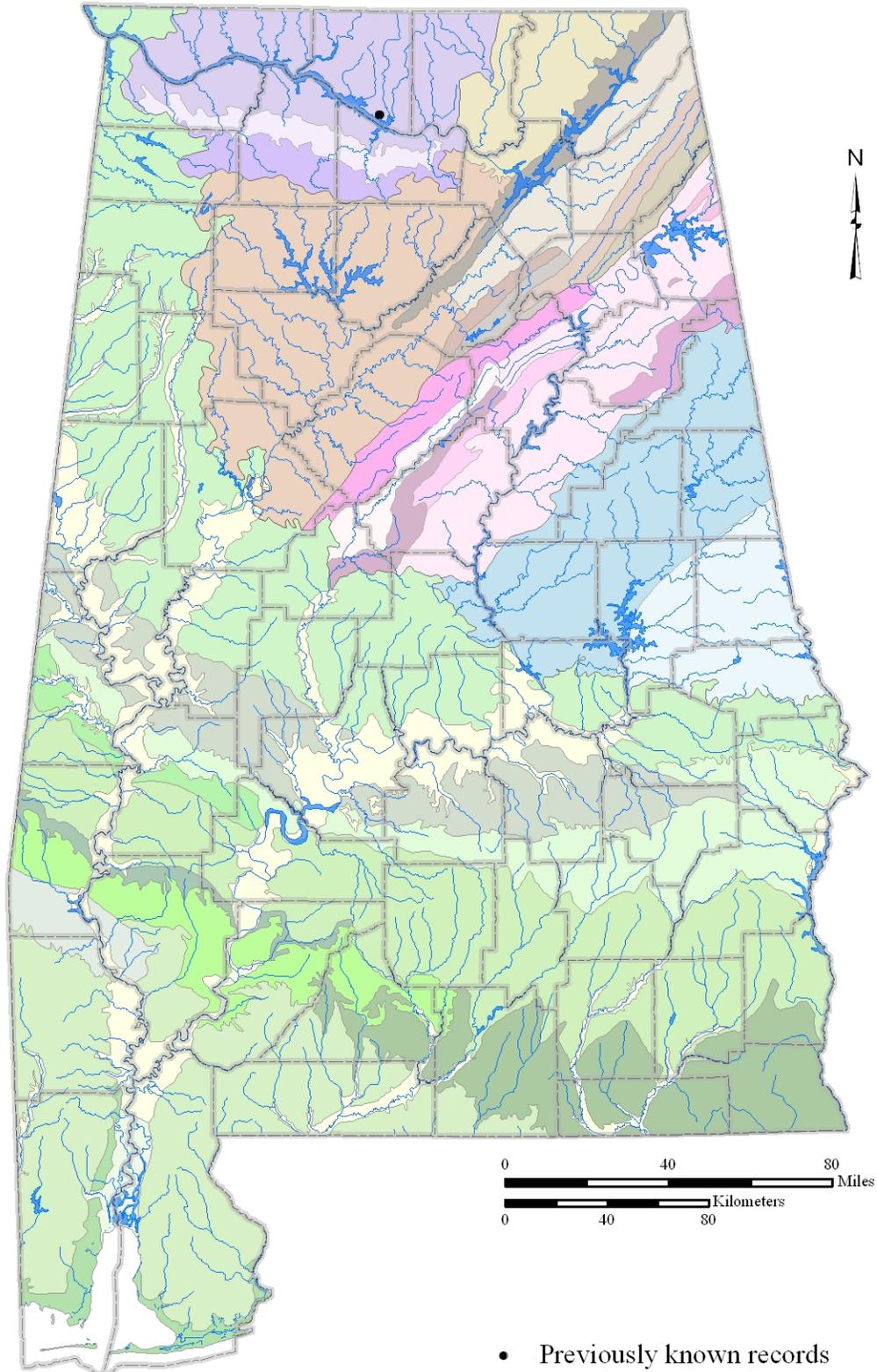
Blackbarred Crayfish

Cambarus unestami



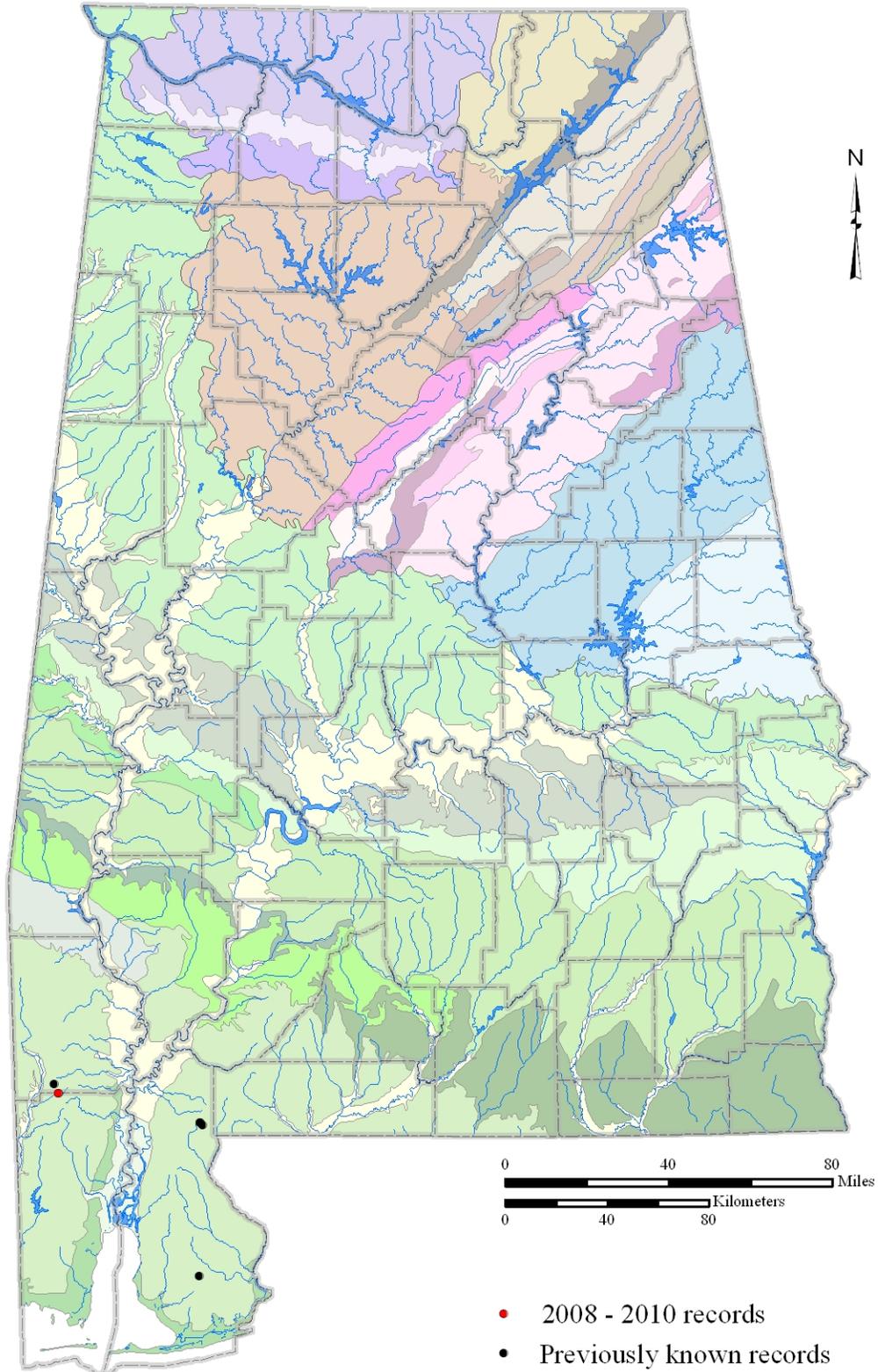
White Spring Cave Crayfish

Cambarus veitchorum



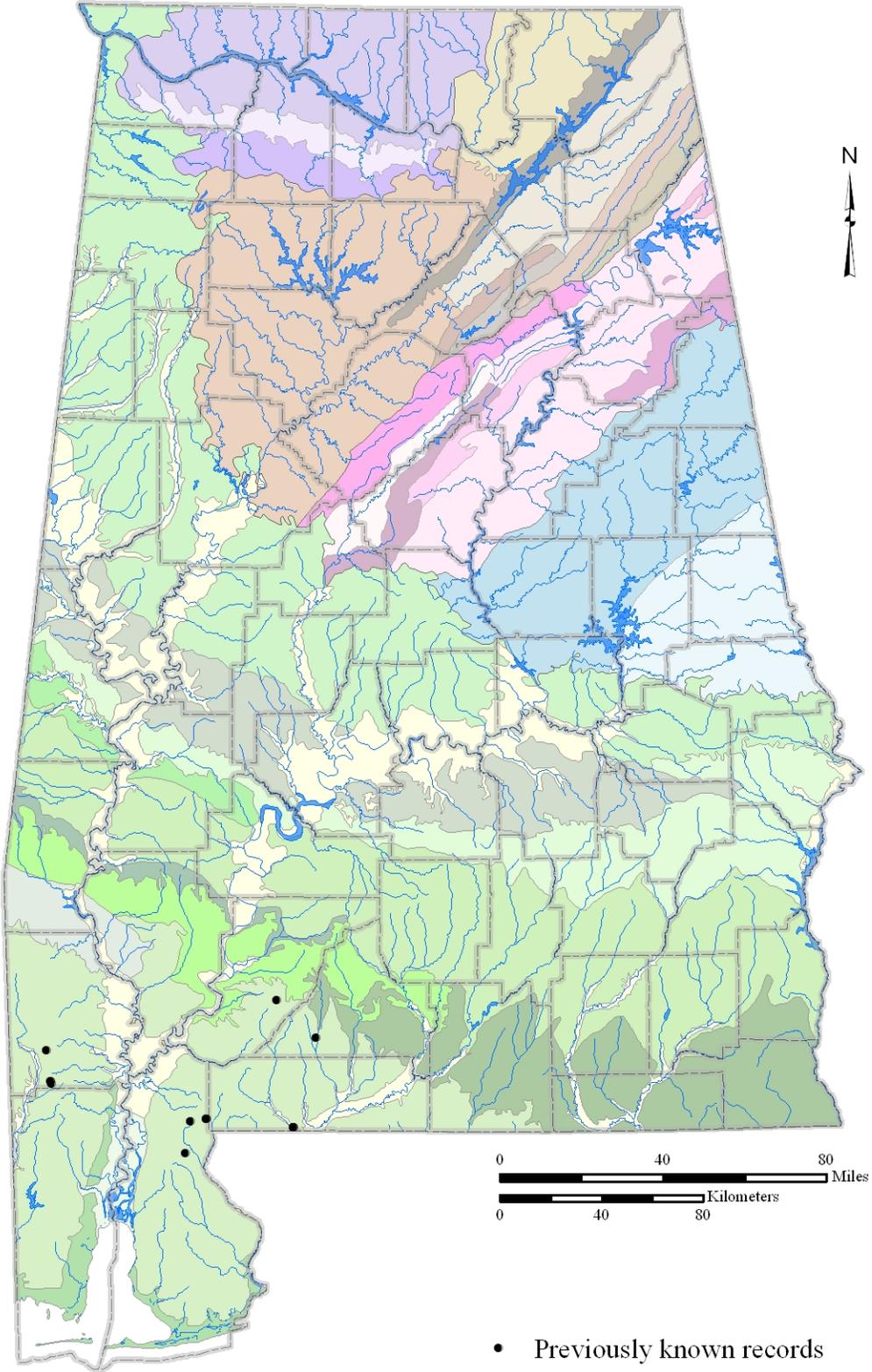
Burrowing Bog Crayfish

Fallicambarus burrisi



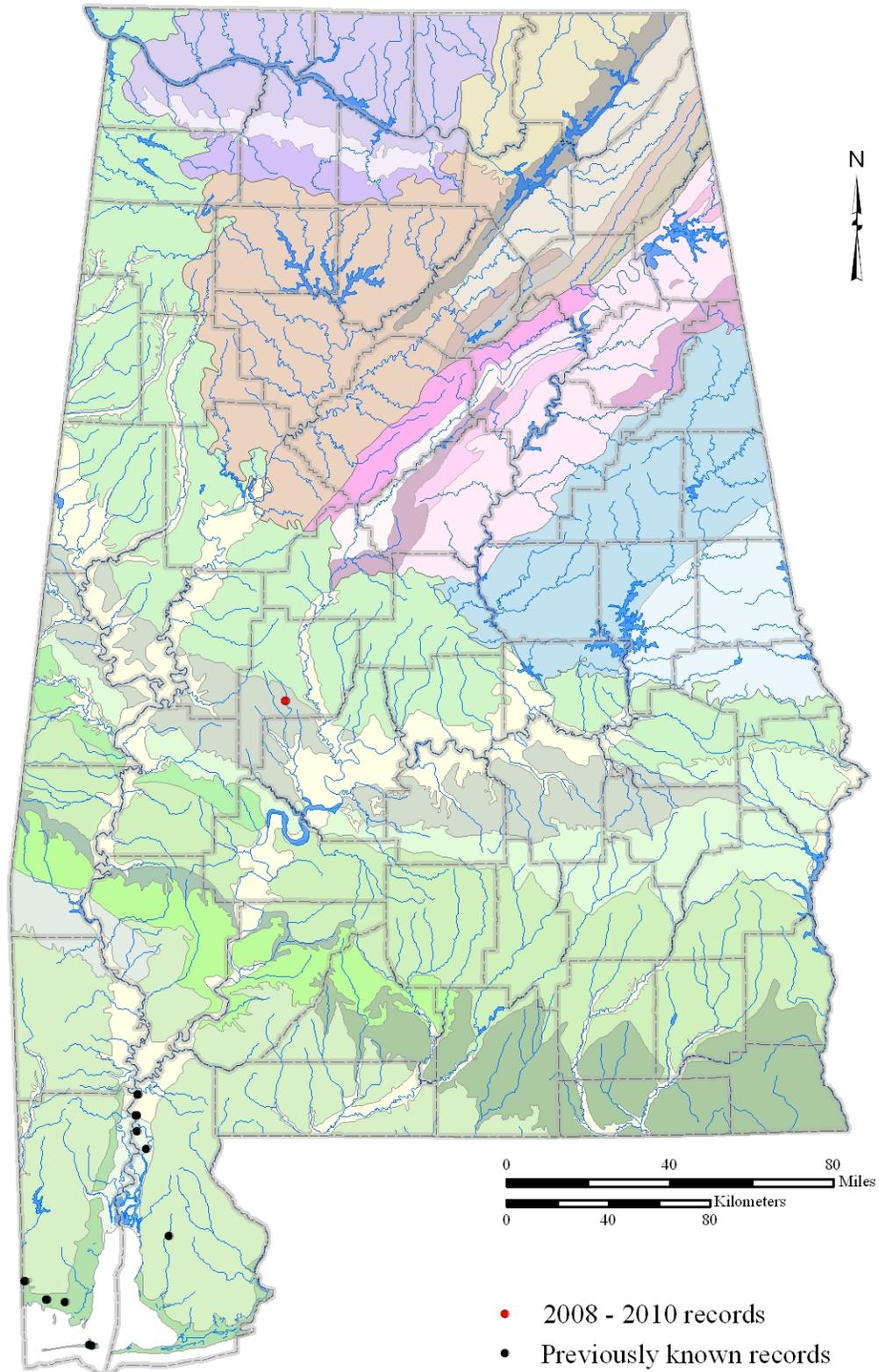
Lavender Burrowing Crayfish

Fallicambarus byersi



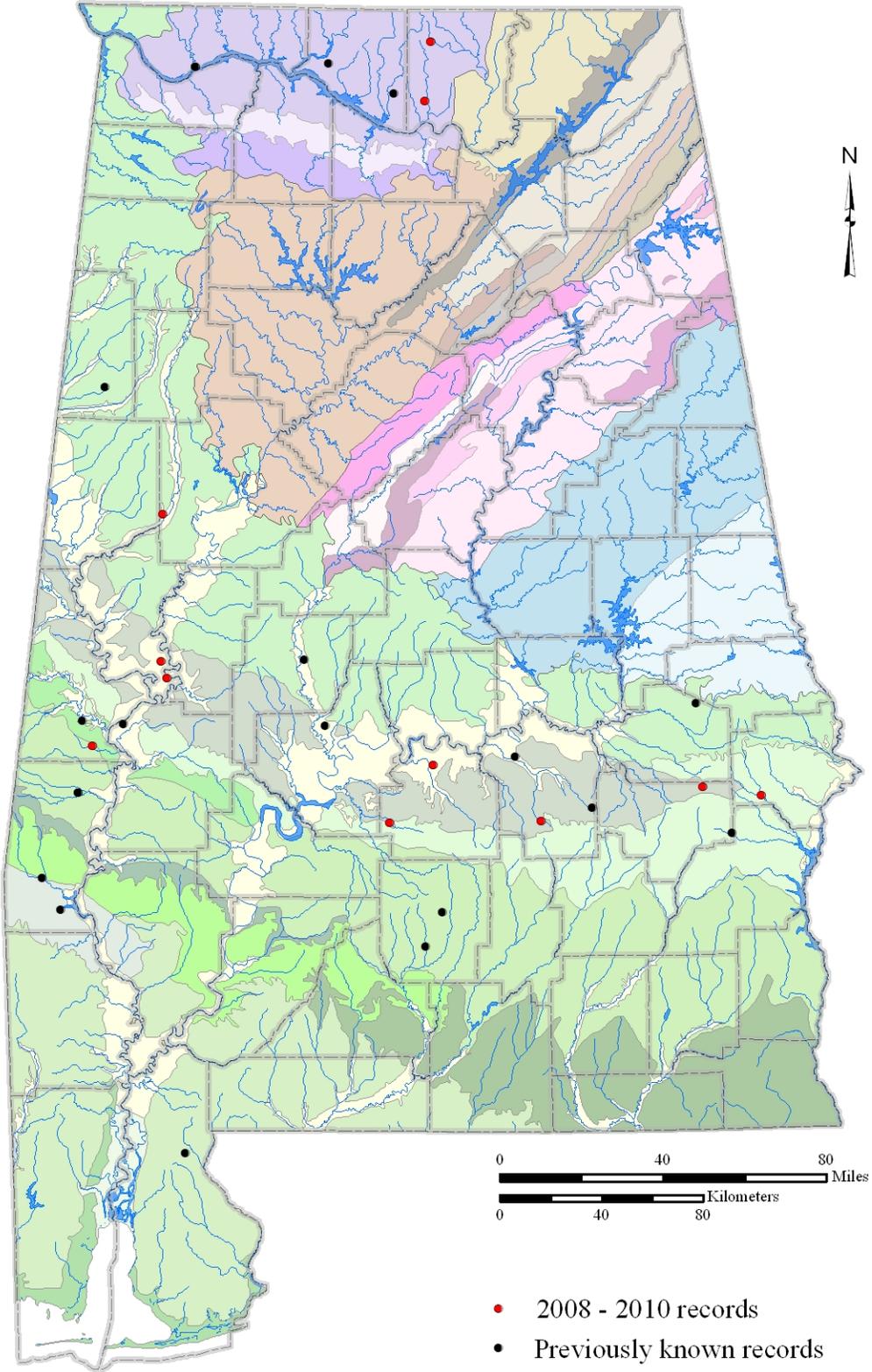
Speckled Burrowing Crayfish

Fallicambarus danielae



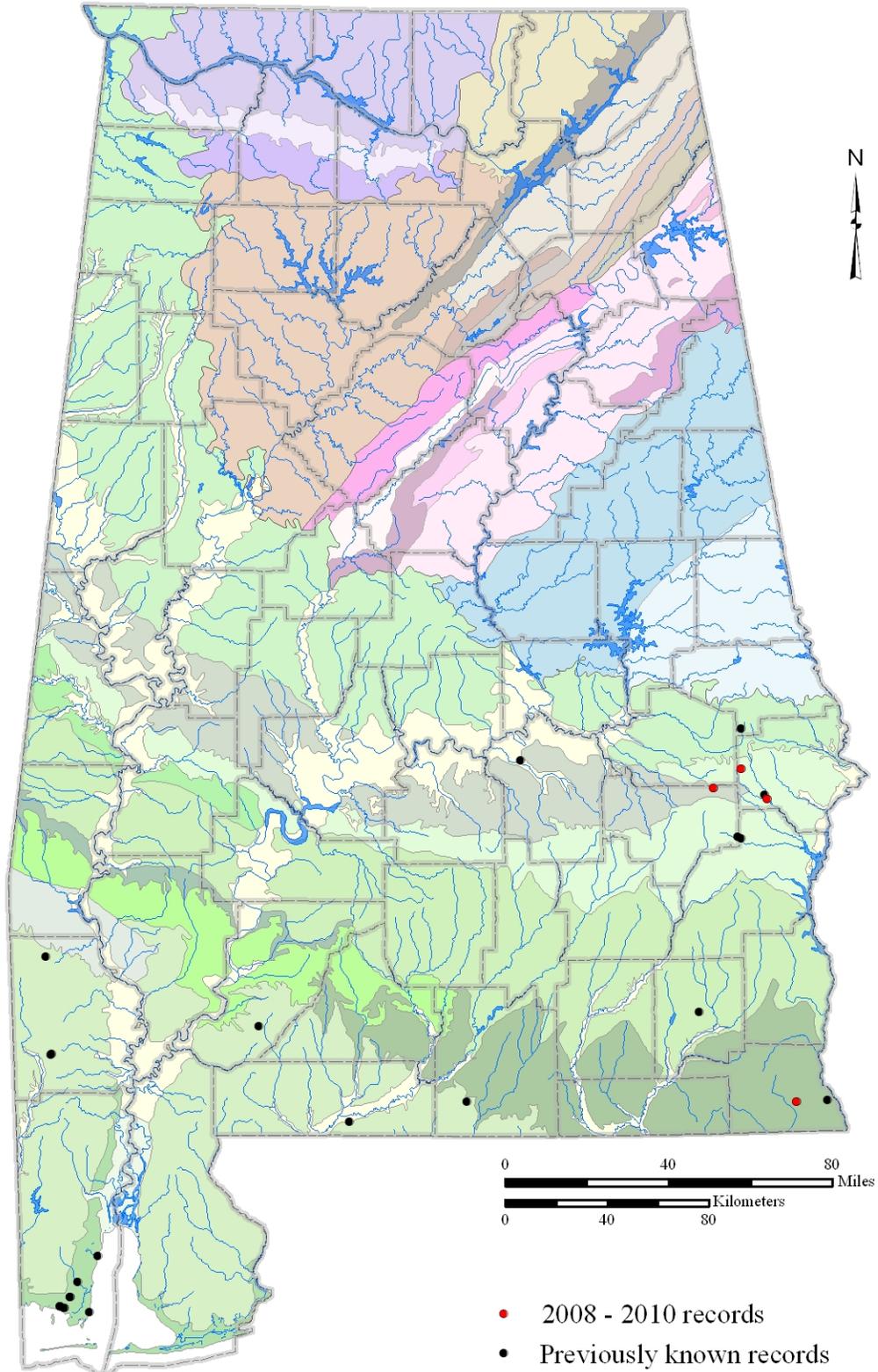
Digger Crayfish

Fallicambarus fodiens



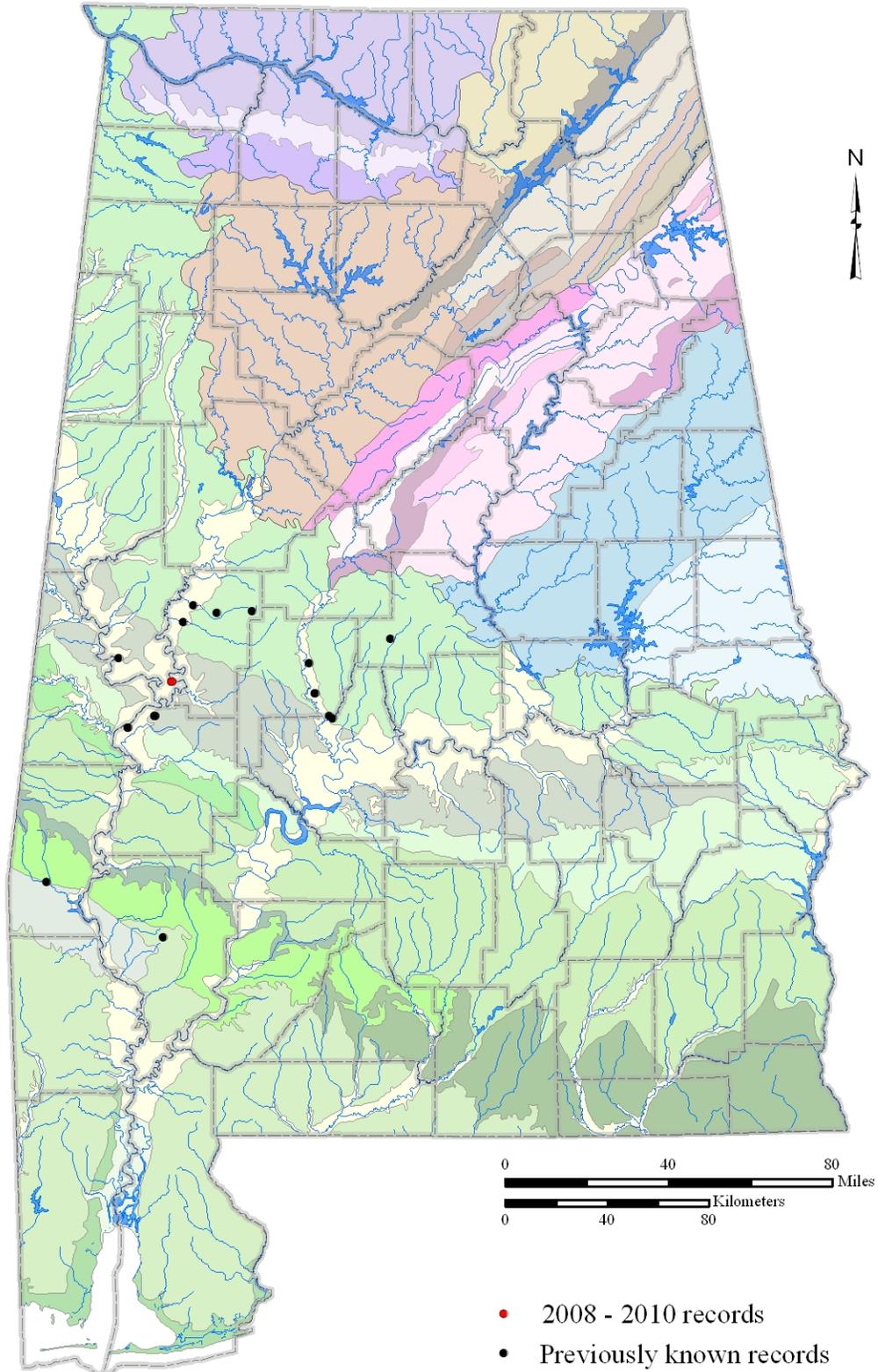
Ditch Fencing Crayfish

Faxonella clypeata



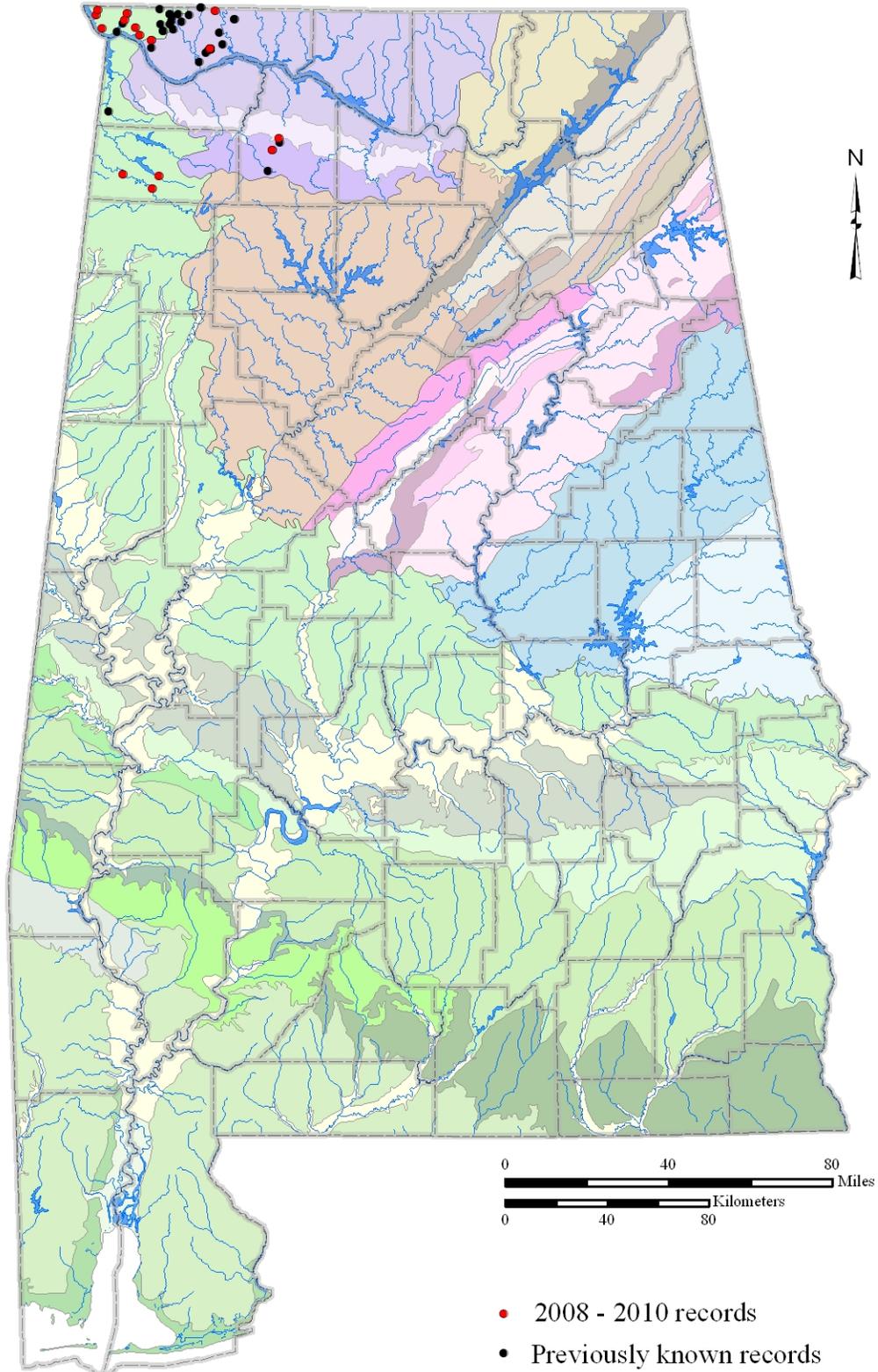
Prominence Riverlet Crayfish

Hobbseus prominens



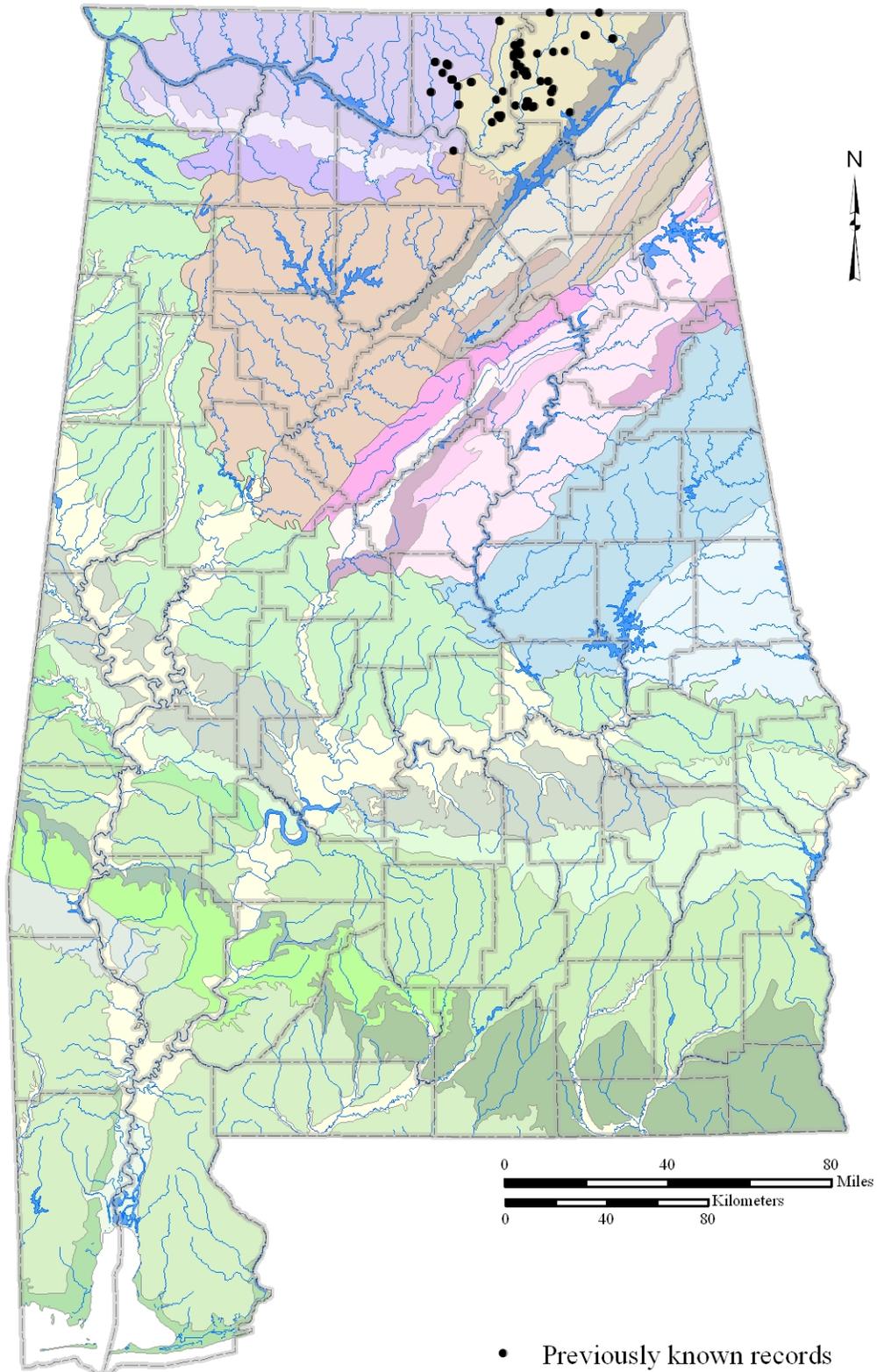
Alabama Crayfish

Orconectes alabamensis



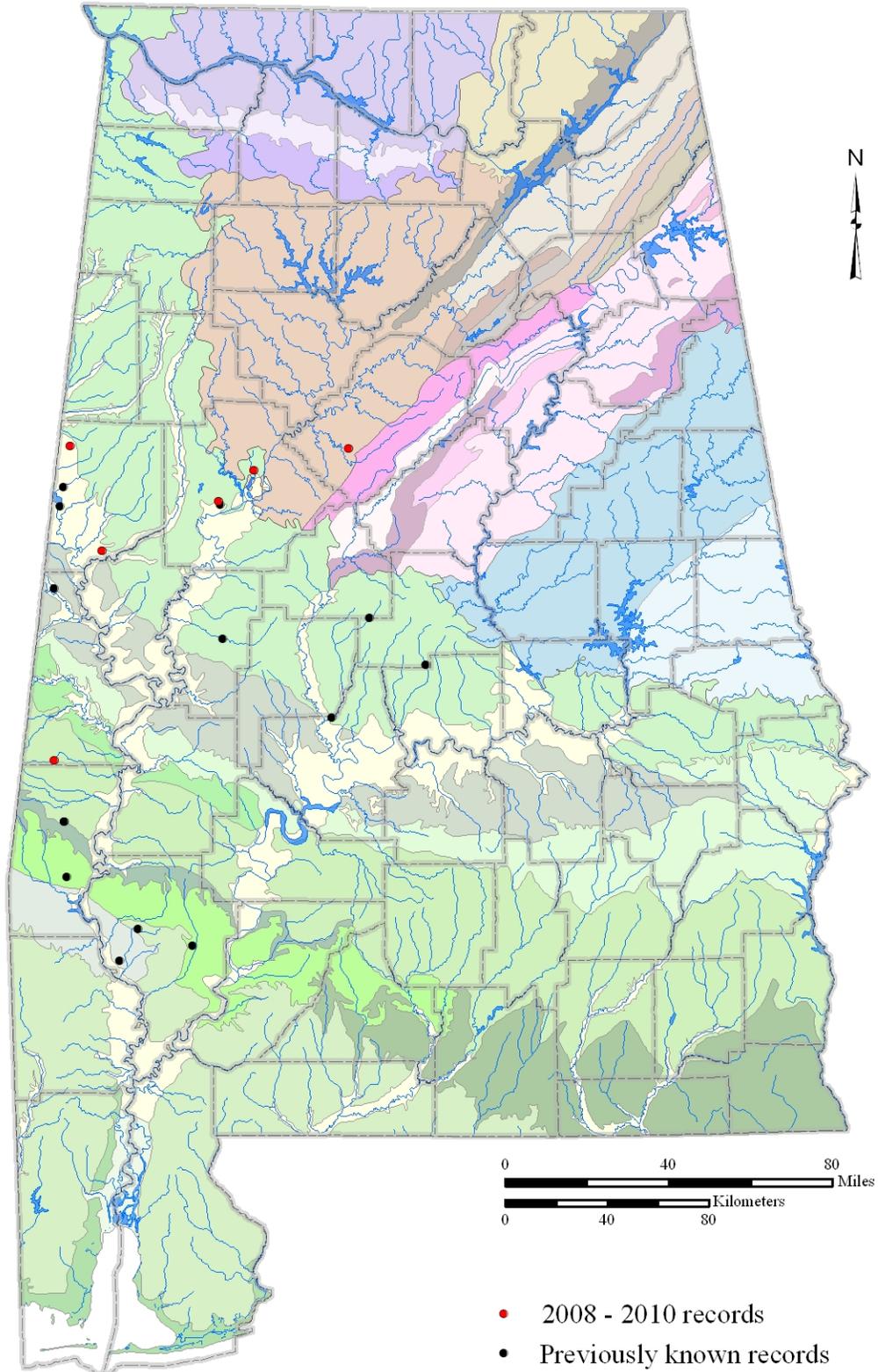
Southern Cave Crayfish

Orconectes australis



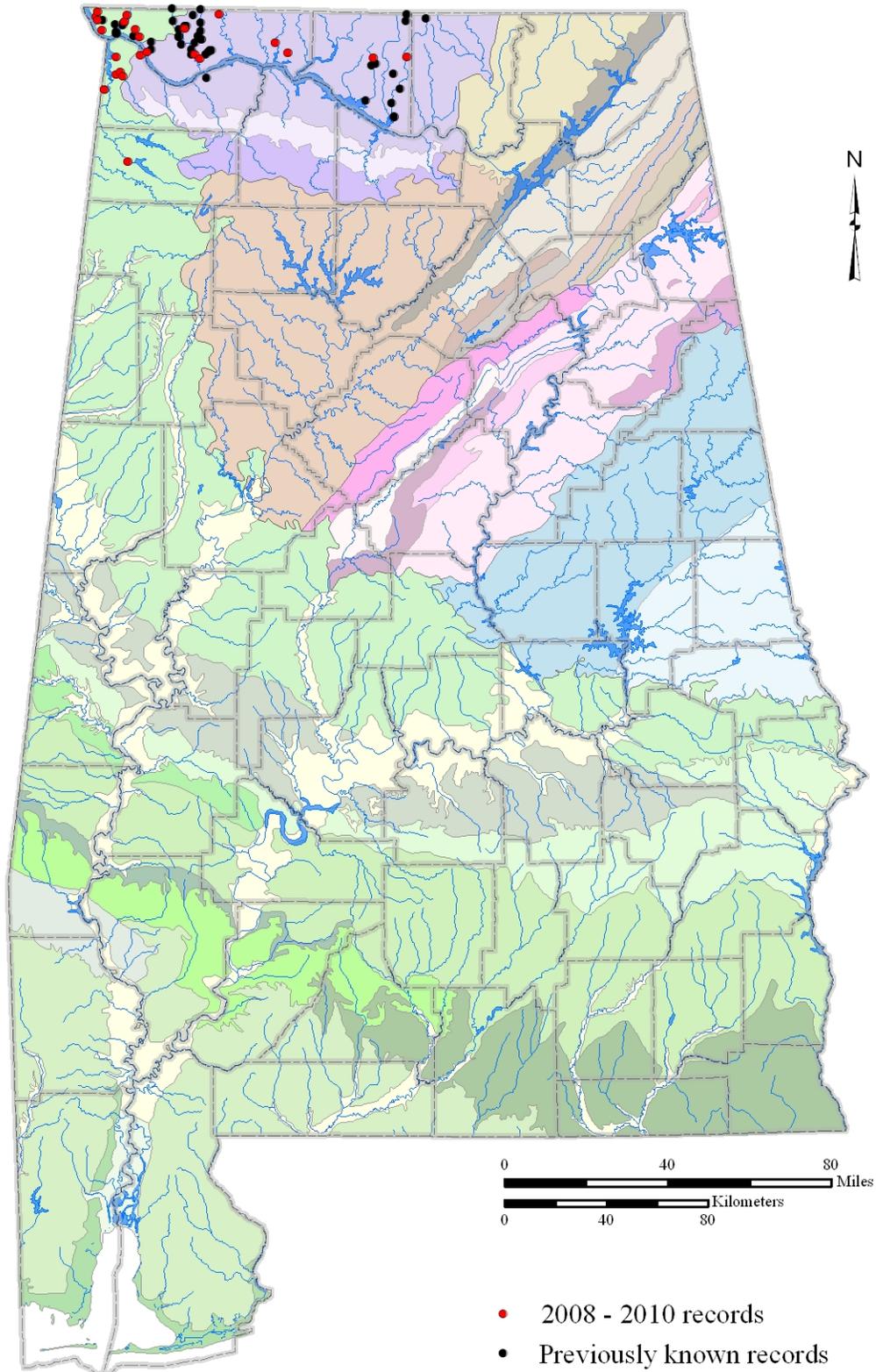
Chickasaw Crayfish

Orconectes chickasawae



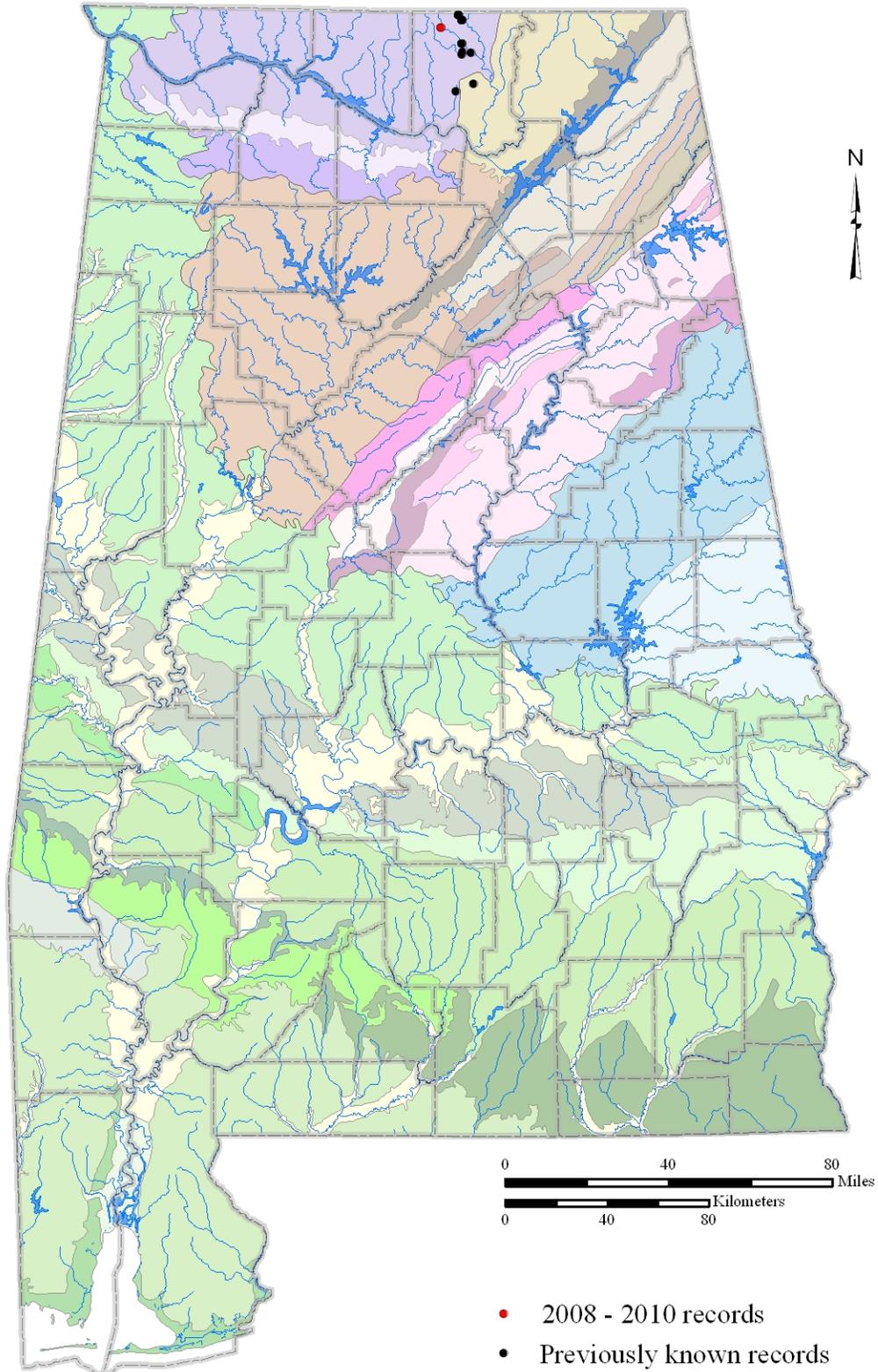
Slender Crayfish

Orconectes compressus



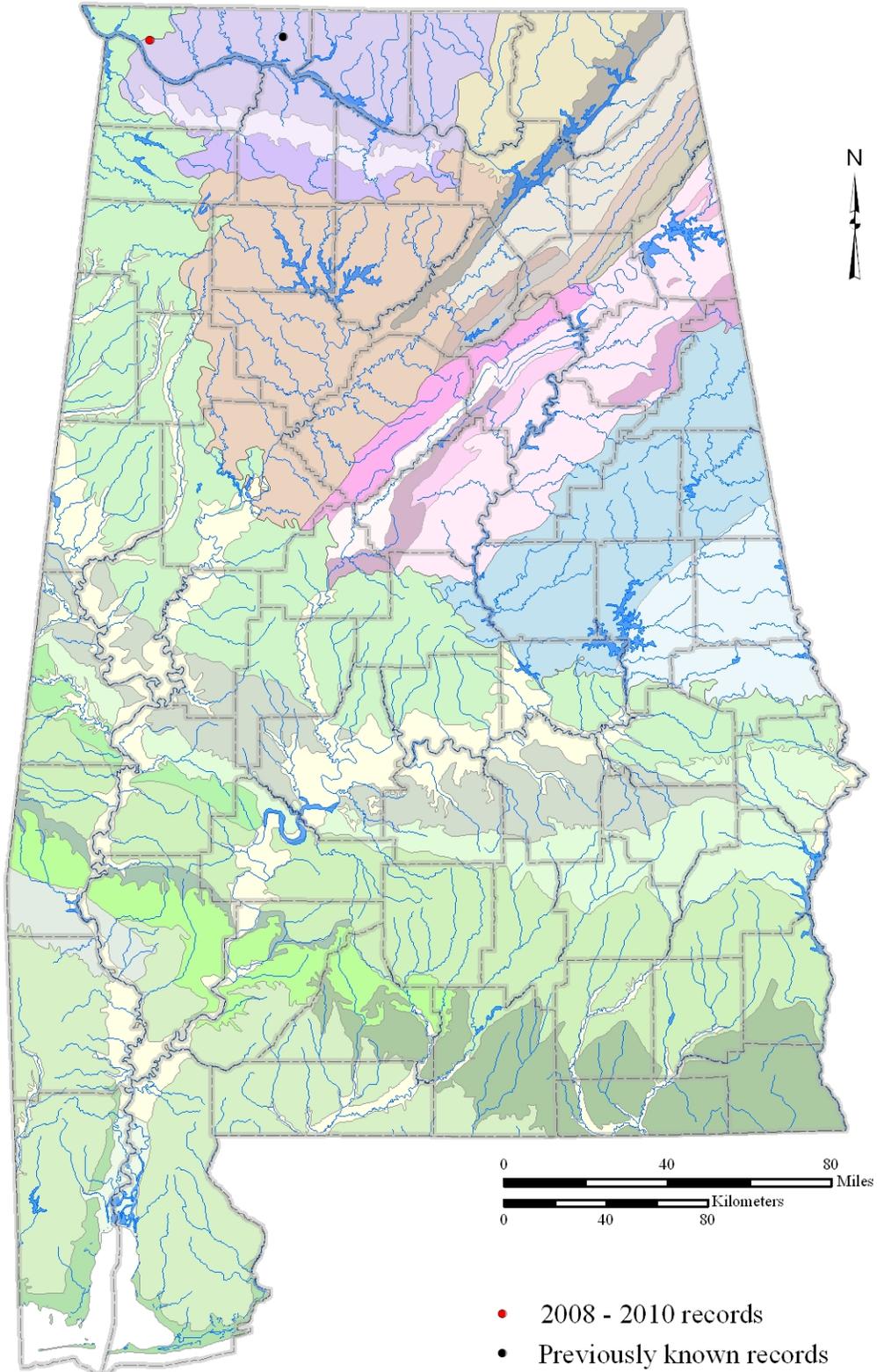
Flint River Crayfish

Orconectes cooperi



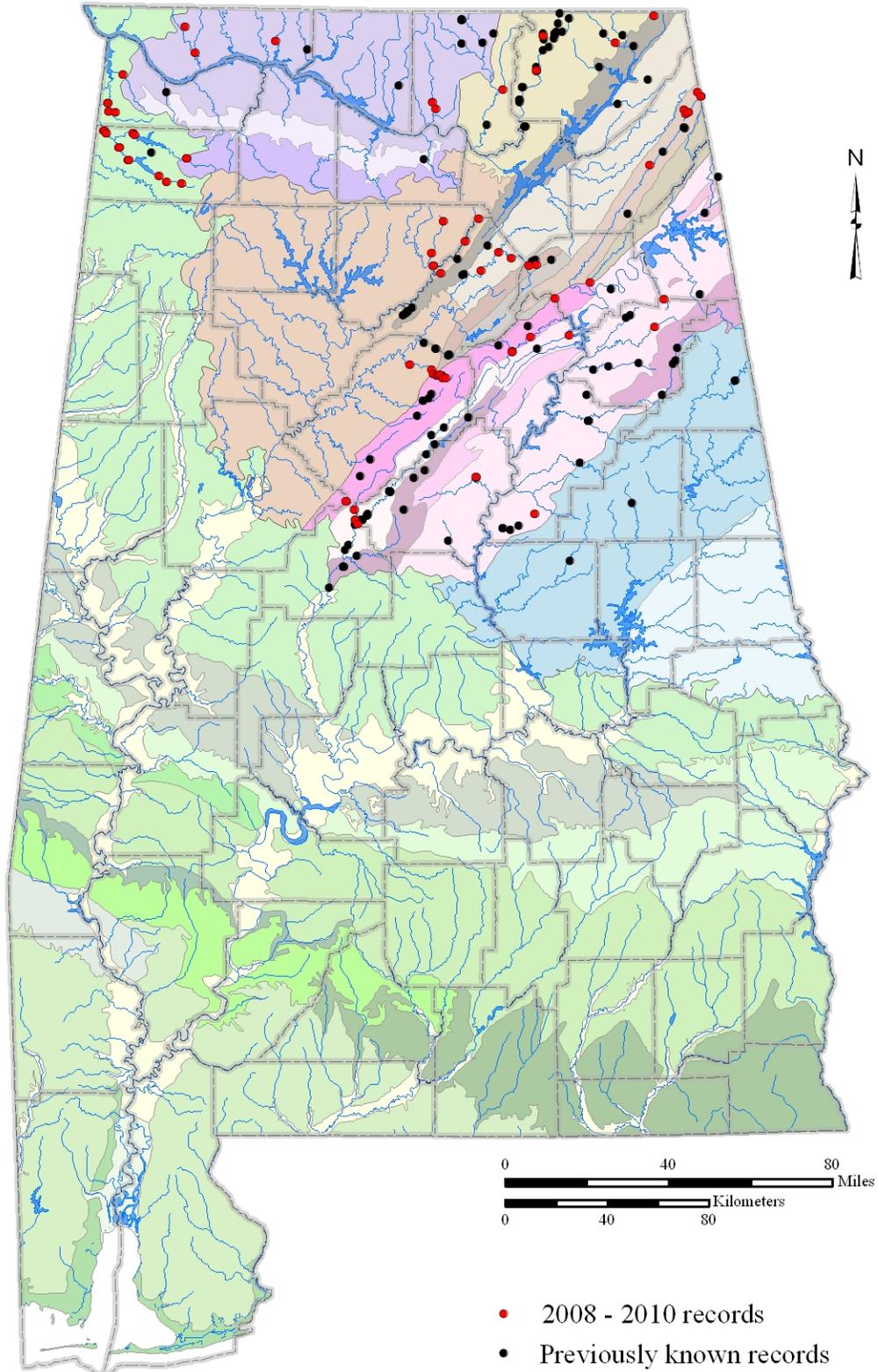
Saddle Crayfish

Orconectes durelli



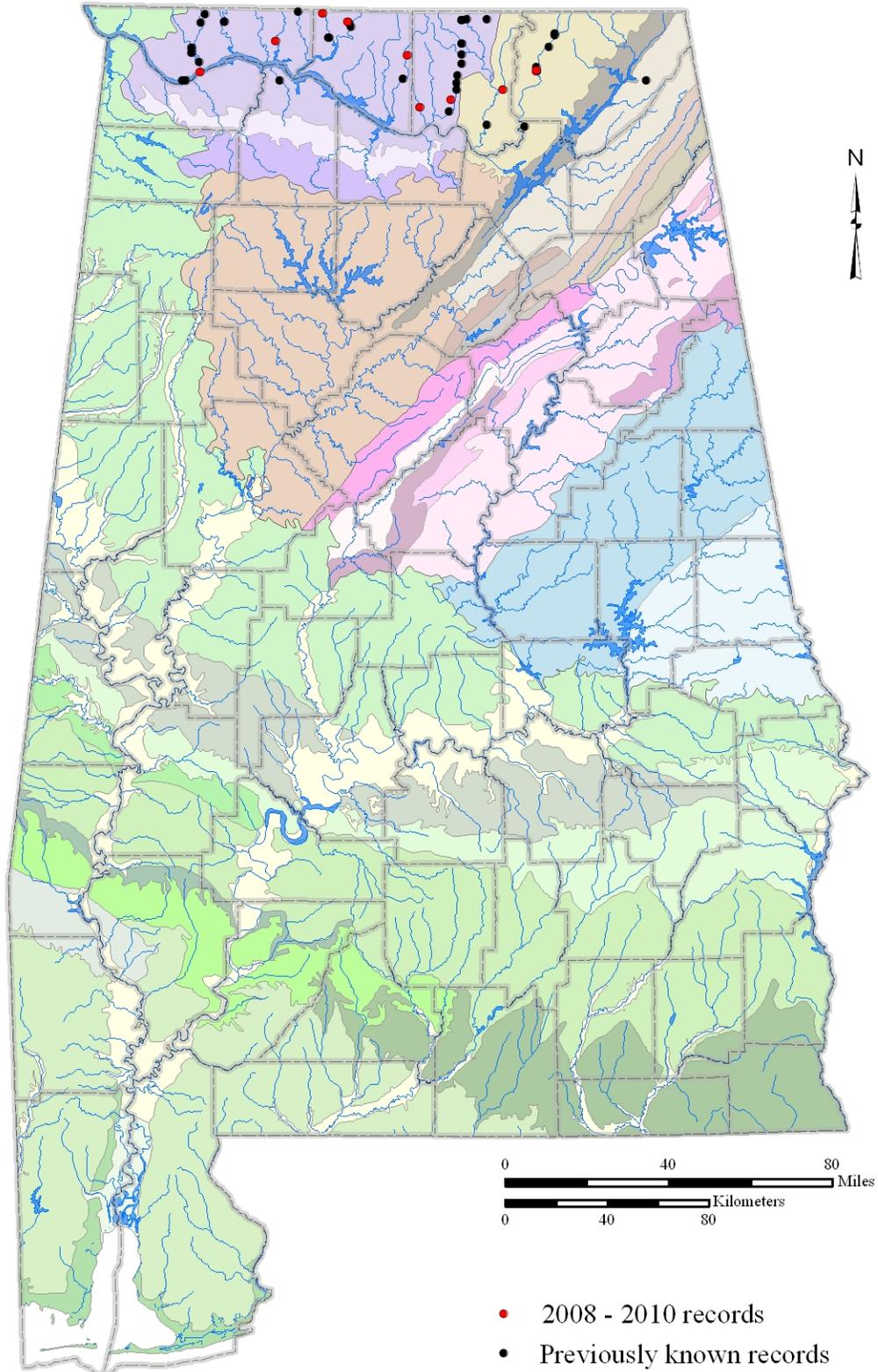
Reticulate Crayfish

Orconectes erichsonianus



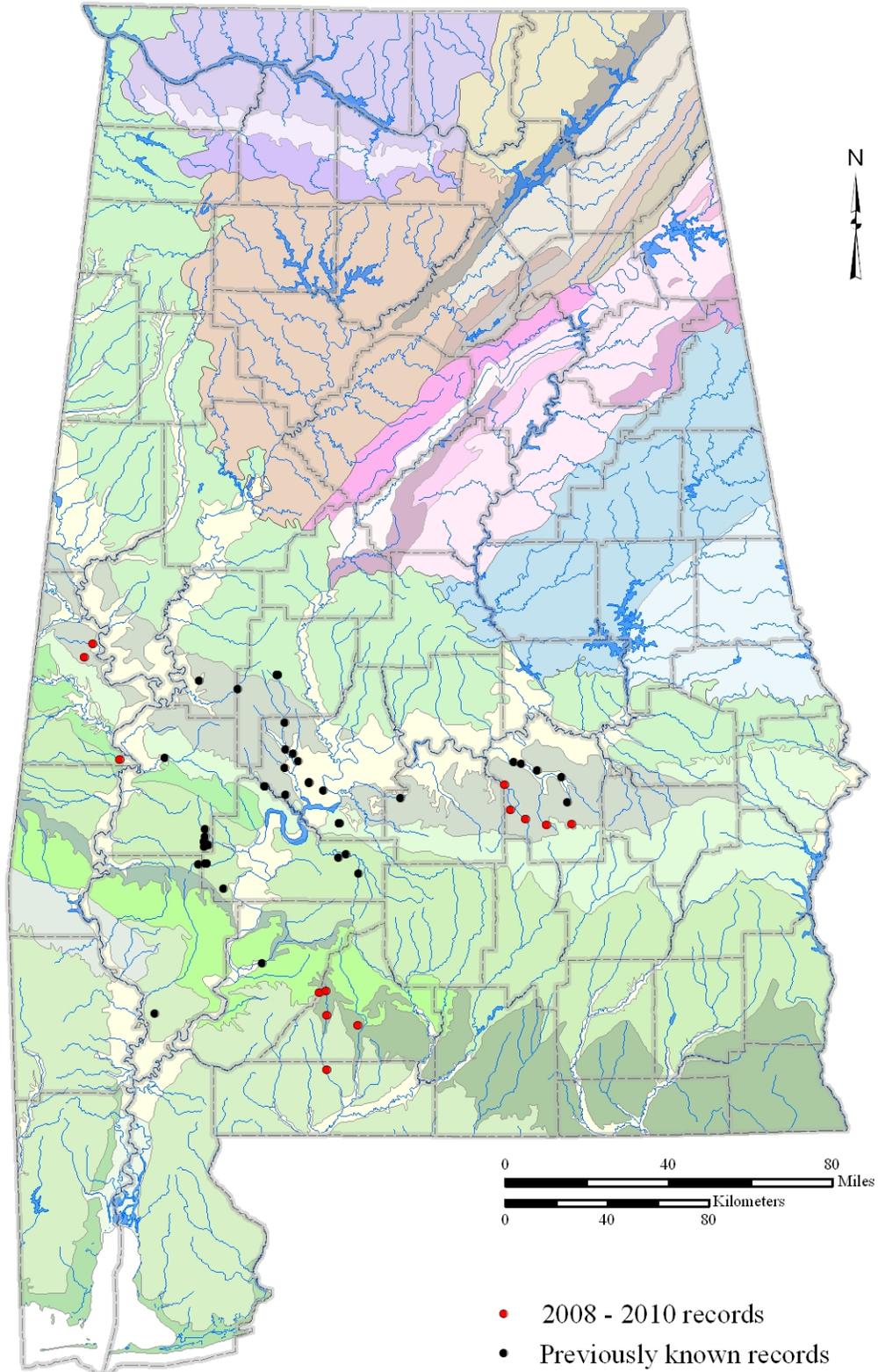
Surgeon Crayfish

Orconectes forceps



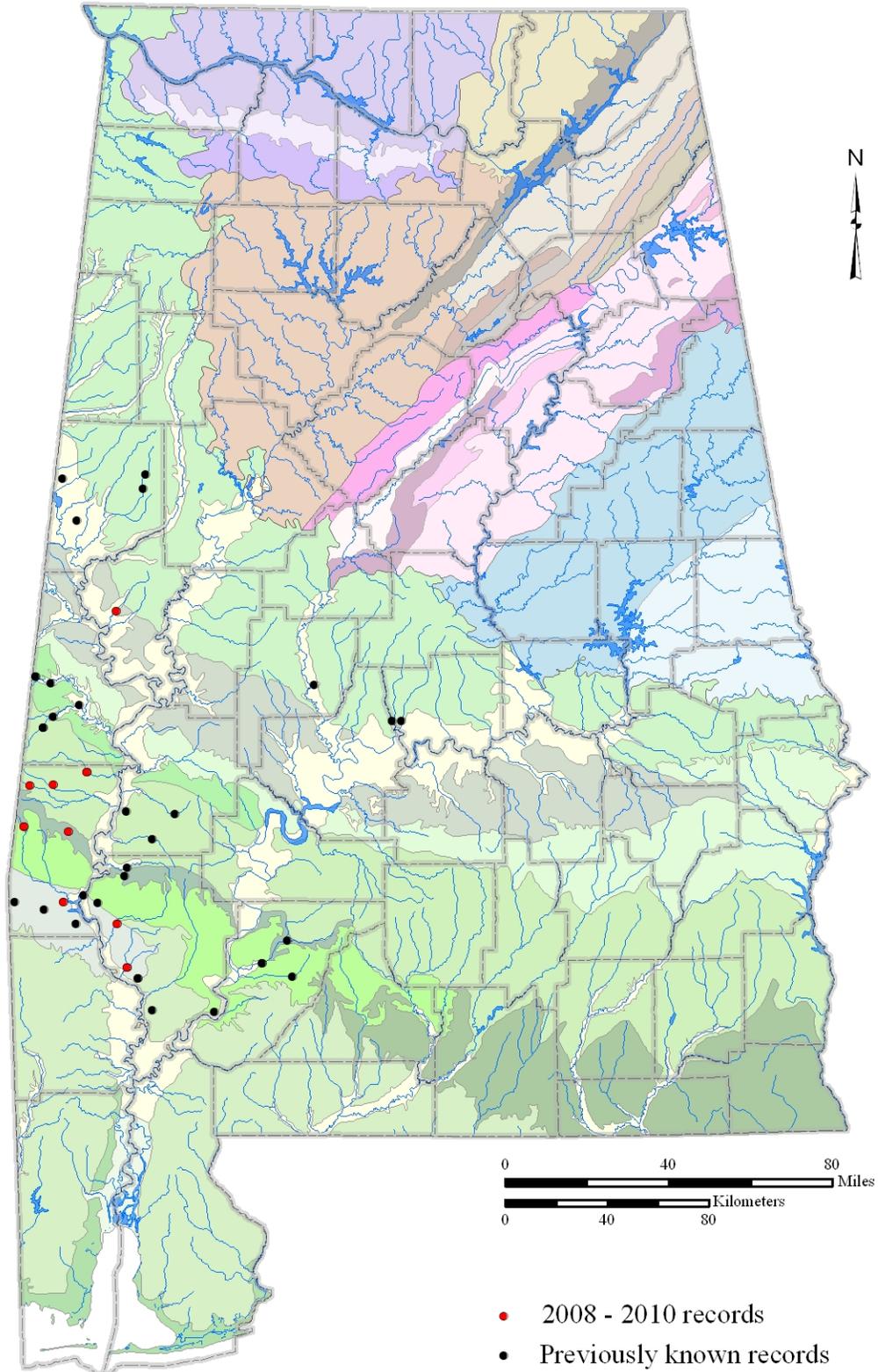
Bimaculate Crayfish

Orconectes holti



