

An annotated list of the Ants (Hymenoptera : Formicidae) of Mississippi

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ABSTRACT

One hundred and ninety-three species of ants, plus the hybrid fire ant, *Solenopsis invicta* X *richteri*, are reported for Mississippi. Thirty-two species are considered to be exotic to Mississippi. County records are given for each species.

INTRODUCTION

Mississippi was surveyed for ants by Marion Smith in the 1920's through the early 1930's (1924a, b, c; 1927; 1928a, b; 1931a; and 1932). As a result of these surveys, Smith reported 136 taxa of ants from Mississippi including 103 species and 33 additional subspecies and varieties. However, since Smith's time there have been numerous changes in the taxonomic status and nomenclature of Formicidae, and the 136 taxa reported by Smith now represent only 108 species. Further, we do not include six of Smith's historical records in our current list of Mississippi species because of the unlikelihood that they actually occur in the state. Smith (1924c) reported *Nylanderia bruesii* (Wheeler) from Oktibbeha County, however, this species is now considered to be a western US species. Despite concentrated collections by MEM staff and numerous other researchers and students in Oktibbeha County, this species has not been collected. Smith's record of this species predated a southeastern United States revision of the genus by Trager (1988) in which he described several new species. It is likely that "Smith's" *bruesii* was actually one of the new species described by Trager. Based on examinations of specimens in the MEM, records of *Camponotus pylartes fraxinicola* Smith by both Smith (1923, 1930) and Tynes (1965) are *Camponotus impressus* (Roger), which was synonymized by Mackay and Mackay (2018). *Formica obscuripes* Forel was another western US species reported by Smith

(1928b) from Oktibbeha County, however, no specimens of this species were found in the MEM collection and we do not include this dubious record here. Smith (1928b) reported *Aphaenogaster texana* (Emery) from Oktibbeha County, but all historical specimens from east of the Mississippi River in the MEM collection identified by Smith as *A. texana* were reexamined and determined by MacGown to be *A. carolinensis* Wheeler or other *Aphaenogaster* species. Mackay and Mackay (2017) reported records of *A. texana* from Mississippi and even into the Carolinas. However, collections by the MEM since the late 1980's throughout the southeastern US and examination of specimens in regional museum collections have not corroborated MacKay and MacKay's (2017) records. A phylogenetic study of North American *Aphaenogaster* (DeMarco 2015, DeMarco & Cognato 2016) supported the idea that *A. texana* only occurs west of the Mississippi River. Here we follow Demarco (2015) and do not include *A. texana* as occurring in Mississippi. Smith reported *Aphaenogaster picea* (Wheeler) from Bolivar County (Smith 1928b) in the Mississippi Delta in the western part of the state. However, *A. picea* is typically found at higher elevations in mountainous regions (Umpfrey 1996) and it is unlikely that this species would be found in this region and habitat. Collections of *Aphaenogaster miamiana* Wheeler, a similar looking blackish colored species, have been made in Sunflower County, which is adjacent to Bolivar County and it is likely that Smith's

records represented that species. Smith reported *Crematogaster atkinsoni* Wheeler from Oktibbeha County (Smith 1924b); however, this species has only been collected from saltwater marshes where it builds carton like nests in vegetation at the marsh edges. Oktibbeha County is not a coastal county and does not have this type of habitat. MacGown conducted targeted searches for this species in Mississippi, both along freshwater marshes and coastal marshes via a kayak, and at least thus far, has not been able corroborate the presence of this species in Mississippi. Morgan and MacKay (2017) synonymized *C. atkinsoni* under *C. laeviuscula* and listed records from Panola, Sharkey, Oktibbeha, and Washington Counties in Mississippi. Examination by the authors here of specimens from the MEM and other regional collections has not corroborated their findings. Until further research is done on this group, we treat *C. laeviuscula* as a western US species not occurring in Mississippi, and we consider *C. atkinsoni* to be a valid species, but without specimen records, we do not include it as occurring in Mississippi.

Species identification in the genus *Forelius*, common and widely distributed genus in the United States, has been difficult in Mississippi and elsewhere. Historically, specimens from Mississippi were identified as *F. analis* (André) and *F. pruinus* Roger. More recently, Ward (2005) treated *F. analis* as a synonym of *F. pruinus*. Reexamination of Mississippi specimens with comparisons to *F. pruinus* from Florida revealed that almost all historical and recent collections from Mississippi are not actually *F. pruinus*, with the exception of recent collections made in deep sand habitats. Instead, most Mississippi specimens are more similar in appearance to *Forelius mccoeki* (McCook), a western species, but likely represent an undescribed species (*Forelius* sp. B). Therefore, most literature records from Mississippi of *F. analis* or *F. pruinus* likely represent *F.* sp. B.

Several species groups occur in Mississippi whose members are difficult to identify because they are very similar to one another. The *Aphaenogaster fulva-rudis-texana* complex includes sibling species that vary significantly in color, size, and surface texture. In some cases, the only accurate way to identify them to the species level is by looking at chromosomal characters (Umphrey 1996).

Fortunately, not all members of this species group are found, or likely to be found in Mississippi, and the task is somewhat simplified. Of the species in that group likely to be found in the state, *A. fulva* Roger, is the easiest to identify as typical workers from our region show distinctive features, and queens, if available, can be reliably separated from other *Aphaenogaster* queens in the group. The only other known species that likely occur in the state are *A. carolinensis*, *A. miamiana*, and *A. N19* (a form described by Umphrey 1996, but not yet formally named). *Aphaenogaster miamiana* can generally be separated from those two species by its having proportionally larger eyes, longer spines, and dark brown-black coloration. According to Umphrey (1996) *Aphaenogaster* N19 and *A. carolinensis* cannot be reliably separated using morphological characters. However, *A. N19* has not yet definitively been shown to occur in this region, nor has it been described as a true species yet. Therefore, specimens falling in that category from Mississippi are referred to as *Aphaenogaster carolinensis* in this manuscript.

The *Solenopsis molesta* group is another species complex in which identification is difficult and is compounded by the minute size of the workers. In some cases, it is helpful, if not necessary, to have queens available for identification. Queens of different species often differ considerably with dramatic variation in size, eye-length, and color, whereas the workers of those species may be very similar in appearance.

Records of Mississippi ants have been included in several revisional works by various authors including Baroni Urbani and De Andrade (2003), Bolton (2000), Creighton (1950), DuBois and Davis (1998), Hill and Brown (2005, 2010), MacGown and Brown (2006), MacGown et al. (2005), MacGown et al (2014), MacKay (1993), Pacheco (2007), Shoemaker et al. (1994), D. R. Smith (1979), Snelling (1988, 1995), Trager (1984, 1988), Trager et al. (2007), Umphrey (1996), Ward (1985), Watkins (1985), and Wilson (2003). MEM staff has collected 179 species of ants from Mississippi since 2001, including many of those reported in the afore mentioned papers. Here, we report 193 species (plus the hybrid fire ant, *Solenopsis invicta* X *richteri*) from 9 subfamilies and 40 genera from Mississippi.

Study Area

Mississippi is an ideal state for the study of ants because it includes a wide variety of habitats and has relatively warm temperatures throughout much of the year. Much of the state is forested, and woodland habitats in the state are known to support a high diversity of ants (Hill et al. 2005; MacGown and Brown 2006). Mississippi has interspersed prairie remnants with a biota including many species disjunct from the midwestern plains (Brown 2003). Most of Mississippi (Map 1) lies in the Gulf Coastal Plain physiographic region, with only the extreme northeastern corner of the state in Tishomingo County being found in the Cumberland Plateau. The state has been divided into 11 distinct physiographic regions (Testa and Lago 1994) or 4 basic ecoregions with 21 subdivisions (Chapman et al. 2004). Because of its location, Mississippi serves as a unique transitional zone between several different regions of the country. The southeastern region of the state has affiliations with both southern Alabama and Florida and shares many common species of plants and animals with them. These various physiographic regions coupled with major ports on the Gulf Coast where exotic species may enter the state are major reasons for the high diversity of ant species in the state. It is unlikely that Mississippi will ever support as many species of ants as have been discovered in Florida, due to the numerous introduced species (Deyrup 2003). However, Mississippi appears to have a comparable number of species of ants as found in Alabama, where 176 species have been reported (MacGown 2003, MacGown and Forster 2005) and Louisiana, where 142 species have been reported (MacGown 2003, Dash 2005).

