BioOne DIGITAL LIBRARY

An Updated List of the Ants (Formicidae: Hymenoptera) of South Carolina

Authors: MacGown, Joe A., Rasoamanana, Nicole, Booher, Doug, Resasco, Julian, Dandridge, Raven S., et al.

Source: Transactions of the American Entomological Society, 152(3) : 433-453

Published By: The American Entomological Society

URL: https://doi.org/10.3157/061.152.0306

The BioOne Digital Library (https://bioone.org/) provides worldwide distribution for more than 580 journals and eBooks from BioOne's community of over 150 nonprofit societies, research institutions, and university presses in the biological, ecological, and environmental sciences. The BioOne Digital Library encompasses the flagship aggregation BioOne Complete (https://bioone.org/subscribe), the BioOne Complete Archive (https://bioone.org/archive), and the BioOne eBooks program offerings ESA eBook Collection (https://bioone.org/esa-ebooks) and CSIRO Publishing BioSelect Collection (https://bioone.org/csiro-ebooks).

Your use of this PDF, the BioOne Digital Library, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

Usage of BioOne Digital Library content is strictly limited to personal, educational, and non-commmercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne is an innovative nonprofit that sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

TRANSACTIONS AMERICAN ENTOMOLOGICAL SOCIETY

RESEARCH ARTICLE

TAES 152: 433-453
ISSO 0002-8320
https://americanentomologicalsociety.org/publications/

AN UPDATED LIST OF THE ANTS (FORMICIDAE: HYMENOPTERA) OF SOUTH CAROLINA

Joe A. MacGown[1], Nicole Rasoamanana[1], Doug Booher[2], Julian Resasco[3], Raven S. Dandridge[4], and JoVonn G. Hill[1]

[1]*Department of Agricultural Science and Plant Protection, Mississippi State University, Mississippi State, MS 39762*
[2]*Department of Entomology, University of Georgia, Athens, GA 30602*
[3]*Department of Ecology & Evolutionary Biology, University of Colorado at Boulder, Boulder, Colorado, USA 80309*
[4]*West Columbia, South Carolina 29072*

ABSTRACT

Based on published, unpublished, and new records, we report 186 ant species for South Carolina, including 22 considered to be non-native. Of the non-native species, four are considered to be invasive: *Solenopsis invicta* Buren (red imported fire ant), *Linepithema humile* (Mayr) (Argentine ant), *Brachymyrmex patagonicus* Mayr (dark rover ant), and *Brachyponera chinensis* (Emery) (Asian needle ant). County records are given for each species. Differences in the number of species reported from each county appears to be primarily related to research intensity.
KEYWORDS: Hymenoptera, Formicidae, South Carolina, ants, alien species

INTRODUCTION

South Carolina is comprised of 46 counties and five major ecoregions including the Blue Ridge, Piedmont, Sandhills, Coastal Plain, and Coastal Zone (Fig. 1; South Carolina Department of Natural Resources 2014). With these distinct physiographic changes from mountainous to seascape habitats, one would expect a high diversity of ant species in the state. The history of reporting the ants of South Carolina started with renowned myrmecologist Marion Smith who published early papers about species that he collected at Clemson College and nearby localities (Smith & Morrison 1916, Smith 1916a, Smith 1916b, and Smith 1918). Later, Smith published a list of ants of South Carolina (Smith 1934) where he listed 98 taxa, some of which were lost to synonymy. The next survey of ants of South Carolina was not published until Van Pelt and Gentry published the results of a study of ants collected at the Savannah River Site in 1976 and 1977 (Van Pelt & Gentry 1985). Their study documented 89 taxa, many of which were already known from South Carolina. In 2009, Tim Davis published a more comprehensive list of the ants of South Carolina as partial fulfillment for his PhD at Clemson University (Davis 2009). As a result of his collections throughout the state combined with literature records, Davis listed 121 species of ants, two of which are now considered synonyms.

METHODS

Records for this study are based on specimens examined by the authors from the Mississippi Entomological Museum (MEM), Clemson University Arthropod Collection (CUAC), and the personal collection of Doug Booher (DBBC); literature records; online databases Antweb.org and Ecdysis.org; and research grade records

Publication date: 31 October 2026

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

from the citizen science based iNaturalist.org. For records obtained from iNaturalist.org, we used only observations designated as "research grade" that included locality data, multiple identifiers, and photographs of sufficient quality to permit independent evaluation of the identification. We recognize, however, that species-level identifications based on photographs are not equally reliable across all ant groups. In particular, records of genera such as *Brachymyrmex*, *Lasius, Nylanderia*, small *Solenopsis*, and *Strumigenys* were treated cautiously because many species in these groups cannot be confidently separated from photographs alone. Such records were accepted only when diagnostic features were visible or the identification was otherwise supported; otherwise, they were regarded as tentative, following the same conservative approach applied to literature records of *Solenopsis molesta*.

Taxonomic names for this study follow Antcat.org (AntCat 2026).

For each taxon we provide county records with counties representing species examined by the authors given first (CUAC, DBBC, and MEM collections), followed by records from Antweb.org, literature records, and iNaturalist records (iNaturalist.org).

Only unique county records are listed for literature records, with duplicate counties excluded if specimens from those counties were in the CUAC, DBBC, and/or MEM collections. Ant species documented in the Savannah River Plant (now known as the Savannah River Site) study by Van Pelt and Gentry (1985) included records from Aiken and Barnwell Counties; however, records in the paper were given as being from various habitat types at the Savannah River Site rather than from the individual counties, so exact county records are unclear. Therefore, we list records from their study as Aiken/Barnwell (SRS) Counties. Since that study, several ecological studies have been done at this site (Burt et al. *in press*, Resasco et al. 2012, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021). For these studies, Aiken and Barnwell Counties records can be resolved separately. Similarly, Smith (1934) include records of species from "Clemson College," the campus of which is in both Anderson and Pickens Counties. We give those records as Anderson/Pickens Counties.

RESULTS

We report 186 species of ants for South Carolina, including 22 considered to be non-native. Of the non-native species, four are considered to be invasive: *Solenopsis invicta* Buren (red imported fire ant), *Linepithema humile* (Mayr) (Argentine ant), *Brachymyrmex patagonicus* Mayr (dark rover ant), and *Brachyponera chinensis* (Emery) (Asian needle ant). Non-native species in the list below are prefixed by the asterisk symbol (*). Names are arranged alphabetically by subfamily, genus, and species.

DISCUSSION

Based on our report of the species collected in South Carolina we observed several "hotspots" for species diversity (see Fig. 1). However, we believe that the higher number of species reported from these areas is the result of collecting bias and likely reflect counties and localities where more collections were made by researchers over time. For example, the highest species total was found in Aiken County with 123 species followed by neighboring Barnwell County with 99 species. A large portion of the Savannah River Site, which covers approximately 810 km^2, is located within these counties. The Savannah River Site, once known for production of materials for nuclear weapons, refocused its direction after the Cold War toward environmental cleanup, management of nuclear materials, and research (https://www.energy.gov/em/savannah-river-site). This huge site is located in the southern portion of the Sandhills ecoregion bordering the Savannah River and Georgia. With its large tract of mostly intact sandhill habitat, it has proven to be an alluring site for numerous researchers