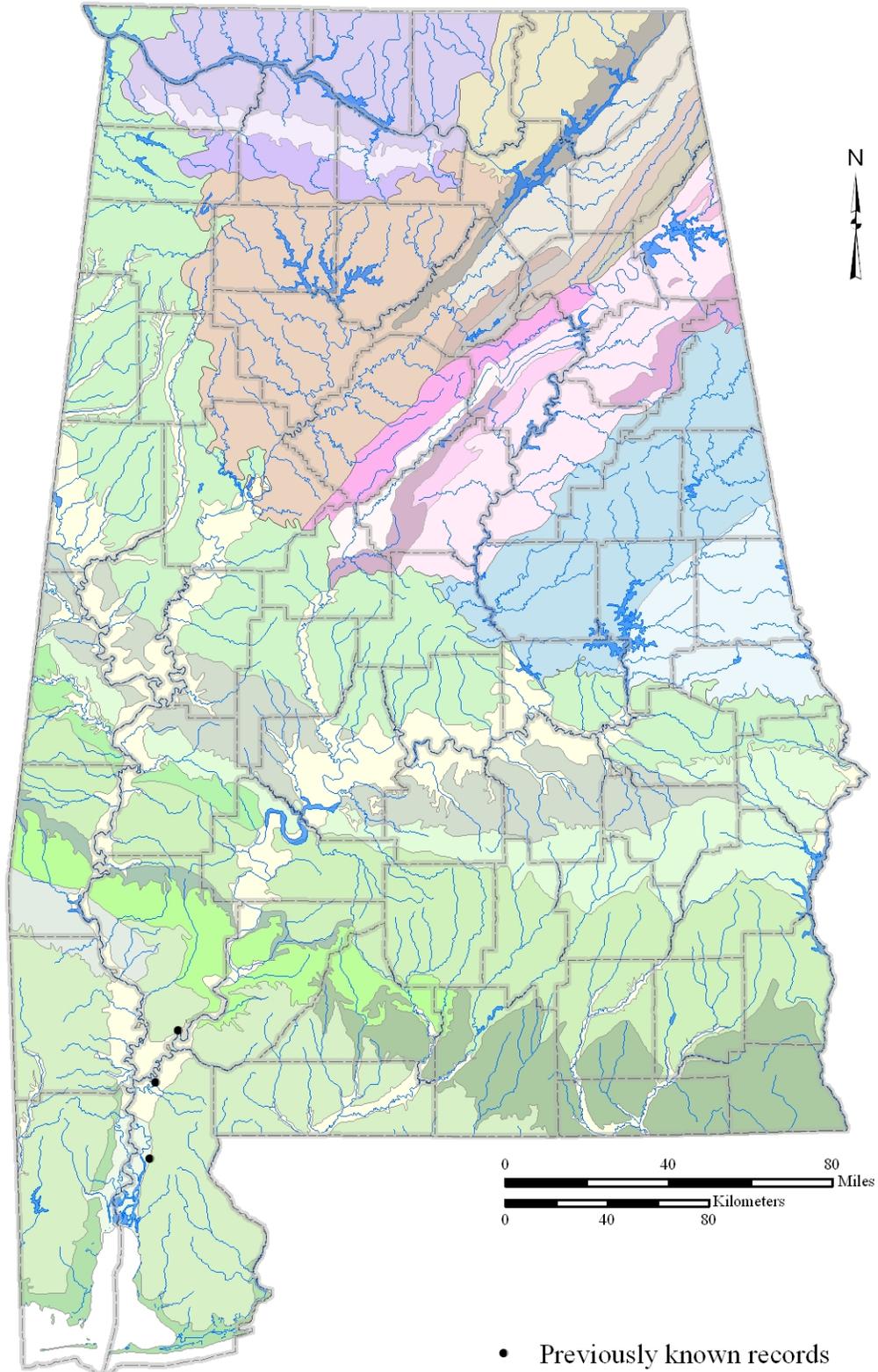
Sucarnoochee River Crayfish

Orconectes jonesi



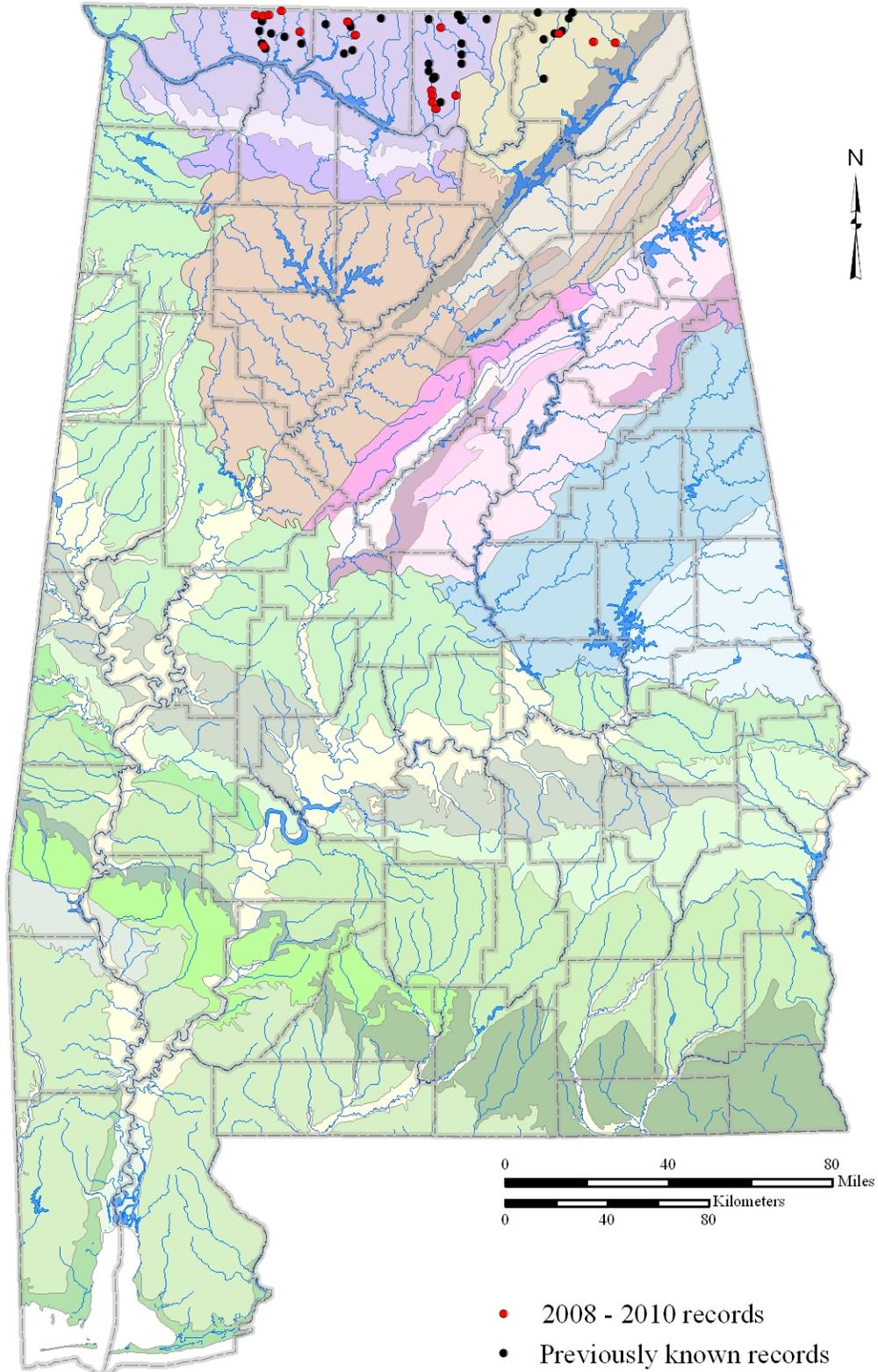
Shrimp Crayfish

Orconectes lancifer



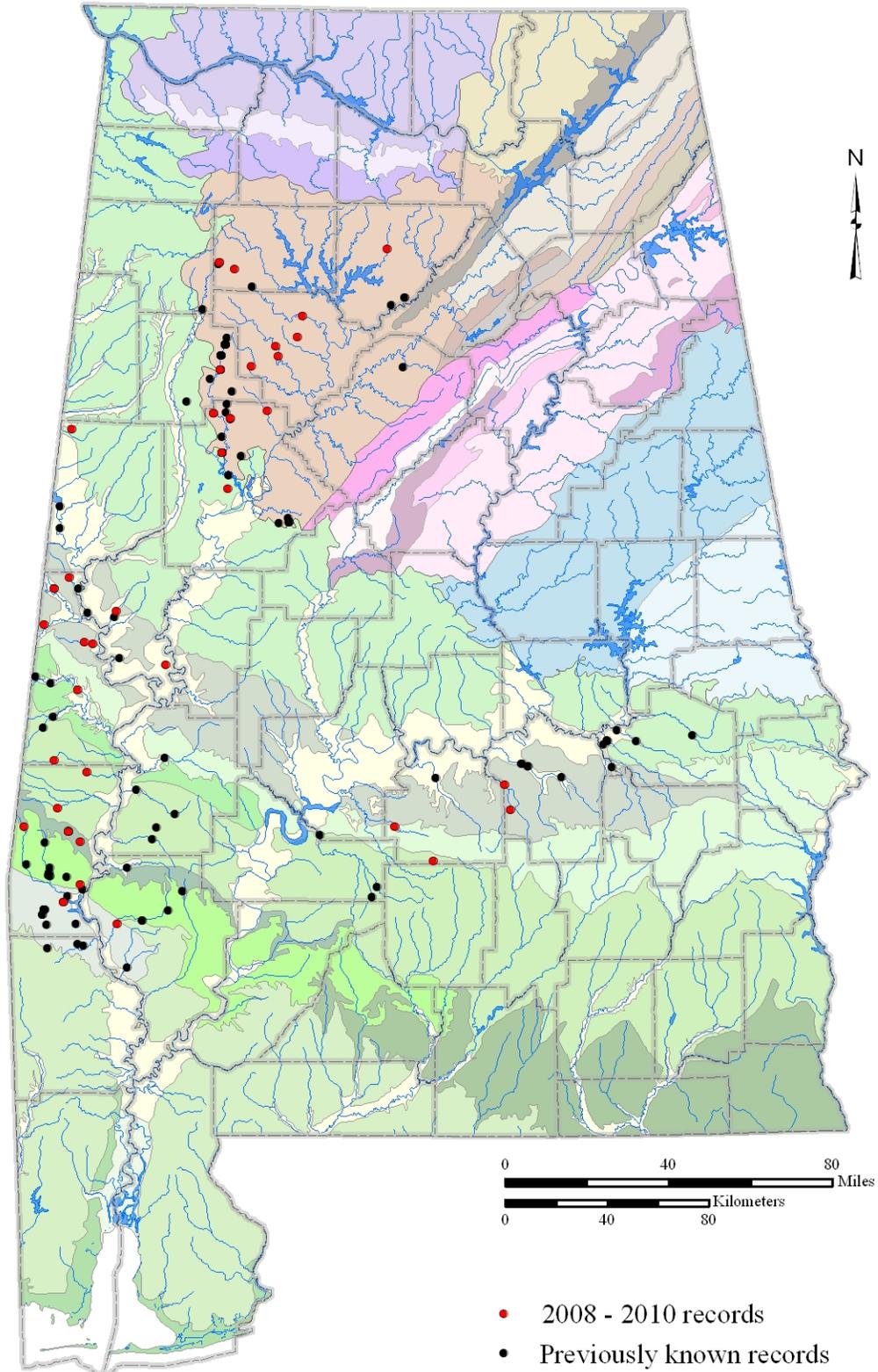
Wonderful Crayfish

Orconectes mirus



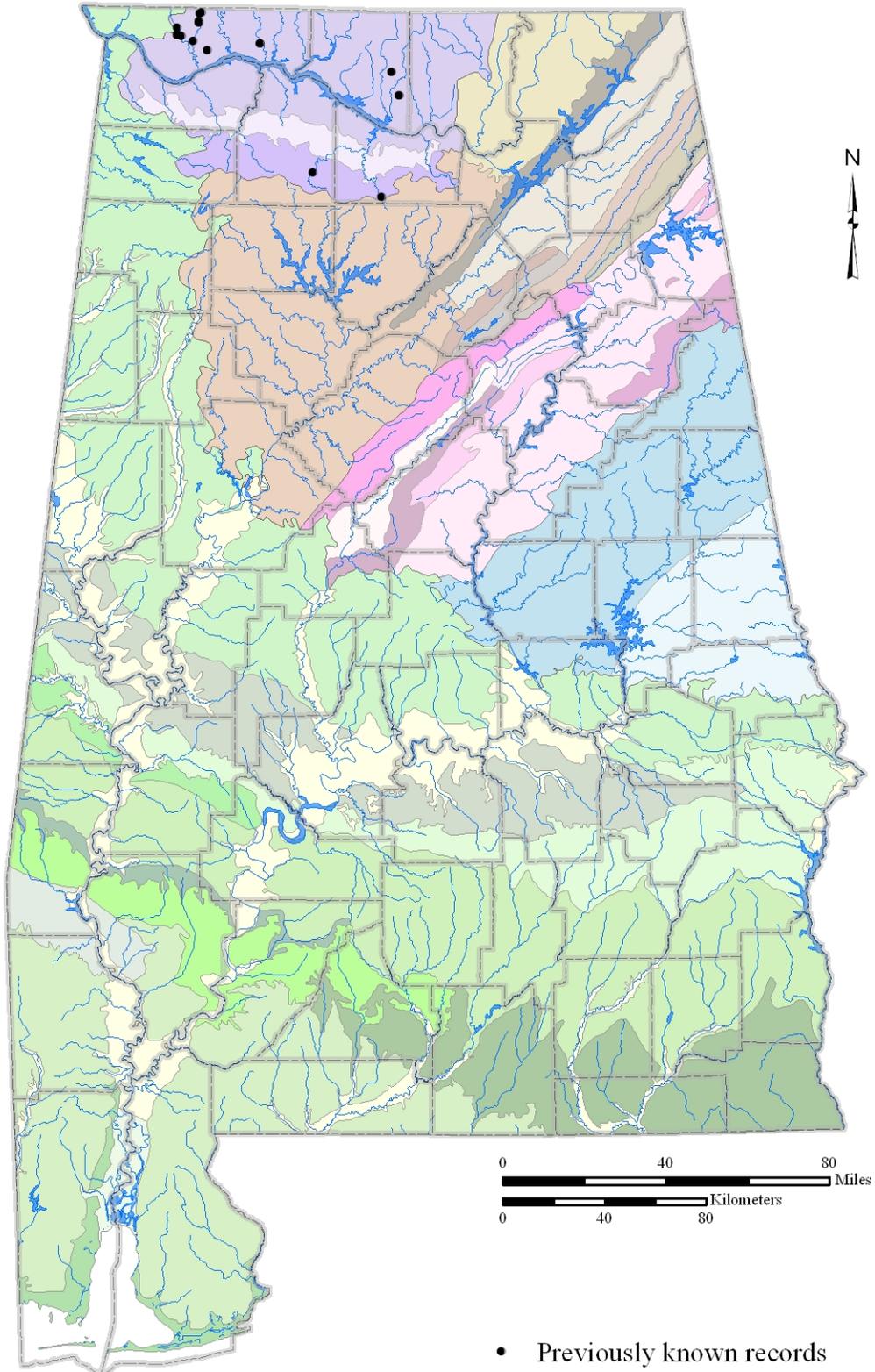
Complete Crayfish

Orconectes perfectus



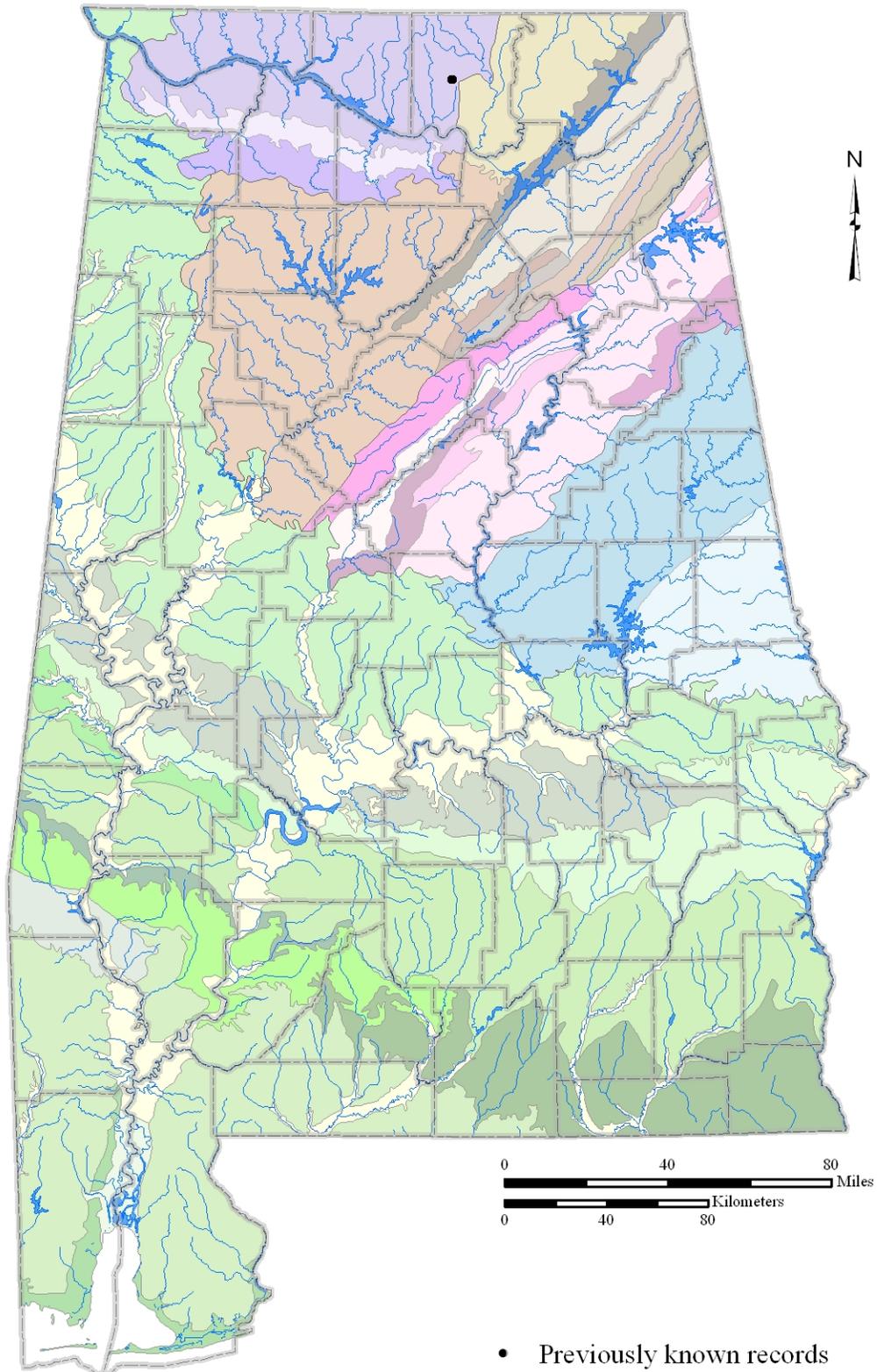
Phallic Crayfish

Orconectes putnami



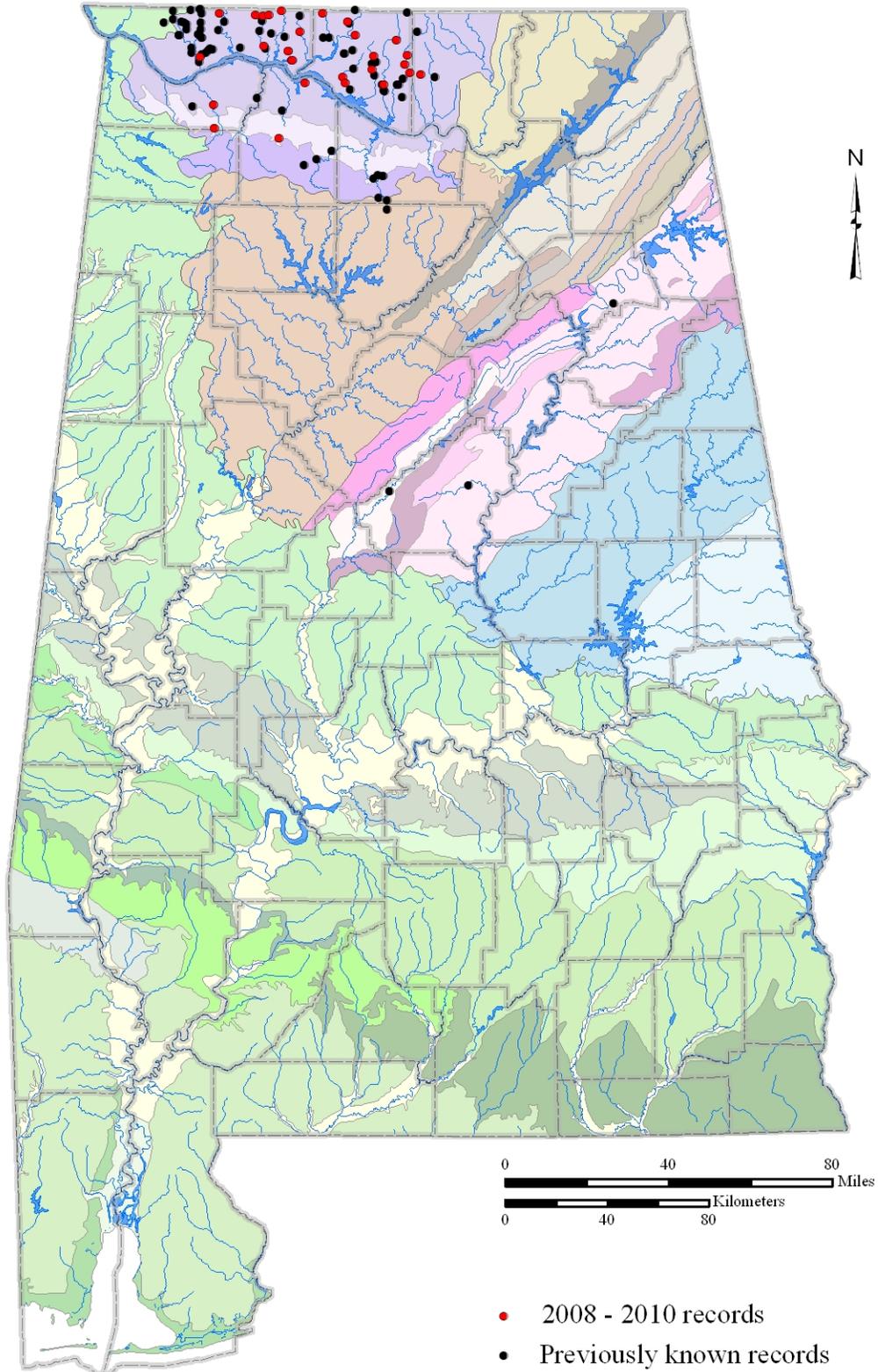
Shelta Cave Crayfish

Orconectes sheltae



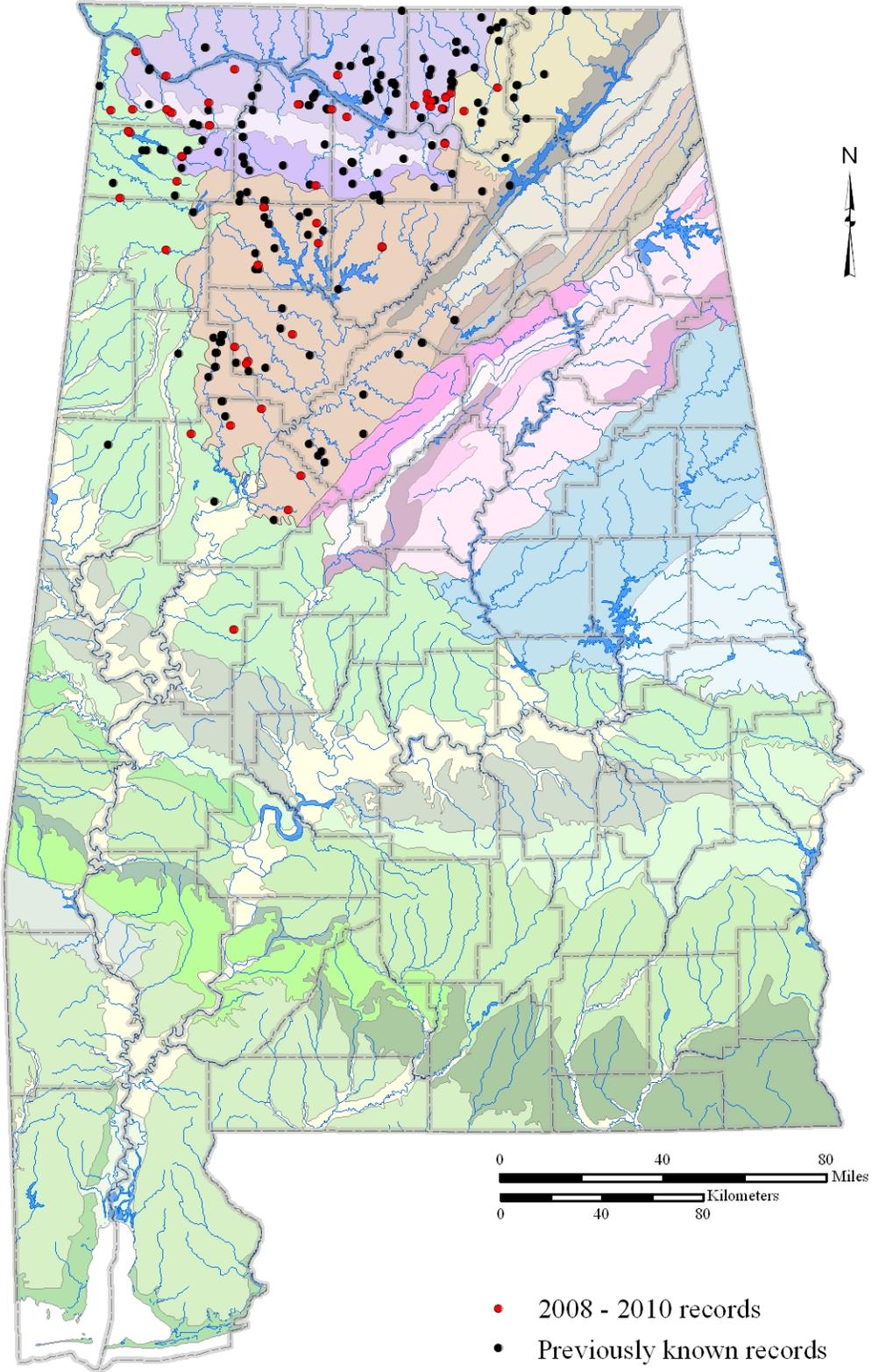
Coosa River Spiny Crayfish

Orconectes spinosus



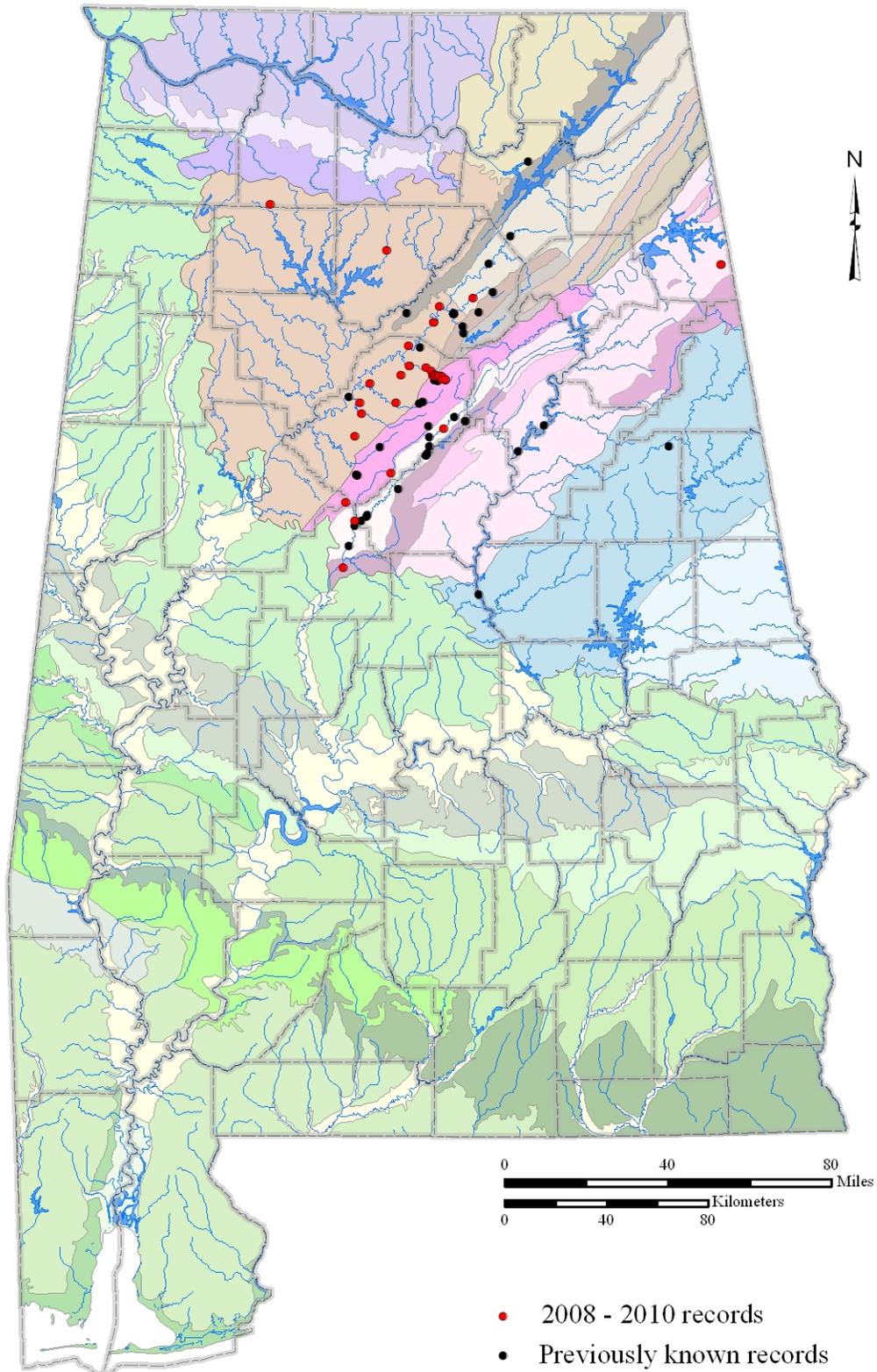
Powerful Crayfish

Orconectes validus



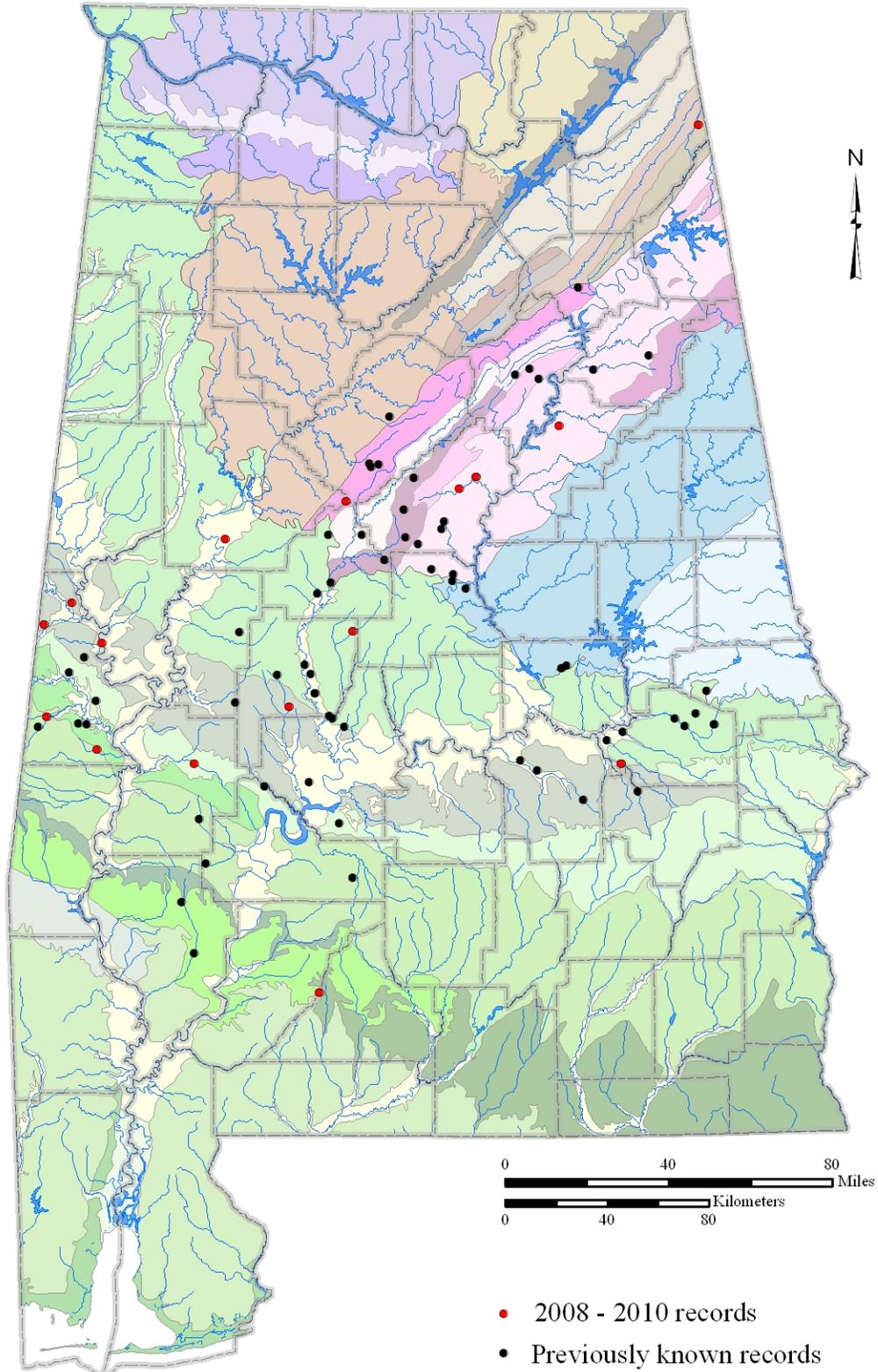
Virile Crayfish

Orconectes virilis



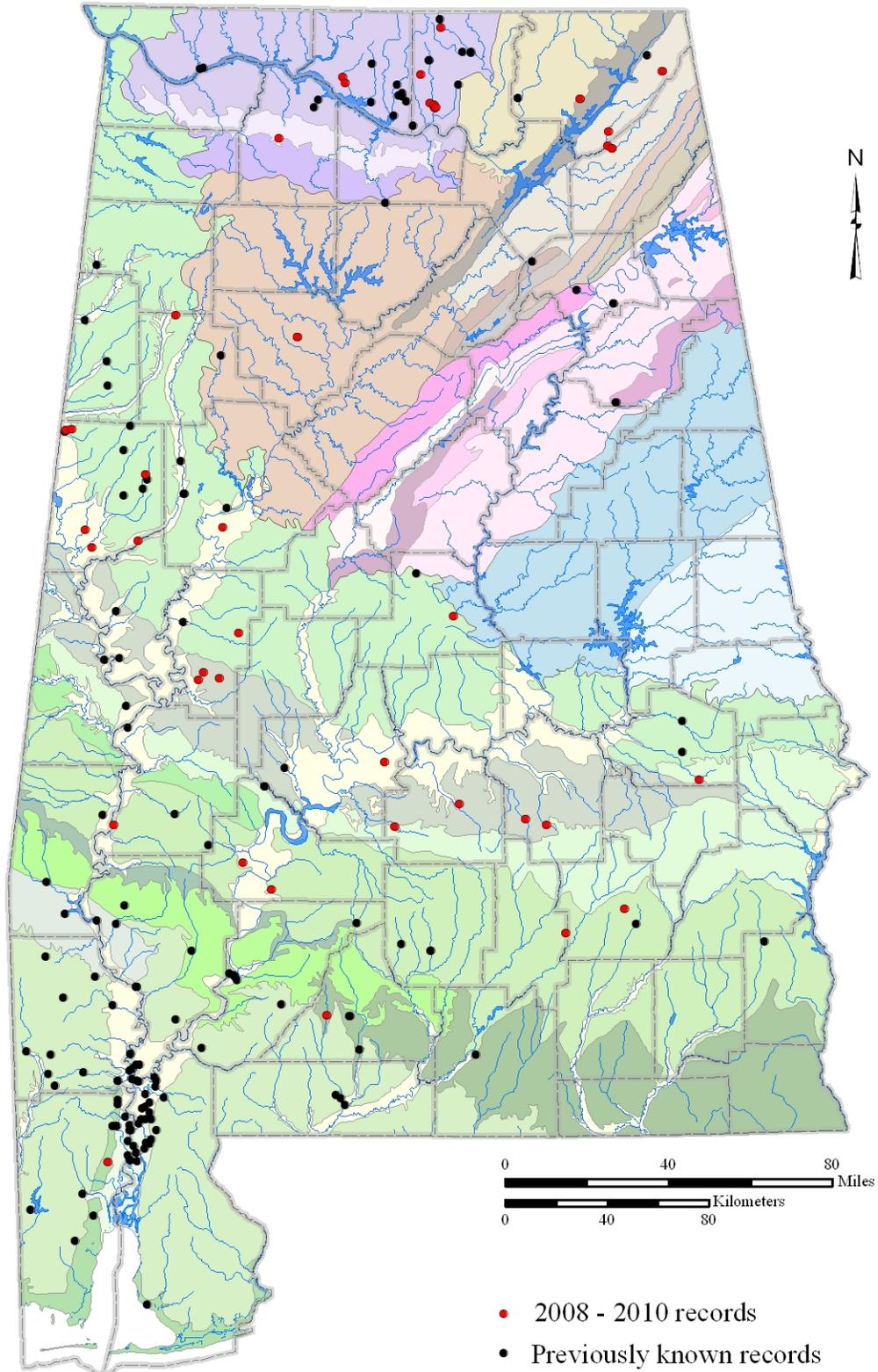
Sharpnose Crayfish

Procambarus acutissimus



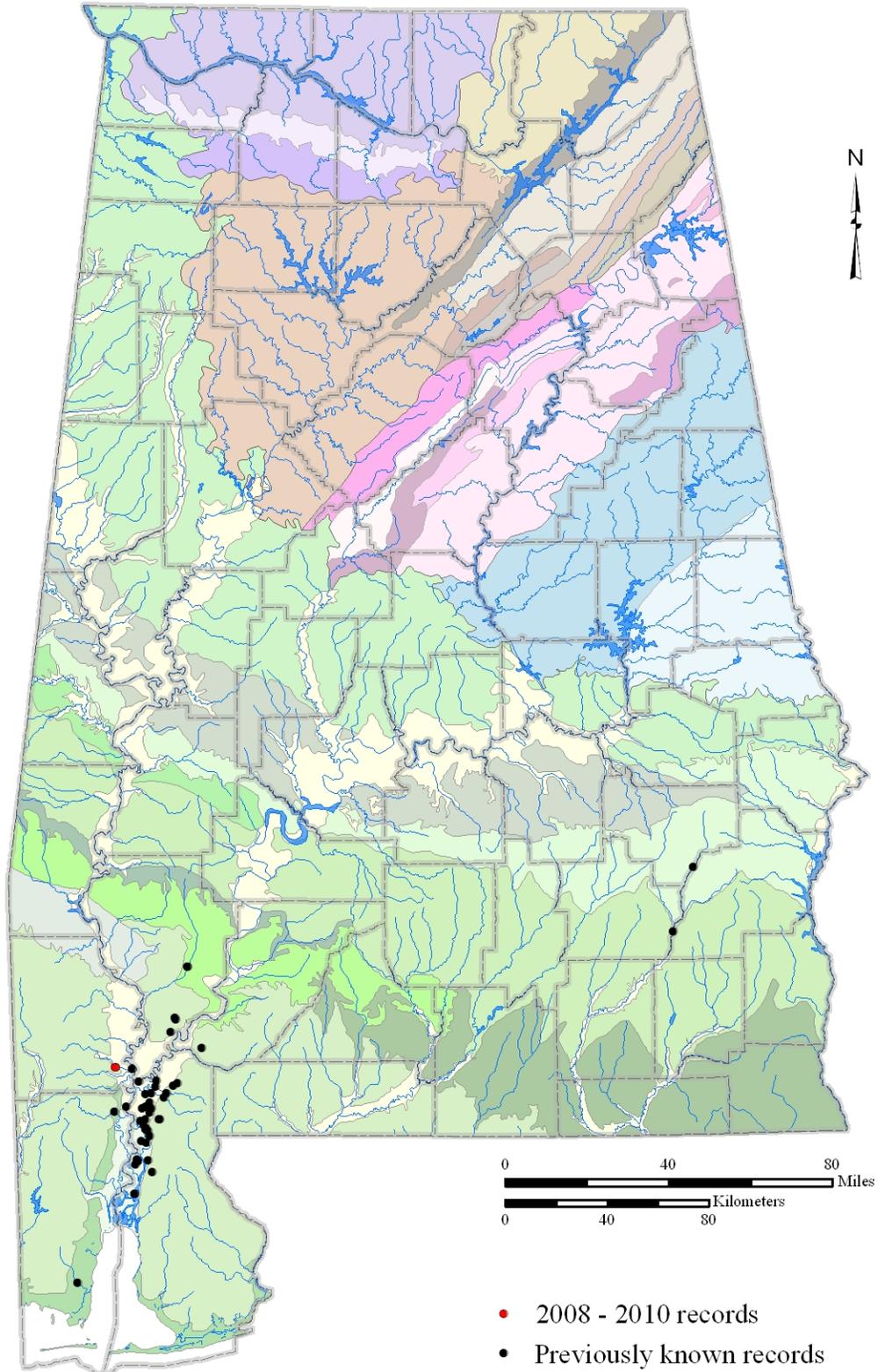
White River Crayfish

Procambarus acutus



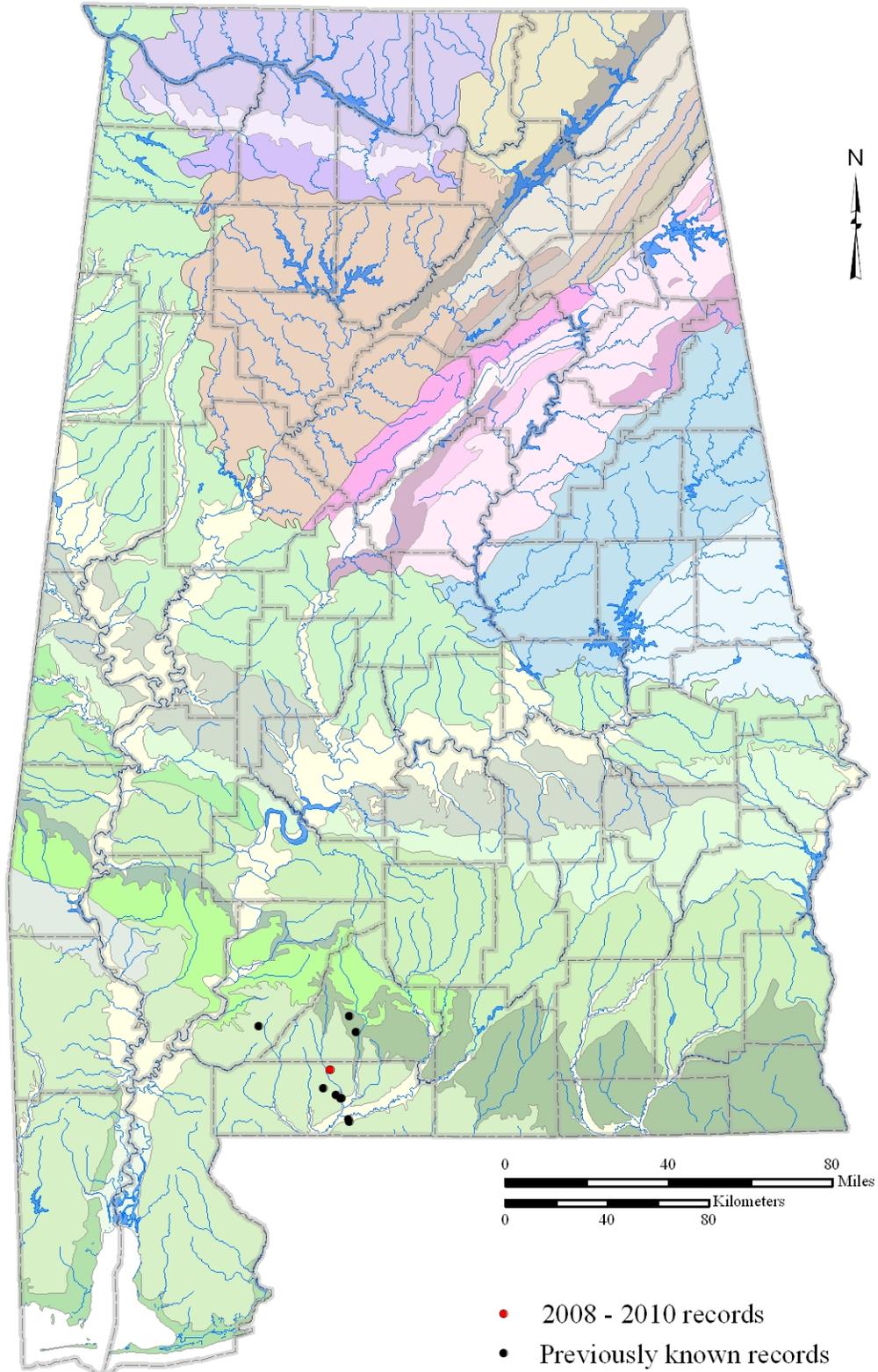
Ribbon Crayfish

Procambarus bivittatus



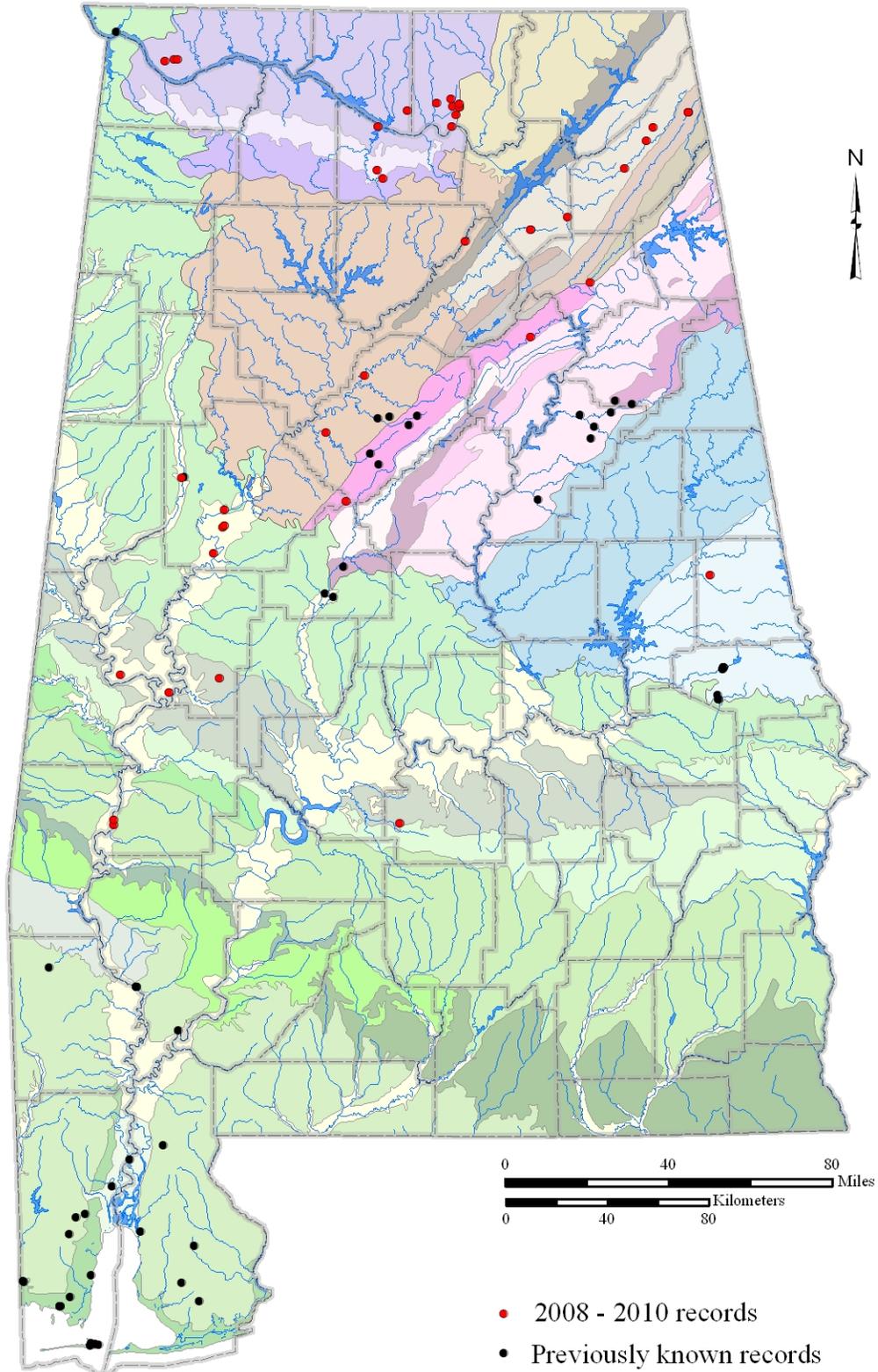
Capillaceous Crayfish

Procambarus capillatus



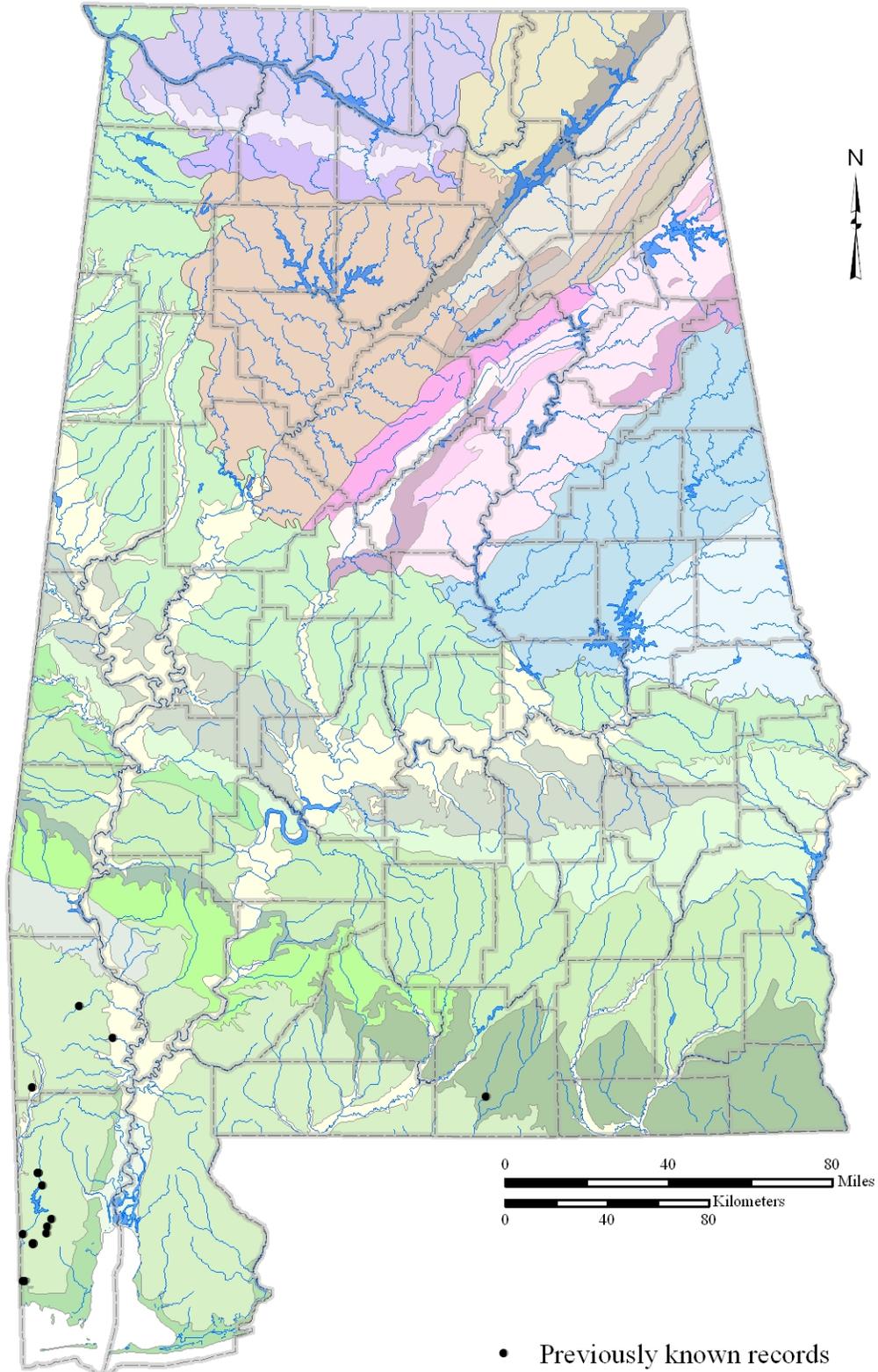
Red Swamp Crayfish

Procambarus clarkii



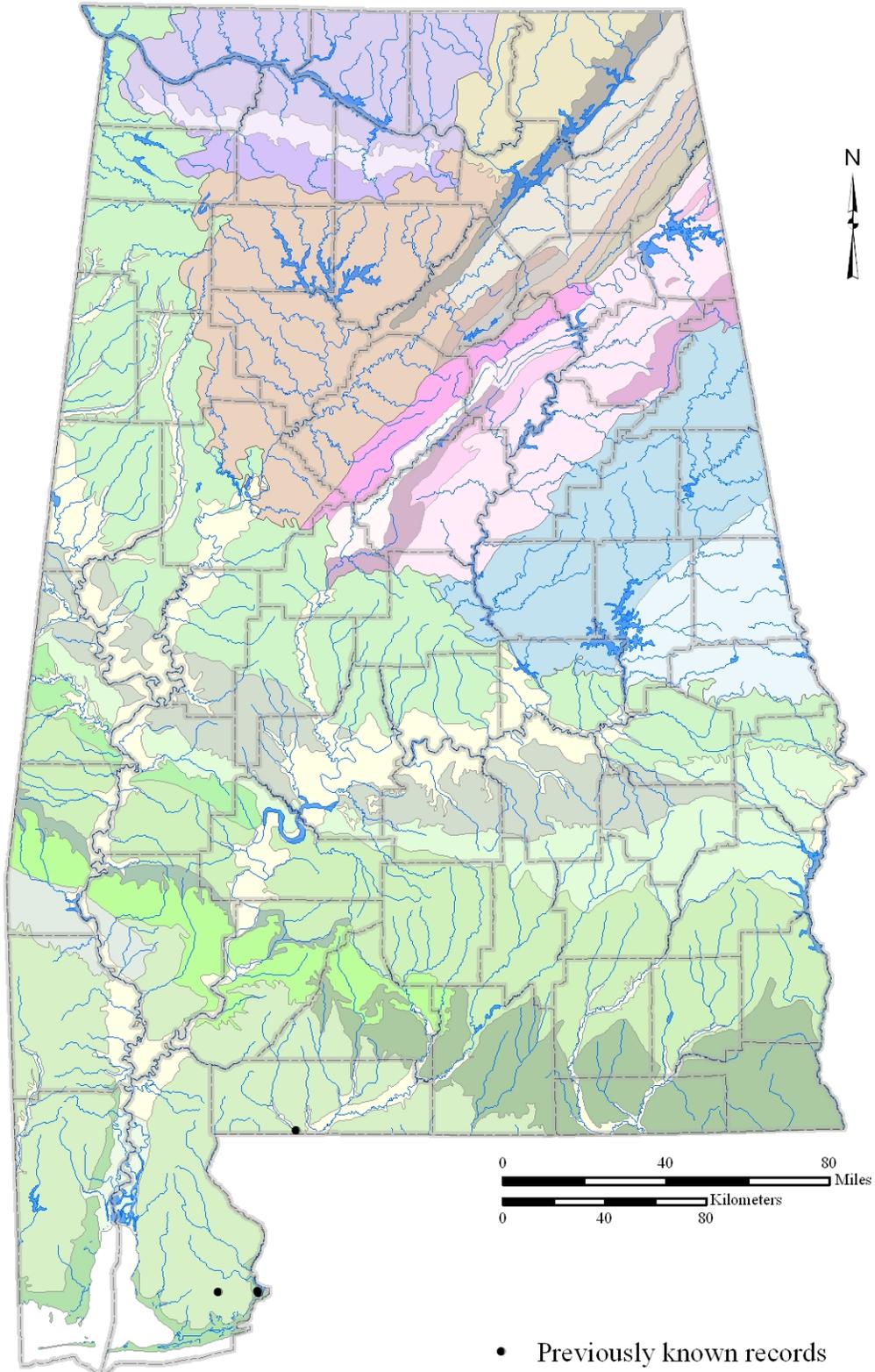
Cockscomb Crayfish

Procambarus clemmeri



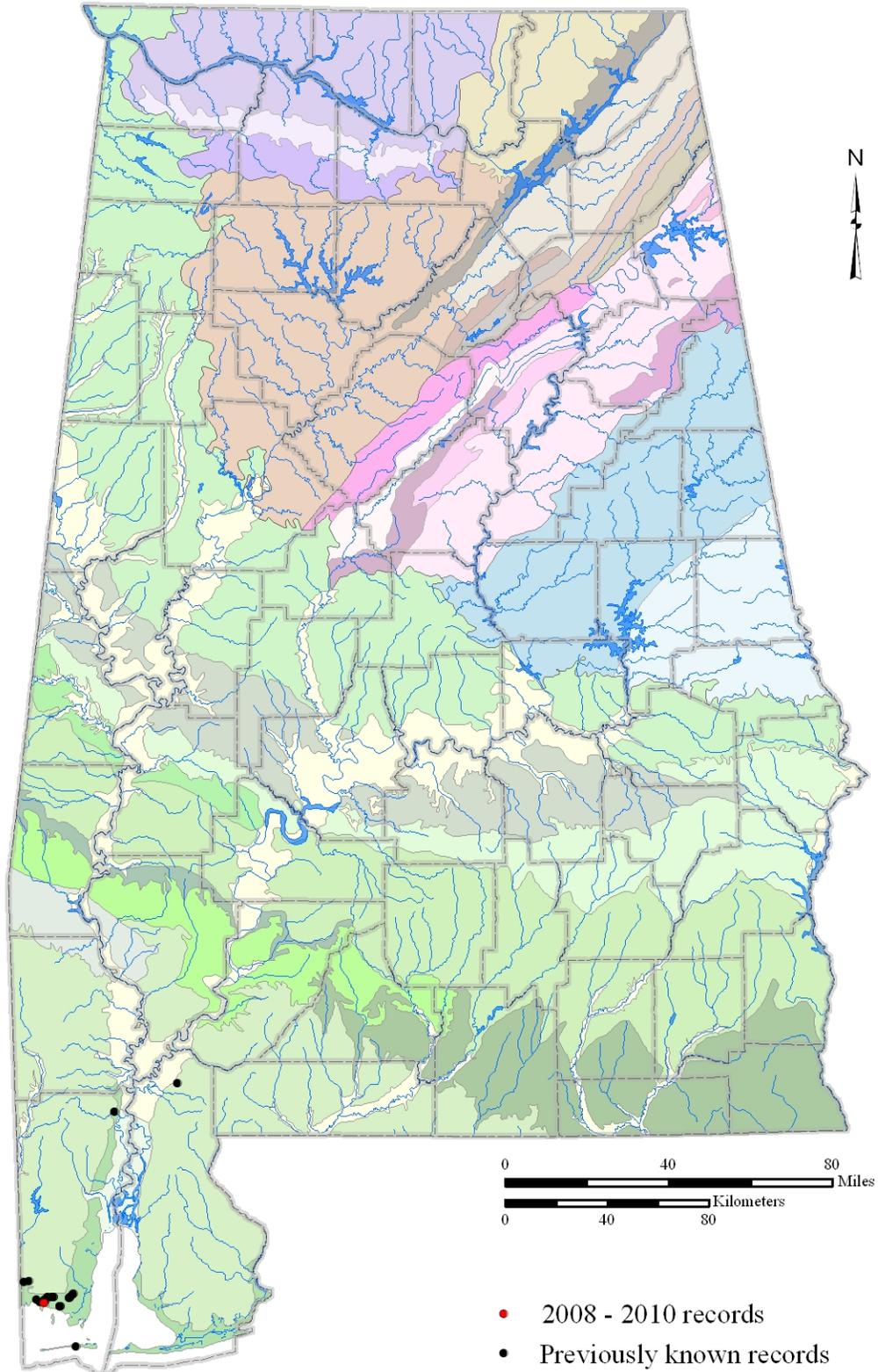
Escambia Crayfish

Procambarus escambiensis



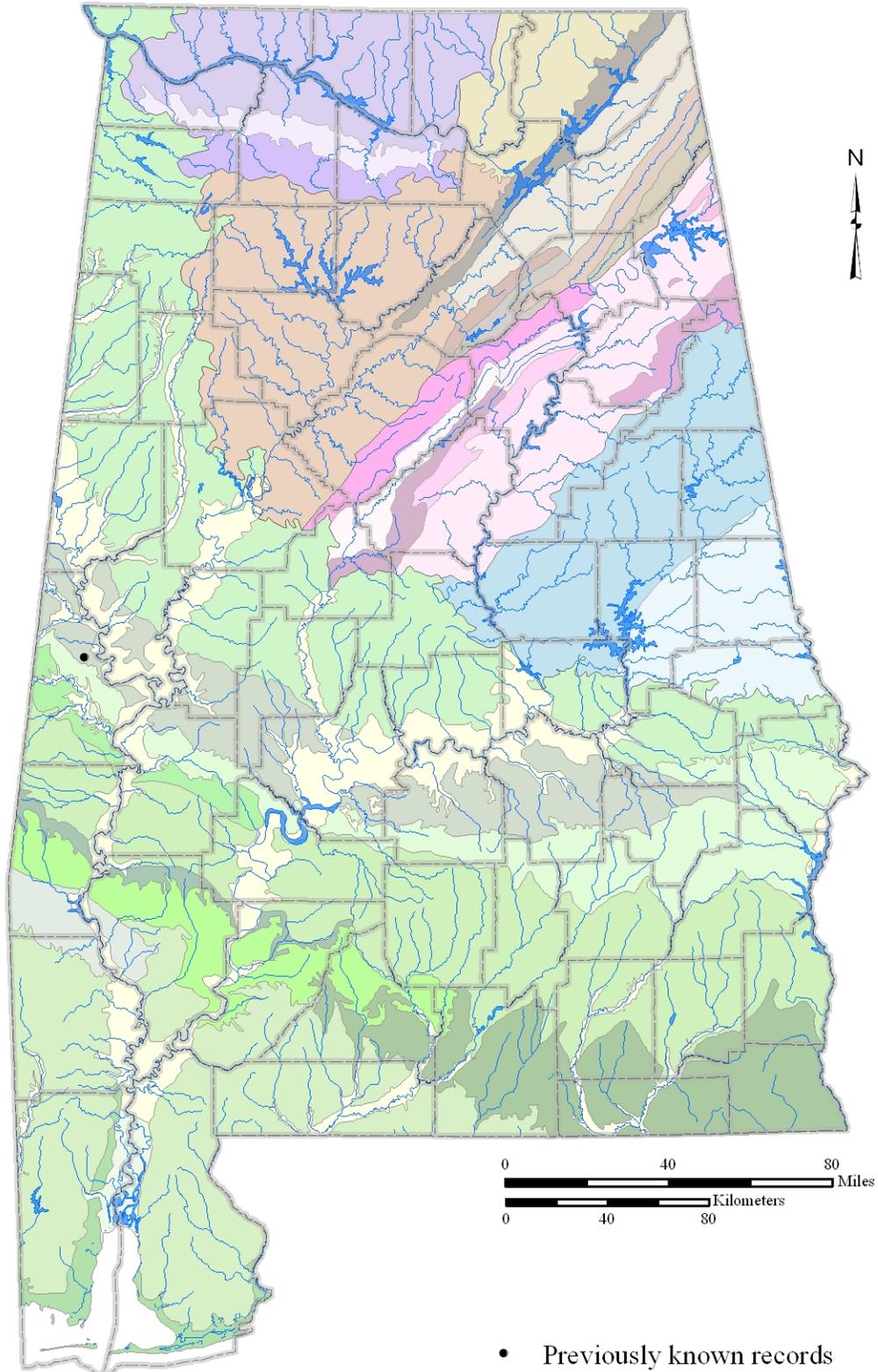
Panhandle Crayfish

Procambarus evermanni



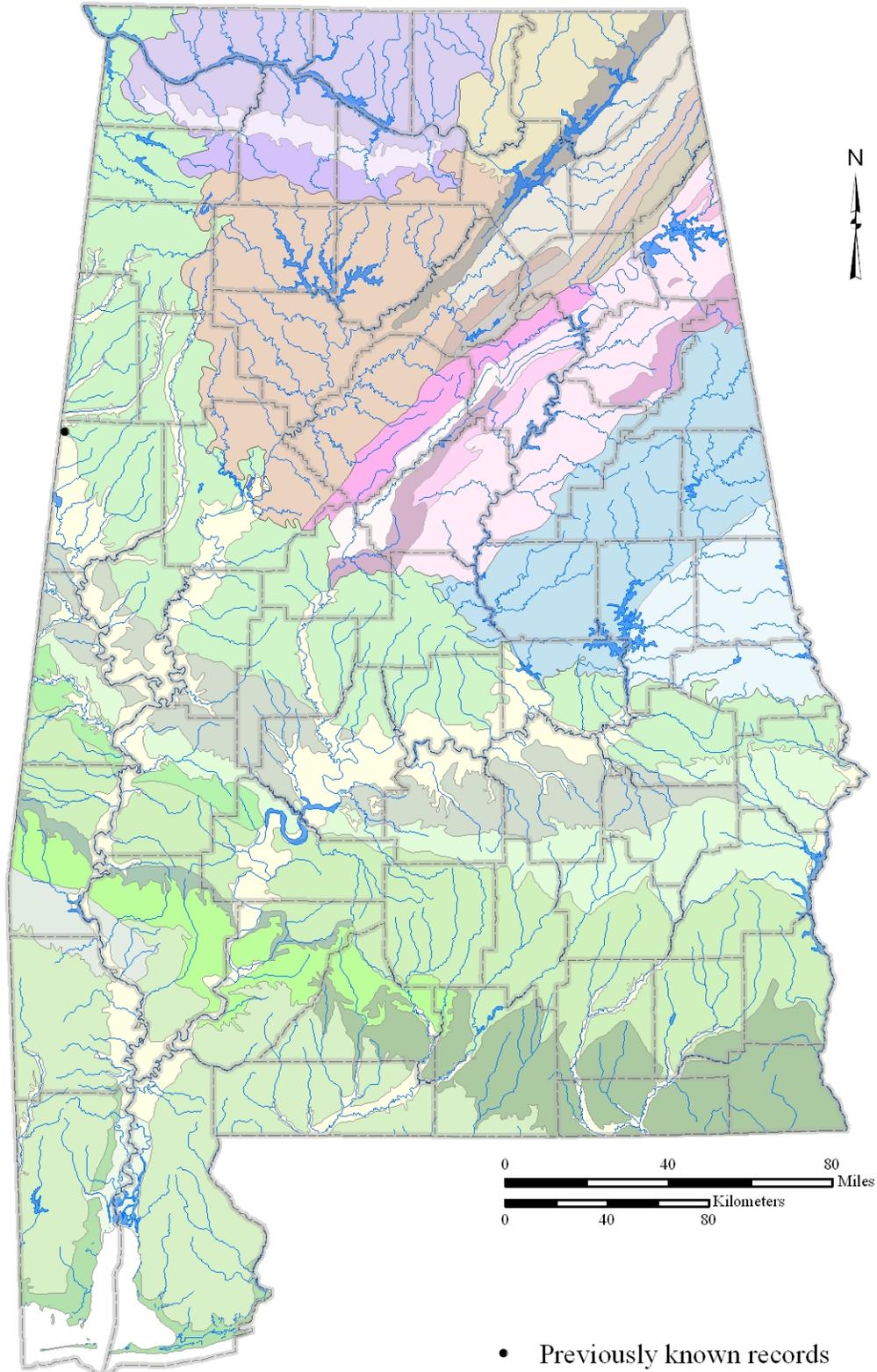