METHODS

Marion Smith's surveys were made before the introduction of the imported fire ants, *Solenopsis invicta* Buren and *S. richteri* Forel, into Mississippi in the 1930's. From 2001 through 2020, the Mississippi Entomological Museum (MEM) conducted surveys of ants in Mississippi to provide baseline data on native species to complement regional imported fire ant management programs initiated by the United States Department of Agriculture-Agricultural

Research Service (USDA-ARS). Collections of ants were made from all 11 physiographic regions (or 4 ecoregions) and in all 82 counties of the state (Map 1).

Collections of ants were made using a variety of methods including pitfall traps, Lindgren funnel traps, blacklight traps, malaise traps, baiting (Keebler Sandies Pecan Shortbread® cookies, StarKist® chunk light tuna, Bar S®, chicken, beef, & pork hotdogs, and various brands of peanut butter), soil and litter sampling, tearing apart rotting wood and hollow stems of grasses and other plants, beating trees and shrubs, sweeping vegetation, and visual searching for ants and nests. Specimens were collected and stored in 90–95% ethanol, which would permit future use for DNA analysis. Representative voucher specimens were pinned, labeled with collection data, and stored in the MEM.

County records are given with counties of material examined by the authors given first followed by literature records with references given. With the exception of four species (*Myrmica latifrons* Starcke, *Solenopsis salina* Wheeler, *Strumigenys bunki* (Brown), and *Temnothorax texanus* (Smith), representatives of all species from Mississippi were examined by the authors.

DISCUSSION

Aphaenogaster, *Camponotus*, *Pheidole*, and *Strumigenys* are the most speciose genera in the state with *Strumigenys* being the most diverse with 30 species having been found to date.

Thirty-two species are considered to be exotic to Mississippi. Of these, the imported fire ants, *Solenopsis invicta* Buren, *S. richteri* Forel, and their hybrid; the Argentine ant, *Linepithema humile* (Mayr); the Tawny crazy ant, *Nylanderia fulva* (Mayr); and the dark rover ant, *Brachymyrmex patagonicus* Mayr are considered to be invasive. Although these ants are exceedingly common throughout the state, they thrive in disturbed open habitats, and therefore, natural habitats, especially forested ones, seem to be less affected by their presence.



Formicidae of Mississippi

The taxonomy used here follows Antweb (2020) and this list is arranged alphabetically by subfamily, genera, and species. Species considered to be exotic are prefixed by the number symbol (#). County records are provided with counties of material examined by the authors given first (MEM indicates deposition of specimens), followed by literature records or records from the personal collection of Timothy C. Lockley (USDA-Mississippi Gulf Coast). Only unique county records are listed for literature records, with duplicate counties excluded if specimens from those counties were in the MEM collection.

AMBLYOPONINAE***Stigmatomma pallipes* (Haldeman)**

Records — Attala, Carroll, Chickasaw, Choctaw, Franklin, George, Grenada, Holmes, Jackson, Jones, Lauderdale, Lee, Marshall, Noxubee, Oktibbeha, Pearl River, Perry, Scott, Smith, Stone, Tishomingo, Winston, and Yalobusha Cos. (MEM).

DOLICHODERINAE***Dolichoderus mariae* Forel**

Records — Chickasaw, Harrison, Hinds, Lowndes, Oktibbeha, and Pontotoc Cos. (MEM).

***Dolichoderus pustulatus* Mayr**

Records — Chickasaw, Hancock, Harrison, Lowndes, Oktibbeha, Pontotoc and Cos. (MEM). Monroe Co. (Smith 1924b, 1931a).

***Dolichoderus taschenbergi* (Mayr)**

Records — Chickasaw, Choctaw, Clay, Itawamba, Oktibbeha, Pontotoc, and Union Cos. (MEM).

***Dorymyrmex bureni* (Trager)**

Records — Attala, Calhoun, Clarke, Clay,

Forrest, George, Greene, Grenada, Hancock, Harrison, Issaquena, Itawamba, Jackson, Jasper, Jones, Lamar, Lauderdale, Lee, Lowndes, Marshall, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Perry, Rankin, Scott, Smith, Stone, Tishomingo, Union, Warren, Wayne, and Winston Cos. (MEM).

***Dorymyrmex flavus* McCook**

Records — Adams, Franklin, Issaquena, Jackson, Warren, Wilkinson, and Winston Cos. (MEM).

***Dorymyrmex grandulus* (Forel)**

Records — Harrison and Jackson Cos. (MEM).

***Dorymyrmex smithi* Cole**

Records — Alcorn, Choctaw, Clay, Harrison, Itawamba, Jackson, Jefferson, Leake, Lowndes, Monroe, Noxubee, Oktibbeha, Stone, Tippah, and Tishomingo Cos. (MEM).

***Forelius pruinus* (Roger)**

Records — George, Greene, Harrison, Jackson, Jefferson Davis, and Wayne Cos. (MEM).

***Forelius* sp. B**

Records — Attala, Bolivar, Carroll, Chickasaw, Choctaw, Clarke, Clay, DeSoto, Forrest, Franklin, George, Greene, Grenada, Harrison, Hinds, Holmes, Itawamba, Jackson, Kemper, Lafayette, Lauderdale, Leake, Lee, Lowndes, Madison, Marshall, Monroe, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Perry, Pontotoc, Prentiss, Quitman, Scott, Smith, Stone, Tate, Tippah, Tishomingo, Warren, Washington, Winston, and Yalobusha Cos. (MEM).

***#Linepithema humile* (Mayr)**

Records — Choctaw, Clarke, Clay, Copiah, DeSoto, Forrest, George, Greene, Grenada, Hancock, Harrison, Hinds, Holmes, Jackson, Kemper, Lafayette, Lamar, Lauderdale, Lee, Lincoln,

Lowndes, Madison, Monroe, Noxubee, Oktibbeha, Pearl River, Perry, Pontotoc, Scott, Stone, Tate, Webster, and Winston Cos. (MEM).

#*Tapinoma melanocephalum* (Fabricius)

Records — Amite, Hancock and Harrison Cos. (MEM).

***Tapinoma sessile* (Say)**

Records — Attala, Bolivar, Chickasaw, Clay, Coahoma, DeSoto, Forrest, Grenada, Hinds, Holmes, Issaquena, Jones, Kemper, Lafayette, Lauderdale, Lee, Lowndes, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Pontotoc, Quitman, Scott, Sharkey, Sunflower, Tallahatchie, Tate, Tishomingo, Union, Warren, Washington, and Winston Cos. (MEM).

DORYLINAE

***Neivamyrmex carolinensis* (Emery)**

Records — Claiborne, Marshall, Monroe, Oktibbeha, and Tippah Cos. (MEM); Lowndes, and Jones Cos. (Smith 1928a); Adams and Lauderdale Cos. (Smith 1942).

***Neivamyrmex nigrescens* (Cresson)**

Records — Clay, Coahoma, Lafayette, Oktibbeha, Panola, and Tate Cos. (MEM); Adams, Clarke, Jones, Lauderdale, Lowndes, Monroe, and Stone Cos. (Smith 1924b, 1942).

***Neivamyrmex opacithorax* (Emery)**

Records — Issaquena, Lafayette and Warren Cos. (MEM); Adams, Clarke, Pike, and Winston Cos. (Smith 1924b, 1942).

***Neivamyrmex pilosus mexicanus* (Smith)**

Records — Adams, Hinds, Lafayette, Pearl River, Rankin, and Stone Cos. and Bond (county unknown). (MEM); Choctaw, Copiah, Montgomery, and Oktibbeha, (Smith 1924b, 1942).

ECTATOMMINAE

#*Gnamptogenys triangularis* (Mayr)

Records — Forrest, Harrison, Lamar, Pearl River, and Stone Cos. (MEM).

FORMICINAE

***Brachymyrmex depilis* Emery**

Records — Calhoun, Choctaw, Claiborne, Clarke, Copiah, George, Grenada, Hancock, Harrison, Holmes, Issaquena, Jackson, Jasper, Jones, Lauderdale, Lee, Lowndes, Marshall, Newton, Noxubee, Oktibbeha, Pearl River, Perry, Pontotoc, Scott, Sharkey, Tippah, Tishomingo, Washington, Wayne, Wilkinson, Winston, and Yalobusha Cos. (MEM); Adams Co. (Smith 1927).

#*Brachymyrmex minutus* Forel

Records — Harrison Co. (MEM).

#*Brachymyrmex obscurior* Forel

Records — Forrest Co. (MEM).

