

NEW RECORDS OF ANTS IN KANSAS, III

by

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This publication summarizes recent results from the continuing efforts by members of the State Biological Survey of Kansas to determine the distribution of ants in Kansas. Five species of ants are herein reported as occurring in Kansas for the first time and these are preceded by an asterisk (*). New county records are reported for an additional 41 species and one species, Euoponera gilva, is excluded from the Kansas fauna. Specific localities, collection dates, and North American distributions are provided only for new species. If a new species is reported from more than five counties, only county names are listed.

Subfamilies are arranged in phylogenetic sequence following Brown (1973) with genera and species arranged in alphabetical order. Unless otherwise noted, specimens are housed in the collection of the State Biological Survey of Kansas (SBSK). Abbreviations for other collections are as follows: KSU - Kansas State University, Manhattan(KSU); KU - Kansas University, Lawrence (KU).

ACKNOWLEDGMENTS

In addition to my colleagues at the Biological Survey, I am grateful to the following individuals who provided ant specimens: L. Garling, A. Hawkins, K. Johnson, G. Lippert, G. Salsbury, and S. White.

I particularly wish to thank A. Francoeur, Chicoutimi, Quebec, for correcting my determinations of Myrmica and Formica.

FAMILY FORMICIDAE

SUBFAMILY PONERINAE

AMBLYOPONE Erichson

Previous records for this genus were provided by Creighton (1940), DuBois (1979), and Hayes (1925). All specimens were identified using Creighton (1950) with modifications suggested by Brown (1949, 1960).

Amblyopone pallipes (Haldeman)

NEW KANSAS RECORDS: Allen and Wabaunsee counties.

HYPOPONERA Santschi

Previous records for this genus were provided by DuBois (1979, 1980). All specimens were identified using Creighton (1950) as modified by Taylor (1967, 1968).

Hypoponera opacior (Forel)

NEW KANSAS RECORD: Montgomery County.

PONERA Latreille

Previous records for this genus were provided by DuBois (1979, 1980), Hayes (1925), and Taylor (1967). All specimens were identified using Taylor (1967).

Ponera pennsylvanica Buckley

NEW KANSAS RECORDS: Elk, Greenwood, Johnson, Wabaunsee, and Wilson counties.

SUBFAMILY ECITONINAE

NEIVAMYRMEX Borgmeier

Previous records for this genus were provided by DuBois (1979, 1980), and Watkins (1972, 1975, 1976). All specimens were identified using Watkins (1976).

Neivamyrmex nigrescens (Cresson)

NEW KANSAS RECORDS: Johnson, Labette, Washington, and Woodson counties.

Neivamyrmex opacithorax (Emery)

NEW KANSAS RECORD: Labette County.

SUBFAMILY MYRMICINAE

APHAENOGASTER Mayr

Previous records for this genus were provided by DuBois (1980). All specimens were identified using Creighton (1950).

Aphaenogaster tennesseensis (Mayr)

NEW KANSAS RECORDS: Kingman and Woodson counties.

CREMATOGASTER Lund

Previous records for this genus were provided by DuBois (1979, 1980). All specimens were identified using Buren (1958, 1968) and Creighton (1950).

Crematogaster missouriensis Emery

NEW KANSAS RECORDS: Anderson, Comanche, Greenwood, Hodgeman, Labette, Meade, and Woodson counties.

DIPLORHOPTRUM Mayr

Previous records for this genus were provided by DuBois (1979, 1980) and Hayes (1920). All specimens were identified using Creighton (1950) as modified by Urbani (1968) and Wheeler and Wheeler (1973).

Diplorhoptrum molesta (Say)

NEW KANSAS RECORDS: Clark, Geary, Labette, Neosho, Republic, Shawnee, and Stanton counties.

LEPTOTHORAX Mayr

Previous records for this genus were provided by DuBois (1979, 1980) and Hayes (1925). All specimens were identified using Creighton (1950).

Leptothorax curvispinosus Mayr

NEW KANSAS RECORDS: Allen, Dickinson, Geary, and Morris counties.

Leptothorax pergandei Emery

NEW KANSAS RECORDS: Clay, Labette, Morton, and Woodson counties.