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

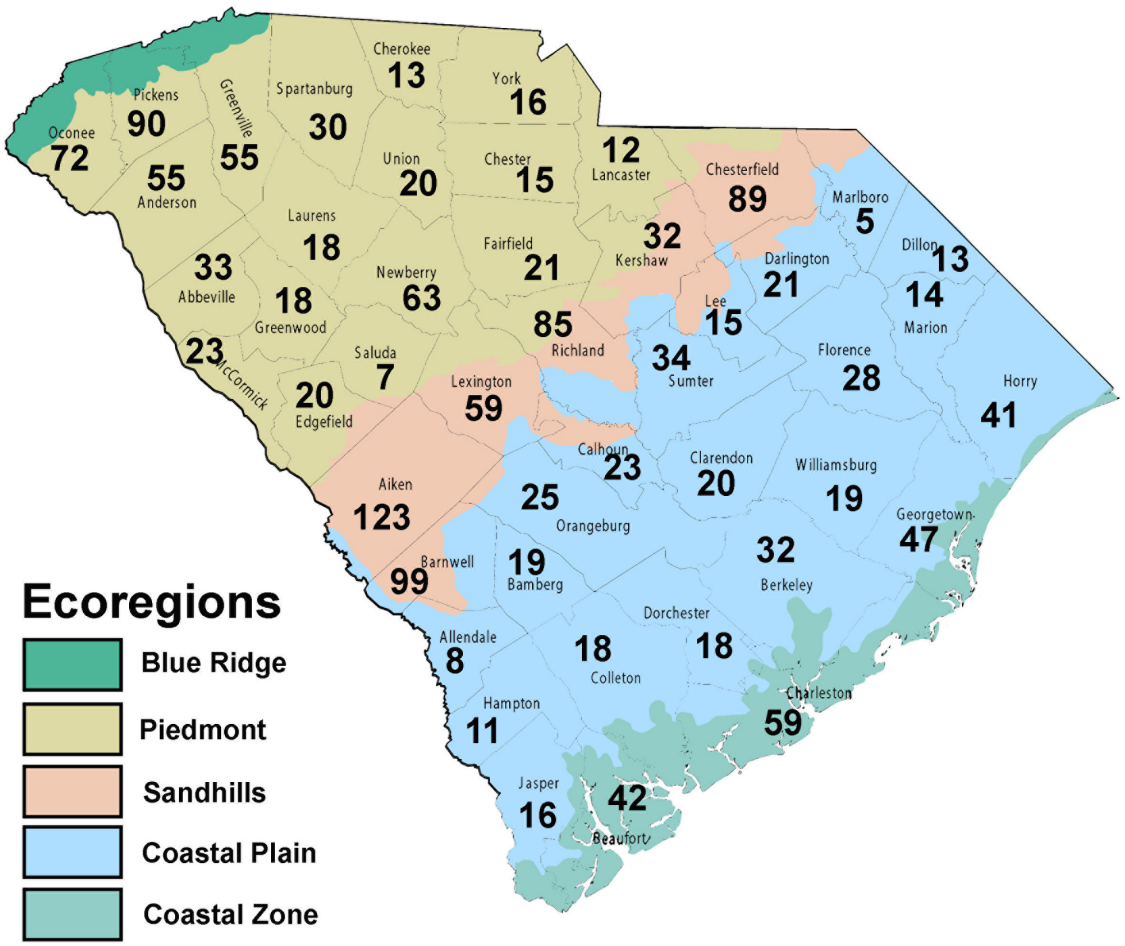


Figure 1. Map of South Carolina showing counties and five major ecoregions (adapted from South Carolina Department of Natural Resources 2014). Numbers represent the number of species collected from each county.

in recent years, including myrmecologists. Van Pelt and Gentry conducted their seminal study of ants at the site in 1976 and 1977 (published in 1985), and since then other researchers have conducted myrmecological studies at the site (Burt et al. *in press*, Resasco et al. 2012, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021). The third highest species total of 90 was from Pickens County, which borders North Carolina and is in both Blue Ridge and Piedmont ecoregions. Clemson University is located in Pickens and Anderson counties. Myrmecologist Marion R. Smith graduated from Clemson in 1915 and while attending the university he documented the ant fauna of the university and surrounding region. His early work with ants inspired future collections of ants

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

by researchers and students at the university. Not surprisingly, the neighboring counties of Anderson, Greenville, and Oconee Counties also have relatively high ant species numbers with 55, 55, and 72 respectively.

We report 89 species from Chesterfield County, which borders North Carolina and is located mostly in the sandhills region. The primary reason for the high number of species reported from this county resulted from a weeklong collecting trip by the MEM when participants collected 55 species of ants (MacGown & Hill 2013). Richland County, located in the center of the state and home to the University of South Carolina, boasted 85 species. Similar to the situation at Clemson University where neighboring counties had high species diversity, both Lexington and Newberry Counties, which border Richland County had high numbers with 55 and 63 species respectively. The only other region with relatively high species numbers currently reported is along the Atlantic coastline with 42 species from Beaufort, 59 from Charleston, 47 from Georgetown, and 41 from Horry Counties.

In bordering North Carolina and Georgia, 192 species were reported by Guénard et al (2012) and at least 200 species have been found in Georgia (DB, JAM unpublished data). With additional targeted collections in South Carolina, the list of species from the state is expected to increase and should be similar to these bordering states.

Formicidae of South Carolina

FORMICIDAE

AMBLYOPONINAE

Stigmatomma pallipes (Haldeman)

Distribution — Calhoun, Chesterfield, Georgetown, Greenville, Newberry, Oconee, Orangeburg, Pickens, and Richland Cos. (CUAC, MEM); Abbeville, Aiken, Anderson, Barnwell, Edgefield, Laurens, and York (Davis 2009, iNaturalist 2026, Resasco & Fletcher 2021, Resasco unpublished data, Smith 1934, Van Pelt and Gentry 1985).

DOLICHODERINAE

Dolichoderus mariae Forel

Distribution — Aiken, Horry and Pickens Cos. (CUAC, MEM); Barnwell, Chesterfield, Richland, Oconee, and Sumter, Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2023, Van Pelt and Gentry 1985).

Dolichoderus plagiatus (Mayr)

Distribution — Chesterfield Co. (CUAC); Anderson/Pickens Cos. (Smith 1934).

Dolichoderus pustulatus Mayr

Distribution — Chesterfield Co. (CUAC, MEM); Aiken, Anderson/Pickens (Clemson), Clarendon, Horry, Lexington, Oconee, and Richland Cos. (Davis 2009, iNaturalist 2026, Smith 1934, Resasco & Fletcher 2021).

Dolichoderus taschenbergi (Mayr)

Distribution — Aiken/Barnwell (SRS), Anderson/Pickens Cos. (Clemson), Spartanburg Co. (Davis 2009, Smith 1934, Van Pelt and Gentry 1985).

Dorymyrmex bureni (Trager)

Distribution — Aiken, Beaufort, Charleston, Chesterfield, Darlington, and Pickens Cos. (MEM); Bamberg, Barnwell, Berkeley, Colleton, Dillon, Georgetown, Greenville, Hampton, Horry, Jasper, Kershaw, Lexington, Oconee, Orangeburg, Richland, and Sumter Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

***Dorymyrmex flavopectus* Smith**

Distribution — Aiken/Barnwell (SRS) Cos. (Van Pelt and Gentry 1985).

***Dorymyrmex grandulus* (Forel)**

Distribution — Aiken and Barnwell Cos. (Resasco et al. 2014a, Resasco et al. 2023, Resasco & Fletcher 2021, Roeder et al. 2021, Van Pelt and Gentry 1985).

***Dorymyrmex smithi* Cole**

Distribution — Aiken and Chesterfield Cos. (MEM); Barnwell, Dillon, Kershaw, and Sumter Cos. (Antweb 2026, Burt et al. in press, Davis 2009, Resasco et al. 2023).

***Forelius pruinosus* (Roger)**

Distribution — Aiken, Charleston and Chesterfield Cos. (CUAC, MEM); Barnwell, Pickens, and Richland Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a , 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021).

***Forelius* n. sp.**

Distribution — Aiken Co. (MEM). This is an undescribed species that nests in deep sand areas and differs from *F. pruinosus* by having abundant pilosity.

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

Distribution — Chester, Kershaw, Marion, Richland, and Sumter Cos. (CUAC, MEM); Anderson, Charleston, Cherokee, Clarendon, Darlington, Dillon, Dorchester, Florence, Greenville, Horry, Lancaster, Lee, Lexington, McCormick, Newberry, Pickens, Spartanburg, and York Cos. (Davis 2009, iNaturalist 2026, Smith 1934).

******Tapinoma melanocephalum* (Fabricius)**

Distribution — Richland Co. (Davis 2009, iNaturalist 2026).

***Tapinoma sessile* (Say)**

Distribution — Chesterfield and Oconee Cos. (MEM); Abbeville, Aiken, Anderson, Bamberg, Barnwell, Beaufort, Berkeley, Colleton, Edgefield, Fairfield, Greenville, Greenwood, Hampton, Jasper, Laurens, Lexington, Newberry, Orangeburg, Pickens, Richland, Spartanburg, Sumter, Union, and York Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Smith 1934, Resasco et al. 2014a , Resasco et al. 2023, Resasco unpublished data,).

***Tapinoma* n**

Distribution — Chesterfield and Greenville Cos. (CUAC).

******Technomyrmex difficilis* Forel**

Distribution — Richland Co. (Davis 2009, reported as *Technomyrmex albipes* (F. Smith).

DORYLINAE

***Neivamyrmex carolinensis* (Emery)**

Distribution — Chesterfield and Spartanburg Cos. (CUAC, MEM); Aiken, Barnwell, and Lexington Cos. (iNaturalist 2026, Roeder et al. 2021, Smith 1934, Van Pelt and Gentry 1985,)
.

***Neivamyrmex nigrescens* (Cresson)**

Distribution — Aiken/Barnwell (SRS) Cos. (Van Pelt and Gentry 1985).

***Neivamyrmex opacithorax* (Emery)**

Distribution — Chesterfield and Greenville Cos. (CUAC, MEM); Aiken, Anderson, Barnwell, Charleston, Georgetown,

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

Greenwood, Kershaw, McCormick, Newberry, Oconee, Pickens, Richland, Sumter, Union, and Williamsburg Cos. (Burt et al. in press, Davis 2009, Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Smith 1934).