#*Brachymyrmex patagonicus* Mayr

Records — Attala, Claiborne, Clarke, Copiah, Covington, Forrest, Franklin, George, Greene, Hancock, Harrison, Hinds, Itawamba, Jackson, Jasper, Jefferson, Jefferson Davis, Jones, Lamar, Lauderdale, Leake, Lincoln, Lowndes, Madison, Marion, Marshall, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pike, Pontotoc, Rankin, Scott, Stone, Tishomingo, Warren, Washington, Wayne, Wilkinson, and Winston Cos. (MEM).

***Brachymyrmex* sp.**

Records — Harrison and Noxubee Cos. (MEM). This species appears to be an undescribed new species, and it is distinctly different from the other species of *Brachymyrmex* on this list.

***Camponotus americanus* Mayr**

Records — Adams, Benton, Calhoun, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, Copiah, Forrest, Franklin, Grenada, Hancock, Harrison, Hinds, Holmes, Itawamba, Jefferson Davis, Kemper, Lafayette, Lauderdale, Lee, Lowndes, Madison, Marshall, Montgomery, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pike, Pontotoc, Scott, Tallahatchie, Tishomingo, Union, Walthall, Warren, Washington, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM); Neshoba Co. (Smith 1924c).

#*Camponotus atriceps* (F. Smith)

Records — From the stalk of shipped bananas, A. & M. C. Miss [Oktibbeha], 1/19/25, coll. by R. W. Harned (8 workers). (MEM). This species does not appear to be an established resident in Mississippi.

***Camponotus caryae* (Fitch)**

Records — Chickasaw, Hinds, Lauderdale, Lowndes, Neshoba, Noxubee, and Oktibbeha Cos. (MEM). Smith wrote that this species was widely distributed in Mississippi (1924c).

***Camponotus castaneus* (Latreille)**

Records — Adams, Attala, Bolivar, Calhoun, Chickasaw, Claiborne, Clarke, Clay, Copiah, Covington, DeSoto, Forrest, George, Grenada, Hancock, Harrison, Hinds, Itawamba, Jackson, Jasper, Kemper, Lafayette, Lauderdale, Lee, Lincoln, Lowndes, Madison, Monroe, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pike, Pontotoc, Prentiss, Quitman, Rankin, Scott, Stone, Sunflower, Tallahatchie, Tate, Tishomingo, Union, Warren, Washington, Webster, and Winston Cos. (MEM).

***Camponotus chromaiodes* Bolton**

Records — Adams, Attala, Bolivar, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, Clay, Copiah, DeSoto, Forrest, Franklin, George, Greene, Grenada, Harrison, Hinds, Itawamba, Jasper, Jefferson, Jefferson Davis, Lafayette,

Lauderdale, Leake, Lee, Lincoln, Lowndes, Madison, Marshall, Monroe, Montgomery, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pike, Pontotoc, Prentiss, Scott, Stone, Tallahatchie, Tishomingo, Union, Warren, Webster, Winston, and Yalobusha Cos. (MEM); Neshoba Co. and Oakland (county unknown) (Smith 1924c).

***Camponotus decipiens* Emery**

Records — Chickasaw, Clarke, Clay, Copiah, Covington, DeSoto, Forrest, Franklin, Greene, Grenada, George, Hancock, Harrison, Hinds, Jackson, Jasper, Jones, Kemper, Lafayette, Lauderdale, Leake, Lee, Lowndes, Madison, Marion, Marshall, Montgomery, Noxubee, Oktibbeha, Panola, Perry, Prentiss, Quitman, Scott, Stone, Sunflower, Tallahatchie, Tate, Tishomingo, Union, Warren, Winston, Yalobusha, and Yazoo Cos. (MEM).

***Camponotus discolor* (Buckley)**

Records — Adams, Hancock, Harrison, Jackson, Lowndes, Montgomery, Noxubee, Oktibbeha, Pontotoc, Union, and Winston Cos. (MEM); Alcorn Co. (Smith 1931a).

***Camponotus floridanus* (Buckley)**

Records — Harrison and Jackson Cos. (MEM).

***Camponotus nearcticus* Emery**

Records — Choctaw, Clarke, DeSoto, Grenada, Hinds, Jackson, Jefferson Davis, Lafayette, Lauderdale, Leake, Lee, Lowndes, Madison, Marshall, Montgomery, Newton, Noxubee, Oktibbeha, Panola, Pontotoc, Scott, Sunflower, Tishomingo, Union, Warren, Webster, and Winston Cos. (MEM).

***Camponotus pennsylvanicus* (DeGeer)**

Records — Adams, Attala, Calhoun, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, Clay, Copiah, Covington, DeSoto, Forrest, Franklin, George, Greene, Grenada, Hancock, Harrison, Hinds, Holmes, Issaquena, Itawamba, Jackson,

Jasper, Jefferson Davis, Jones, Kemper, Lafayette, Lauderdale, Leake, Lee, Lincoln, Lowndes, Madison, Marshall, Monroe, Montgomery, Neshoba, Noxubee, Oktibbeha, Panola, Pearl River, Pontotoc, Quitman, Scott, Sharkey, Sunflower, Tate, Tishomingo, Union, Warren, Washington, Wayne, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM).

#*Camponotus planatus* (Roger).

Record — Hancock Co. (MEM).

***Camponotus snellingi* Bolton**

Records — Adams, Attala, Carroll, Chickasaw, Claiborne, Clarke, Clay, Copiah, Covington, DeSoto, Forrest, George, Greene, Grenada, Hancock, Harrison, Hinds, Holmes, Itawamba, Jackson, Jasper, Kemper, Lafayette, Lauderdale, Leake, Lee, Lincoln, Lowndes, Madison, Marshall, Montgomery, Neshoba, Noxubee, Oktibbeha, Pike, Pontotoc, Prentiss, Quitman, Scott, Stone, Tishomingo, Union, Warren, Washington, Webster, and Winston Cos. (MEM).

***Camponotus socius* Roger**

Records — George, Harrison, Perry, Stone, and Wayne Cos. (MEM); Bolivar Co. (Smith 1924b).

***Camponotus subbarbatus* Emery**

Records — Attala, Calhoun, Carroll, Chickasaw, Choctaw, Clay, DeSoto, Forrest, Franklin, Grenada, Hinds, Itawamba, Kemper, Lafayette, Lauderdale, Leake, Lee, Lowndes, Madison, Marshall, Monroe, Montgomery, Noxubee, Oktibbeha, Pontotoc, Tishomingo, Union, Warren, Webster, and Winston Cos. (MEM).

#*Camponotus tortuganus* Roger

Records — Hancock Co. (MEM).

***Colobopsis impressa* Roger**

Records — Adams, Attala, Calhoun, Chickasaw, Claiborne, Clarke, Clay, DeSoto, George, Grenada,

Hancock, Harrison, Jackson, Kemper, Lafayette, Leake, Lee, Lincoln, Lowndes, Madison, Monroe, Noxubee, Oktibbeha, Panola, Pearl River, Pontotoc, Stone, Sunflower, Tippah, Union, Webster, and Winston Cos. (MEM); *Camponotus pylartes fraxinicola*, specimens of which were probably *C. impressus*, were reported by Tynes (1964) from Forrest, Itawamba, Lauderdale, Leflore, Tishomingo, Warren, and Washington Cos.

***Colobopsis mississippiensis* (Smith)**

Records — Adams, Attala, Calhoun, Chickasaw, Clarke, Clay, Itawamba, Kemper, Lauderdale, Leake, Lee, Lowndes, Marshall, Monroe, Noxubee, Oktibbeha, Pontotoc, Union, and Winston Cos. (MEM); Forrest, Grenada, Hancock, Hinds, Holmes, Jones, Lamar, Leflore, Pearl River, Tishomingo, Warren, Washington, Webster, and Yazoo Cos. (Tynes, 1964).

***Colobopsis obliqua* (Smith)**

Records — Attala, Claiborne, DeSoto, George, Oktibbeha, Perry, Pontotoc, Webster, and Winston Cos. (MEM).

***Formica biophilica* Trager**

Records — Alcorn, Bolivar, Chickasaw, Clay, Lafayette, Lee, Monroe, Noxubee, Oktibbeha, Panola, Perry, Pontotoc, and Tippah Cos. (MEM).

***Formica dolosa* Buren**

Records — Calhoun, Chickasaw, Choctaw, DeSoto, Grenada, Lafayette, Lauderdale, Lee, Lowndes, Marshall, Monroe, Montgomery, Newton, Noxubee, Oktibbeha, Perry, Pontotoc, Scott, Tishomingo, Winston, and Yalobusha Cos. (MEM); Forrest Co. (Tim Lockley Collection).