Southern Prairie Crayfish

Procambarus hagenianus hagenianus



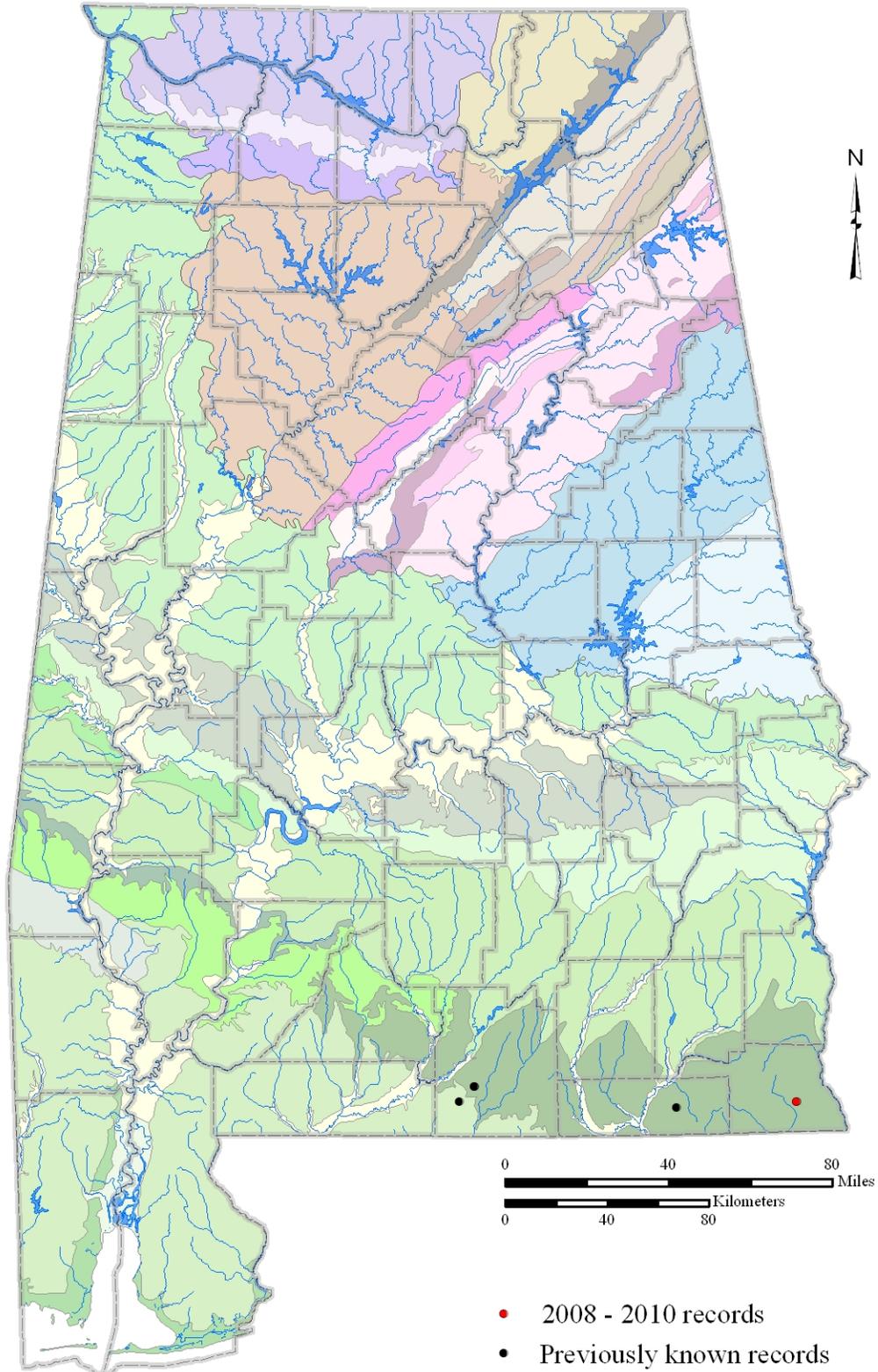
Straightedge Crayfish

Procambarus hayi



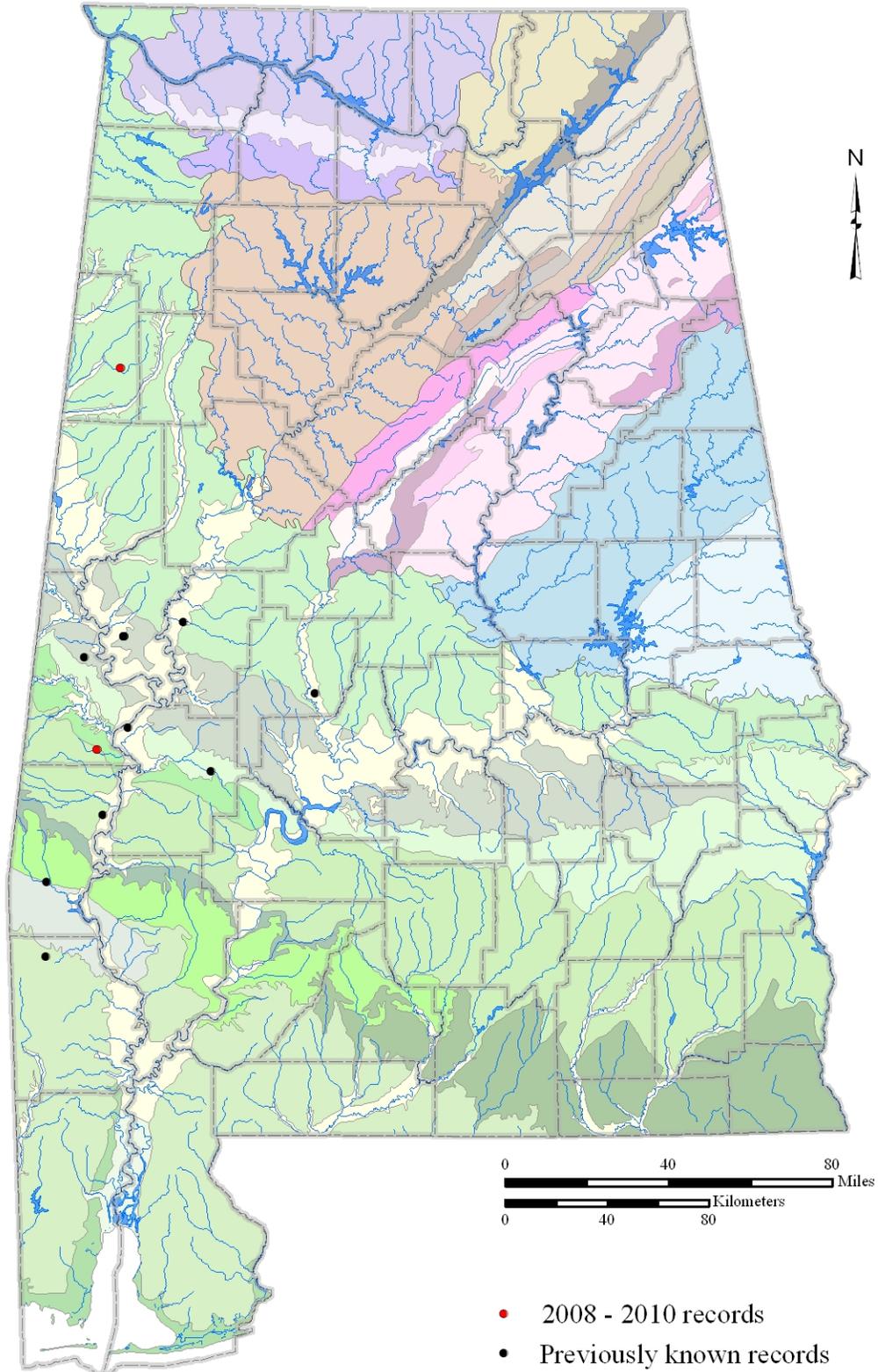
Jackknife Crayfish

Procambarus hubbelli



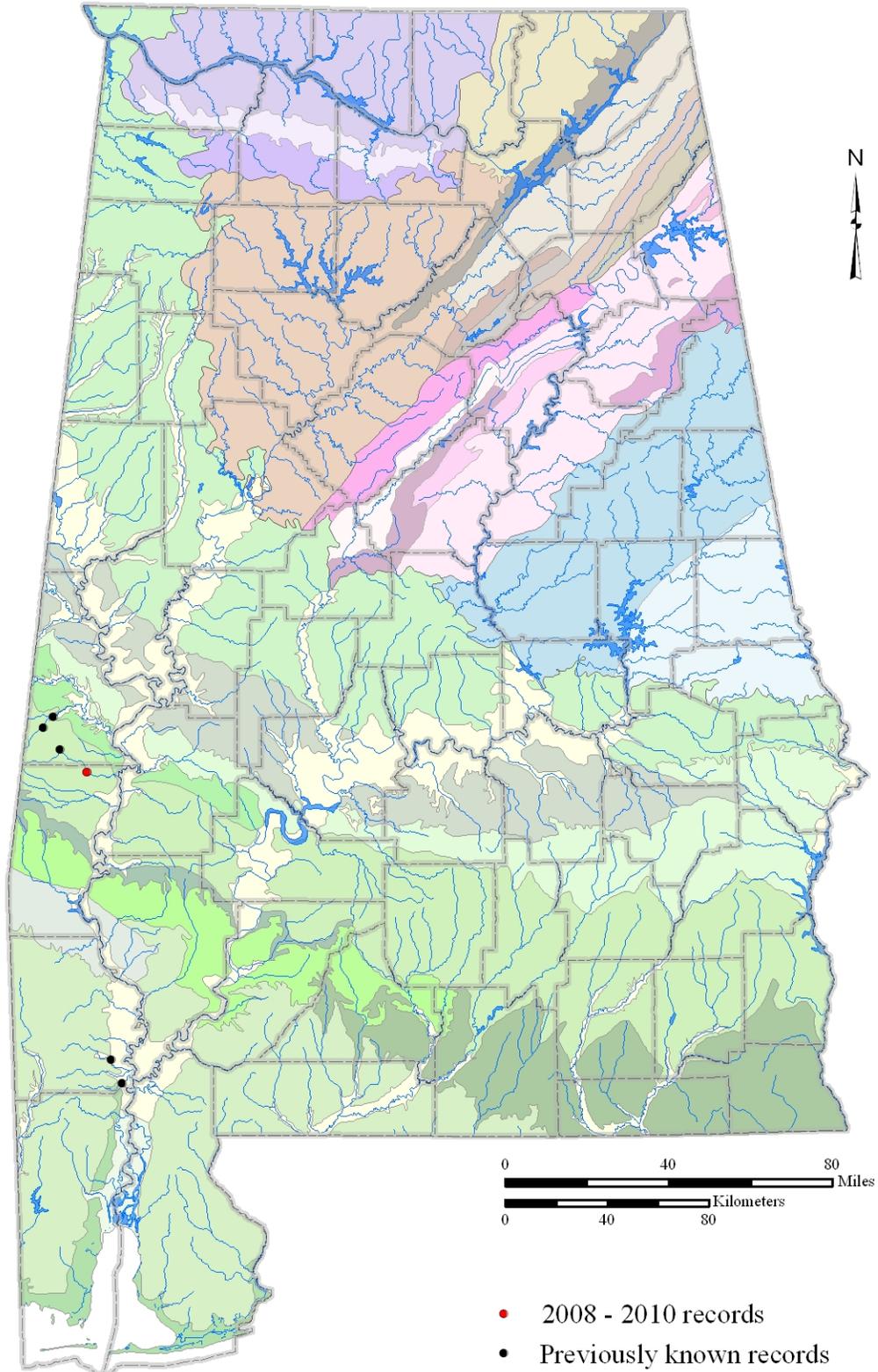
Smoothnose Crayfish

Procambarus hybus



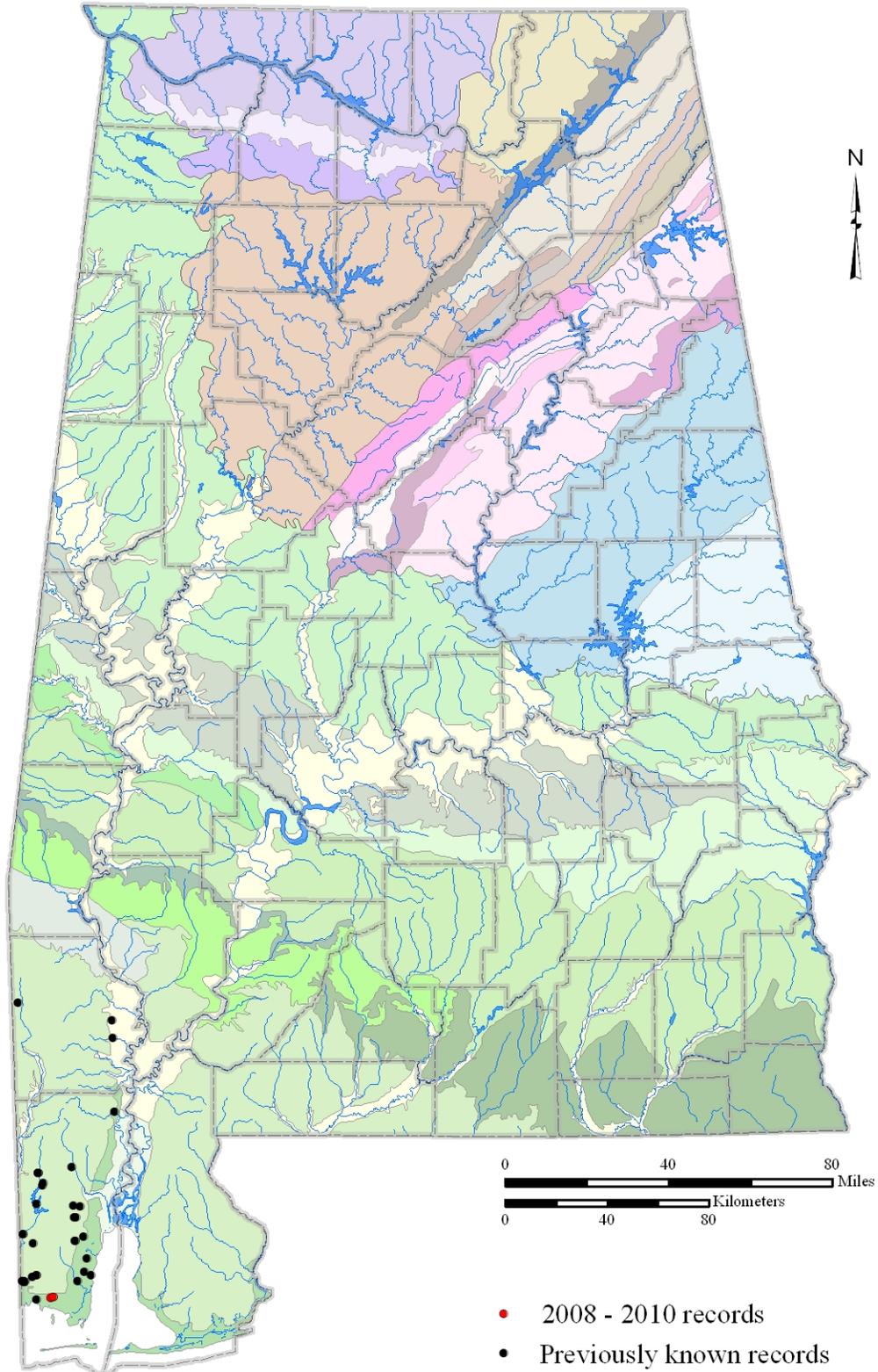
Lagniappe Crayfish

Procambarus lagniappe



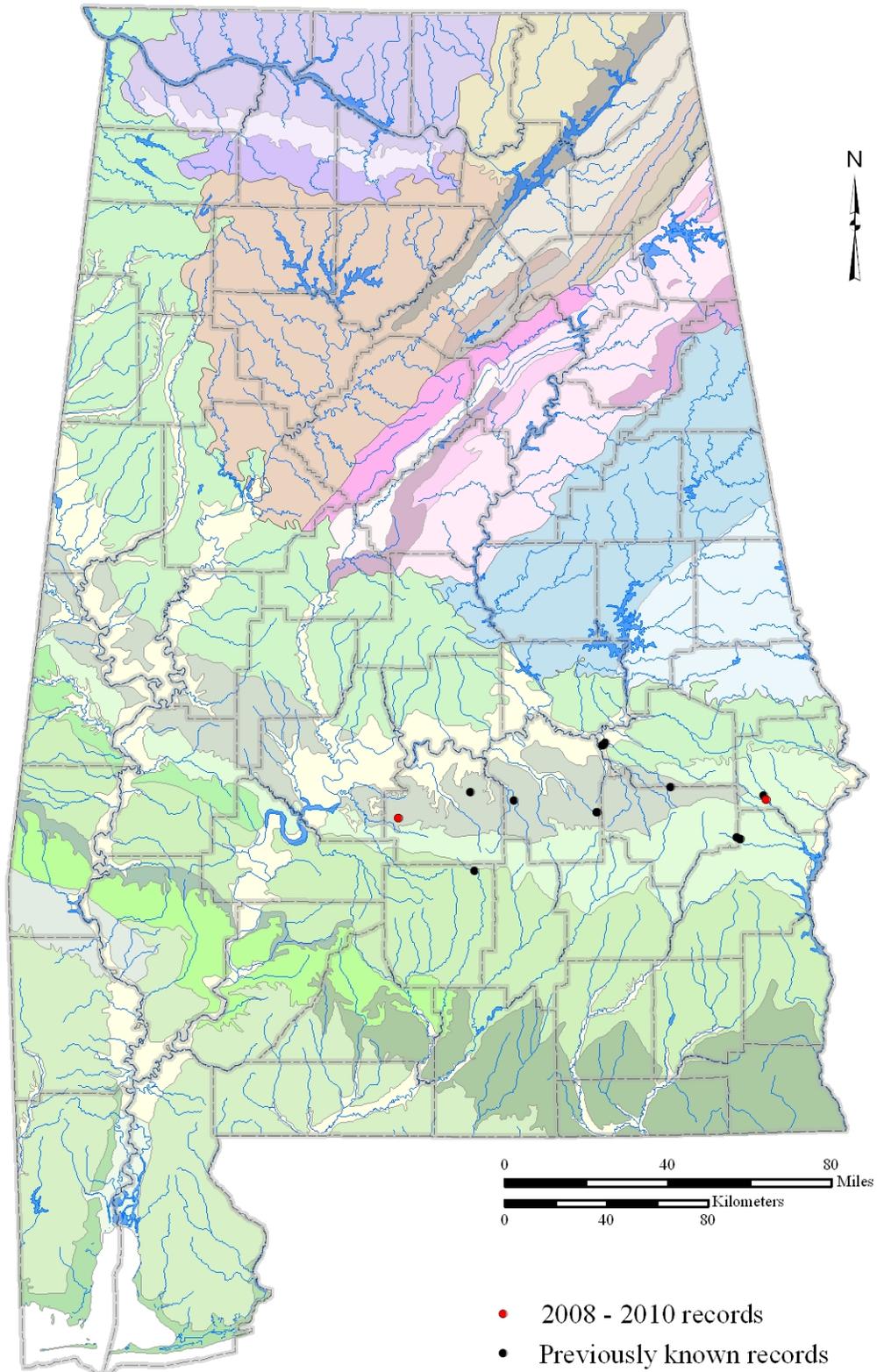
Mobile Crayfish

Procambarus lecontei



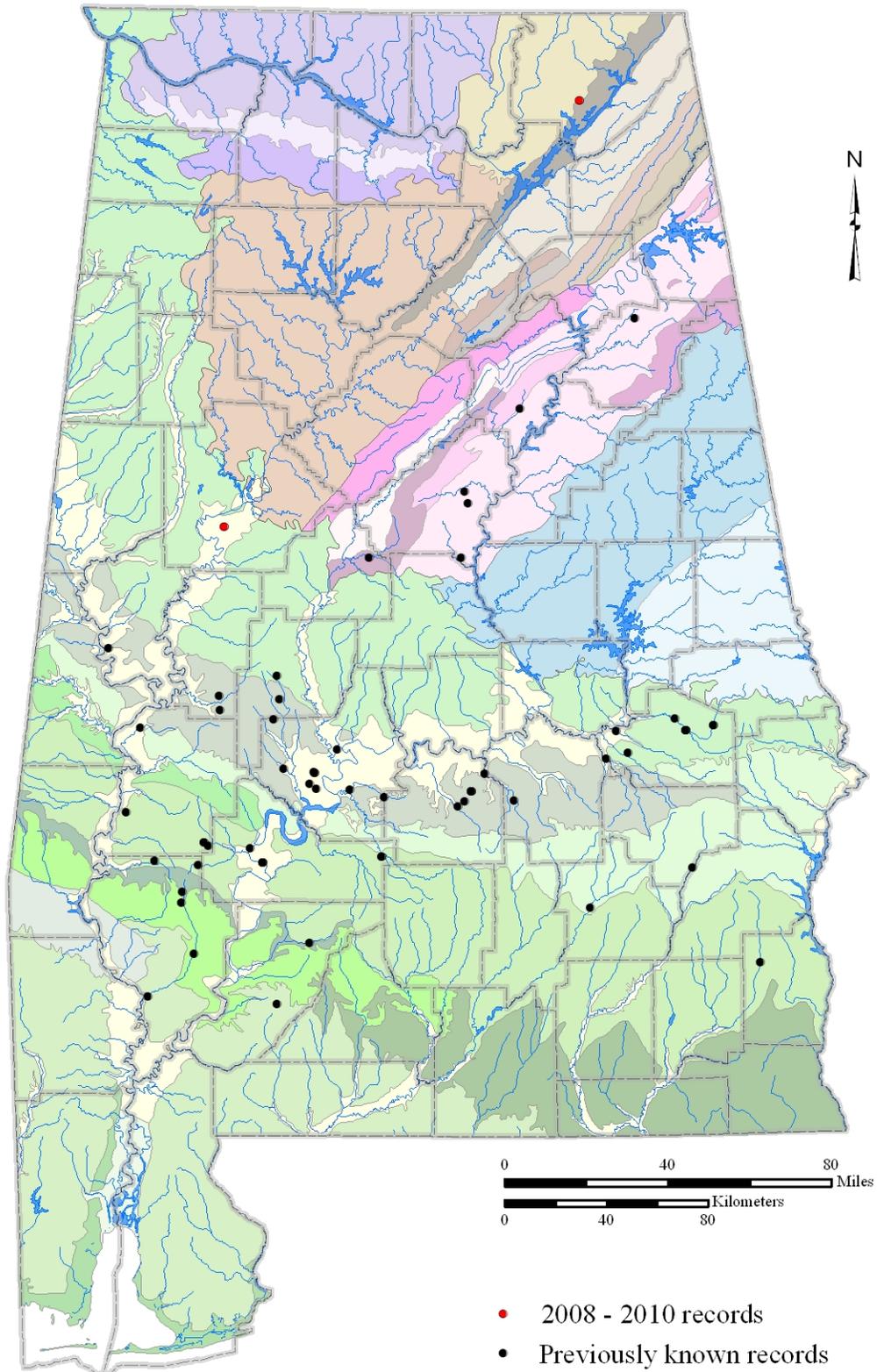
Spur Crayfish

Procambarus lewisi



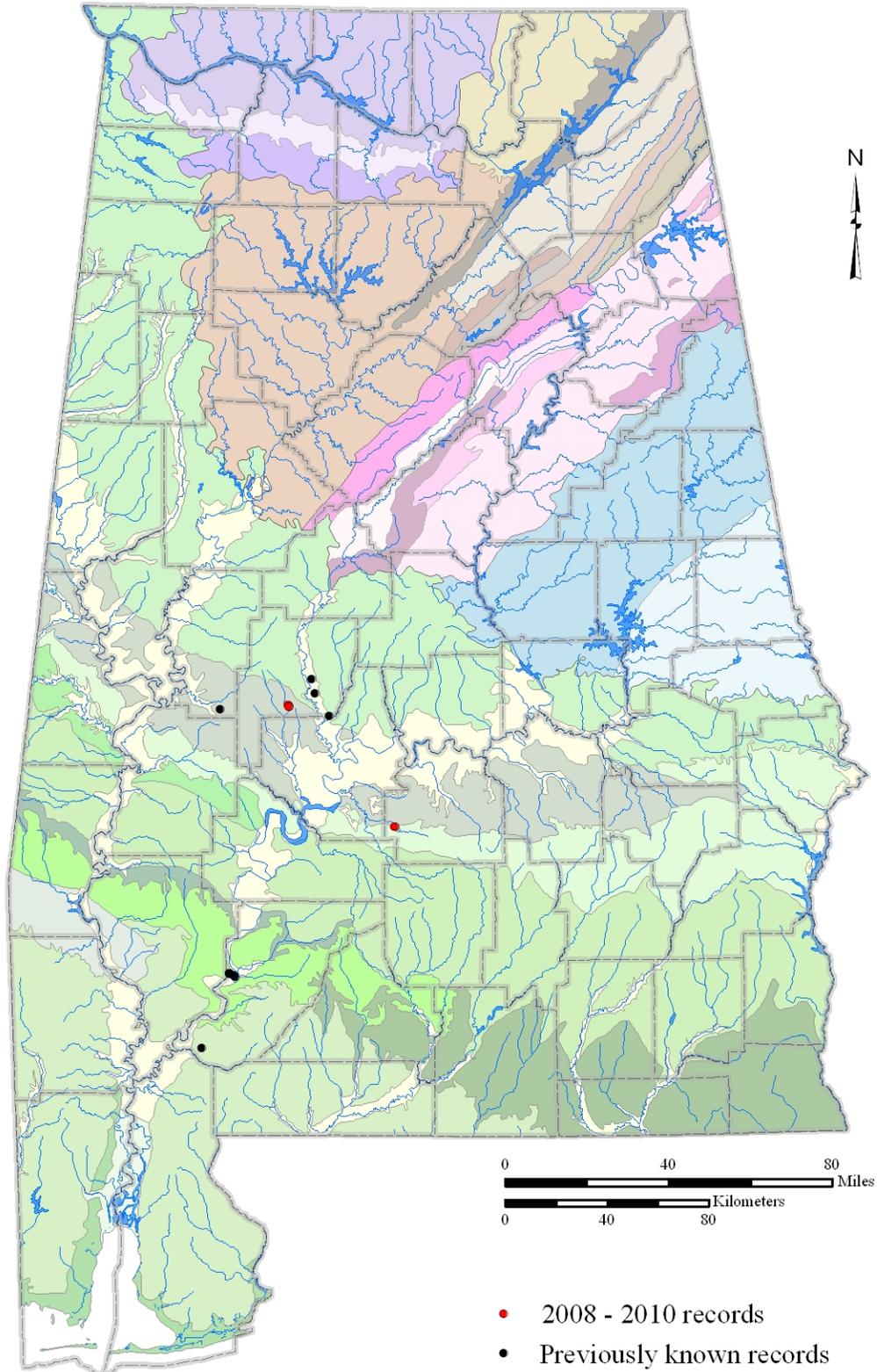
Mane Crayfish

Procambarus lophotus



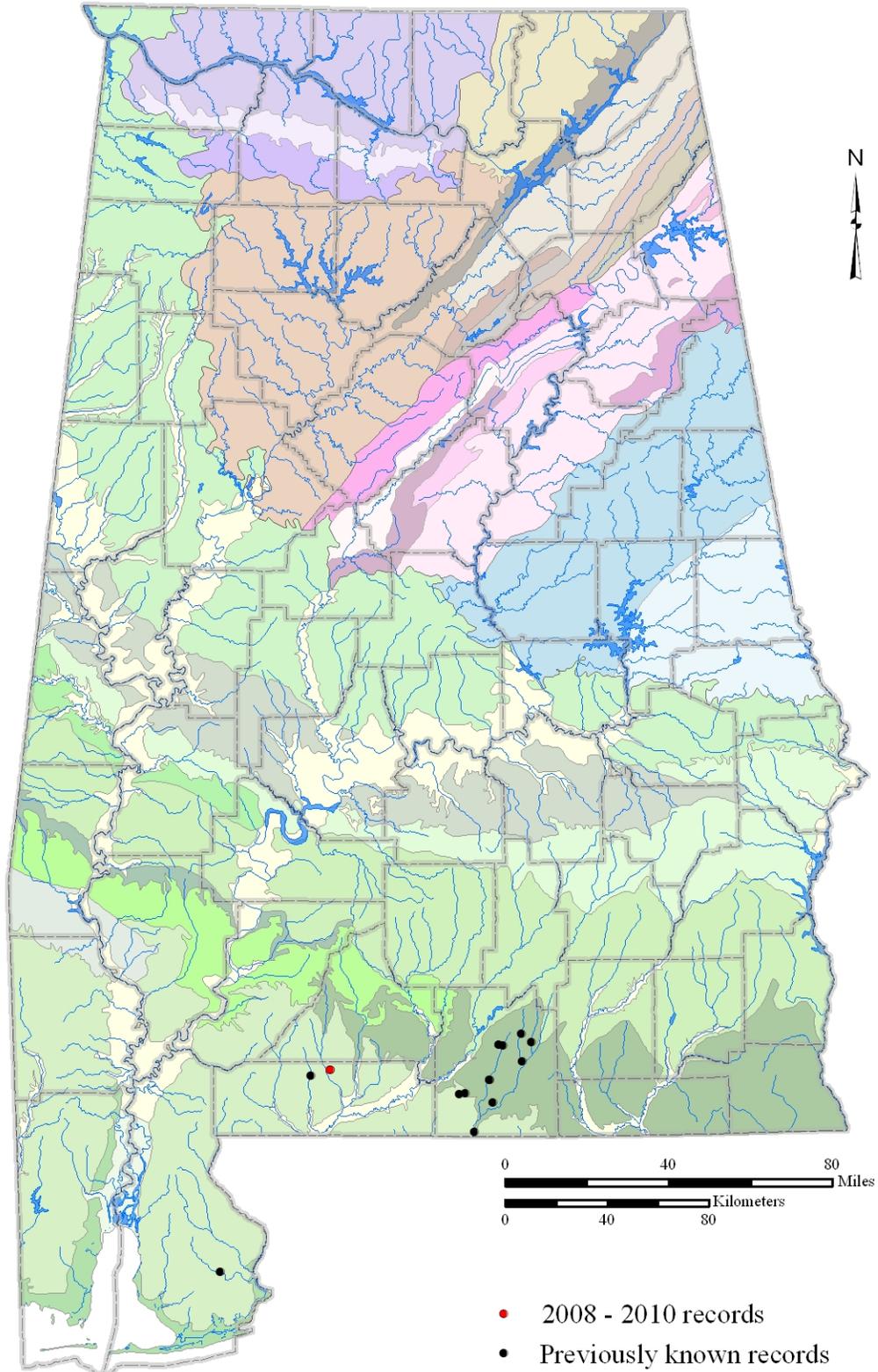
Crisscross Crayfish

Procambarus marthae



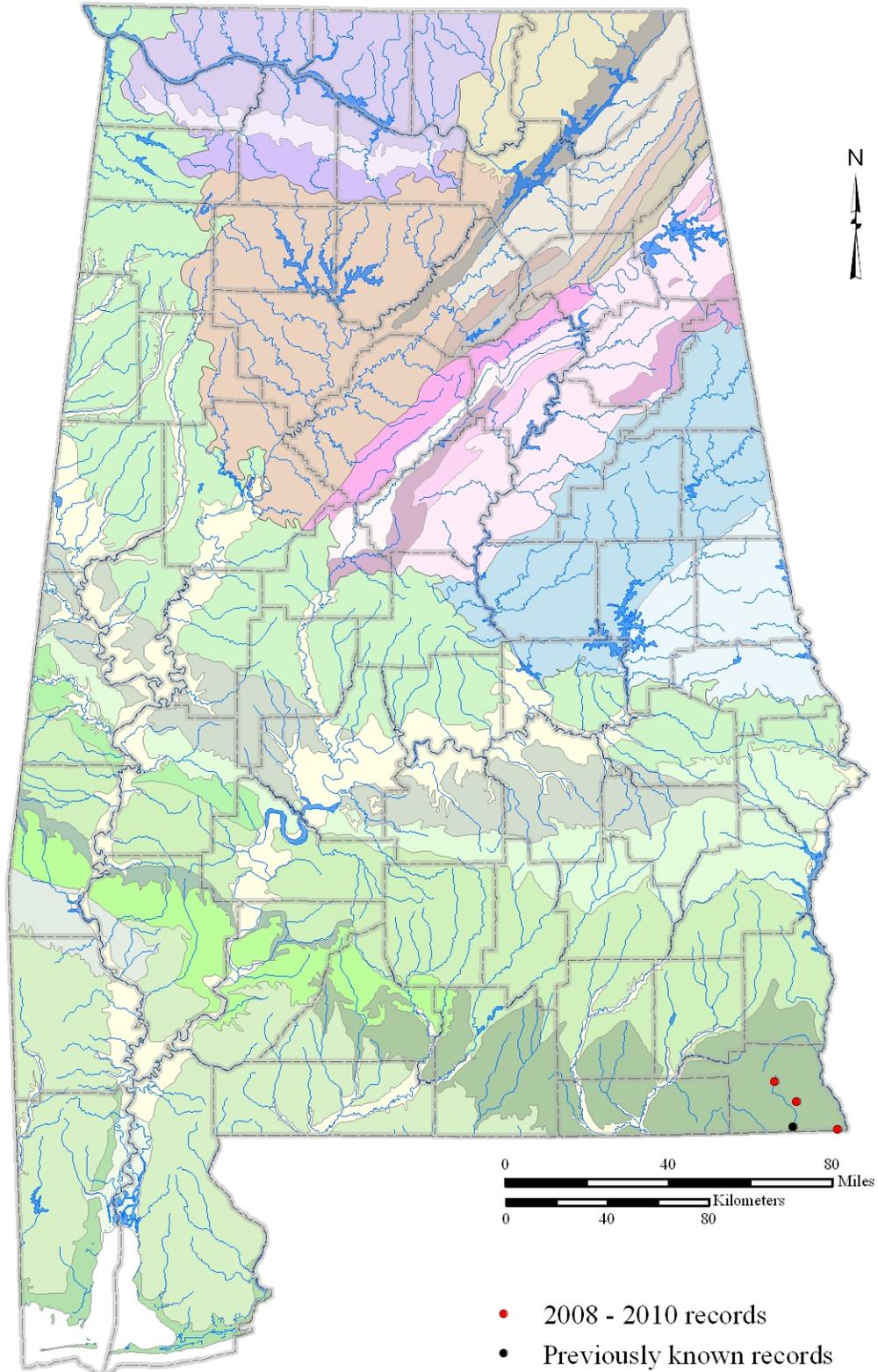
Okaloosa Crayfish

Procambarus okaloosae



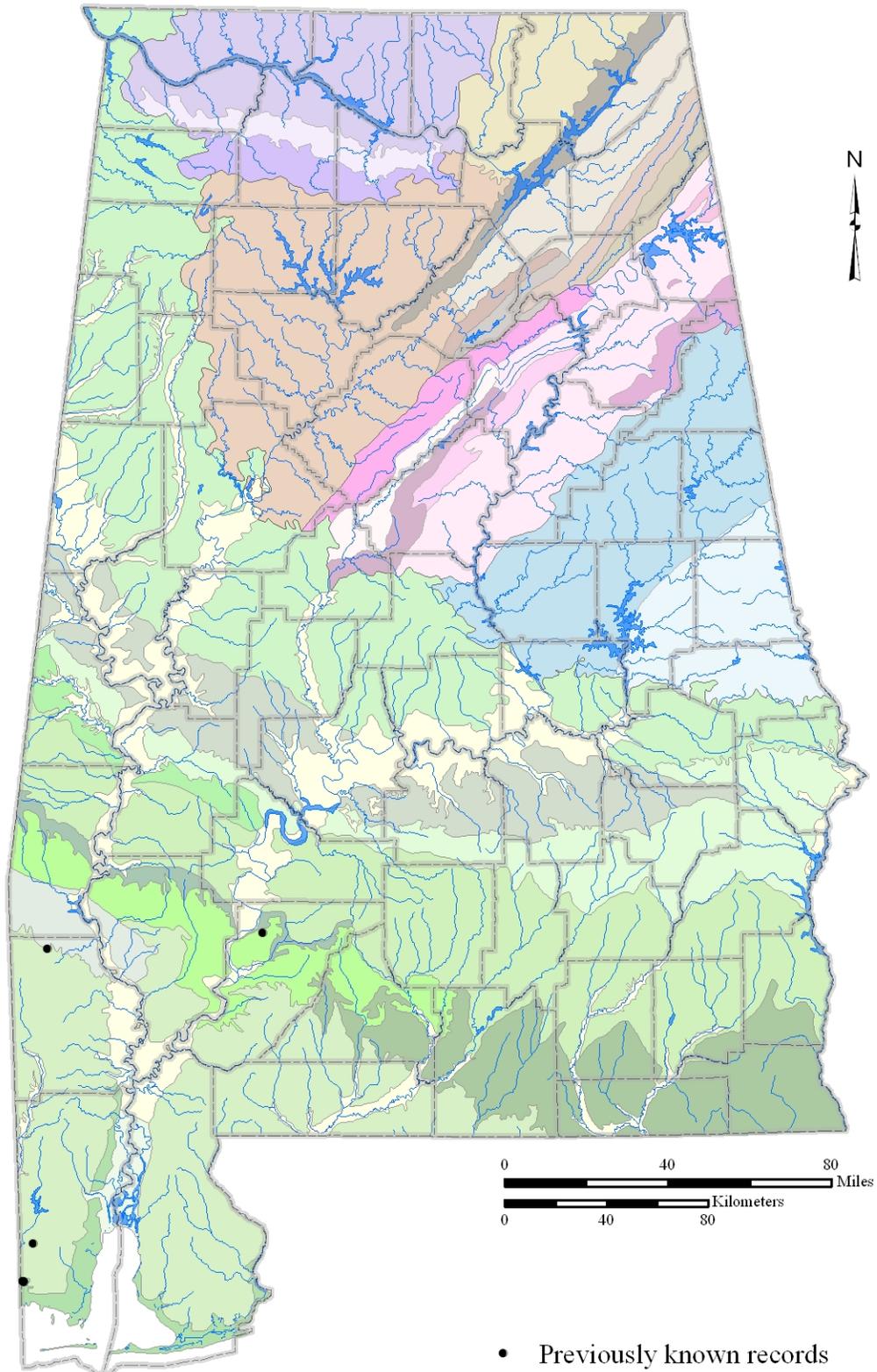
Peninsula Crayfish

Procambarus paeninsulanus



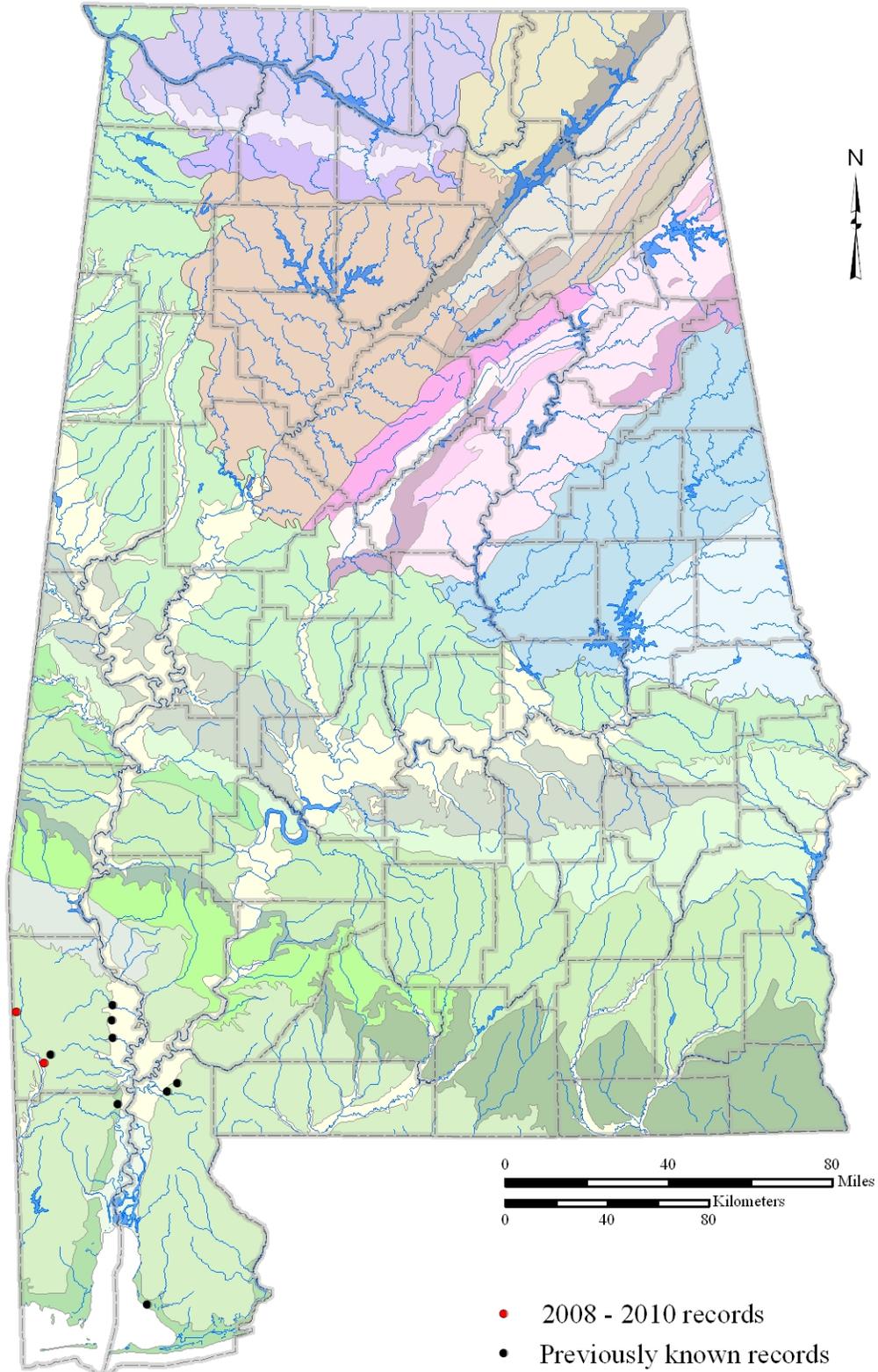
Pearl Blackwater Crayfish

Procambarus penni



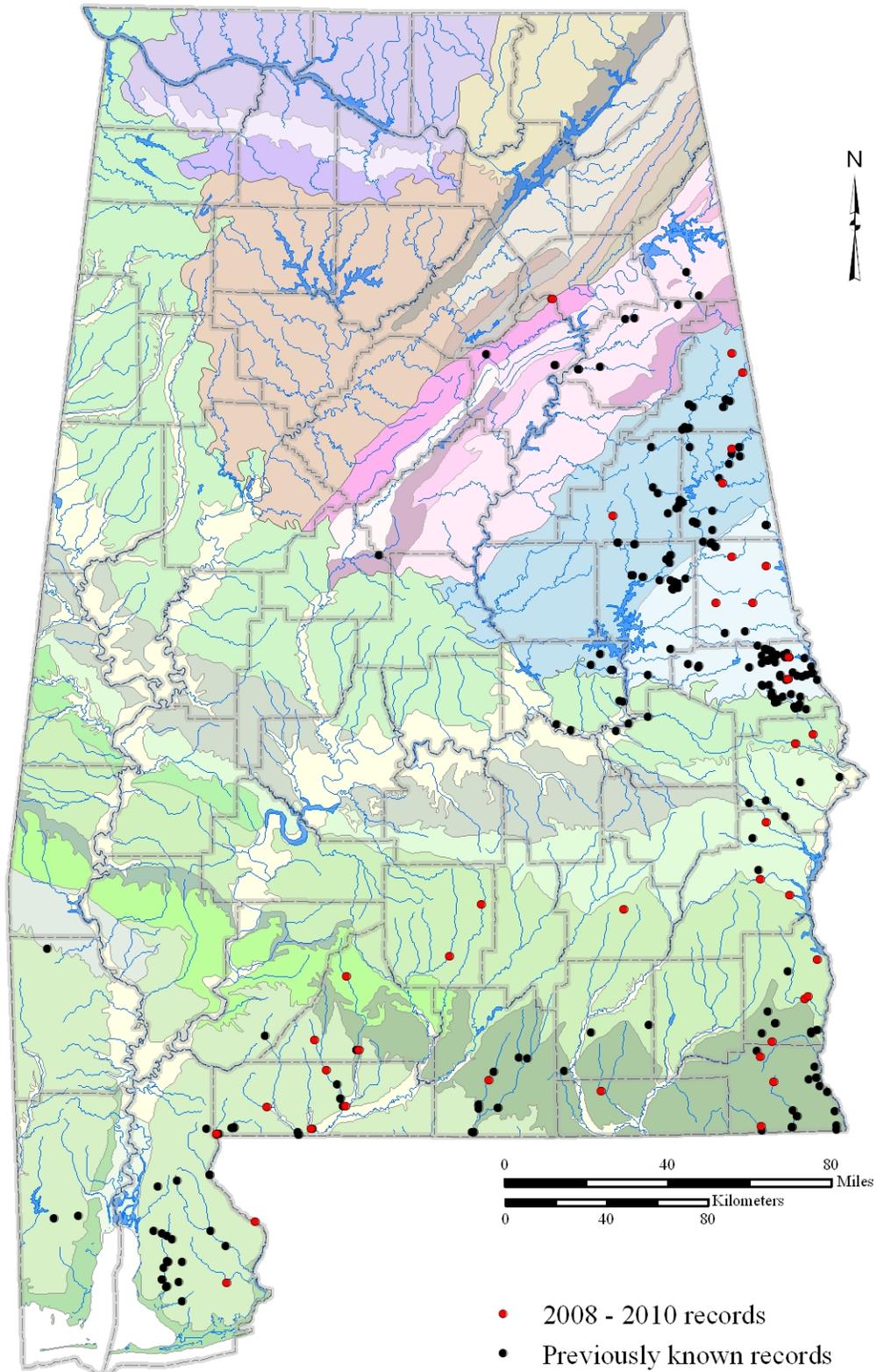
Gulf Crayfish

Procambarus shermani



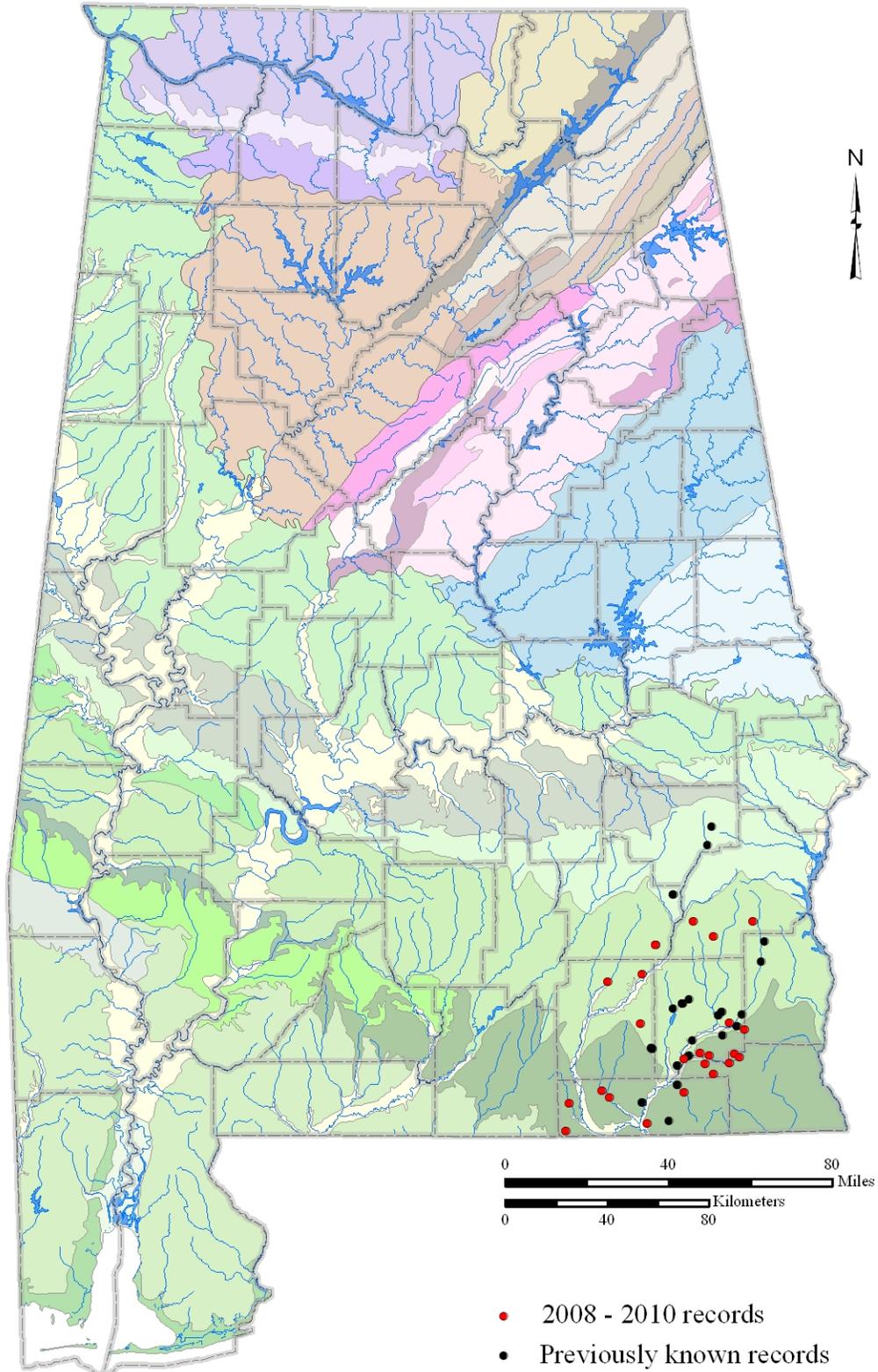
White Tubercled Crayfish

Procambarus spiculifer



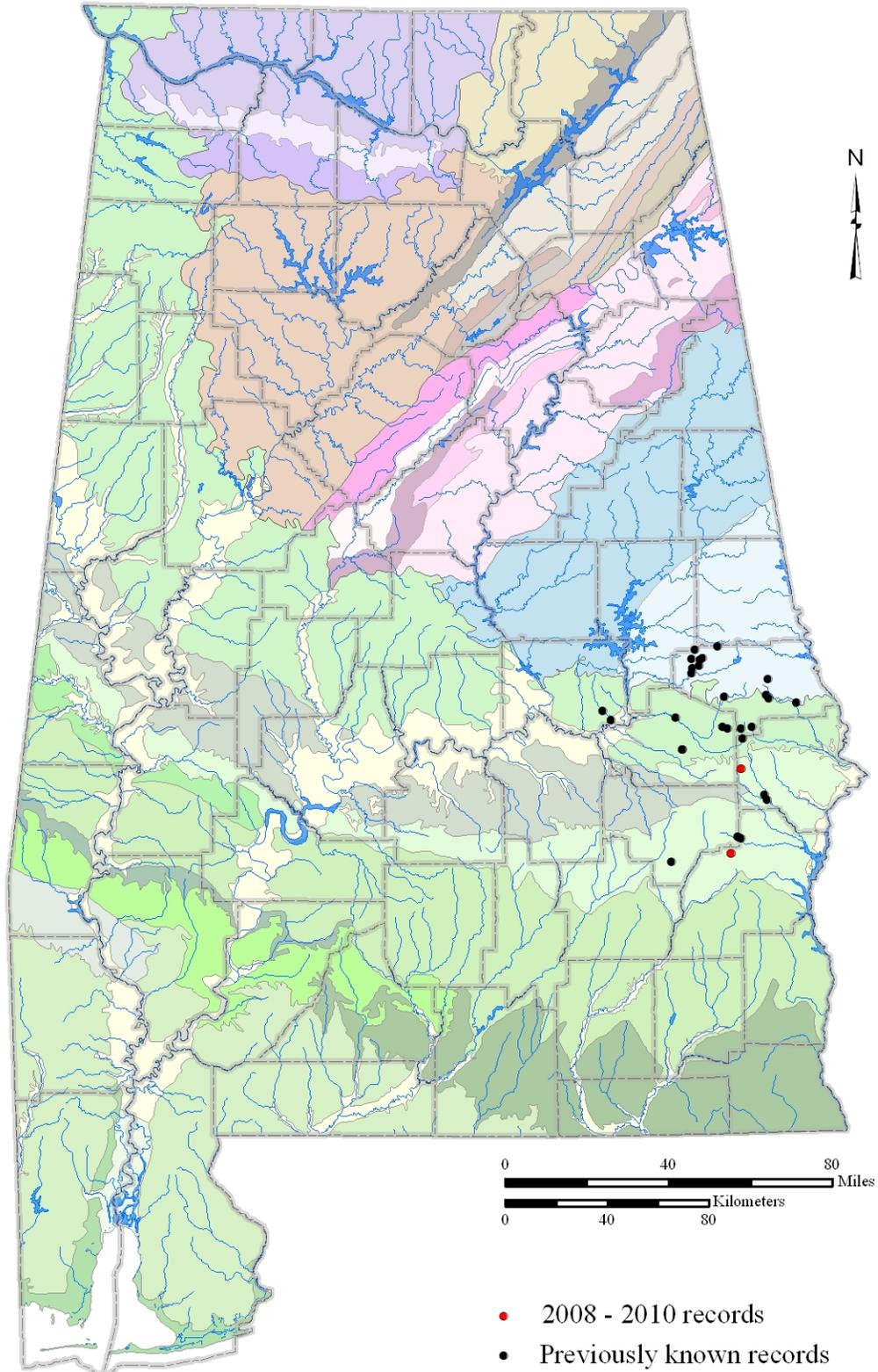
Choctawhatchee Crayfish

Procambarus suttkusi



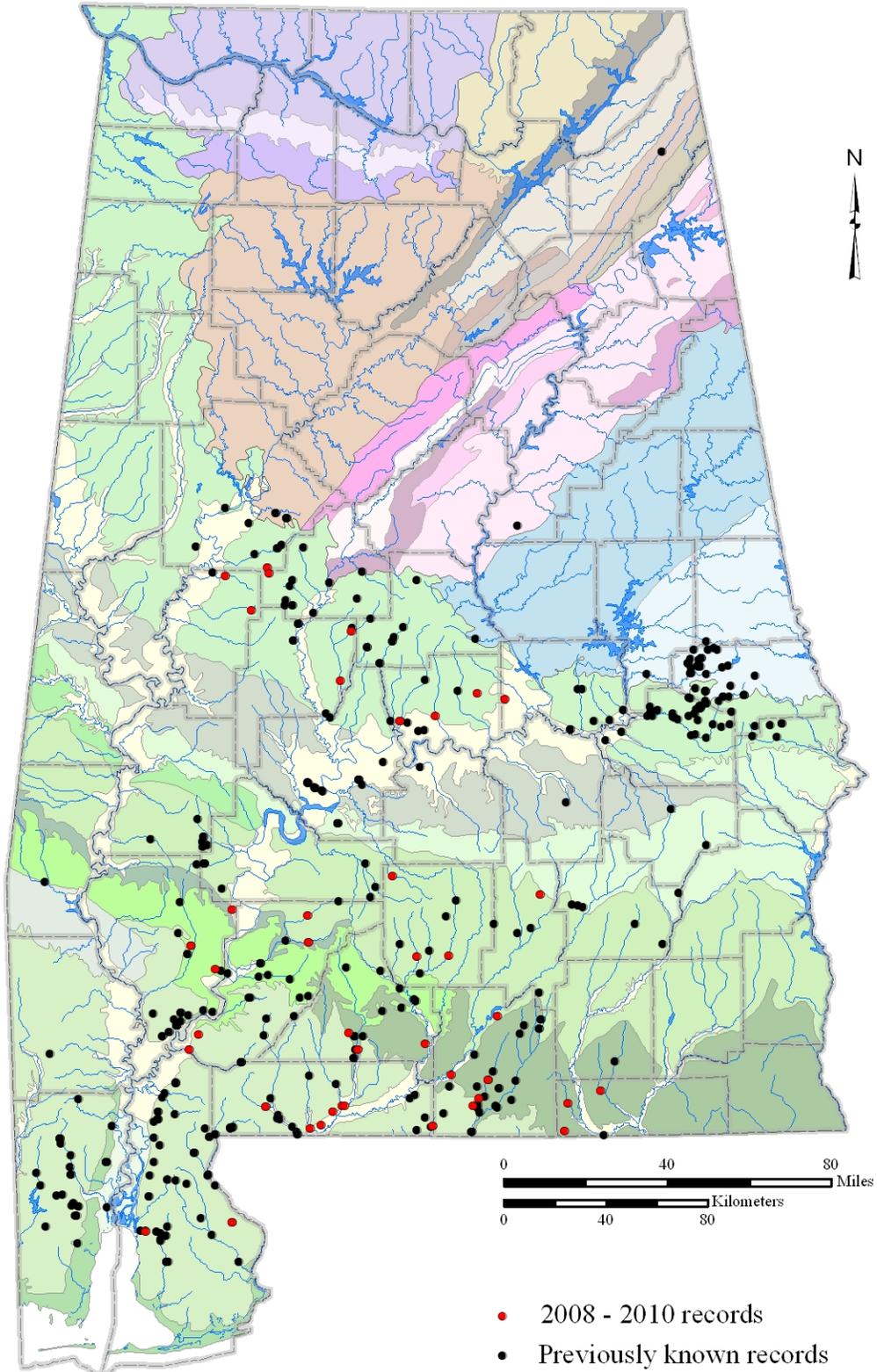
Grainy Crayfish

Procambarus verrucosus



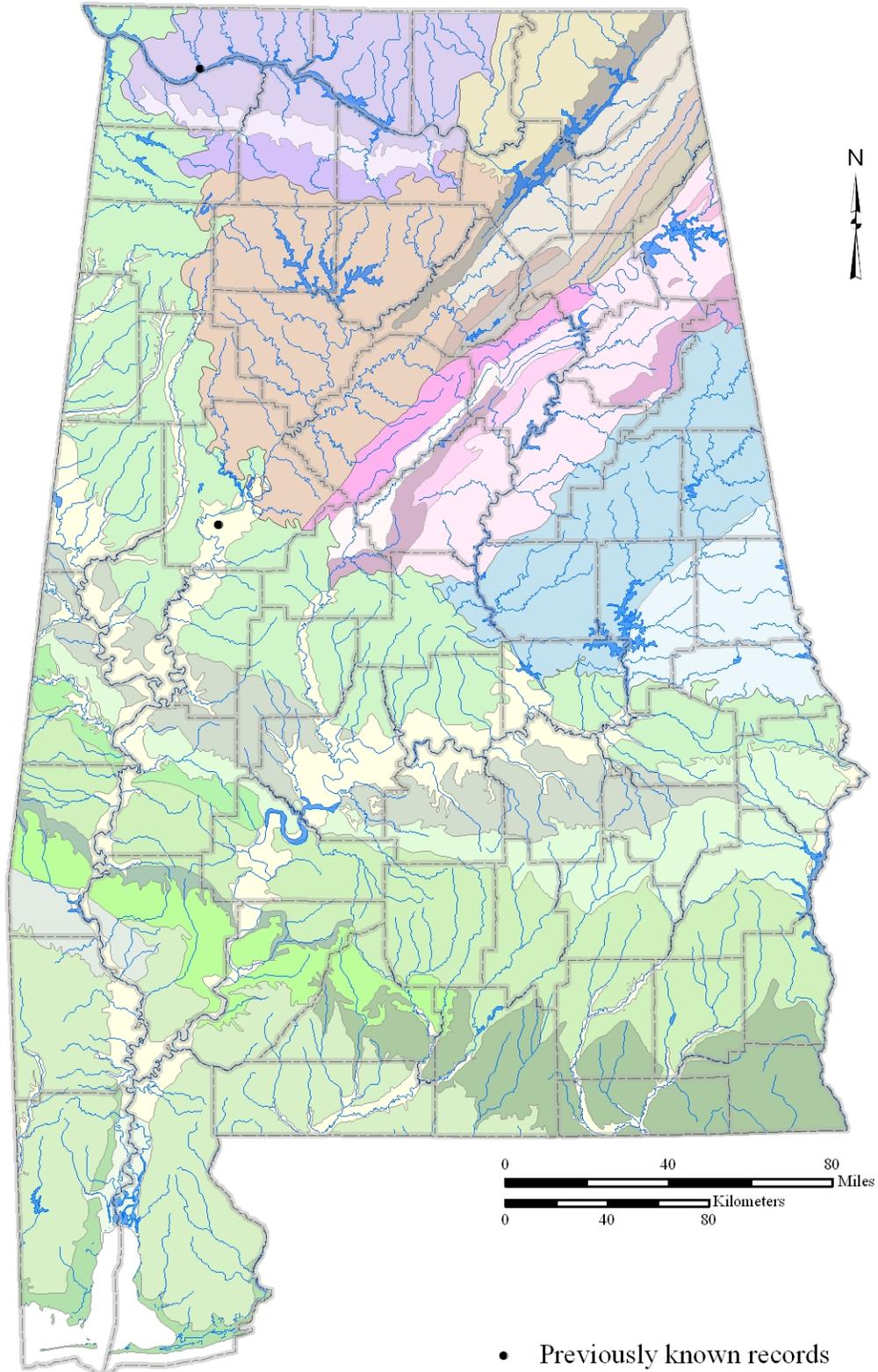
Sly Crayfish

Procambarus versutus



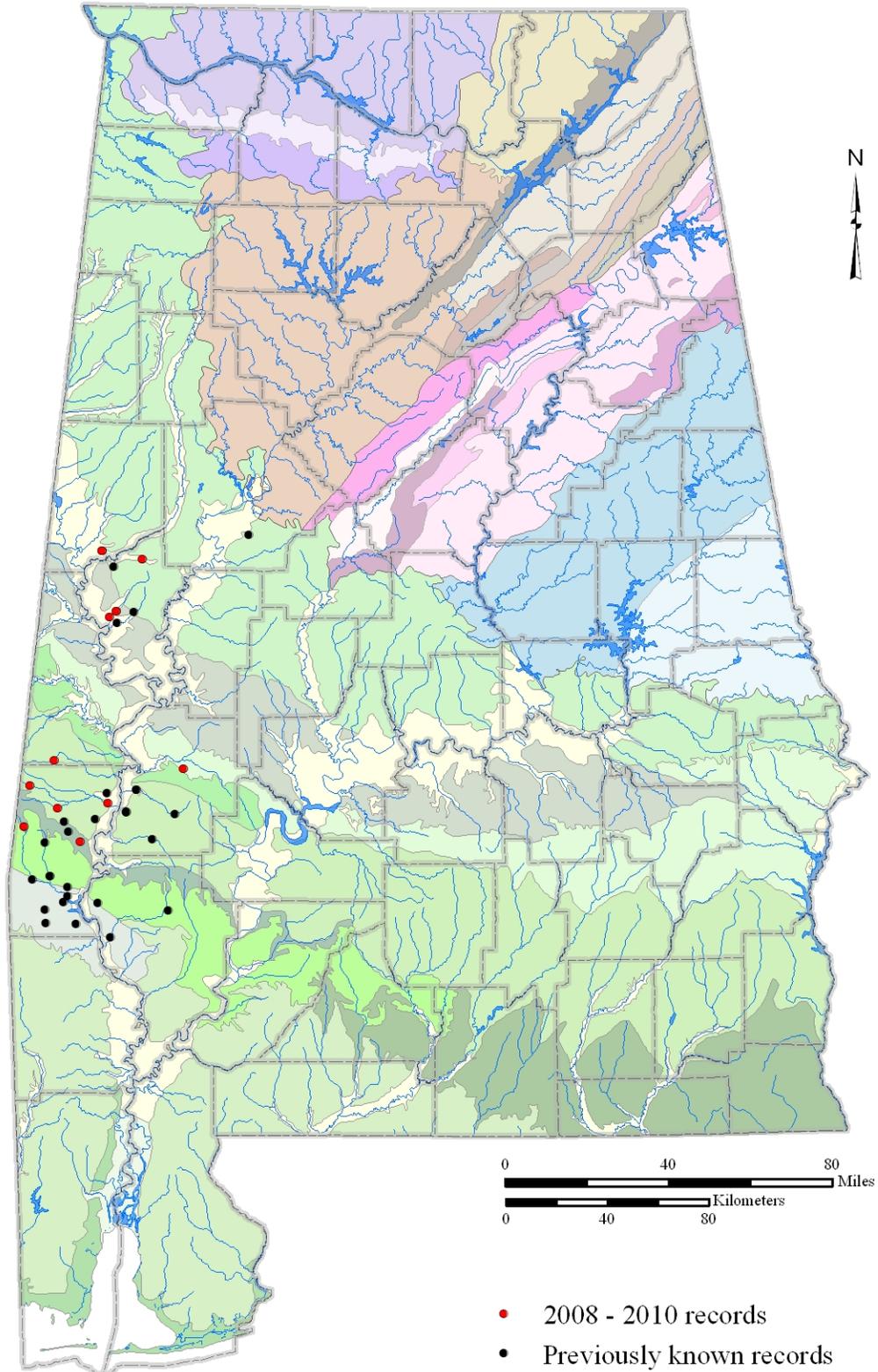