***Neivamyrmex texanus* Watkins**

Distribution — Chesterfield Co. (CUAC); Aiken, Barnwell, Edgefield, Georgetown, Greenville, Horry, and Pickens Cos. (Burt et al. in press, Davis 2009, Resasco et al. 2014a, Resasco et al. 2023, Roeder et al. 2021).

ECTATOMMINAE

****Poneracantha triangularis* (Mayr)**

Distribution — Beaufort and Richland Cos. (iNaturalist 2026, Wang et al. 2021).

FORMICINAE

***Brachymyrmex depilis* Emery**

Distribution — Chesterfield, Georgetown, Greenville, Oconee, Pickens, and Richland Cos. (CUAC, MEM); Aiken, Anderson, Barnwell, Charleston, Lexington, and Newberry Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Smith 1934, Van Pelt and Gentry 1985, Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021).

***Brachymyrmex minutus* Forel**

Distribution — Aiken Co. (CUAC).

****Brachymyrmex patagonicus* Mayr**

Distribution — Aiken, Horry, and Richland Cos. (MEM). Aiken and Barnwell Cos (Burt et al. in press, Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021) According to a study by Bowers (2018), *B. patagonicus* occurs in every county in South Carolina.

***Brachymyrmex* sp**

Distribution — Chesterfield, Georgetown, and Greenville Cos. (CUAC).

***Camponotus americanus* Mayr**

Distribution — Charleston, Chesterfield, Edgefield, Greenville, Lexington, and Pickens Cos. (CUAC, MEM); Abbeville, Aiken, Anderson, Bamberg, Beaufort, Berkeley, Chester, Darlington, Dorchester, Fairfield, Florence, Georgetown, Horry, Laurens, Newberry, Oconee, Orangeburg, Richland, Spartanburg, Sumter, Union, and York Cos. (Davis 2009, iNaturalist 2026, Sargent et al. 2001, Smith 1934).

***Camponotus caryae* (Fitch)**

Distribution — Aiken, Barnwell, Chester, Horry, Jasper, Kershaw, Lexington, Marlboro, Newberry, Pickens, Richland, and Spartanburg Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2023, Roeder et al. 2021, Sargent et al. 2001, Smith 1934).

***Camponotus castaneus* (Latreille)**

Distribution — Widespread. Abbeville, Aiken, Anderson, Charleston, Chesterfield, Georgetown, Lexington, Pickens, and Richland Cos. (CUAC, MEM); Bamberg, Barnwell, Beaufort, Berkeley, Cherokee, Clarendon, Colleton, Dorchester, Edgefield, Fairfield, Florence, Greenville, Greenwood, Horry, Kershaw, Laurens, Marion, McCormick, Newberry, Orangeburg, Spartanburg, Sumter, Union, Williamsburg, and York Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Sargent et al. 2001, Smith 1934, Resasco et al. 2014a , Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021, Van Pelt and Gentry 1985).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

Camponotus chromaiodes Bolton

Distribution — Widespread. Abbeville, Anderson, Berkeley, Charleston, Chesterfield, Dillon, Dorchester, Florence, Lexington, Oconee, Pickens, Richland, and Union Cos. (CUAC, MEM); Aiken, Allendale, Bamberg, Barnwell, Clarendon, Darlington, Greenville, Greenwood, Hampton, Horry, Kershaw, Lancaster, Laurens, Newberry, Orangeburg, Sumter, and Williamsburg Cos. (Davis 2009, iNaturalist 2026, Resasco & Fletcher 2021, Resasco et al. 2014a, Resasco unpublished data, Roeder et al. 2021, Sargent et al. 2001, Van Pelt and Gentry 1985).

Camponotus decipiens Emery

Distribution — Laurens and Pickens Cos. (CUAC); Aiken/Barnwell (SRS) (reported as *C. sayi*), Anderson, Bamburg, Berkeley, Calhoun, Charleston, Chesterfield, Darlington, Edgefield, Greenville, Greenwood, Horry, Jasper, Kershaw, Lancaster, Lexington, Newberry, Oconee, Richland, Saluda, Spartanburg, Sumter, and Union Cos. (Davis 2009, iNaturalist 2026, Sargent et al. 2001, Smith 1934).

Camponotus discolor (Buckley)

Distribution — Charleston Co. (Sargent et al. 2001).

Camponotus floridanus (Buckley)

Distribution — Beaufort and Charleston Co. (CUAC, MEM); Barnwell, Colleton, Greenville, and Jasper Cos. (Antweb 2026, Davis 2009, Sargent et al. 2001, Smith 1934, Van Pelt and Gentry 1985).

Camponotus nearcticus Emery

Distribution — Anderson, Chesterfield, Colleton, Dorchester, Fairfield, and Pickens Cos. (CUAC, MEM); Abbeville, Aiken, Barnwell, Calhoun, Chester, Clarendon, Florence, Greenville, Lee, Lexington, Newberry, Richland, Sumter, and Union Cos. (Davis 2009, iNaturalist 2026, Resasco et al. 2014a, Roeder et al. 2021, Sargent et al. 2001, Van Pelt and Gentry, 1985).

Camponotus pennsylvanicus (DeGeer)

Distribution — Widespread. Anderson, Chesterfield, Georgetown, Greenville, Oconee, and Pickens Cos. (CUAC, MEM); Abbeville, Aiken, Allendale, Bamberg, Barnwell, Beaufort, Berkeley, Charleston, Cherokee, Chester, Clarendon, Colleton, Darlington, Dillon, Florence, Greenwood, Horry, Kershaw, Lancaster, Laurens, Lee, Lexington, McCormick, Newberry, Orangeburg, Richland, Saluda, Spartanburg, Sumter, Union, and York (Davis 2009, iNaturalist 2026, Resasco et al. 2014b, Resasco unpublished data, Roeder et al. 2021, Sargent et al. 2001, Smith 1934, Van Pelt and Gentry 1985).

Camponotus snellingi Bolton

Distribution — Anderson and Charleston Co. (CUAC, MEM); Beaufort, Chesterfield, Florence, Georgetown, Horry, Lexington, Richland, and Sumter Cos. (Davis 2009, iNaturalist 2026).

Camponotus socius Roger

Distribution — Anderson, Berkeley, Chesterfield, Lexington, and Richland Cos. (CUAC, MEM); Aiken, Barnwell, Horry, Kershaw, Lee, and Sumter Cos. (Burt et al. in press, iNaturalist 2026, Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021, Van Pelt and Gentry 1985).

Camponotus subbarbatus Emery

Distribution — Abbeville and Anderson Cos. (CUAC); Greenville, Laurens, Oconee, Pickens, and York Cos. (Davis 2009, iNaturalist 2026).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

Colobopsis impressa Roger

Distribution — Chesterfield, Dorchester, Horry, Oconee, and Pickens Cos. (CUAC, MEM); Aiken/Barnwell (SRS), Beaufort, Charleston, Lancaster, Lee, Lexington, Newberry, and Richland Cos. (Davis 2009, iNaturalist 2026, Van Pelt and Gentry 1985).

Colobopsis mississippiensis (Smith)

Distribution — Anderson Co. (CUAC); Charleston, Newberry, Pickens, and Richland Cos (Antweb 2026, iNaturalist 2026, Smith 1934).

Colobopsis obliqua (Smith)

Distribution — Anderson, Chesterfield, and Pickens Cos. (CUAC, MEM); Barnwell, Charleston, Greenville, Richland, and Spartanburg Co. (Antweb 2026, iNaturalist 2026, Smith 1934).

Formica argentea Wheeler

Distribution — Anderson, Chesterfield, Darlington, and Pickens Cos. (CUAC); Aiken, Oconee, and Richland Cos. (Davis 2009).

Formica biophilica Trager

Distribution — Chesterfield, Georgetown and Pickens Cos. (CUAC).

Formica difficilis Emery

Distribution — Aiken/Barnwell (SRS) Cos. (Van Pelt and Gentry 1985).

Formica dolosa Buren

Distribution — Chesterfield Co. (MEM); Aiken, Barnwell, Berkeley, Cherokee, Florence, Georgetown, Greenville, Horry, Kershaw, McCormick, Oconee, Richland, Spartanburg, and Sumter Cos. (Antweb 2026, Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, 2014b, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021, Trager et al. 2007, Van Pelt and Gentry 1985).

Formica integra Nylander

Distribution — Aiken, Barnwell, Greenville and Pickens Cos. (CUAC); Lexington and Oconee Cos. (Burt et al. in press, Davis 2009, Resasco et al. 2014a, Resasco et al. 2023).