***Formica exsectoides* Forel**

Record — Marshall Co. (MEM).

***Formica integra* Nylander**

Records — Chickasaw and Monroe Cos. (MEM).

***Formica pallidefulva* Latreille**

Records — Alcorn, Attala, Bolivar, Calhoun, Carroll, Chickasaw, Clarke, Clay, Grenada, Holmes, Itawamba, Kemper, Lafayette, Lauderdale, Lee, Lowndes, Marshall, Montgomery, Newton, Noxubee, Oktibbeha, Panola, Pontotoc, Scott, Tate, Tishomingo, Webster, Winston, and Yalobusha Cos. (MEM); Harrison Co. (Tim Lockley Collection); Bolivar Co. (Smith 1928b).

***Formica subsericea* Say**

Records — Choctaw, DeSoto, Itawamba, Lafayette, Lee, Monroe, Oktibbeha, Perry, Pontotoc, Prentiss, Scott, Tishomingo, and Winston Cos. (MEM); Pearl River Co. (Smith 1924c).

***Lasius americanus* Emery**

Records — Adams, Alcorn, Attala, Calhoun, Chickasaw, Choctaw, Clay, DeSoto, Forrest, Franklin, Grenada, Harrison, Issaquena, Itawamba, Jasper, Jefferson, Lafayette, Lauderdale, Leake, Lee, Leflore, Lowndes, Madison, Marshall, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pontotoc, Quitman, Sharkey, Sunflower, Tallahatchie, Tate, Tishomingo, Warren, Washington, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM). Coahoma Co. (Smith 1924c).

***Lasius aphidicola* (Walsh)**

Records — Alcorn, Attala, Bolivar, Grenada, Harrison, Marshall, Noxubee, Oktibbeha, Prentiss, Tallahatchie, and Tippah Cos. (MEM).

***Lasius brevicornis* Emery**

Records — Lauderdale, Neshoba, and Tippah Cos. (MEM).

***Lasius claviger* (Roger)**

Records — Lauderdale and Tippah Cos. (MEM).

***Lasius interjectus* (Mayr)**

Records — Oktibbeha and Winston Cos. (MEM).

***Lasius neoniger* Emery**

Records — Alcorn, Benton, Chickasaw, Clay, Lee, Marshall, Panola, and Tate Cos. (MEM).

***Nylanderia arenivaga* (Wheeler)**

Records — Adams, Carroll, Chickasaw, Choctaw, Greene, Grenada, Harrison, Jackson, Jasper, Kemper, Lafayette, Lauderdale, Leake, Lowndes, Madison, Marshall, Noxubee, Oktibbeha, Prentiss, Scott, Stone, and Wayne Cos. (MEM); Forrest Co. (Tim Lockley Collection).

***Nylanderia concinna* (Trager)**

Records — Panola and Pontotoc Cos. (MEM).

***Nylanderia faisonensis* (Forel)**

Records — Adams, Attala, Calhoun, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, Clay, Covington, DeSoto, Forrest, Franklin, George, Greene, Grenada, Hancock, Harrison, Hinds, Holmes, Itawamba, Jackson, Jasper, Jefferson, Jefferson Davis, Jones, Kemper, Lafayette, Lauderdale, Leake, Lee, Lowndes, Madison, Marshall, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pontotoc, Prentiss, Scott, Stone, Tallahatchie, Tishomingo, Union, Warren, Washington, Webster, Wilkinson, Winston, Yalobusha, and Yazoo Cos. (MEM).

***#Nylanderia fulva* (Mayr)**

Records — Hancock, Harrison, Jackson, and Pearl River Cos. (MEM).

***Nylanderia parvula* (Mayr)**

Records — Chickasaw, Holmes, Oktibbeha, and Wayne Cos. (MEM).

***Nylanderia phantasma* Trager**

Records — Jackson and Perry Cos. (MEM).

***Nylanderia querna* Kallal and LaPolla**

Records — Adams, Attala, Benton, Franklin, Grenada, Jefferson, Jefferson Davis, Leake, Madison, Scott, Tishomingo, and Wilkinson Cos. Yellow species, active during day in sloped hardwood forests, similar looking to *N. faisonensis*, except yellow. (MEM).

***Nylanderia trageri* Kallal and LaPolla**

Records — Attala, Choctaw, Grenada, Kemper, Lee, Montgomery, Noxubee, Oktibbeha, and Winston Co.

***Nylanderia vividula* (Nylander)**

Records — Adams, Attala, Benton, Calhoun, Chickasaw, Claiborne, Clarke, Clay, DeSoto, George, Grenada, Harrison, Holmes, Jackson, Kemper, Lafayette, Lauderdale, Lee, Lowndes, Marshall, Monroe, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Pontotoc, Quitman, Rankin, Scott, Sharkey, Sunflower, Tate, Tishomingo, Union, Washington, Wayne, Webster, and Winston Cos. (MEM); Forrest (Tim Lockley Collection).

***Nylanderia* sp. 01.**

Records — Jackson Co. Workerless caste with microgyne queen associated with *Nylanderia* sp. (MEM).

#*Paratrechina longicornis* Smith

Records — George, Oktibbeha, Pontotoc, and Winston Cos. (MEM); Pike Co. (Storz and Tschinkel 2004).

***Polyergus montivagus* Wheeler.**

Records — Lowndes and Oktibbeha Cos. (MEM).

***Polyergus ruber* Trager**

Records — (MEM). Chickasaw Co. (MEM).

***Prenolepis imparis* (Say)**

Records — Adams, Alcorn, Attala, Calhoun, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, Clay, Copiah, Covington, DeSoto, Forrest, Franklin, George, Grenada, Hancock, Harrison, Hinds, Itawamba, Jackson, Jasper, Jefferson, Kemper, Lafayette, Lauderdale, Leake, Lee, Lincoln, Lowndes, Madison, Marshall, Montgomery, Noxubee, Oktibbeha, Panola, Pontotoc, Prentiss, Scott, Smith, Sunflower, Tallahatchie, Tippah, Tishomingo, Union, Warren, Webster, and Winston Cos. (MEM); Forrest Co. (Tim Lockley Collection); Yazoo Co. (Smith 1924c).

MYRMICINAE***Aphaenogaster ashmeadi* (Emery)**

Records — George, Harrison, Jackson, Pearl River, and Perry Cos. (MEM).

***Aphaenogaster carolinensis* Wheeler.**

Records — Adams, Attala, Bolivar, Calhoun, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, DeSoto, Forrest, Franklin, George, Grenada, Hancock, Harrison, Hinds, Holmes, Issaquena, Itawamba, Jasper, Jefferson, Jefferson Davis, Kemper, Lafayette, Lauderdale, Leake, Lee, Leflore, Lowndes, Madison, Marshall, Monroe, Montgomery, Newton, Noxubee, Oktibbeha, Pearl River, Perry, Pontotoc, Prentiss, Scott, Sharkey, Tallahatchie, Tippah, Tishomingo, Washington, Wayne, Webster, Wilkinson, Winston, Yalobusha, and Yazoo Cos. (MEM).

***Aphaenogaster flemingi* Smith**

Records — Chickasaw and Oktibbeha Cos. (MEM).

***Aphaenogaster floridana* Smith.**

Records — Harrison and Wayne Cos. (MEM).

***Aphaenogaster fulva* Roger**

Records — Adams, Attala, Calhoun, Carroll, Chickasaw, Choctaw, Clarke, Clay, Copiah, DeSoto, Forest, Franklin, Greene, Grenada, Harrison, Hinds, Holmes, Itawamba, Jasper, Jefferson, Jefferson Davis, Kemper, Lafayette, Lauderdale, Leake, Lee, Lowndes, Madison, Marshall, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pike, Pontotoc, Prentiss, Rankin, Scott, Sharkey, Stone, Tallahatchie, Tippah, Tishomingo, Warren, Washington, Wayne, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM).

***Aphaenogaster lamellidens* Mayr**

Records — Alcorn, Attala, Calhoun, Chickasaw, Choctaw, Clarke, Clay, Forrest, George, Grenada, Harrison, Holmes, Jackson, Jefferson Davis, Lafayette, Lauderdale, Leake, Lee, Lincoln, Lowndes, Madison, Marshall, Monroe, Montgomery, Neshoba, Noxubee, Oktibbeha, Panola, Perry, Pike, Pontotoc, Prentiss, Scott, Tallahatchie, Tishomingo, Walthall, Washington, Winston and Yalobusha Cos. (MEM).