Vernal Crayfish

Procambarus viaeviridis



Payne's Creek Crayfish

Procambarus vioscai paynei



Appendix C

Comparisons between selected historical and recent collections in Alabama

North River at Jenkins Cemetery, Fayette Co., sec. 29, T. 15 S., R. 10 W., 33.7168° N, 87.6053° W

7/21/1973	<i>Cambarus obstipus</i>	Sloped Crayfish	USMN 145533
	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145532
8/18/1973	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145519
9/12/1973	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 208561
9/15/1973	<i>Cambarus latimanus</i>	Variable Crayfish	USMN 145544
	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145541
	<i>Cambarus striatus</i>	Ambiguous Crayfish	USMN 145543
	<i>Orconectes validus</i>	Powerful Crayfish	USMN 145542
10/13/1973	<i>Cambarus latimanus</i>	Variable Crayfish	USMN 145528
	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145527
	<i>Orconectes validus</i>	Powerful Crayfish	USMN 145529
11/10/1973	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145511
	<i>Orconectes</i> sp.		USMN 145512
1/5/1974	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145557
	<i>Cambarus striatus</i>	Ambiguous Crayfish	USMN 145558
3/2/1974	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145560
	<i>Cambarus obstipus</i>	Sloped Crayfish	USMN 145569
	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145570
	<i>Cambarus striatus</i>	Ambiguous Crayfish	USMN 145568
3/31/1974	<i>Procambarus</i> sp.		USMN 145666