Leptothorax schauvi Roger

NEW KANSAS RECORDS: Lane and Wabaunsee counties.

MONOMORIUM Mayr

Previous records were provided by Hayes (1925) and R. Smith (1933).

Monomorium minimum (Buckley)

DISTRIBUTION IN NORTH AMERICA: Most of the region between the Appalachian Mountains and Rocky Mountains (modified from Smith, 1979).

NEW KANSAS RECORDS: Allen, Anderson, Atchison, Barber, Barton, Bourbon, Brown, Chase, Cherokee, Cheyenne, Clark, Clay, Cloud, Comanche, Crawford, Dickinson, Doniphan, Elk, Ellsworth, Ford, Franklin, Geary, Grant, Gray, Greenwood, Hamilton, Harper, Harvey, Hodgeman, Jefferson, Jewell, Johnson, Kingman, Kiowa, Labette, Leavenworth, Linn, McPherson, Marshall, Meade, Miami, Mitchell, Montgomery, Morris, Morton, Nemaha, Neosho, Ness, Norton, Osage, Osborne, Pawnee, Phillips, Pottawatomie, Pratt (KU), Reno, Rice, Russell, Sedgwick (KSU), Seward, Shawnee, Smith, Stafford, Stanton, Stevens, Sumner, Trego, and Woodson counties.

MYRMECINA Curtis

Previous records were reported by DuBois (1980). All specimens were identified using Creighton (1950) with modifications suggested by Brown (1967).

Myrmecina americana Emery

NEW KANSAS RECORD: Johnson County.

MYRMICA Latreille

Members of this holarctic genus are currently being revised by A. Francoeur who has kindly checked most specimens wherein reported. Previous records where reported by Weber (1948).

Myrmica americana Weber

DISTRIBUTION IN NORTH AMERICA: Quebec and Maine south to North Carolina and Tennessee and west to Manitoba, Colorado, Utah, and Arizona (Smith, 1979).

NEW KANSAS RECORDS: Allen, Douglas, Franklin, and Johnson counties.

*Myrmica punctirentis Roger

DISTRIBUTION IN NORTH AMERICA: Massachusetts south to Georgia and west to Iowa, Nebraska, and Arkansas (Smith, 1979).

NEW KANSAS RECORDS: Atchison, Douglas, Johnson, Nemaha, and Woodson counties.

POGONOMYRMEX Mayr

Previous records for this genus were provided by DuBois (1979, 1980), Hayes (1925), and McLaren (1887). All specimens were identified using Cole (1968).

Pogonomyrmex barbatus (F. Smith)

NEW KANSAS RECORDS: Edwards, Ford, and Seward counties.

Pogonomyrmex comanche Wheeler

NEW KANSAS RECORDS: Finney, Harvey, and Pawnee counties.

Pogonomyrmex occidentalis (Cresson)

NEW KANSAS RECORDS: Barber, Clark, Edwards, Grant, Lane, Pawnee, and Rice counties.

SOLENOPSIS Westwood

Previous records were provided by DuBois (1979, 1980). All specimens were identified using Creighton (1950) as modified by Urbani (1968).

Solenopsis xyloni McCook

NEW KANSAS RECORDS: Meade, Morton, and Stanton counties.

TRACHYMYRMEX Forel

This predominately neotropical genus is represented in North America by eight taxa. All specimens were identified using Creighton (1950) as modified by Cole (1952).

*Trachymyrmex septentrionalis (McCook)

DISTRIBUTION IN NORTH AMERICA: New York (Long Island and Staten Island) south to Florida and west to Illinois, Louisiana, and Texas (Smith, 1979).

NEW KANSAS RECORDS: MONTGOMERY Co.: Elk City Reservoir: Oak Ridge Camp-ground, 2.5 mi N & 8 mi W Independence (Sec 15, T32S, R14E), 29 May 1980, M. B. DuBois 1060.

SUBFAMILY DOLICHODERINAE

CONOMYRMA Forel

Previous records were provided by DuBois (1980). All specimens were identified using Creighton (1950) as modified by Snelling (1973).