Formica pallidefulva Latreille

Distribution — Anderson and Chesterfield Cos. (MEM); Aiken, Barnwell, Berkeley, Georgetown, Horry, Kershaw, Newberry, Pickens, Richland, and Sumter, Cos. (Antweb 2026, Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, 2014b, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021, Smith 1934, Van Pelt and Gentry 1985).

Formica querquetulana Kennedy and Dennis

Distribution — Pickens Co. (Davis 2009).

Formica subintegra Wheeler

Distribution — Chesterfield Co. (MEM); Anderson/Pickens (Clemson) Cos. (Smith 1934).

Formica subsericea Say

Distribution — Chesterfield Co. (MEM); Abbeville, Aiken, Anderson, Barnwell, Florence, Greenville, Horry, Lexington, Oconee, Pickens, Richland, and Spartanburg Cos. (Burt et al. in press, iNaturalist 2026, Resasco et al. 2014a, Resasco et al. 2023, Resasco unpublished data, Smith1934, Van Pelt and Gentry 1985).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

***Lasius americanus* Emery**

Distribution — Berkeley, Charleston, Cherokee, Chesterfield, Fairfield, Georgetown, Newberry, and Pickens Cos. (CUAC, MEM); Aiken, Barnwell, Colleton, Dorchester, Oconee, Sumter (Burt et al. in press, Davis 2009, Resasco et al. 2023).

***Lasius aphidicola* (Walsh)**

Distribution — Aiken, Barnwell, and Chesterfield Cos. (Davis 2009, reported as *L. umbratus*). Richland Co. (iNaturalist 2026).

***Lasius brevicornis* Emery**

Distribution — Aiken/Barnwell (SRS), Pickens Co. (Davis 2009, Van Pelt and Gentry1985, reported as *L. flavus*).

***Lasius claviger* (Roger)**

Distribution — Chesterfield, Greenville, Newberry, Oconee, and Pickens Cos. (CUAC); Anderson/Pickens (Clemson) and Richland Cos. (iNaturalist 2026, Smith 1934)
.

***Lasius interjectus* (Mayr)**

Distribution — Barnwell, Newberry, Pickens, and Spartanburg Cos. (iNaturalist 2026, Smith 1934, Resasco et al. 2014).

***Lasius latipes* (Walsh)**

Distribution — Florence Co. (Smith 1965).

***Lasius murphyi* (Forel)**

Distribution — Chesterfield Co. (CUAC, MEM).

***Lasius neoniger* Emery**

Distribution — Barnwell and Pickens Cos. (CUAC, MEM); Aiken, Chesterfield, Charleston, Cherokee, Greenville, Lexington, Marion, Newberry, Oconee, Richland, Spartanburg, Sumter, and Union Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, Resasco et al. 2023, Resasco unpublished data,

***Nylanderia arenivaga* (Wheeler)**

Distribution — Oconee Co. (CUAC, MEM); Aiken, Barnwell, and Richland Cos. (Burt et al. in press, iNaturalist 2026, Resasco & Fletcher 2021, Resasco et al. 2014a, Resasco et al. 2023, Roeder et al. 2021, Van Pelt and Gentry 1985)
.

****Nylanderia bourbonica* (Forel)**

Distribution — Davis 2009); Charleston and Dorchester Cos.(Smith 1934).

***Nylanderia concinna* (Trager)**

Distribution — Anderson, Berkeley, Chesterfield, Fairfield, Georgetown, Greenville, Kershaw, Lexington, and Newberry Cos. (CUAC); Aiken, Barnwell, Charleston, Horry, Jasper, Oconee, Richland, Sumter, and Williamsburg Cos. (Davis 2009, Resasco et al. 2014a, Resasco unpublished data).

***Nylanderia faisonensis* (Forel)**

Distribution — Aiken, Anderson, Berkeley, Calhoun, Chesterfield, Darlington, Fairfield, Georgetown, Greenville, Horry, Kershaw, McCormick, Newberry, Oconee, Orangeburg, Pickens, and Richland Cos. CUAC, MEM); Abbeville, Bamberg, Barnwell, Beaufort, Charleston, Clarendon, Edgefield, Greenwood, Hampton, Jasper, Laurens, Lee, Spartanburg, Union, and York (Burt et al. in press, Davis 2009, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

***Nylanderia flavipes* (F. Smith)**

Distribution — Aiken Co. (CUAC); Jasper Co. (Davis 2009).

***Nylanderia parvula* (Mayr)**

Distribution — Beaufort and Chesterfield Cos. (CUAC, MEM); Aiken, Beaufort, Jasper, Oconee, Pickens (Burt et al. in press, Davis 2009, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021, Smith 1934, Van Pelt and Gentry 1985).

.

***Nylanderia phantasma* (Trager)**

Distribution — Chesterfield Co. (CUAC, MEM).

***Nylanderia querna* Kallal and LaPolla**

Distribution — Chesterfield Co. (CUAC).

***Nylanderia terricola* (Buckley)**

Distribution — Chesterfield, Kershaw, and Orangeburg Cos. (CUAC); Oconee and Williamsburg Cos. (Davis 2009).

***Nylanderia vividula* (Nylander)**

Distribution — Aiken, Chesterfield, and Florence Cos. (CUAC, MEM); Aiken, Barnwell, Beaufort, Berkeley, Lexington, Orangeburg, and Richland Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021).

***Nylanderia wojciki* (Trager)**

Distribution — Chesterfield Co. (CUAC, MEM); Aiken, Georgetown, and Richland Cos. (Davis 2009).

***Paratrechina longicornis* (Latreille)**

Distribution — Georgetown and Greenville Cos. (CUAC, MEM): Charleston, Greenwood, Lexington, and Richland Cos. (Smith, 1934).

***Polyergus longicornis* Smith**

Distribution — Barnwell and Pickens Co. (CUAC); Florence, McCormick, and Newberry Cos. (iNaturalist 2026, Resasco & Fletcher 2021, Trager 2013).

***Polyergus lucidus* Mayr**

Distribution — Pickens Co. (Davis 2009).

***Prenolepis imparis* (Say)**

Distribution — Aiken, Anderson, Calhoun, Charleston, Chesterfield, Fairfield, Florence, Greenville, Lancaster, Lexington, McCormick, Newberry, Oconee, Pickens, Richland, and Spartanburg Cos. (CUAC, MEM); Aiken/Barnwell (SRS), Beaufort, Cherokee, Edgefield, Georgetown, Greenwood, Horry, Jasper, Kershaw, Lee, Orangeburg, Williamsburg, and York Cos. (Davis 2009, iNaturalist 2026, Resasco unpublished data, Smith 1934, and Van Pelt and Gentry 1985).

MYRMICINAE

***Aphaenogaster ashmeadi* Emery**

Distribution — Beaufort, Chesterfield, and Georgetown Cos. (CUAC, MEM); Abbeville, Aiken, Anderson, Barnwell, Charleston, Edgefield, Greenville, Greenwood, Horry, Kershaw, Laurens, Lexington, Oconee, Orangeburg, Pickens, Richland, Spartanburg, and Union Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Van Pelt and Gentry 1985).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

Aphaenogaster carolinensis Wheeler

Distribution — Aiken, Calhoun, Chesterfield, Darlington, Florence, Georgetown, Greenville, Kershaw, Oconee, Orangeburg, and Richland Cos. (CUAC, MEM); Anderson/Pickens (Clemson), Barnwell, Cherokee, and Spartanburg Cos. (Burt et al. in press, iNaturalist 2026, Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Smith 1934).

Aphaenogaster flemingi Smith

Distribution — Calhoun, Florence, Orangeburg, Pickens, and Richland Cos. (CUAC); Aiken, Barnwell, Charleston, and Horry Cos. (Antweb 2026, Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2023, Van Pelt and Gentry 1985).

Aphaenogaster floridana Smith

Distribution — Chesterfield Co. (CUAC, MEM); Aiken, Bamburg, Barnwell, Calhoun, and Lexington Cos. (Burt et al. in press, iNaturalist 2026, Resasco et al. 2014a, 2014b, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Van Pelt and Gentry 1985).

Aphaenogaster fulva Roger

Distribution — Aiken, Barnwell, Chester, Georgetown, Greenville, Newberry, and Pickens Cos. (CUAC, MEM); Abbeville, Berkeley, Edgefield, Lexington, McCormick, Oconee, Richland, and Saluda Cos. (Davis 2009, iNaturalist 2026, Smith 1934, Resasco et al. 2023).

Aphaenogaster lamellidens Mayr

Distribution — Abbeville, Greenville, Pickens Cos. (CUAC, MEM); Aiken/Barnwell (SRS), Barnwell, Laurens, Lexington, Newberry, Richland Cos. (iNaturalist 2026, Resasco unpublished data, Smith 1934, iNaturalist 2026, Van Pelt and Gentry 1985).