4/29/1974	<i>Cambarus latimanus</i>	Variable Crayfish	USMN 145658
	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145660
	<i>Procambarus</i> sp.		USMN 145659
6/3/1974	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 145665
8/7/2009	<i>Cambarus obstipus</i>	Sloped Crayfish	JBS 090807-1
	<i>Orconectes perfectus</i>	Complete Crayfish	JBS 090807-1

Moody Swamp near Tuscaloosa, Tuscaloosa Co., sec. 4, T. 22 S., R. 10 W., 33.1628° N, 87.5834° W

unknown	<i>Fallicambarus</i> sp.		TUMNH 216
unknown	<i>Procambarus viaeviridis</i>	Vernal Crayfish	TUMNH 783
unknown	<i>Procambarus viaeviridis</i>	Vernal Crayfish	TUMNH 783
1/16/2008	<i>Procambarus clarkii</i>	Red Swamp Crayfish	JBS 080109-6
	<i>Cambarus diogenes</i>	Devil Crayfish	JBS 080109-6
	<i>Procambarus lophotus</i>	Mane Crayfish	JBS 080109-6
2/27/2008	<i>Procambarus acutus</i>	White River Crayfish	JBS 080213-2
	<i>Procambarus clarkii</i>	Red Swamp Crayfish	JBS 080213-2
	<i>Cambarus diogenes</i>	Devil Crayfish	JBS 080213-2

Hurricane Cr. at Brookwood Middle School Rd, Tuscaloosa Co., sec. 17, T. 21 S., R. 7 W., 33.2102° N, 87.2941° W

7/6/1984	<i>Cambarus obstipus</i>	Sloped Crayfish	TUMNH 218
8/6/1984	<i>Cambarus striatus</i>	Ambiguous Crayfish	UADC 89.01
11/19/1985	<i>Cambarus latimanus</i>	Variable Crayfish	UADC 95.01
12/10/1990	<i>Cambarus obstipus</i>	Sloped Crayfish	UADC 92.01
4/8/2009	<i>Cambarus diogenes</i>	Devil Crayfish	JBS 090408-2
	<i>Cambarus obstipus</i>	Sloped Crayfish	JBS 090408-2