***Aphaenogaster mariae* Forel**

Records — Choctaw, Clarke, Hinds, Holmes, Leake, Marshall, Noxubee, Oktibbeha, Pontotoc, Tippah, Warren, and Winston Cos. (MEM).

***Aphaenogaster miamiana* Wheeler**

Records — Attala, Forrest, George, Grenada, Hancock, Harrison, Jackson, Lamar, Lauderdale, Leflore, Pearl River, Scott, Sharkey, Sunflower, and Washington Cos. (MEM).

***Aphaenogaster tennesseensis* (Mayr)**

Records — George, Perry, and Stone Cos. (MEM).

***Aphaenogaster treatae* Forel**

Records — Chickasaw, Clarke, Clay, Grenada, Holmes, Itawamba, Lafayette, Lauderdale, Lee, Marshall, Monroe, Noxubee, Oktibbeha, Perry, Pontotoc, Scott, Tippah, Tishomingo, Winston, and Yalobusha Cos. (MEM).

***#Cardiocondyla wroughtonii* (Forel)**

Records — Forrest, Issaquena and Pearl River Cos. (MEM).

***Crematogaster ashmeadi* Mayr.** Adams, Attala, Carroll, Choctaw, Chickasaw, Claiborne, Clarke, Clay, Copiah, Forrest, Franklin, George, Greene, Grenada, Harrison, Holmes, Itawamba, Jackson, Jefferson Davis, Kemper, Lafayette, Lamar, Lauderdale, Leake, Lee, Lowndes, Madison, Marshall, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Perry, Pontotoc, Prentiss, Scott, Sharkey, Tate, Tishomingo, Union, Washington, Wayne, Webster, and Winston Cos. (MEM); Clay Co. (Smith 1924b).

***Crematogaster cerasi* (Fitch)**

Record — Lafayette Co. (MEM).

***Crematogaster lineolata* (Say)**

Records — Adams, Attala, Chickasaw, Choctaw, Claiborne, Clay, Copiah, Franklin, Grenada, Hancock, Holmes, Jackson, Jefferson Davis, Kemper, Lafayette, Lauderdale, Leake, Lee, Leflore, Lowndes, Marshall, Monroe, Newton, Noxubee, Oktibbeha, Panola, Pontotoc, Prentiss, Scott, Tippah, Tishomingo, Wilkinson, Winston, and Yalobusha Cos. (MEM).

***Crematogaster minutissima* Mayr**

Records — Carroll, Chickasaw, Choctaw,

Clay, Forrest, Greene, Harrison, Jackson, Lafayette, Lauderdale, Lee, Leflore, Lowndes, Madison, Oktibbeha, Pontotoc, Scott, Warren, and Winston Cos. (MEM); Adams Co. (Smith 1928b).

***Crematogaster missouriensis* Emery**

Records — Adams, Chickasaw, Itawamba, Jackson, Kemper, Lauderdale, Lee, Lowndes, Newton, Noxubee, Oktibbeha, Pontotoc, and Tishomingo Cos. (MEM); Adams Co. (Smith 1924b).

***Crematogaster pilosa* Emery**

Records — Carroll, Chickasaw, Choctaw, Clarke, Clay, Forrest, Franklin, Grenada, Hancock, Harrison, Issaquena, Jackson, Jefferson Davis, Kemper, Lafayette, Lauderdale, Lee, Lincoln, Madison, Monroe, Noxubee, Oktibbeha, Panola, Perry, Pontotoc, Scott, Sharkey, Stone, Sunflower, Tippah, Warren, Washington, Webster, Winston, and Yazoo Cos. (MEM).

***Crematogaster punctulata* Emery**

Record — Lee Co. (MEM).

***Crematogaster vermiculata* Emery**

Records — Chickasaw, Clay, Forrest, George, Leake, Marshall, Neshoba, Noxubee, Oktibbeha, and Prentiss Cos. (MEM).

#*Cyphomyrmex rimosus* (Spinola)

Records — Amite, Covington, Forrest, Franklin, George, Greene, Hancock, Harrison, Jackson, Jefferson Davis, Lauderdale, Lincoln, Madison, Marion, Newton, Oktibbeha, Pearl River, Perry, Pike, Smith, Stone, Wayne, and Wilkinson Cos. (MEM).

#*Monomorium floricola* (Jerdon)

Record — Harrison Co. (MEM).

***Monomorium minimum* (Buckley)**

Records — Adams, Alcorn, Attala, Benton, Calhoun, Carroll, Chickasaw, Choctaw, Clarke, Clay, Copiah, Covington, DeSoto, Forest, Franklin, Grenada, Hancock, Holmes, Issaquena, Jackson, Jasper, Jefferson, Jefferson Davis, Jones, Kemper, Lafayette, Lauderdale, Leake, Lee, Leflore, Lowndes, Madison, Marshall, Monroe, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Perry, Pontotoc, Prentiss, Quitman, Scott, Sharkey, Smith, Sunflower, Tallahatchie, Tate, Tishomingo, Union, Warren, Washington, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM); Adams and Yazoo Cos. (Smith 1924a).

#*Monomorium pharaonis* (Linnaeus)

Records — Hinds, Jackson, Oktibbeha, Pontotoc, Warren, and Washington Cos. (MEM); Lowndes Co. (Smith 1924a).

***Monomorium viride* Brown**

Records — Forrest, Pike, and Simpson Cos. (Storz and Tschinkel 2004).

***Myrmecina americana* Emery**

Records — Adams, Alcorn, Amite, Attala, Benton, Calhoun, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, Clay, Covington, DeSoto, Forrest, Franklin, George, Greene, Grenada, Hancock, Harrison, Hinds, Holmes, Issaquena, Itawamba, Jackson, Jasper, Jefferson, Jefferson Davis, Kemper, Lafayette, Lauderdale, Leake, Lee, Leflore, Lincoln, Lowndes, Madison, Marion, Marshall, Monroe, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pontotoc, Prentiss, Scott, Sharkey, Smith, Stone, Tallahatchie, Tippah, Tishomingo, Warren, Washington, Wayne, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM).

***Myrmica latifrons* Starcke**

Record — Itawamba Co. (Smith 1924a).

***Myrmica pinetorum* Wheeler**

Records — Adams, Chickasaw, Lauderdale, Lowndes, Noxubee, Oktibbeha, and Pontotoc Cos. (MEM).

***Myrmica punctiventris* Roger**

Records — Adams, Attala, Chickasaw, Claiborne, Jasper, Lauderdale, Lowndes, Oktibbeha, Noxubee, Pontotoc, Washington, and Winston Cos. (MEM).

***Myrmica spatulata* Smith**

Records — Itawamba, Oktibbeha, and Sharkey Cos. (MEM).

***Pheidole bilimeki* Mayr**

(formerly identified as *P. floridana*).

Records — George, Hancock, Harrison, Jackson, and Perry Cos. (MEM).

***Pheidole bicarinata* Mayr**

Records — Attala, Bolivar, Chickasaw, Choctaw, Clarke, Clay, DeSoto, Grenada, Issaquena, Itawamba, Kemper, Lafayette, Lauderdale, Leake, Lee, Lowndes, Marshall, Montgomery, Neshoba, Noxubee, Oktibbeha, Panola, Pontotoc, Rankin, Scott, Tate, Tishomingo, Washington, and Winston Cos. (MEM); Newton and Tunica Cos. (Smith 1924a).

***Pheidole crassicornis* Emery**

Record — Stone Co. (Smith 1924a).

***Pheidole davisii* Wheeler**

Record — Tippah Co. (MEM).

***Pheidole dentata* Mayr**

Records — Adams, Attala, Carroll, Chickasaw, Choctaw, Clarke, Clay, Franklin, Forrest, George, Greene, Grenada, Hancock, Issaquena, Jackson,

Jefferson, Jefferson Davis, Jones, Lafayette, Lauderdale, Leake, Lee, Lowndes, Madison, Marshall, Montgomery, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pike, Pontotoc, Prentiss, Quitman, Scott, Sharkey, Stone, Sunflower, Tate, Tippah, Tishomingo, Warren, Washington, Webster, Wilkinson, Winston, Yalobusha, and Yazoo Cos. (MEM); Monroe Co. (Smith 1924b); Simpson Co. (Storz and Tschinkel 2004).