Aphaenogaster mariae Forel

Distribution — Chesterfield, Darlington, Lexington, and Orangeburg Cos. (CUAC, MEM); Aiken/Barnwell (SRS), Anderson, Oconee, Richland Cos. (iNaturalist 2026, Smith 1934, Van Pelt and Gentry 1985).

Aphaenogaster miamiana Wheeler

Distribution — Aiken/Barnwell (SRS) Cos. (Van Pelt and Gentry 1985).

Aphaenogaster picea (Wheeler)

Distribution — Pickens Cos. (CUAC, MEM); Abbeville, Beaufort, Berkeley, Colleton, Oconee, Union, and Williamsburg Cos. (Davis 2009, Smith 1934).

Aphaenogaster rudis Enzmann

Distribution — Aiken, Calhoun, Florence, Greenville, Lexington, Newberry, Oconee, Orangeburg, Pickens, and Williamsburg Cos. (CUAC, MEM).

Aphaenogaster tennesseensis (Mayr)

Distribution — Oconee Cos. (CUAC, MEM); Aiken, Barnwell, Berkeley, Clarendon, Greenville, Lexington, and Richland Cos. (Davis 2009, iNaturalist 2026, Resasco et al. 2014a, Roeder et al. 2021, Van Pelt and Gentry 1985).

Aphaenogaster treatae Forel

Distribution —Chesterfield and Oconee Cos. (CUAC, MEM); Aiken/Barnwell (SRS), Aiken, Anderson/Pickens (Clemson), Barnwell, and Richland Cos. (Burt et al. in press, Resasco et al. 2014a, 2014b, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021 Smith 1934, Van Pelt and Gentry 1985).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

Cardiocondyla minutior Forel

Distribution — Charleston, Newberry, and Pickens Cos. (iNaturalist 2026, Davis 2009).

Cardiocondyla wroughtonii (Forel)

Distribution — Beaufort Co. (iNaturalist 2026).

Crematogaster ashmeadi Mayr

Distribution — Abbeville, Anderson, Chester, Chesterfield, Darlington, Dillon, Greenville, Marion, Oconee, Pickens, and Richland Cos. (CUAC, MEM); Aiken, Allendale, Barnwell, Cherokee, Clarendon, Edgefield, Fairfield, Florence, Horry, Lexington, Newberry, Orangeburg, Spartanburg, Sumter, Union, and York Cos. (Burt et al. in press, Davis 2009, iNaturalist Smith 1934, Resasco et al. 2014a, 2014b, Resasco et al. 2023, Roeder et al. 2021, Van Pelt and Gentry 1985).

Crematogaster cerasi (Fitch)

Distribution — Aiken, Anderson, and Greenville Cos. (CUAC, MEM); Bamberg, Barnwell, Beaufort, Berkeley, Georgetown, Hampton, Kershaw, McCormick, Newberry, Orangeburg, Pickens, and Sumter Cos. (Davis 2009, Resasco & Fletcher 2021, Roeder et al. 2021).

Crematogaster lineolata (Say)

Distribution — Aiken, Chesterfield, Georgetown, Kershaw, Lexington, Pickens, and Richland Cos. (CUAC, MEM); Abbeville, Anderson, Bamberg, Barnwell, Beaufort, Berkeley, Charleston, Clarendon, Dorchester, Edgefield, Fairfield, Greenville, Greenwood, Horry, Laurens, Lee, McCormick, Newberry, Oconee, Orangeburg, Spartanburg, Union, Williamsburg, and York Cos. (Antweb 2026, Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Smith 1934).

Crematogaster minutissima Mayr

Distribution — Chesterfield Co. (CUAC, MEM); Aiken, Barnwell, Beaufort, Richland Cos. (Burt et al. in press, Resasco et al. 2014b, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021, Van Pelt and Gentry 1985).

Crematogaster missouriensis Emery

Distribution — Aiken, Anderson/Pickens (Clemson), and Barnwell Cos. (Burt et al. in press, Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Smith 1934).

Crematogaster parapilosa Ward and Blaimer

Distribution — Chesterfield Co. (CUAC, MEM); Chester Co. (iNaturalist 2026). Davis (2011) and Van Pelt and Gentry (1985) listed county records for *C. atkinsoni*, which is a synonym of *C. parapilosa*, but due to historic misidentifications and taxonomic problems with this group, we cannot verify that these literature records were of *C. parapilosa.*

Crematogaster pilosa Emery

Distribution — Abbeville, Aiken, Anderson, Charleston, Chesterfield, Darlington, Fairfield, Georgetown, Greenwood, Lexington, McCormick, and Oconee Cos (CUAC, MEM); Barnwell, Clarendon, Greenville, Laurens, Newberry, Richland, and Sumter Cos. (Davis 2009, iNaturalist 2026); Calhoun, Cherokee, Edgefield, Florence, Lancaster, Lee, Marion, and Spartanburg, Cos. (Resasco et al. 2014a, Roeder et al. 2021, Smith 1934 - reported as *C. laeviuscula*).

Crematogaster pinicola Deyrup and Cover

Distribution — Richland Co. (iNaturalist 2026).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

***Crematogaster vermiculata* Emery**

Distribution — Oconee Co. (CUAC, MEM); Barnwell and Richland Cos. (iNaturalist 2026, Resasco et al. 2014).

****Cyphomyrmex rimosus* (Spinola)**

Distribution — Aiken, Barnwell, Beaufort, Charleston, Clarendon, Colleton, Dorchester, Georgetown, Hampton, Horry, Jasper, Richland, and Williamsburg Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, Resasco & Fletcher, 2021, Resasco et al. 2023).

***Monomorium carbonarium* (Smith)**

Distribution — Note: *M. minimum* is now a junior synonym of *M. carbonarium* (Seifert 2025). Charleston, Chesterfield, and Pickens Cos. (CUAC, MEM); Abbeville, Aiken, Anderson, Bamberg, Barnwell, Beaufort, Berkeley, Calhoun, Cherokee, Chester, Edgefield, Florence, Greenville, Greenwood, Horry, Kershaw, Lancaster, Laurens, Lee, Lexington, Marlboro, Oconee, Orangeburg, Richland, Spartanburg, Sumter, Union, Williamsburg, and York Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, Resasco et al. 2023, Resasco & Fletcher 2021, Resasco unpublished data, Roeder et al. 2021, Smith 1934, Van Pelt and Gentry 1985).

***Monomorium pharaonis* (Linnaeus)**

Distribution — Calhoun Co. (CUAC); Allendale, Anderson/Pickens (Clemson), Barnwell, Beaufort, Berkeley, Charleston, Dorchester, Fairfield, Georgetown, Greenwood, Horry, Jasper, Kershaw, Lee, Lexington, Marion, Marlboro, and Williamsburg Cos. (Smith 1934). Davis (2011) reported *M pharaonis* as being widespread in the state.

***Myrmecina americana* Emery**

Distribution — Aiken, Barnwell, Chesterfield, Greenville, Marion, Oconee, Pickens, and Richland Cos. (MEM); Anderson, Charleston, Horry, Lexington, and Newberry Cos. (Antweb 2026, Burt et al. in press, iNaturalist 2026, Resasco et al. 2014a, 2014b, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021, Smith 1934).

***Myrmecina cooperi* Deyrup**

Distribution — Aiken Co. (DBBC).

***Myrmecina davisoni* MacGown**

Distribution — Oconee Co. (DBBC).

***Myrmica americana* Weber**

Distribution — Oconee Co. (Davis 2009).

***Myrmica latifrons* Stärcke**

Distribution — Aiken Co. (Resasco unpublished data).

***Myrmica pinetorum* Wheeler**

Distribution — Greenville Co. (Smith 1934, listed as *M. scabrinodis*).

***Myrmica punctiventris* Roger**

Distribution — Newberry Co. (CUAC); Aiken, Barnwell, Anderson/Pickens (Clemson), and Pickens Cos. (Davis 2009, Resasco unpublished data).

***Pheidole bicarinata* Mayr**

Distribution — Beaufort, Chesterfield, and Oconee Cos. (MEM); Aiken/Barnwell (SRS), Barnwell, Anderson, Clarendon, Georgetown, Greenville, Horry, Lancaster, Lexington, Newberry, Orangeburg, Pickens, Richland,

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

Sumter, and Union Cos. (Davis 2009, iNaturalist 2026, Resasco & Fletcher 2021, Resasco et al. 2014, Van Pelt and Gentry 1985).

Pheidole bilimeki Mayr

Distribution — Chesterfield Co. (MEM); Georgetown Co. (iNaturalist 2026).