	<i>Orconectes validus</i>	Powerful Crayfish	JBS 090408-2

Jones Creek at Ala. Hwy. 39, Sumter Co., sec. 22, T. 20 N., R. 2 W., 32.6906° N, 88.1671° W

4/12/1974	<i>Procambarus acutissimus</i>	Sharpnose Crayfish	USMN 145342
	<i>Procambarus hagenianus</i>	Southern Prairie Crayfish	USMN 145345
	<i>Procambarus hybus</i>	Smoothnose Crayfish	USMN 145343
	<i>Orconectes</i> sp.		USMN 145344
	<i>Cambarus striatus</i>	Ambiguous Crayfish	USMN 145346
7/15/2010	<i>Orconectes holti</i>	Bimaculate Crayfish	JBS 100714-1
	<i>Cambarus striatus</i>	Ambiguous Crayfish	JBS 100714-1

Paint Rock River at Rocky Hollow Ford, Jackson Co., sec. 18, T. 3 S., R. 4 E., 34.7753° N, 86.2505° W

9/22/1968	<i>Orconectes forceps</i>	Surgeon Crayfish	USMN 132590
	<i>Cambarus</i> sp.		USMN 133573
	<i>Orconectes erichsonianus</i>	Reticulate Crayfish	USMN 132591
	<i>Cambarus striatus</i>	Ambiguous Crayfish	USMN 133436
10/23/2005	<i>Orconectes erichsonianus</i>	Reticulate Crayfish	EKU 011
	<i>Orconectes forceps</i>	Surgeon Crayfish	EKU 008
	<i>Cambarus rusticiformis</i>	Depression Crayfish	EKU 073
3/11/2009	<i>Orconectes forceps</i>	Surgeon Crayfish	JBS 090311-1
	<i>Cambarus rusticiformis</i>	Depression Crayfish	JBS 090311-1
	<i>Cambarus striatus</i>	Ambiguous Crayfish	JBS 090311-1
	<i>Cambarus tenebrosus</i>	Cavespring Crayfish	JBS 090311-1
10/21/2009	<i>Orconectes erichsonianus</i>	Reticulate Crayfish	JTG 091021-1
	<i>Orconectes forceps</i>	Surgeon Crayfish	JTG 091021-1