***Pheidole dentigula* Smith**

Records — Adams, Attala, Calhoun, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, Covington, Franklin, George, Grenada, Harrison, Holmes, Issaquena, Itawamba, Jackson, Jasper, Jefferson, Jefferson Davis, Jones, Kemper, Lafayette, Lauderdale, Leake, Lee, Lowndes, Madison, Marshall, Monroe, Montgomery, Newton, Noxubee, Oktibbeha, Pearl River, Perry, Pontotoc, Prentiss, Scott, Stone, Tallahatchie, Tishomingo, Warren, Wayne, Wilkinson, Winston, and Yalobusha Cos. (MEM).

***Pheidole lamia* Wheeler**

Records — Hinds, Jasper, and Jefferson Cos. (MEM).

***Pheidole metallescens* Emery**

Records — Adams, Choctaw, Clarke, Forrest, George, Grenada, Harrison, Holmes, Jackson, Jones, Kemper, Lauderdale, Leake, Noxubee, Oktibbeha, Perry, Pike, Scott, Wayne, Wilkinson, and Winston Cos. (MEM); Harrison Co. (Smith 1924b).

***Pheidole morrisii* Forel**

Records — Choctaw, Monroe, Oktibbeha, and Winston Cos. (MEM).

***#Pheidole navigans* Forel**

Records — Attala, Covington, Forrest, George, Greene, Hancock, Harrison, Hinds, Jackson, Jones, Lamar, Lauderdale, Lincoln, Marion, Monroe, Newton, Pearl River, Perry, Pike, Stone, and Wayne Cos. (MEM).

#*Pheidole obscurithorax* Naves

Records — Forrest, George, Greene, Hancock, Jackson, Jones, Perry, Pike, and Stone Cos. (MEM).

***Pheidole pilifera* (Roger)**

Records — Chickasaw, Clay, George, Lee, Lowndes, and Oktibbeha Cos. (MEM).

***Pheidole soritis* Wheeler**

Records — Clay, Lee, Oktibbeha, and Pontotoc Cos. (MEM).

***Pheidole tetra* Creighton**

Records — Clay, Chickasaw, Choctaw, Hancock, Lauderdale, Lowndes, Prentiss, and Winston Cos. (MEM).

***Pheidole tysoni* Forel**

Records — Attala, Chickasaw, Clay, DeSoto, Grenada, Hinds, Jasper, Kemper, Lafayette, Lee, Lowndes, Madison, Marshall, Monroe, Noxubee, Oktibbeha, Pontotoc, Scott, Tippah, Tishomingo, Washington, Webster, and Winston Cos. (MEM); Adams Co. (Smith 1924b).

***Pheidole* sp. A (*crassicornis* group)**

Records — Jackson, Marshall, Noxubee, and Stone Cos. (MEM). This species does not fit Wilson's key to *Pheidole* (2003) and is apparently an undescribed species in the *crassicornis* group.

***Pogonomyrmex badius* (Latreille)**

Records — George, Harrison, Jackson, Lamar, Lowndes, Noxubee, Pearl River, Smith, Stone, and Wayne Cos. (MEM); Jones and Rankin Cos. (Smith 1924a).

***Solenopsis abdita* Thompson**

Records — George, Noxubee, Scott, and Wayne

Cos. (MEM); Harrison Co. (G. Umphrey Pers. Comm.).

***Solenopsis carolinensis* Forel**

Records — Adams, Attala, Calhoun, Carroll, Chickasaw, Claiborne, Clarke, Clay, George, Greene, Grenada, Harrison, Hinds, Holmes, Jackson, Jasper, Jefferson, Jefferson Davis, Jones, Kemper, Lafayette, Lauderdale, Leake, Lee, Leflore, Lowndes, Madison, Marshall, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Perry, Pike, Pontotoc, Scott, Sharkey, Sunflower, Tallahatchie, Tishomingo, Washington, Webster, Wilkinson, Winston, Yalobusha, and Yazoo Cos. (MEM).

***Solenopsis geminata* (Fabricius)**

Records — Jackson and Oktibbeha Cos. (MEM). Listed as one of the most common ants in Mississippi by Smith (1924b), but not found in recent years.

***Solenopsis globularia* (Smith)**

Records — Jackson Co. (MEM); Stone Co. (Smith 1931a).

#*Solenopsis invicta* Buren

Records — Attala, Calhoun, Carroll, Claiborne, Clarke, Covington, Forrest, Franklin, George, Greene, Grenada, Hancock, Harrison, Hinds, Holmes, Issaquena, Jackson, Jasper, Jefferson Davis, Jones, Kemper, Lafayette, Lamar, Lauderdale, Leake, Leflore, Lowndes, Madison, Marion, Neshoba, Newton, Pearl River, Perry, Rankin, Scott, Sharkey, Stone, Washington, Wayne, Wilkinson, and Winston Cos. (MEM); Pike and Simpson Cos. (Storz and Tschinkel, 2004); widespread in the southern half of the state and farther north along the Mississippi River (Shoemaker et al. 1994).

#*Solenopsis invicta* X *richteri*

Records — Choctaw, Grenada, Lowndes, Oktibbeha, Prentiss, Tishomingo, and Winston Cos. (MEM); widespread in east-central to northern

portions of state (Shoemaker et al. 1994). This hybrid produced by *S. invicta* and *S. richteri* is virtually undistinguishable from *S. richteri*, and they cannot reliably be separated using morphological characters. However, *S. invicta*, *S. richteri*, and their hybrid can be identified using cuticular hydrocarbon methods (Vander Meer and Lofgren, 1988). Therefore, county records listed as being in the MEM represent specimens from samples that have been confirmed by this method.

***Solenopsis molesta* (Say)**

Records — Lauderdale and Oktibbeha Cos. (MEM).

***Solenopsis pergandei* Forel**

Records — Choctaw, Clay, Hancock, Harrison, Jackson, and Lauderdale Cos. (MEM); Clarke and Monroe Cos. (Smith 1931a).

***Solenopsis picta* Emery.**

Records — Adams, Attala, Claiborne, Copiah, Forrest, George, Greene, Hancock, Harrison, Jackson, Jefferson, Lauderdale, Leake, Leflore, Madison, Oktibbeha, Scott, Sharkey, Stone, Warren, and Yazoo Cos. (MEM).

#*Solenopsis richteri* Forel

Records — Alcorn, Clay, Lowndes, Oktibbeha, Prentiss, Tate, Tippah, Tunica, and Tishomingo Cos. (MEM); found in a band stretching from west-central to northeast Mississippi (Shoemaker et al. 1994; Vander Meer and Lofgren 1988). This species is virtually undistinguishable from the hybrid produced by it and *S. invicta*, and they cannot reliably be separated using morphological characters. However, *S. invicta*, *S. richteri*, and their hybrid can be identified using cuticular hydrocarbon methods (Vander Meer 1988). Therefore, county records listed as being in the MEM represent specimens from samples that have been confirmed by this method.

***Solenopsis salina* Wheeler**

Records — Hancock and Oktibbeha Cos. (Pacheco 2007).

***Solenopsis subterranea* MacKay and Vinson**

Records — Hancock and Jackson Cos. (MEM).

***Solenopsis tennesseensis* M. R. Smith.**

Records — George, Jones, and Noxubee Cos. (MEM).

***Solenopsis texana* Forel**

Records — Jackson, Sharkey, Washington, and Wilkinson Cos. (MEM).

***Solenopsis tonsa* Thompson**

Records — Jackson and Harrison (Large blackish queens from bird guts.) Cos. (MEM).

***Solenopsis xyloni* McCook**

Records — Amite, Clay, George, Humphreys, Oktibbeha, Prentiss, and Washington Cos. (MEM).

***Stenamma foveolocephalum* Smith**

Records — Smith Co. (MEM); Choctaw Co. (Smith 1931a); Winston Co. (Dubois and Davis 1998).

***Stenamma impar* Forel**

Records — Attala, Chickasaw, Claiborne, Clarke, Grenada, Itawamba, Jasper, Lafayette, Lauderdale, Lowndes, Marshall, Montgomery, Newton, Noxubee, Oktibbeha, Pontotoc, Prentiss, Tishomingo, and Winston Cos. (MEM).

***Strumigenys abdita* (Wesson & Wesson)**

Records — Noxubee, Scott, Tishomingo, and Washington Cos. (MEM).