Pheidole crassicornis Emery

Distribution — Aiken, Chesterfield, Georgetown, Oconee, and Pickens Cos. (CUAC, MEM); Anderson, Bamberg, Barnwell, Beaufort, Berkeley, Charleston, Greenville, Hampton, Kershaw, Lexington, Newberry, Orangeburg, Richland, and Sumter Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Smith 1934, Van Pelt and Gentry 1985).

Pheidole davisi Wheeler

Distribution — Aiken and Barnwell Cos. (Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Van Pelt and Gentry 1985).

Pheidole dentata Mayr

Distribution — Anderson, Beaufort and Chesterfield Cos. (CUAC, MEM); Aiken, Barnwell, Charleston, Colleton, Edgefield, Horry, Lee, Lexington, Marion, Newberry, Oconee, Pickens, Richland, and Spartanburg Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Smith 1934, Van Pelt and Gentry 1985).

Pheidole dentigula Smith

Distribution — Aiken, Chesterfield, Fairfield, Georgetown, Kershaw, Lexington, and Richland Cos. (CUAC, MEM); Bamberg, Barnwell, Horry, Newberry, and Oconee Cos. (Davis 2009, iNaturalist 2026, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Roeder et al. 2021).

Pheidole metallescens Emery

Distribution — Beaufort and Richland Cos. (CUAC, MEM); Aiken, Barnwell, Anderson/Pickens (Clemson), Calhoun, Charleston, Cherokee, Florence, Greenville, Greenwood, Lexington, Oconee, and Spartanburg Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Smith 1934, Van Pelt and Gentry 1985).

Pheidole morrisi Forel

Distribution — Aiken, Barnwell, Chesterfield, Edgefield, Greenville, Horry, Lexington, Newberry, Oconee, Pickens, and Richland Cos. (Burt et al. in press, Davis 2009, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021).

**Pheidole navigans* Forel

Distribution — Beaufort Co. (CUAC, MEM); Aiken, Berkeley, Charleston, Georgetown, Horry, Lexington, and Richland Cos. (iNaturalist 2026).

**Pheidole obscurithorax* Naves

Distribution — Aiken Co. (DBBC).

Pheidole pilifera (Roger)

Distribution — Aiken/Barnwell (SRS) Cos. (Van Pelt and Gentry 1985).

Pheidole tysoni Forel

Distribution — Beaufort and Oconee Cos. (CUAC, MEM); Aiken, Anderson/Pickens (Clemson), Barnwell, Horry, and Richland Cos. (Burt et al. in press, iNaturalist 2026, Resasco &

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Van Pelt and Gentry 1985).

Pheidole tetra nr

Distribution — Aiken Co. (DBBC).

***Pogonomyrmex badius* (Latreille)**

Distribution — Aiken, Beaufort, Charleston, Chesterfield, Colleton, Edgefield, Horry, Kershaw, and Richland Cos. (CUAC, MEM); Allendale, Bamburg, Barnwell, Berkeley, Calhoun, Clarendon, Dorchester, Florence, Georgetown, Hampton, Jasper, Lee, Lexington, Marion, and Sumter Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021, Smith 1934).

***Solenopsis carolinensis* Forel**

Distribution — Beaufort and Chesterfield Cos. (CUAC, MEM); Abbeville, Aiken, Barnwell, Charleston, Fairfield, Georgetown, Greenville, Lexington, McCormick, Newberry, Oconee, Pickens, Richland, Spartanburg, and Union Cos. (Davis 2009, iNaturalist 2026, Resasco & Fletcher 2021).

***Solenopsis geminata* (Fabricius)**

Distribution — Anderson/Pickens (Clemson), Charleston, Edgefield, and Orangeburg Cos. (CUAC); Aiken, Allendale, Bamberg, Barnwell, Beaufort, Clarendon, Colleton, Dorchester, Georgetown, Lexington, Marion, Richland, and Sumter Cos. (Davis 2009, iNaturalist 2026, Resasco et al. 2014a, Resasco et al. 2023, Smith 1934).

***Solenopsis globularia* Smith**

Distribution — Charleston Co. (CUAC); Aiken/Barnwell (SRS) Cos. (Van Pelt and Gentry 1985).

****Solenopsis invicta* Buren**

Distribution — Aiken, Beaufort, Chesterfield, Darlington, Georgetown, Horry, Marion, Oconee, Orangeburg, Pickens, Richland, Spartanburg Cos. (CUAC, MEM); Aiken, Barnwell, Lexington, and Newberry Cos. (Burt et al. in press, iNaturalist 2026, Resasco et al. 2012, Resasco et al. 2014a, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021) . Davis (2011) reported that *S. invicta* was found in all counties in South Carolina.

***Solenopsis molesta* (Say)**

Distribution — Chesterfield and Pickens Cos. (CUAC, MEM). Older literature records by Smith (1934), Van Pelt and Gentry (1985), and others of *S. molesta* may represent other species of *Solenopsis*, so without examination of specimens we do not include those records here. Aiken and Barnwell records identified as *Solenopsis molesta* species complex in Burt et al. in press, Resasco et al. 2012, Resasco & Fletcher 2021, Resasco et al. 2014a, 2014b, 2014c, Resasco et al. 2023, Roeder et al. 2021.

***Solenopsis pergandei* Forel**

Distribution — Aiken, Beaufort, and Chesterfield Cos. (CUAC, MEM); Calhoun, Charleston, Lexington, and Oconee Cos. (iNaturalist 2026, Smith 1934).

***Solenopsis picta* Emery**

Distribution — Darlington, Dillon, and Georgetown Cos. (CUAC, MEM); Aiken/Barnwell (SRS), Beaufort, Florence, and Richland Cos. (Antweb 2026, iNaturalist 2026, Van Pelt and Gentry 1985).

***Solenopsis texana* Emery**

Distribution — Aiken, Calhoun, Chesterfield, Fairfield, Georgetown, Lexington, Newberry, Pickens, and Richland Cos. (CUAC).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

***Solenopsis xyloni* McCook**

Distribution — Hampton and Pickens Cos. (CUAC); Abbeville, Edgefield, and Sumter Cos. (Davis 2009, Smith 1934).

***Stenamma brevicorne* (Mayr)**

Distribution — Newberry and Spartanburg Cos. (Davis 2009, iNaturalist 2026).

***Stenamma diecki* Emery**

Distribution — Aiken and Oconee Cos. (CUAC, MEM).

***Stenamma foveolocephalum* Smith**

Distribution — Aiken and Lexington Cos. (CUAC, MEM).

***Stenamma impar* Forel**

Distribution — Chesterfield, Lexington, Oconee, Pickens, and Richland Cos. (CUAC).

***Stenamma meridionale* Smith**

Distribution — Richland Co. (iNaturalist 2026, Smith 1957).

***Stenamma schmittii* Wheeler**

Distribution — Abbeville, Aiken, Anderson, Calhoun, Chesterfield, Florence, Greenville, Lexington, McCormick, Newberry, Oconee, Orangeburg, Pickens, and Richland Cos. (CUAC).

***Strumigenys angulata* Smith**

Distribution — Aiken and Pickens Cos. (CUAC, DBBC, MEM).

***Strumigenys apalachicolensis* (Deyrup and Lubertazzi)**

Distribution — Aiken Co. (DBBC).

***Strumigenys brevisetosa* Forel**

Distribution — Aiken Co. (DBBC); Newberry Co. (iNaturalist).

***Strumigenys bunki* (Brown)**

Distribution — Aiken and Chesterfield Cos. (CUAC, DBBC, MEM); Barnwell (Resasco et al. 2023).

***Strumigenys carolinensis* (Brown)**

Distribution — Aiken, Barnwell, and Charleston Cos. (Antweb 2026, Resasco & Fletcher 2021, Resasco unpublished data).

***Strumigenys clypeata* Roger**

Distribution — Aiken, Oconee, Pickens and Richland Cos. (CUAC, DBBC, MEM); Barnwell and Newberry Co. (iNaturalist 2026, Roeder et al. 2021).

***Strumigenys creightoni* Smith**

Distribution — Aiken and Barnwell Cos. (DBBC).

***Strumigenys dietrichi* Smith**

Distribution — Aiken Co. (DBBC); Aiken/Barnwell (SRS) and Beaufort Cos. (iNaturalist 2026, Van Pelt and Gentry 1985, Resasco unpublished data, Roeder et al. 2021).

****Strumigenys eggersi* Emery**

Distribution — Beaufort Co. (iNaturalist 2026, Wetterer et al. 2022).

***Strumigenys filitalpa* (Brown)**

Distribution — McCormick and Oconee Cos. (CUAC, MEM).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

***Strumigenys filirrhina* (Brown)**

Distribution — Barnwell Co. (Resasco et al. 2014a, Resasco et al. 2023).