	<i>Cambarus rusticiformis</i>	Depression Crayfish	JTG 091021-1

Wacoochee Creek at Co. Hwy. 252, Lee Co., sec. 26, T. 19 N., R. 28 E., 32.6098° N, 85.2084° W

11/6/1970	<i>Cambarus latimanus</i>	Variable Crayfish	USMN 207434
	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	USMN 218474
8/13/1973	<i>Cambarus latimanus</i>	Variable Crayfish	USMN 145192
	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	USMN 145191
4/22/1995	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	TUMNH 709
6/3/2008	<i>Cambarus latimanus</i>	Variable Crayfish	JBS 080603-2
	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	JBS 080603-2

Halawakee Creek at Co. Hwy. 259, Lee Co., sec. 35, T. 20 N., R. 28 E., 32.6864° N, 85.2043° W

11/3/1970	<i>Cambarus howardi</i>	Chattahoochee Crayfish	USMN 145277
	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	USMN 145278
10/26/1971	<i>Cambarus howardi</i>	Chattahoochee Crayfish	USMN 144747
	<i>Cambarus latimanus</i>	Variable Crayfish	USMN 144748
	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	USMN 144746
11/2/1972	<i>Cambarus howardi</i>	Chattahoochee Crayfish	USMN 145247
	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	USMN 145246
5/15/1974	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	USMN 147370
6/3/2008	<i>Cambarus latimanus</i>	Variable Crayfish	JBS 080603-1
	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	JBS 080603-1
10/22/2009	<i>Cambarus howardi</i>	Chattahoochee Crayfish	TBF 091022-1