***Strumigenys angulata* Smith**

Records — Attala, Carroll, Choctaw, Grenada, Hancock, Jasper, Lauderdale, Lee, Lowndes, Marshall, Montgomery, Noxubee, Pontotoc, Prentiss, Tishomingo, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM).

***Strumigenys bimarginata* Wesson and Wesson**

Records — Chickasaw, Oktibbeha and Pontotoc Cos. (MEM).

***Strumigenys brevisetosa* Smith**

Records — Attala, Clay, George, Holmes, Lee, Marshall, Oktibbeha, Washington, Wilkinson, and Winston Cos. (MEM).

***Strumigenys bunki* (Brown)**

Record — Harrison Co. (Bolton 2000).

***Strumigenys clypeata* Roger**

Records — Adams, Attala, Bolivar, Chickasaw, Carroll, Clarke, Clay, Covington, George, Grenada, Hinds, Lauderdale, Lee, Lowndes, Marshall, Newton, Noxubee, Oktibbeha, Pontotoc, Prentiss, Scott, Sharkey, Tishomingo, Washington, Wilkinson, and Winston Cos. (MEM).

***Strumigenys creightoni* M. R. Smith**

Records — Chickasaw, Clay, Jasper, Lee, Lowndes, Madison, Noxubee, Oktibbeha, Pontotoc, Scott, Washington, and Winston Cos. (MEM).

***Strumigenys dietrichi* M. R. Smith**

Records — Attala, Chickasaw, Clarke, Clay, George, Hinds, Jackson, Lauderdale, Lee, Lowndes, Marshall, Montgomery, Noxubee, Oktibbeha, Pike, Pontotoc, Prentiss, Sharkey, Washington, Wayne, Webster, and Winston Cos. (MEM).

***#Strumigenys epinotalis* Weber**

Record — Hancock Co. (MEM).

***Strumigenys filirrhina* (Brown)**

Record — Tishomingo Co. (MEM).

***#Strumigenys hexamera* (Brown)**

Records — Adams, Chickasaw, Clarke, Clay, Forrest, Franklin, George, Harrison, Jasper, Jefferson, Jefferson Davis, Jones, Lauderdale, Lee, Lowndes, Marion, Pontotoc, Scott, and Wilkinson, Cos. (MEM).

***Strumigenys hyalina* (Bolton)**

Records — Attala, Chickasaw, Choctaw, Lowndes, Oktibbeha, Pontotoc, Winston, and Washington Cos. (MEM).

***Strumigenys inopina* (Deyrup and Cover)**

Records — Lauderdale and Madison Cos. (MEM).

***Strumigenys laevinasis* M. R. Smith**

Records — Attala, Franklin, Lauderdale, Lowndes, Tishomingo, and Winston Cos. (MEM).

***Strumigenys louisianae* Roger**

Records — Adams, Attala, Calhoun, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, Clay, Covington, DeSoto, Forrest, Franklin, George, Greene, Grenada, Hancock, Harrison, Hinds, Holmes, Issaquena, Itawamba, Jackson, Jasper, Jefferson, Jefferson Davis, Jones, Kemper, Lafayette, Lauderdale, Leake, Lee, Lincoln, Lowndes, Madison, Marshall, Monroe, Montgomery, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pike, Pontotoc, Scott, Sharkey, Stone, Tallahatchie,

Tippah, Tishomingo, Warren, Washington, Wayne, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM).

#*Strumigenys margaritae* Forel

Record — Oktibbeha Co. (MEM).

*Strumigenys membranifera* Emery

Records — Attala, Clarke, Clay, Covington, Forrest, Franklin, George, Greene, Hancock, Harrison, Hinds, Jackson, Jasper, Jefferson, Jefferson Davis, Kemper, Lamar, Lauderdale, Lee, Lincoln, Lowndes, Madison, Marion, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pike, Scott, Stone, Warren, Wilkinson, Wayne, and Yalobusha Cos. (MEM); Greene, Humphreys, and Leflore Cos. (Smith 1931b, 1932).

***Strumigenys metazytes* (Bolton)**

Records — Noxubee, and Winston Cos. (MEM).

***Strumigenys missouriensis* M. R. Smith**

Records — Attala, Chickasaw, Lauderdale, Leake, Lee, Lowndes, Monroe, Oktibbeha, and Winston Cos. (MEM); Tippah Co. (Smith 1931b).

***Strumigenys ornata* Mayr**

Records — Attala, Chickasaw, Choctaw, Claiborne, Clarke, George, Grenada, Hinds, Issaquena, Itawamba, Jackson, Jasper, Jefferson, Jefferson Davis, Kemper, Lauderdale, Lee, Lincoln, Lowndes, Madison, Marion, Marshall, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pontotoc, Prentiss, Scott, Tishomingo, Warren, Washington, Wilkinson, and Winston Cos. (MEM).

***Strumigenys pergandei* Emery**

Records — Attala, Marshall, and Noxubee Cos. (MEM).

***Strumigenys pilinasis* Forel**

Records — Attala, Calhoun, Carroll, Chickasaw, Clarke, DeSoto, Grenada, Hinds, Issaquena, Jefferson, Lafayette, Lauderdale, Lee, Lowndes, Marshall, Newton, Noxubee, Oktibbeha, Pontotoc, Scott, Tishomingo, Warren, Washington, Wilkinson, Winston, and Yalobusha Cos. (MEM).

***Strumigenys pulchella* Emery**

Records — Amite, Attala, Choctaw, Clay, George, Hinds, Issaquena, Jefferson Davis, Lauderdale, Lowndes, Marshall, Montgomery, Noxubee, Oktibbeha, Panola, Pontotoc, Scott, Tishomingo, Washington, Wilkinson, and Winston Cos. (MEM); Monroe and Smith Cos. (Smith 1931b); and Bolton (2000) reported specimens from “Bond,” which could be either Neshoba or Stone Co.

***Strumigenys reflexa* Wesson & Wesson.**

Records — Adams, George, Holmes, Issaquena, Jefferson, Lauderdale, Lee, Marshall, Monroe, Noxubee, Pontotoc, Scott, Tishomingo, Warren, Washington, Wilkinson, and Winston Cos. (MEM).

***Strumigenys rohweri* M. R. Smith**

Records — Marshall Co. (MEM); Monroe Co. (Brown 1953).

***Strumigenys rostrata* Emery**

Records — Attala, Choctaw, Clarke, Franklin, George, Grenada, Harrison, Hinds, Itawamba, Jackson, Jasper, Jefferson, Jefferson Davis, Jones, Kemper, Lauderdale, Lee, Lowndes, Madison, Marshall, Newton, Noxubee, Oktibbeha, Perry, Pike, Prentiss, Scott, Sharkey, Tallahatchie, Tishomingo, Washington, Wayne, Webster, Winston, and Yalobusha Cos. (MEM).

#*Strumigenys silvestrii* Emery

Records — Clarke, George, Hinds, Jefferson, Lamar, Lauderdale, Madison, Noxubee, Pearl River, Scott, Warren, Wilkinson, and Winston Cos. (MEM).

***Strumigenys subnuda* (MacGown and Hill)**

Records — Jefferson Davis and Stone Cos. (MEM).

***Strumigenys talpa* Weber**

Records — Chickasaw, Covington, George, Harrison, Kemper, Lauderdale, Lee, Lincoln, Lowndes, Marshall, Neshoba, Noxubee, Oktibbeha, Panola, Pontotoc, Prentiss, Scott, Warren, Washington, and Winston Cos. (MEM).

***Strumigenys wrayi* (Brown)**

Record — Leake Co. (MEM).

***Temnothorax americanus* (Emery)**

Record — Winston (MEM).

***Temnothorax curvispinosus* (Mayr)**

Records — Adams, Attala, Bolivar, Calhoun, Carroll, Chickasaw, Clarke, Clay, Copiah, DeSoto, Franklin, George, Grenada, Hinds, Holmes, Issaquena, Itawamba, Jasper, Jefferson, Jefferson Davis, Jones, Kemper, Lafayette, Lauderdale, Leake, Lee, Leflore, Lowndes, Madison, Marshall, Monroe, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Perry, Pontotoc, Prentiss, Scott, Sharkey, Sunflower, Tallahatchie, Tate, Tippah, Tishomingo, Union, Warren, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM).

***Temnothorax longispinosus* (Roger)**

Records — Attala, Noxubee, and Tishomingo Cos. (MEM).