***Strumigenys louisianae* Roger**

Distribution — Aiken and Barnwell Cos. (DBBC); Berkeley, Charleston, Chesterfield, Fairfield, Florence, and Richland Cos. (MEM); Newberry, Pickens, and Saluda Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021).

****Strumigenys margaritae* Forel**

Distribution — Aiken Co. (DBBC); Barnwell and Newberry Cos. (iNaturalist 2026, Resasco et al. 2023, Roeder et al. 2021).

****Strumigenys membranifera* Emery**

Distribution — Chester, Chesterfield, Georgetown, and Pickens Cos. (CUAC, MEM); Aiken, Barnwell, Newberry, and Richland Cos. (Burt et al. in press, iNaturalist 2026, Resasco et al. 2023, Roeder et al. 2021).

***Strumigenys missouriensis* Smith**

Distribution — Aiken and Barnwell Cos. (DBBC); Anderson Cos. (Resasco et al. 2014).

***Strumigenys ornata* Mayr**

Distribution — Aiken, Barnwell, Berkeley, Chesterfield, Darlington, Fairfield, Oconee, Pickens, and Richland Cos. (CUAC, DBBC, MEM): Beaufort and Newberry Cos. (iNaturalist 2026, Resasco et al. 2014b, Resasco unpublished data).

***Strumigenys pergandei* Emery**

Distribution — Barnwell Co. (DBBC).

***Strumigenys pilinasis* Forel**

Distribution — Abbeville, Aiken, Darlington, Greenville, Kershaw, McCormick, Newberry, Oconee, Pickens, and Richland Cos. (CUAC, DBBC, MEM); Aiken, Newberry Cos.

***Strumigenys pulchella* Emery**

Distribution — Aiken, Barnwell, and Pickens Cos. (CUAC, DBBC).

***Strumigenys reflexa* Wesson & Wesson**

Distribution — Aiken, Barnwell, and Oconee Cos. (DBBC); Newberry (iNaturalist 2026).

***Strumigenys rostrata* Smith**

Distribution — Abbeville, Aiken, Barnwell, Darlington, Fairfield, McCormick, Newberry, Oconee, and Pickens Cos. (CUAC, MEM); Calhoun and Chesterfield Cos. (Antweb 2026, Roeder et al. 2021).

***Strumigenys silvestrii* Emery**

Distribution — Richland Co. (iNaturalist 2026).

***Strumigenys talpa* Weber**

Distribution — Aiken, Barnwell, and Pickens Cos. (CUAC, DDBC, MEM); Lexington Co. (iNaturalist 2026, Resasco et al. 2014a).

***Temnothorax curvispinosus* (Mayr)**

Distribution — Chesterfield, Fairfield, Florence, Georgetown, Greenville, Lexington, McCormick, Newberry, and Oconee Cos. (CUAC, MEM); Abbeville, Aiken, Barnwell, Charleston, Laurens, Pickens, Richland, and Williamsburg Cos. (iNaturalist 2026, Resasco et al. 2014a, Resasco unpublished data, Roeder et al. 2021, Smith 1934).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

***Temnothorax caryaluteus* Prebus**

Distribution — Chesterfield Co. (MEM).

***Temnothorax pergandei* (Emery)**

Distribution — Abbeville, Chesterfield, Georgetown, Pickens, and Spartanburg Cos. (CUAC, MEM); Aiken, Barnwell, Charleston, Lexington Cos. (Burt et al. in press, iNaturalist 2026, Resasco et al. 2014a, 2014b, 2014c, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021, Van Pelt and Gentry 1985).

***Temnothorax schaumii* (Roger)**

Distribution — Barnwell and Chesterfield Cos. (CUAC, MEM); Aiken/Barnwell (SRS) and Richland Cos. (Smith 1934, Van Pelt and Gentry 1985).

***Temnothorax texanus* (Wheeler)**

Distribution — Aiken, and Barnwell Cos (Resasco et al. 2014a, Resasco et al. 2023, Roeder et al. 2021, Van Pelt and Gentry 1985).

***Temnothorax tuscaloosae* (Wilson)**

Distribution — Aiken and Oconee Cos. (DBBC, MEM).

****Tetramorium bicarinatum* (Nylander)**

Distribution — Charleston and Horry Cos. (CUAC, MEM).

****Tetramorium immigrans* Santschi**

Distribution — Aiken, Beaufort, Charleston, and Laurens Cos. (Davis 2009, Resasco unpublished data, Smith 1934).

****Tetramorium lanuginosum* Mayr**

Distribution — Beaufort Co. (Smith 1934).

***Trachymyrmex septentrionalis* (McCook)**

Distribution — Beaufort, Chesterfield, Georgetown, Newberry, and Pickens Cos. (CUAC, MEM); Abbeville, Aiken, Barnwell, Berkeley, Calhoun, Charleston, Colleton, Dorchester, Edgefield, Horry, Lancaster, Lee, Lexington, Richland, and Sumter Cos. (Burt et al. in press, iNaturalist 2026, Davis 2009, Resasco et al. 2014a, Resasco & Fletcher 2021, Resasco et al. 2023, Resasco unpublished data, Roeder et al. 2021, Smith 1934, Van Pelt and Gentry 1985).

PONERINAE

****Brachyponera chinensis* (Emery).**

Distribution — Widespread: Abbeville, Anderson, Beaufort, Berkeley, Charleston, Chester, Chesterfield, Dillon, Dorchester, Greenville, Greenwood, Kershaw, Laurens, Lee, Marion, McCormick, Oconee, Pickens, Richland, Spartanburg, and Sumter Cos. (CUAC, MEM); Aiken, Clarendon, Colleton, Darlington, Florence, Horry, Lexington, Newberry, Saluda, Union, and York Cos. (iNaturalist 2026).

***Cryptopone gilva* (Roger)**

Distribution — Lexington Co (CUAC, MEM); Aiken, Aiken/Barnwell (SRS) Cos. (Antweb 2026, Van Pelt and Gentry 1985).

***Hypoponera inexorata* (Wheeler)**

Distribution — Oconee Co. (Smith 1934).

***Hypoponera opaciceps* (Mayr)**

Distribution — Beaufort, Chesterfield, Colleton, Greenville, Oconee, and Pickens Cos. (CUAC, MEM); Bamberg, Berkeley, Charleston, Clarendon, Georgetown, Kershaw, Richland, and Williamsburg Cos. (Davis 2009, iNaturalist 2026, Smith 1934).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

***Hypoponera opacior (*Forel)**

Distribution — Abbeville, Aiken, Anderson, Berkeley, Calhoun, Chester, Chesterfield, Darlington, Dillon, Florence, Georgetown, Horry, Kershaw, Marion, Newberry, Oconee, Richland, and Spartanburg, Cos. (CUAC, MEM); Barnwell, Charleston, Clarendon, and Sumter Cos. (Burt et al. in press, Davis 2009, Smith 1934, Resasco et al. 2014a, 2014b, Resasco & Fletcher 2021, Resasco et al. 2023, Roeder et al. 2021).

***Hypoponera punctatissima* (Roger)**

Distribution — Pickens Co. (Davis 2009).

***Odontomachus brunneus* (Patton)**

Distribution – Charleston Co. (iNaturalist 2026)

***Ponera exotica* Smith**

Distribution — Chesterfield, Greenville, Kershaw, and McCormick Cos. (CUAC, MEM).

***Ponera pennsylvanica* Buckley**

Distribution — Abbeville, Calhoun, Chesterfield, Darlington, Florence, Greenville, McCormick, Newberry, Oconee, Pickens, and Richland Cos. (CUAC, MEM); Aiken and Barnwell Cos. (Resasco & Fletcher 2021).

PROCERATIINAE

***Discothyrea testacea* Roger**

Distribution — Lexington and Newberry Cos. (iNaturalist 2026).

***Proceratium crassicorne* Emery**

Distribution — Oconee Co. (CUAC).

***Proceratium croceum* (Roger)**

Distribution — Aiken/Barnwell (SRS), Jasper, and Pickens Cos. (Antweb 2026, iNaturalist 2026, Van Pelt and Gentry 1985, Baroni Urbani and de Andrade 2003).

***Proceratium pergandei* (Emery)**

Distribution — Chesterfield Co. (MEM); Aiken/Barnwell (SRS), Anderson/Pickens (Clemson), Charleston, Georgetown, and Newberry Cos. (iNaturalist 2026, Smith 1934, Van Pelt and Gentry 1985, Baroni Urbani and de Andrade 2003).

***Proceratium silaceum* Roger**

Distribution — Oconee and Pickens Cos. (CUAC, MEM); Aiken/Barnwell (SRS), Anderson/Pickens (Clemson), Charleston, and Newberry Cos. (iNaturalist 2026, Smith 1934, Van Pelt and Gentry 1985, Baroni Urbani and de Andrade 2003).