Conomyrma insana (Buckley)

NEW KANSAS RECORDS: Barber, Brown, Cheyenne, Clark, Comanche, Decatur, Douglas, Ellsworth, Ford, Grant, Gray, Harper, Hodgeman, Jewell, Logan, Morton, Phillips, Rawlins, Rooks, Scott, Seward, Shawnee, Sheridan, Smith, Thomas, and Wallace counties.

DOLICHODERUS Lund

Previous records were reported by DuBois (1980). All specimens were identified using Wheeler (1905) as modified by Creighton (1950).

*Dolichoderus mariae Forel

Those specimens from Kiowa and Scott counties cited by Dubois (1980) as D. pustulatus were misdetermined and should have been called D. mariae.

DISTRIBUTION IN NORTH AMERICA: Massachusetts south to Georgia and west to Minnesota, Illinois, Oklahoma, and Louisiana (Smith, 1979).

NEW KANSAS RECORD: Stafford County.

FORELIUS Emery

Previous records were provided by DuBois (1980). All specimens were identified using Creighton (1950) as modified by Snelling and George (1979).

Forelius foetidus (Buckley)

NEW KANSAS RECORD: Clark County.

IRIDOMYRMEX Mayr

Previous records were provided by DuBois (1980) and Hayes (1925). Although two subspecies were previously recognized, such intergradation occurs in central Kansas that these two taxa are not separable over much of this state.

Brachymyrmex pruinus (Roger)

NEW KANSAS RECORDS: Allen, Anderson, Clark, Comanche, Dickinson, Elk, Finney, Ford, Grant, Gray, Greenwood, Johnson, Morris, Morton, Neosho, Ness, Pawnee, Shawnee, and Woodson counties.

TAPINOMA Foerster

Previous records were provided by DuBois (1980). All specimens were identified using Creighton (1950).

Tapinoma sessile (Say)

NEW KANSAS RECORDS: Bourbon, Dickinson, Finney, Ford, Geary, Gray, Meade, and Stafford counties.

SUBFAMILY FORMICINAE

ACANTHOMYOPS Mayr

Previous records were provided by DuBois (1979, 1980) and Hayes (1925). All specimens were identified using Wing (1968).

Acanthomyops claviger (Roger)

NEW KANSAS RECORD: Anderson County.

BRACHYMYRMEX Mayr

Previous records were provided by DuBois (1979, 1980). All specimens were identified using Creighton (1950) modified by Wheeler and Wheeler (1978).

Brachymyrmex depilis Emery

NEW KANSAS RECORDS: Allen, Dickinson, and Rice counties.

CAMPONOTUS Mayr

Previous records were provided by DuBois (1979, 1980) and Hayes (1925). All specimens were identified using Creighton (1950) and Shelling (1968).

Camponotus americanus Mayr

Specimens cited by DuBois (1979) as C. castaneus were midetermined minor workers of C. americanus except for the Cherokee County record. Intensive collecting suggests that C. castaneus only occurs in the southeastern corner of Kansas. All other records of C. castaneus were minor workers of C. americanus.

DISTRIBUTION IN NORTH AMERICA: Ontario south to Florida and west to Michigan, Iowa, Missouri, Oklahoma, and Texas (Smith, 1979).

NEW KANSAS RECORDS: Anderson, Brown, Cherokee, Geary, Greenwood, Johnson, Kiowa, Labette, Montgomery, Morris, Pottawatomie, Washington, and Woodson counties.

Camponotus caryae discolor (Buckley)

NEW KANSAS RECORDS: Atchison, Butler, Cheyenne, Douglas, Ellsworth, Franklin, Kiowa, Leavenworth, Marion, Marshall, Morton, Republic, and Wallace counties.

Camponotus impressus (Roger)

NEW KANSAS RECORDS: Cherokee and Montgomery counties.

Camponotus nearcticus Emery

NEW KANSAS RECORDS: Atchison, Cherokee, Decatur, Doniphan, Geary, Harvey, Kiowa, McPherson, Nemaha, Osage, Phillips, Reno, Republic, Rice, Shawnee, and Washington counties.

Camponotus pennsylvanicus (DeGeer)

NEW KANSAS RECORDS: Allen, Anderson, Atchison, Barber, Bourbon, Brown, Butler, Chase, Cherokee, Decatur, Dickinson, Ellsworth, Geary, Harper, Jackson, Jewell, Johnson, Kingman, Kiowa, Labette, Leavenworth, Linn, McPherson, Marion, Marshall, Meade, Miami, Montgomery, Morris, Neosho, Norton, Osage, Phillips, Pratt, Reno, Republic, Washington, Wilson, Woodson, and Wyandotte counties.