***Temnothorax pergandei* (Emery)**

Records — Adams, Attala, Chickasaw, Clarke, Clay, George, Grenada, Holmes, Issaquena, Itawamba, Jefferson, Lafayette, Lee, Leflore, Lincoln, Lowndes, Madison, Marshall, Montgomery, Noxubee, Oktibbeha, Panola, Pike, Pontotoc, Prentiss, Sharkey, Stone, Tippah, Tishomingo,

Warren, Washington, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM).

***Temnothorax schaumii* (Roger)**

Records — Adams, Benton, Calhoun, Chickasaw, Clarke, Clay, DeSoto, George, Grenada, Harrison, Holmes, Itawamba, Lauderdale, Lee, Leflore, Lowndes, Madison, Marshall, Montgomery, Noxubee, Oktibbeha, Panola, Pontotoc, Prentiss, Quitman, Scott, Sharkey, Sunflower, Tallahatchie, Tishomingo, Warren, Webster, Winston, and Yalobusha Cos. (MEM); Lee Co. (Smith 1924a).

***Temnothorax smithi* (Baroni Urbani)**

Records — Oktibbeha, Tippah, and Tishomingo Cos. (MEM).

***Temnothorax texanus* (Wheeler)**

Records — Tippah and Winston Cos. (Smith 1932).

***Temnothorax tuscaloosae* (Wilson)**

Records — Choctaw, Clarke, Lauderdale, Marshall, Tishomingo, and Winston Cos. (MEM).

#*Tetramorium bicarinatum* (Nylander)

Records — Attala, Hancock, Harrison, Jackson, and Pearl River Cos. (MEM); Harrison Co. (Smith 1924b).

#*Tetramorium immigrans* Santschi
(formerly called *T. caespitum* (Linnaeus)).

Record — Oktibbeha Co. (MEM).

#*Tetramorium lanuginosum* Mayr

Record — Clay Co. (MEM).

***Trachymyrmex septentrionalis* (McCook)**

Records — Adams, Attala, Carroll, Chickasaw, Clarke, Clay, Forrest, Franklin, George, Greene, Grenada, Hancock, Harrison, Hinds, Holmes,

Issaquena, Itawamba, Jackson, Jasper, Jefferson, Kemper, Lafayette, Lauderdale, Leake, Lee, Lowndes, Marshall, Monroe, Noxubee, Oktibbeha, Panola, Pearl River, Pike, Pontotoc, Prentiss, Scott, Stone, Tallahatchie, Tate, Tippah, Tishomingo, Warren, Washington, Wayne, Webster, Wilkinson, Winston, and Yalobusha Cos. (MEM).

PONERINAE

#*Brachyponera chinensis* (Emery).

Records — Pearl River Co. (MEM).

***Cryptopone gilva* (Roger)**

Records — Alcorn, Attala, Clarke, Franklin, Harrison, Holmes, Lauderdale, Lowndes, Madison, Monroe, Noxubee, Oktibbeha, Tippah, Wilkinson, and Winston Cos. (MEM).

***Hypoconerina innoxiosa* (Wheeler)**

Records — Clay, Kemper, Lee, Lowndes, Noxubee, and Oktibbeha Cos. (MEM).

#*Hypoconerina opaciceps* (Mayr).

Records — Attala, Clay, Covington, George, Hancock, Issaquena, Jackson, Jefferson Davis, Lauderdale, Lowndes, Monroe, Noxubee, Oktibbeha, Scott, Stone, and Winston Cos. (MEM); Adams and Jefferson Cos. (Smith 1927).

***Hypoconerina opacior* (Forel)**

Records — Adams, Attala, Calhoun, Carroll, Chickasaw, Choctaw, Claiborne, Clarke, Clay, Copiah, Covington, DeSoto, Forrest, Franklin, George, Greene, Grenada, Hancock, Harrison, Hinds, Holmes, Issaquena, Jackson, Jasper, Jefferson, Jefferson Davis, Jones, Kemper, Lafayette, Lamar, Lauderdale, Leake, Lee, Leflore, Lowndes, Madison, Marshall, Monroe, Montgomery, Neshoba, Newton, Noxubee, Oktibbeha, Panola, Pontotoc, Prentiss, Scott, Sharkey, Stone, Sunflower, Tallahatchie, Tate, Tishomingo, Union, Warren, Washington, Wayne, Webster, Wilkinson, Winston, Yalobusha, and Yazoo

Cos. (MEM).

#*Hypoconerina punctatissima* (Roger)

Records — Jackson Co. (MEM).

***Odontomachus brunneus* (Patton)**

Record — Harrison Co. (MEM).

#*Odontomachus haematodus* (Linnaeus)

Records — Greene and Jackson Cos. (MEM).

***Ponera exotica* Smith**

Records — Attala, Chickasaw, Clarke, Grenada, Holmes, Jasper, Jefferson, Lee, Lowndes, Noxubee, Oktibbeha, Pontotoc, Scott, Tishomingo, Winston, and Yalobusha Cos. (MEM).

***Ponera pennsylvanica* Buckley**

Records — Adams, Alcorn, Attala, Calhoun, Carroll, Chickasaw, Choctaw, Clarke, Clay, Covington, DeSoto, Franklin, George, Grenada, Hancock, Harrison, Holmes, Itawamba, Jackson, Jasper, Jefferson, Jefferson Davis, Kemper, Lafayette, Lauderdale, Leake, Lee, Lowndes, Madison, Marshall, Monroe, Montgomery, Newton, Noxubee, Oktibbeha, Panola, Pearl River, Perry, Pike, Pontotoc, Prentiss, Scott, Sharkey, Tallahatchie, Tishomingo, Union, Warren, Washington, Webster, Winston, and Yalobusha Cos. (MEM).

PROCERATIINAE

***Discothyrea testacea* Roger**

Records — Clarke, DeSoto, Forrest, Grenada, Greene, Hancock, Holmes, Kemper, Lauderdale, Lee, Lincoln, Lowndes, Madison, Marshall, Noxubee, Oktibbeha, Panola, Perry, Pontotoc, and Winston Cos. (MEM).

***Proceratium chickasaw* De Andrade**

Records — Harrison, Lauderdale and

Tishomingo Cos. (MEM); Tippah Co. (Baroni Urbani and De Andrade 2003).

***Proceratium crassicorne* Emery**

Records — Clay, Lauderdale, Marshall, and Winston Cos. (MEM); Winston Co. (Baroni Urbani and De Andrade 2003).

***Proceratium croceum* (Roger)**

Records — Jackson, Monroe, Noxubee, Oktibbeha, Scott, and Winston Cos. (MEM); Lowndes Co. (Smith, 1928a) and Choctaw Co. (Baroni Urbani and De Andrade 2003).

***Proceratium pergandei* (Emery)**

Records — Chickasaw, George, Jasper, Lauderdale, Marshall, Newton, Noxubee, Oktibbeha, Scott, Tippah, Warren, and Winston Cos. (MEM); Alcorn Co. (Baroni Urbani and De Andrade 2003).

***Proceratium silaceum* Roger**

Records — Chickasaw, Clay, Forrest, George, Grenada, Lafayette, Lauderdale, Leake, Lowndes, Marshall, Noxubee, Oktibbeha, Scott, Tishomingo, Washington, and Winston Cos. (MEM); Alcorn, Tippah, and “Bond,” which could be either Neshoba or Stone Co. (Baroni Urbani and De Andrade 2003).

PSEUDOMYRMECINAE

***Pseudomyrmex ejectus* (F. Smith)**

Records — Adams, Clarke, Clay, George, Greene, Hancock, Harrison, Jackson, Jefferson Davis, Lauderdale, Newton, Oktibbeha, Pearl River, Stone, Wilkinson, and Winston Cos. (MEM); Harrison Co. (Tim Lockley Collection).

#*Pseudomyrmex gracilis* (Fabricius)

Records — Hancock, Harrison, Jackson, and Pearl River Cos. (MEM).

***Pseudomyrmex pallidus* (F. Smith)**

Records — Adams, Attala, Bolivar, Chickasaw, Claiborne, Clarke, Clay, Copiah, Forrest, George, Greene, Grenada, Harrison, Holmes, Jackson, Jasper, Kemper, Lauderdale, Lawrence, Lincoln, Madison, Newton, Noxubee, Oktibbeha, Pearl River, Pike, Scott, Sharkey, Sunflower, Warren, Wayne, and Winston Cos. (MEM); Hancock Co. and Union City (County unknown) (Smith 1924a).

***Pseudomyrmex seminole* Ward**

Records — Jasper and Newton Cos. (MEM); Harrison Co. (Ward 1985).

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