***Proceratium* sp.**

Distribution — Pickens Co. (CUAC).

PSEUDOMYRMECINAE

***Pseudomyrmex ejectus* (Smith)**

Distribution — Calhoun, Chesterfield, Georgetown, and Pickens Cos. (CUAC, MEM); Abbeville, Aiken/Barnwell (SRS), Anderson, Berkeley, Charleston, Dorchester, Lexington, Newberry, Oconee, Richland, Sumter, and Williamsburg Cos. (Davis 2009, iNaturalist 2026, Smith 1934; Van Pelt and Gentry 1985).

***Pseudomyrmex gracilis* (Fabricius)**

Distribution — Charleston and Chesterfield Cos. (CUAC, MEM). Beaufort, Colleton, Richland, and Williamsburg Cos. (iNaturalist 2026).

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

***Pseudomyrmex leptosus* Ward**

Distribution — Richland Co. (iNaturalist 2026).

***Pseudomyrmex pallidus* (Smith)**

Distribution — Chesterfield, Georgetown, Greenwood, and Marion Cos. (CUAC, MEM); Abbeville, Aiken, Anderson, Barnwell, Berkely, Charleston, Dillon, Dorchester, Florence, Greenville, Horry, Lexington, Newberry, Oconee, Pickens, Richland, Sumter, Williamsburg, and York Cos. (Burt et al. in press, Davis 2009, iNaturalist 2026, Resasco & Fletcher 2021, Resasco et al. 2023, Smith 1934, Van Pelt and Gentry 1985).

ACKNOWLEDGMENTS

Thanks to the numerous researchers and students who collected ants and helped prepare specimens for this project. MEM research was supported in part by the National Instititue of Food and Agriculture (NIFA) and the USDA-ARS Areawide Management of Areawide Management of Invasive Ants Project 58-6066-1-013 (J.G.Hill Principal Investigator). Thanks to Director Michael Caterina at the Clemson University Arthropod Collection for the loan of their ant collection and the Georgia Museum of Natural History, Athens, Georgia, USA for access to specimens. Julian Resasco's research was supported by the USDA Forest Service at the Savannah River Site, a National Environmental Research Park, through Interagency Agreements DE-AI09-00SR22188, DE-EM0003622, and 89303720SEM000037 with the U.S. Department of Energy (Aiken, SC).

LITERATURE CITED

AntWeb (2026) Online at: https://www.antweb.org Accessed January 2026.

AntCat (2026) Online at: https://www.antcat.org Accessed January 2026.

Baroni Urbani C & de Andrade ML (2003) The ant genus *Proceratium* in the extant and fossil record (Hymenoptera: Formicidae). Museo Regionale di Scienze Naturali Monografie (Turin) 36: 1–492.

Bowers DQ (2018) An investigation of the distribution and behavior of the dark rover ant, *Brachymyrmex patagonicus* Mayr, in South Carolina. Master's thesis, Clemson University (https://tigerprints.clemson.edu/all_theses/2972).

Burt MA, Whitehead SR, & Resasco J. Corridors increase ant diversity over time. *Ecology*. In press.

Davis TS (2009) The Ants of South Carolina. PhD Dissertation, Clemson University (https://open.clemson.edu/all_dissertations/331/).

Guénard B, McCaffrey KA, Lucky A, & Dunn RR (2012) Ants of North Carolina: an updated list (Hymenoptera: Formicidae). *Zootaxa* 3552:1–36.

iNaturalist (2026) Online at https://www.inaturalist.org. Accessed January 2026.

Distribution— *MacGown* JA & Hill JG (2013) Ants of Cheraw State Park and Carolina Sandhills NWR in Chesterfield County, South Carolina, 8–13 July 2013. Online at: https://mem.org.msstate.edu/Researchtaxapages/Formicidaepages/faunal.lists/CherawSP_SandhillsNWR_ants.html. Accessed June 2026.

Resasco J, Levey DJ, & Damschen EI (2012) Habitat corridors alter relative trophic position of fire ants. *Ecosphere* 3(11): 100. http://dx.doi.org/10.1890/ES12-00266.1.

Resasco J, Haddad NM, Orrock JL, Shoemaker D, Brudvig LA, Damschen EI, Tewksbury JJ, & Levey DJ (2014a) Landscape corridors can increase invasion by an exotic species and reduce diversity of native species. *Ecology*. 95(8): 2033–2039.

Resasco J, Pelini SL, Stuble KL, Sanders NJ, Dunn, RR, Diamond SE, Ellison AM, Gotelli NJ, & Levey DJ. (2014b) Using historical and experimental data to reveal warming effects on ant assemblages. *PLoS ONE*. 9(2): e88029.

Resasco J, Porter SD, Sanders NJ, & Levey DJ (2014c) Assessing the effects of sodium on fire ant foraging in the field and colony growth

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use

in the laboratory. *Ecological Entomology*. 39(2): 267–271.

Resasco J & Fletcher RJ (2021) Accounting for connectivity alters the apparent roles of spatial and environmental processes on metacommunity assembly. *Landscape Ecology*. 36(4): 1089–1099.

Resasco J, Burt MA, Orrock JL, Haddad NM, Shoemaker D, & Levey DJ (2023) Transient effects of corridors on polygyne fire ants over a decade. *Ecological Entomology*. 48(2):263–268.

Roeder KA, Penuela Useche V, Levey DJ, & Resasco J (2021) Testing effects of invasive fire ants and disturbance on ant communities of the longleaf pine ecosystem. *Ecological Entomology*. 46(4): 964–972.

Sargent JM, Benson EP, Zungoli P, & Bridges WC (2001). Carpenter ant (Hymenoptera : Formicidae) fauna of South Carolina. *Journal of Agricultural and Urban Entomology* 18(4): 227–236.

Seifert B (2025) The *Monomorium carbonarium* species group in the Nearctic and Europe (Hymenoptera: Formicidae). *Soil Organisms* 97 (1): 55–84.

Smith MR (1916a) Observations on ants in South Carolina (Hym.). *Entomological News* 27:279–280.

Smith MR (1916b) Notes on South Carolina ants (Hym., Hem.). *Entomological News* 27:468.

Smith MR (1918) A key to the known species of South Carolina ants, with notes (Hym.). *Entomol. News* 29: 17–29.

Smith MR (1934) A list of the ants of South Carolina. The Journal of the New York *Entomological Society* 42: 353–361.

Smith MR (1957) Revision of the genus *Stenamma* Westwood in America north of Mexico (Hymenoptera: Formicidae). *The American Midland Naturalist* 57: 133–174.

Smith MR (1965) House-infesting ants of the Eastern United States, their recognition, biology, and economic importance. United States Department of Agriculture, Technical Bulletin No. 1326: i-–105.

Smith MR & Morrison W (1916) South Carolina ants (Hym.). *Entomological News* 27: 110–111.

South Carolina Department of Natural Resources (2014) *South Carolina's State Wildlife Plan (SWAP) 2015*. Online at: https://www.dnr.sc.gov/swap/main/2015StateWildlifeActionPlan-chaptersonly.pdf (accessed 26 May 2026).

Trager JC (2013) Global revision of the dulotic ant genus *Polyergus* (Hymenoptera: Formicidae, Formicinae, Formicini). *Zootaxa* 3722 (4): 501–548.

Trager JC, MacGown JA, &Trager MD (2007). Revision of the Nearctic endemic *Formica pallidefulva* group. Pp. 610-636 in: Snelling, R. R.; Fisher, B. L.; Ward, P. S.(eds.) 2007. Advances in ant systematics (Hymenoptera: Formicidae): homage to E.O. Wilson – 50 years of contributions. Memoirs of the American Entomological Institute 80: 690 pp.

Van Pelt A & Gentry JB (1985) The ants (Hymenoptera: Formicidae) of the Savannah River Plant, South Carolina." Dept. Energy, Savannah River Ecology Lab., Aiken, SC., Report SRO-NERP-14, 56 pp.

Wang S, Stoll AC, Richter, HJ, Dandridge C, Perez RA, Doucet JT, & Wetterer JK (2021) Spread of a non-native, millipede-eating ant, *Gnamptogenys triangularis* (Hymenoptera, Formicidae), in the southeastern United States. *Transactions of the American Entomological Society* 147(3): 819–825 (doi:10.3157/061.147.0303).

Wetterer JK, Danridge CM, Richter HJ, Stoll AC, Booher DB, and MacGown JA (2022) Spread of *Strumigenys eggersi* (Hymenoptera: Formicidae) in the southeastern US. *Transactions of the American Entomological Society* 146: 247–252.

Downloaded From: https://bioone.org/journals/Transactions-of-the-American-Entomological-Society on 08 Nov 2026
Terms of Use: https://bioone.org/terms-of-use