Irwin Mill Creek at Ala. Hwy. 95, Houston Co., sec. 17, T. 7 N., R. 8 W., 31.0053° N, 85.0408° W

7/17/1994	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	INHS 6126
7/5/2006	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	unknown
6/10/2008	<i>Procambarus paeninsulanus</i>	Peninsula Crayfish	JBS 080610-1

Five Runs Creek at unnumbered Co. Hwy., Covington Co., sec. 29, T. 3 N., R. 16 E., 31.1931° N, 86.4744° W

3/4/1992	<i>Procambarus okaloosae</i>	Okaloosa Crayfish	UADC 203.02
	<i>Procambarus okaloosae</i>	Okaloosa Crayfish	UADC 204.01
	<i>Procambarus versutus</i>	Sly Crayfish	UADC 203.01
6/18/2008	<i>Procambarus spiculifer</i>	White Tubercled Crayfish	GSA 2218
	<i>Procambarus versutus</i>	Sly Crayfish	GSA 2218

Big Swamp Creek at Ala. Hwy. 21, Lowndes Co., sec. 19, T. 14 N., R. 15 E., 32.1857° W, 86.5712° W

6/4/1940	<i>Procambarus lophotus</i>	Mane Crayfish	USMN 117226
8/15/1968	<i>Cambarus striatus</i>	Ambiguous Crayfish	USMN 208855
2/18/2009	<i>Procambarus acutus</i>	White River Crayfish	JBS 090205-1
	<i>Cambarus diogenes</i>	Devil Crayfish	JBS 090205-1
	<i>Cambarus striatus</i>	Ambiguous Crayfish	JBS 090205-1

Souwilpa Creek at Co. Hwy. 21, sec. 24, T. 10 N., R. 3 W., 31.8216° N, 88.2435° W

unknown	<i>Orconectes perfectus</i>	Complete Crayfish	TUMNH 448
unknown	<i>Procambarus vioscai</i>	Payne's Creek Crayfish	TUMNH 449
5/30/1984	<i>Orconectes perfectus</i>	Complete Crayfish	UADC 99.01
3/12/1991	<i>Cambarus striatus</i>	Ambiguous Crayfish	UADC 211.01
8/9/2008	<i>Orconectes jonesi</i>	Sucarnoochee River Crayfish	GSA 2321
	<i>Orconectes perfectus</i>	Complete Crayfish	GSA 2321

Okatuppa Creek at Co. Hwy. 14, sec. 13, T. 10 N., R. 3 W., 31.8403° N, 88.2281° W

10/18/1990	<i>Orconectes perfectus</i>	Complete Crayfish	UADC 188.01
	<i>Procambarus vioscai</i>	Payne's Creek Crayfish	UADC 187.01
1/22/2009	<i>Cambarus diogenes</i>	Devil Crayfish	JBS 090119-3
	<i>Cambarus striatus</i>	Ambiguous Crayfish	JBS 090119-3

Wahalak Creek at Ala. Hwy. 17, Choctaw Co., sec. 30, T. 13 N., R. 2 W., 32.0699° N, 88.2277° W

8/14/1968	<i>Orconectes perfectus</i>	Complete Crayfish	USMN 220341
	<i>Orconectes sp.</i>		USMN 207710
3/21/1972	<i>Procambarus vioscai</i>	Payne's Creek Crayfish	TUMNH 426
3/31/1972	<i>Orconectes perfectus</i>	Complete Crayfish	TUMNH 425
9/16/2010	<i>Orconectes jonesi</i>	Sucarnoochee River Crayfish	unknown
	<i>Orconectes perfectus</i>	Complete Crayfish	unknown
	<i>Procambarus sp.</i>		unknown

Okatuppa Creek Co. Hwy. 20, Choctaw Co., sec. 20, T. 13 N., R. 4 W., 32.0871° N, 88.4125° W

5/29/1984	<i>Orconectes jonesi</i>	Sucarnoochee River Crayfish	UADC 97.01
6/28/2010	<i>Orconectes jonesi</i>	Sucarnoochee River Crayfish	SWM 100628-4
	<i>Orconectes perfectus</i>	Complete Crayfish	SWM 100628-4
	<i>Procambarus sp.</i>		SWM 100628-4
	<i>Cambarus striatus</i>	Ambiguous Crayfish	SWM 100628-4
	<i>Procambarus vioscai</i>	Payne's Creek Crayfish	SWM 100628-4

Appendix D

Crayfish species lists by county in Alabama

Autauga

Cambarus diogenes Devil Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes jonesi Sucarnoochee River Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)

Baldwin

Cambarellus lesliei Angular Dwarf Crayfish (P3)
Cambarus diogenes Devil Crayfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus miltus Rusty Grave Digger (P3)
Fallicambarus burrisi Burrowing Bog Crayfish (P2)
Fallicambarus byersi Lavender Burrowing Crayfish (P2)
Fallicambarus danielae Speckled Burrowing Crayfish (P3)
Fallicambarus fodiens Digger Crayfish (P5)
Orconectes lancifer Shrimp Crayfish (P2)
Procambarus acutus White River Crayfish (P5)
Procambarus bivittatus Ribbon Crayfish (P3)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus escambiensis Escambia Crayfish (P2)
Procambarus evermanni Panhandle Crayfish (P2)
Procambarus lagniappe Lagniappe Crayfish (P2)
Procambarus okaloosae Okaloosa Crayfish (P2)
Procambarus shermani Gulf Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Barbour

Cambarus latimanus Variable Crayfish (P4)
Cambarus sp. (nr. *polychromatus*)
Cambarus striatus Ambiguous Crayfish (P5)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Procambarus lewisi Spur Crayfish (P2)
Procambarus lophotus Mane Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus suttkusi Choctawhatchee Crayfish (P4)
Procambarus verrucosus Grainy Crayfish (P3)

Bibb

Cambarus coosae Coosa Crayfish (P4)
Cambarus diogenes Devil Crayfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes chickasawae Chickasaw Crayfish (P3)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crayfish (P5)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus lophotus Mane Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Blount

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus hamulatus Prickly Cave Crayfish (P3)
Cambarus latimanus Variable Crayfish (P4)
Cambarus obstipus Sloped Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes sp. M
Orconectes validus Powerful Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)

Bullock

Cambarus diogenes Devil Crayfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus polychromatus Paintedhand Mudbug (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus lewisi Spur Crayfish (P2)
Procambarus suttkusi Choctawhatchee Crayfish (P4)
Procambarus verrucosus Grainy Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)

Butler

Cambarus diogenes Devil Crayfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Procambarus acutus White River Crayfish (P5)
Procambarus lewisi Spur Crayfish (P2)
Procambarus okaloosae Okaloosa Crayfish (P2)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Calhoun

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus coosae Coosa Crayfish (P4)
Cambarus latimanus Variable Crayfish (P4)
Cambarus manningi Greensaddle Crayfish (P2)
Cambarus scotti Chattooga River Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crayfish (P5)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus lophotus Mane Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)

Chambers

Cambarus diogenes Devil Crayfish (P5)
Cambarus halli Slackwater Crayfish (P2)
Cambarus howardi Chattahoochee Crayfish (P3)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Cherokee

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus coosae Coosa Crayfish (P4)
Cambarus latimanus Variable Crayfish (P4)
Cambarus manningi Greensaddle Crayfish (P2)
Cambarus scotti Chattooga River Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus spiculifer White Tubercled Crayfish (P5)

Chilton

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus coosae Coosa Crayfish (P4)
Cambarus diogenes Devil Crayfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Hobbseus prominens Prominence Riverlet Crayfish (P2)
Orconectes chickasawae Chickasaw Crayfish (P3)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus versutus Sly Crayfish (P5)

Choctaw

Cambarus diogenes Devil Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Hobbseus prominens Prominence Riverlet Crayfish (P2)
Orconectes chickasawae Chickasaw Crayfish (P3)
Orconectes jonesi Sucarnoochee River Crayfish (P3)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus hybus Smoothnose Crayfish (P2)
Procambarus lagniappe Lagniappe Crayfish (P2)
Procambarus versutus Sly Crayfish (P5)
Procambarus vioscai Payne's Creek Crayfish (P3)

Clarke

Cambarus diogenes Devil Crayfish (P5)
Cambarus polychromatus Paintedhand Mudbug (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Hobbseus prominens Prominence Riverlet Crayfish (P2)
Orconectes chickasawae Chickasaw Crayfish (P3)
Orconectes holti Bimaculate Crayfish (P3)
Orconectes jonesi Sucarnoochee River Crayfish (P3)
Orconectes lancifer Shrimp Crayfish (P2)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus bivittatus Ribbon Crayfish (P3)
Procambarus clarkii Red Swamp Crawfish (P5)
Procambarus lophotus Mane Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)
Procambarus vioscai Payne's Creek Crayfish (P3)

Clay

Cambarus coosae Coosa Crayfish (P4)
Cambarus englishi Tallapoosa Crayfish (P2)
Cambarus halli Slackwater Crayfish (P2)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Procambarus spiculifer White Tubercled Crayfish (P5)

Cleburne

Cambarus englishi Tallapoosa Crayfish (P2)
Cambarus halli Slackwater Crayfish (P2)
Cambarus latimanus Variable Crayfish (P4)
Cambarus scotti Chattooga River Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Procambarus spiculifer White Tubercled Crayfish (P5)

Coffee

Cambarus diogenes Devil Crawfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus suttkusi Choctawhatchee Crayfish (P4)
Procambarus versutus Sly Crayfish (P5)

Colbert

Cambarus girardianus Tanback Crayfish (P4)
Cambarus pecki Phantom Cave Crayfish (P2)
Cambarus rusticiformis Depression Crayfish (P2)
Cambarus sp. N
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus tenebrosus Cavespring Crayfish (P3)
Orconectes alabamensis Alabama Crayfish (P4)
Orconectes compressus Slender Crayfish (P4)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes sp. M
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Orconectes validus Powerful Crayfish (P5)
Procambarus acutus White River Crawfish (P5)

Concuh

Cambarus diogenes Devil Crayfish (P5)
Cambarus polychromatus Paintedhand Mudbug (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus byersi Lavender Burrowing Crayfish (P2)
Orconectes holti Bimaculate Crayfish (P3)
Procambarus acutus White River Crawfish (P5)
Procambarus capillatus Capillaceous Crayfish (P2)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Coosa

Cambarus coosae Coosa Crayfish (P4)
Cambarus latimanus Variable Crayfish (P4)
Cambarus manningi Greensaddle Crayfish (P2)
Cambarus scotti Chattooga River Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)

Covington

Cambarus latimanus Variable Crayfish (P4)
Cambarus miltus Rusty Grave Digger (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Procambarus acutus White River Crawfish (P5)
Procambarus clemmeri Cockscomb Crayfish (P2)
Procambarus hubbelli Jackknife Crayfish (P2)
Procambarus okaloosae Okaloosa Crayfish (P2)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Crenshaw

Cambarus diogenes Devil Crayfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus versutus Sly Crayfish (P5)

Cullman

Cambarus obstipus Sloped Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes perfectus Complete Crayfish (P5)
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Orconectes validus Powerful Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus clarkii Red Swamp Crawfish (P5)

Dale

Cambarus latimanus Variable Crayfish (P4)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus suttkusi Choctawhatchee Crayfish (P4)

Dallas

Cambarus diogenes Devil Crawfish (P5)
Cambarus ludovicianus Painted Devil Crayfish (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Hobbseus prominens Prominence Riverlet Crayfish (P2)
Orconectes chickasawae Chickasaw Crayfish (P3)
Orconectes holti Bimaculate Crayfish (P3)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus lophotus Mane Crayfish (P3)
Procambarus marthae Crisscross Crayfish (P2)
Procambarus versutus Sly Crayfish (P5)

DeKalb

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus bartonii Appalachian Brook Crayfish (P3)
Cambarus cracens Slenderclaw Crayfish (P1)
Cambarus distans Boxclaw Crayfish (P1)
Cambarus girardianus Tanback Crayfish (P4)
Cambarus graysoni Twospot Crayfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus longirostris Longnose Crayfish (P2)
Cambarus parvoculus Mountain Midget Crayfish (P2)
Cambarus sp. J
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus unestami Blackbarred Crayfish (P2)
Orconectes erichsonianus Reticulate Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus clarkii Red Swamp Crawfish (P5)
Procambarus versutus Sly Crayfish (P5)

Elmore

Cambarus diogenes Devil Crawfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus verrucosus Grainy Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)

Escambia

Cambarus diogenes Devil Crawfish (P5)
Cambarus miltus Rusty Grave Digger (P3)
Fallicambarus byersi Lavender Burrowing Crayfish (P2)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Orconectes holti Bimaculate Crayfish (P3)
Procambarus acutus White River Crawfish (P5)
Procambarus capillatus Capillaceous Crayfish (P2)
Procambarus escambiensis Escambia Crayfish (P2)
Procambarus okaloosae Okaloosa Crayfish (P2)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Etowah

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus latimanus Variable Crayfish (P4)
Cambarus longirostris Longnose Crayfish (P2)
Cambarus manningi Greensaddle Crayfish (P2)
Cambarus obstipus Sloped Crayfish (P5)
Cambarus scotti Chattooga River Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus clarkii Red Swamp Crawfish (P5)
Procambarus spiculifer White Tubercled Crayfish (P5)

Fayette

Cambarus diogenes Devil Crawfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus obstipus Sloped Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes perfectus Complete Crayfish (P5)
Orconectes sp. M
Orconectes validus Powerful Crayfish (P5)
Procambarus acutus White River Crawfish (P5)

Franklin

Cambarus graysoni Twospot Crayfish (P5)
Cambarus ludovicianus Painted Devil Crayfish (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus tenebrosus Cavespring Crayfish (P3)
Orconectes alabamensis Alabama Crayfish (P4)
Orconectes compressus Slender Crayfish (P4)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes sp. M
Orconectes validus Powerful Crayfish (P5)

Geneva

Cambarus diogenes Devil Crawfish (P5)
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Procambarus hubbelli Jackknife Crayfish (P2)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus suttkusi Choctawhatchee Crayfish (P4)
Procambarus versutus Sly Crayfish (P5)

Greene

Cambarus diogenes Devil Crawfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Hobbseus prominens Prominence Riverlet Crayfish (P2)
Orconectes jonesi Sucarnoochee River Crayfish (P3)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus clarkii Red Swamp Crawfish (P5)
Procambarus hybus Smoothnose Crayfish (P2)
Procambarus vioscai Payne's Creek Crayfish (P3)

Hale

Cambarus diogenes Devil Crawfish (P5)
Cambarus ludovicianus Painted Devil Crayfish (P3)
Cambarus polychromatus Paintedhand Mudbug (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Hobbsseus prominens Prominence Riverlet Crayfish (P2)
Orconectes chickasawae Chickasaw Crayfish (P3)
Orconectes holti Bimaculate Crayfish (P3)
Orconectes validus Powerful Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus hybus Smoothnose Crayfish (P2)
Procambarus lophotus Mane Crayfish (P3)
Procambarus marthae Crisscross Crayfish (P2)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Henry

Cambarus diogenes Devil Crawfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus lophotus Mane Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus suttkusi Choctawhatchee Crayfish (P4)

Houston

Cambarus latimanus Variable Crayfish (P4)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Procambarus hubbelli Jackknife Crayfish (P2)
Procambarus paeninsulanus Peninsula Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus suttkusi Choctawhatchee Crayfish (P4)

Jackson

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus distans Boxclaw Crayfish (P1)
Cambarus graysoni Twospot Crayfish (P5)
Cambarus hamulatus Prickly Cave Crayfish (P3)
Cambarus latimanus Variable Crayfish (P4)
Cambarus parvoculus Mountain Midget Crayfish (P2)
Cambarus rusticiformis Depression Crayfish (P2)
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus tenebrosus Cavespring Crayfish (P3)
Cambarus unestami Blackbarred Crayfish (P2)
Orconectes australis Southern Cave Crayfish (P2)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes forceps Surgeon Crayfish (P4)
Orconectes mirus Wonderful Crayfish (P4)
Orconectes validus Powerful Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus acutus White River Crawfish (P5)
Procambarus lophotus Mane Crayfish (P3)

Jefferson

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus coosae Coosa Crayfish (P4)
Cambarus obstipus Sloped Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes perfectus Complete Crayfish (P5)
Orconectes sp. M
Orconectes validus Powerful Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus clarkii Red Swamp Crayfish (P5)

Lamar

Cambarus diogenes Devil Crawfish (P5)
Cambarus ludovicianus Painted Devil Crayfish (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Orconectes sp. M
Procambarus acutus White River Crawfish (P5)
Procambarus hybus Smoothnose Crayfish (P2)

Lauderdale

Barbicambarus simmonsii Tennessee Bottlebrush Crayfish (P1)
Cambarus acanthura Thornytail Crayfish (P4)
Cambarus girardianus Tanback Crayfish (P4)
Cambarus graysoni Twospot Crayfish (P5)
Cambarus jonesi Alabama Cave Crayfish (P3)
Cambarus latimanus Variable Crayfish (P4)
Cambarus pecki Phantom Cave Crayfish (P2)
Cambarus rusticiformis Depression Crayfish (P2)
Cambarus sp. A
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus tenebrosus Cavespring Crayfish (P3)
Fallicambarus fodiens Digger Crayfish (P5)
Orconectes alabamensis Alabama Crayfish (P4)
Orconectes compressus Slender Crayfish (P4)
Orconectes durrelli Saddle Crayfish (P2)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes forceps Surgeon Crayfish (P4)
Orconectes mirus Wonderful Crayfish (P4)
Orconectes putnami Phallic Crayfish (P2)
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Orconectes validus Powerful Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus viaeviridis Vernal Crayfish (P1)

Lawrence

Cambarus graysoni Twospot Crayfish (P5)
Cambarus obstipus Sloped Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus tenebrosus Cavespring Crayfish (P3)
Orconectes alabamensis Alabama Crayfish (P4)
Orconectes forceps Surgeon Crayfish (P4)
Orconectes putnami Phallic Crayfish (P2)
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Orconectes validus Powerful Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus acutus White River Crawfish (P5)

Lee

Cambarus halli Slackwater Crayfish (P2)
Cambarus howardi Chattahoochee Crayfish (P3)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus paeninsulanus Peninsula Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus verrucosus Rainy Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)

Limestone

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus girardianus Tanback Crayfish (P4)
Cambarus graysoni Twospot Crayfish (P5)
Cambarus jonesi Alabama Cave Crayfish (P3)
Cambarus sp. A
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus tenebrosus Cavespring Crayfish (P3)
Cambarus veitchorum White Spring Cave Crayfish (P1)
Fallicambarus fodiens Digger Crayfish (P5)
Orconectes compressus Slender Crayfish (P4)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes forceps Surgeon Crayfish (P4)
Orconectes mirus Wonderful Crayfish (P4)
Orconectes placidus Bigclaw Crayfish (P3)
Orconectes putnami Phallic Crayfish (P2)
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Orconectes validus Powerful Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus clarkii Red Swamp Crawfish (P5)

Lowndes

Cambarus diogenes Devil Crawfish (P5)
Cambarus sp. (nr. *polychromatus*)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes holti Bimaculate Crayfish (P3)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus lewisi Spur Crayfish (P2)
Procambarus lophotus Mane Crayfish (P3)
Procambarus marthae Crisscross Crayfish (P2)
Procambarus versutus Sly Crayfish (P5)

Macon

Cambarus diogenes Devil Crawfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus polychromatus Paintedhand Mudbug (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus lewisi Spur Crayfish (P2)
Procambarus lophotus Mane Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus verrucosus Grainy Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)

Madison

Cambarus girardianus Tanback Crayfish (P4)
Cambarus graysoni Twospot Crayfish (P5)
Cambarus jonesi Alabama Cave Crayfish (P3)
Cambarus sp. D
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus tenebrosus Cavespring Crayfish (P3)
Fallicambarus fodiens Digger Crayfish (P5)
Orconectes australis Southern Cave Crayfish (P2)
Orconectes compressus Slender Crayfish (P4)
Orconectes cooperi Flint River Crayfish (P2)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes forceps Surgeon Crayfish (P4)
Orconectes mirus Wonderful Crayfish (P4)
Orconectes sheltie Shelta Cave Crayfish (P1)
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Orconectes validus Powerful Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus clarkii Red Swamp Crawfish (P5)

Marengo

Cambarus diogenes Devil Crawfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Hobbseus prominens Prominence Riverlet Crayfish (P2)
Orconectes holti Bimaculate Crayfish (P3)
Orconectes jonesi Sucarnoochee River Crayfish (P3)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus clarkii Red Swamp Crawfish (P5)
Procambarus hybus Smoothnose Crayfish (P2)
Procambarus lophotus Mane Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)
Procambarus vioscai Payne's Creek Crayfish (P3)

Marion

Cambarus diogenes Devil Crawfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus ludovicianus Painted Devil Crayfish (P3)
Cambarus obstipus Sloped Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes perfectus Complete Crayfish (P5)
Orconectes sp. M
Orconectes validus Powerful Crayfish (P5)
Procambarus acutus White River Crawfish (P5)

Marshall

Cambarus cracens Senderclaw Crayfish (P1)
Cambarus girardianus Tanback Crayfish (P4)
Cambarus graysoni Twospot Crayfish (P5)
Cambarus hamulatus Prickly Cave Crayfish (P3)
Cambarus jonesi Alabama Cave Crayfish (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus speleocoopi Sweet Home Alabama Cave Crayfish (P2)
Cambarus tenebrosus Cavespring Crayfish (P3)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes validus Powerful Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus clarkii Red Swamp Crawfish (P5)

Mobile

Cambarellus diminutus Least Crayfish (P2)
Cambarellus lesliei Angular Dwarf Crawfish (P3)
Cambarellus shufeldtii Cajun Dwarf Crayfish (P2)
Cambarus ludovicianus Painted Devil Crayfish (P3)
Cambarus sp. F
Cambarus sp. G
Fallicambarus burrisi Burrowing Bog Crayfish (P2)
Fallicambarus danielae Speckled Burrowing Crayfish (P3)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Procambarus acutus White River Crawfish (P5)
Procambarus bivittatus Ribbon Crayfish (P3)
Procambarus clarkii Red Swamp Crawfish (P5)
Procambarus clemmeri Cockscomb Crayfish (P2)
Procambarus evermanni Panhandle Crayfish (P2)
Procambarus lecontei Mobile Crayfish (P2)
Procambarus penni Pearl Blackwater Crayfish (P3)
Procambarus shermani Gulf Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Monroe

Cambarus diogenes Devil Crawfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus byersi Lavender Burrowing Crayfish (P2)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Orconectes holti Bimaculate Crayfish (P3)
Orconectes jonesi Sucunoochee River Crayfish (P3)
Procambarus acutus White River Crawfish (P5)
Procambarus bivittatus Ribbon Crayfish (P3)
Procambarus capillatus Capillaceous Crayfish (P2)
Procambarus lophotus Mane Crayfish (P3)
Procambarus marthae Crisscross Crayfish (P2)
Procambarus penni Pearl Blackwater Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Montgomery

Cambarus diogenes Devil Crawfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Orconectes holti Bimaculate Crayfish (P3)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crayfish (P5)
Procambarus lewisi Spur Crayfish (P2)
Procambarus lophotus Mane Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)

Morgan

Cambarus jonesi Alabama Cave Crayfish (P3)
Cambarus laconensis Lacon Exit Cave Crayfish (P1)
Cambarus pecki Phantom Cave Crayfish (P2)
Cambarus striatus Ambiguous Crayfish (P5)
Cambarus tenebrosus Cavespring Crayfish (P3)
Orconectes australis Southern Cave Crayfish (P2)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes putnami Phallic Crayfish (P2)
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Orconectes validus Powerful Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus clarkii Red Swamp Crawfish (P5)

Perry

Cambarus ludovicianus Painted Devil Crayfish (P3)
Cambarus polychromatus Paintedhand Mudbug (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus danielae Speckled Burrowing Crayfish (P3)
Fallicambarus fodiens Digger Crayfish (P5)
Hobbseus prominens Prominence Riverlet Crayfish (P2)
Orconectes holti Bimaculate Crayfish (P3)
Orconectes jonesi Sucunoochee River Crayfish (P3)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus hybus Smoothnose Crayfish (P2)
Procambarus lophotus Mane Crayfish (P3)
Procambarus marthae Crisscross Crayfish (P2)
Procambarus sp. L
Procambarus versutus Sly Crayfish (P5)

Pickens

Cambarus diogenes Devil Crawfish (P5)
Cambarus ludovicianus Painted Devil Crayfish (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes chickasawae Chickasaw Crayfish (P3)
Orconectes jonesi Sucunoochee River Crayfish (P3)
Orconectes perfectus Complete Crayfish (P5)
Orconectes sp. M
Orconectes validus Powerful Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus hayi Straightedge Crayfish (P1)
Procambarus vioscai Payne's Creek Crayfish (P3)

Pike

Cambarus diogenes Devil Crawfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus polychromatus Paintedhand Mudbug (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Procambarus acutus White River Crawfish (P5)
Procambarus lophotus Mane Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus suttkusi Choctawhatchee Crayfish (P4)
Procambarus versutus Sly Crayfish (P5)

Randolph

Cambarus englishi Tallapoosa Crayfish (P2)
Cambarus halli Slackwater Crayfish (P2)
Cambarus latimanus Variable Crayfish (P4)
Procambarus spiculifer White Tubercled Crayfish (P5)

Russell

Cambarus diogenes Devil Crawfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus sp. K
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Procambarus lewisi Spur Crayfish (P2)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus verrucosus Rainy Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)

Shelby

Cambarus acanthura Thornytaill Crayfish (P4)
Cambarus coosae Coosa Crayfish (P4)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes spinosus Coosa River Spiny Crayfish (P4)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus lophotus Mane Crayfish (P3)

St. Clair

Cambarus acanthura Thornytaill Crayfish (P4)
Cambarus latimanus Variable Crayfish (P4)
Cambarus manningi Greensaddle Crayfish (P2)
Cambarus scotti Chattooga River Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus clarkii Red Swamp Crawfish (P5)
Procambarus lophotus Mane Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)

Sumter

Cambarellus sp. H
Cambarus diogenes Devil Crayfish (P5)
Cambarus polychromatus Paintedhand Mudbug (P3)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Hobbseus prominens Prominence Riverlet Crayfish (P2)
Orconectes chickasawae Chickasaw Crayfish (P3)
Orconectes holti Bimaculate Crayfish (P3)
Orconectes jonesi Sucarnoochee River Crayfish (P3)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crayfish (P5)
Procambarus hagenianus Southeastern Prairie Crayfish (P1)
Procambarus hybus Smoothnose Crayfish (P2)
Procambarus lagniappe Lagniappe Crayfish (P2)
Procambarus lophotus Mane Crayfish (P3)
Procambarus vioscai Payne's Creek Crayfish (P3)

Talladega

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus coosae Coosa Crayfish (P4)
Cambarus latimanus Variable Crayfish (P4)
Cambarus manningi Greensaddle Crayfish (P2)
Cambarus scotti Chattooga River Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Tallapoosa

Cambarus englishi Tallapoosa Crayfish (P2)
Cambarus halli Slackwater Crayfish (P2)
Cambarus latimanus Variable Crayfish (P4)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes erichsonianus Reticulate Crayfish (P5)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Tuscaloosa

Cambarus acanthura Thornytail Crayfish (P4)
Cambarus coosae Coosa Crayfish (P4)
Cambarus diogenes Devil Crayfish (P5)
Cambarus latimanus Variable Crayfish (P4)
Cambarus obstipus Sloped Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Fallicambarus fodiens Digger Crayfish (P5)
Orconectes chickasawae Chickasaw Crayfish (P3)
Orconectes erichsonianus Reticulate Crayfish (P5)
Orconectes perfectus Complete Crayfish (P5)
Orconectes sp. M
Orconectes validus Powerful Crayfish (P5)
Orconectes virilis Virile Crayfish (Exotic)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crayfish (P5)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus lophotus Mane Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)
Procambarus viaeviridis Vernal Crayfish (P1)
Procambarus vioscai Payne's Creek Crayfish (P3)

Walker

Cambarus obstipus Sloped Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes perfectus Complete Crayfish (P5)
Orconectes validus Powerful Crayfish (P5)
Procambarus acutus White River Crayfish (P5)

Washington

Cambarellus lesliei Angular Dwarf Crayfish (P3)
Cambarus diogenes Devil Crayfish (P5)
Fallicambarus burrisi Burrowing Bog Crayfish (P2)
Fallicambarus byersi Lavender Burrowing Crayfish (P2)
Faxonella clypeata Ditch Fencing Crayfish (P3)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutus White River Crayfish (P5)
Procambarus bivittatus Ribbon Crayfish (P3)
Procambarus clarkii Red Swamp Crayfish (P5)
Procambarus clemmeri Cockscomb Crayfish (P2)
Procambarus hybus Smoothnose Crayfish (P2)
Procambarus lagniappe Lagniappe Crayfish (P2)
Procambarus lecontei Mobile Crayfish (P2)
Procambarus penni Pearl Blackwater Crayfish (P3)
Procambarus shermani Gulf Crayfish (P3)
Procambarus spiculifer White Tubercled Crayfish (P5)
Procambarus versutus Sly Crayfish (P5)

Wilcox

Cambarus diogenes Devil Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes holti Bimaculate Crayfish (P3)
Orconectes perfectus Complete Crayfish (P5)
Procambarus acutissimus Sharpnose Crayfish (P5)
Procambarus acutus White River Crayfish (P5)
Procambarus lophotus Mane Crayfish (P3)
Procambarus versutus Sly Crayfish (P5)

Winston

Cambarus latimanus Variable Crayfish (P4)
Cambarus obstipus Sloped Crayfish (P5)
Cambarus striatus Ambiguous Crayfish (P5)
Orconectes perfectus Complete Crayfish (P5)
Orconectes validus Powerful Crayfish (P5)

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