Camponotus sayi Emery

DISTRIBUTION IN NORTH AMERICA: North Carolina south to Florida and west to Nebraska, Kansas, Colorado, Arizona, and California (Smith, 1979).

NEW KANSAS RECORDS: Atchison, Chase, Ellsworth, Geary, Jackson, Jewell, Johnson, Leavenworth, Linn, McPherson, Nemaha, Ottawa, Pottawatomie, and Saline counties.

*Camponotus vicinus Mayr

DISTRIBUTION IN NORTH AMERICA: Manitoba, North Dakota, Colorado, and Oklahoma west to British Columbia, Oregon, and California (Smith, 1979).

NEW KANSAS RECORD: Scott County.

Formica Linnaeus

Previous records were provided by DuBois (1980) Francoeur (1973), and Hayes (1925). All species were identified using Creighton (1980) and Francoeur (1973).

*Formica integroides planipilis Creighton

DISTRIBUTION IN NORTH AMERICA: North Dakota, Colorado, and Nevada (Smith, 1979).

NEW KANSAS RECORD: SHERMAN Co.: Old Sherman Co. State Lake, 10 mi S & 4 mi W Goodland, (Sec 9 and 10, T10S, R40W), 26 July 1979, M. DuBois & J. Gelhaus 666.

Formica pallidefulva Latreille

NEW KANSAS RECORDS: Republic and Washington counties.

Formica schaufussi Mayr

DISTRIBUTION IN NORTH AMERICA: Ontario South to North Carolina and Tennessee and west to Wisconsin and Iowa (Smith, 1979).

NEW KANSAS RECORD: GEARY Co.: 11.5 mi E of Junction City, (Sec 2, T12S, R7E), 23 June 1978, M. DuBois and A. Slater.

Formica subintegra Emery

NEW KANSAS RECORD: Leavenworth County.

Formica subsericea Say

DISTRIBUTION IN NORTH AMERICA: New Brunswick and Quebec south to Florida and west to Manitoba, Montana, Iowa, Kansas, Missouri, and Mississippi (Smith, 1979).

NEW KANSAS RECORDS: Kiowa and Leavenworth counties.

LASIUS Fabricius

Previous records were provided by DuBois (1980) and Wilson (1955). All specimens were identified using Wilson (1955).

Lasius alienus (Foerster)

NEW KANSAS RECORDS: Allen, Anderson, Leavenworth, Linn, Shawnee, Stafford, and Wilson counties.

Lasius neoniger Emery

NEW KANSAS RECORDS: Allen, Anderson, Elk, Franklin, Geary, Grant, Labette, Meade, and Stanton counties.

Lasius umbratus (Nylander)

NEW KANSAS RECORDS: Meade and Seward counties.

MYRMEOCOCYSTUS Wesmael

Previous records were provided by DuBois (1979) and Snelling (1976). All specimens were identified using Snelling (1976).

Myrmecocystus romainei Cole

NEW KANSAS RECORDS: Barber, Clark, Grant, Haskell, and Morton counties.

PARATRECHINA Motschulsky

Previous records were provided by DuBois (1980) and Hayes (1925). All specimens were identified using Creighton (1950).

Paratrechina melanderi (Wheeler)

NEW KANSAS RECORDS: Anderson, Dickinson, Elk, Ford, Jefferson, Meade, and Montgomery counties.

Paratrechina parvula (Mayr)

NEW KANSAS RECORD: Harvey County.

PRENOLEPIS Mayr

Previous records were provided by DuBois (1979, 1980) and Hayes (1925). All specimens were identified using Creighton (1950).

Prenolepis imparis (Say)

NEW KANSAS RECORDS: Anderson, Jefferson, Morris, and Woodson counties.

EXCLUDED TAXA

SUBFAMILY PONERINAE

Euponera gilva (Roger)

Previous collections of this species represent an undescribed species of Hypoponera. Therefore, Euponera gilva is excluded from the Kansas fauna.

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