

A Preliminary List of the Ants of Kansas
(Hymenoptera, Formicidae).

(Continued from page 43.)

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DOLICHODERINAE.

DORYMYRMEX PYRAMICUS Roger. This is a new record for the state. Specimens (determined by M. R. S.) in the State Agricultural College collection were taken in Trego County.

D. PYRAMICUS var. FLAVUS Pergande. Also a new varietal record. Workers of this variety were taken at Manhattan, May 20. This variety and its specific form (cited above) are recorded in the Wheeler list from the "Southern States."

D. sp. Males of an undetermined species are in the State Agricultural College collection from Riley County, July 22, and October 10, and there are specimens of males from Trego County.

IRIDOMYRMEX PRUINOSUS var. ANALIS André. Specimens of this variety (determined by W. M. W.) were found abundantly at Winfield in 1915, under stones in pasture land associated with colonies of *Solenopsis molesta* Say. In the Tucker list this variety is reported from Lawrence. Specimens have been taken frequently by the writer at Manhattan from April to July in corn fields and in native pasture land.

FORMICINAE (CAMPONOTINAE).

PRENOLEPIS IMPARIS Say. This common ant occurs from New England to California. It was first reported in Kansas by Tucker from Lawrence, where he found males in March and April. His list places the species in the subgenus *Nylanderia* but according to the Wheeler list it belongs in the subgenus *Prenolepis* s. str. Several workers and males are before the writer collected by J. B. Norton, in Riley County, on April 3 (determined by M. R. S.).

PRENOLEPIS PARVULA Mayr. This species spelled "parcula" is found without locality designation in the Crevecoeur list.

P. (NYLANDERIA) VIVIDULA MELANDERI Wheeler. This species adds a new state record to the Kansas list. Specimens (determined by M. R. S.) of males, females and workers are at hand collected by F. A. Marlatt, in Riley County, in May.

P. NIETUS Mayr. Also found in the Crevecoeur list, but is not listed in Wheeler's list of North American ants.

P. (NYLANDERIA) sp. A number of specimens of another species which M. R. Smith was unable to specifically determine

are in the State Agricultural College collection. These were collected by the writer in the vicinity of Manhattan in April.

LASIVS NIGER var. *NEONIGER* Emery. This species, without varietal designation, occurs in the Bridwell list of Kansas Hymenoptera as *Lasius alienus* Forst. It has been shown to be synonymous with *L. niger*. The varietal name here given (determined by M. R. S.) is new to the state list. Tucker, in his list, cites it from Colorado but not from Kansas.

L. NIGER var. *AMERICANUS* Emery. This variety has been reported by Tucker from Lawrence where he found males and females in April and in September found males at night.

L. UMBRATUS Nyl. var. Also reported in Tucker's list from Lawrence.

L. (ACANTHOMYOPS) INTERJECTUS Mayr. First reported for the state by Tucker from Lawrence. Specimens are at hand from Manhattan, where winged forms were collected in April.

L. (ACANTHOMYOPS) CLAVIGER Roger. This species, spelled "*clavagers*," is reported in the Crevecoeur list. It is probably from the vicinity of Franklin County.

L. (ACANTHOMYOPS) LATIPES Walsh. This species was reported for the state by Crevecoeur. Specimens of workers in the State Agricultural College collection were collected at Manhattan, by Popenoe, in October.

L. spp. Undetermined males and females are before the writer from Riley County, collected by Marlatt, Popenoe and Norton. Popenoe's collections were made in June.

FORMICA SANGUINEA subsp. *SUBINTEGRA* Emery. This species was determined by M. R. Smith. A single worker collected in Riley County by the writer serves as a new state record.

F. RUFA var. *AGGERANS*. Two workers from Wallace County, collected July 20, in the State Agricultural College collection add this new name to the state list. This species is reported from Nebraska, Colorado and Dakota in Wheeler's list.

F. EXSECTOIDES Forel. Another new state record. Workers collected by the writer in Riley County were determined by M. R. Smith. This species has been called the "Mound-building ant of the Alleghenies," and is quite widely distributed in the northeastern states.

F. PALLIDE-FULVA Latr. Several workers are at hand from Riley County, collected in July and September. M. R. Smith writes in a letter that he has examples of this species from Kansas. So far as can be ascertained, this species has not been previously reported from this state. Its range is the southern states.

F. PALLIDE-FULVA subsp. *SCHAUFUSSI* Mayr. Tucker re-

ported this subspecies from Lawrence, where he collected a female in July. One worker (determined by M. R. S.) was collected by the writer in Riley County. This species has a northern range.

F. PALLIDE-FULVA subsp. *NITDIVENTRIS* Emery. This species has been taken in the state and recorded by Crevecoeur. The writer has workers from Kansas City, Kansas, and from Riley County.

F. FUSCA var. *SUBSERICEA* Say. Tucker found males of this variety at Lawrence in July. Workers are in the State Agricultural College collection from Riley County, also found in July.

F. SUBPOLITA Mayr. This species, listed as *Formica fusca* Linn. subspecies *subpolita* Mayr, is recorded from Lawrence by Tucker, who found a female in July. There is a possibility of an incorrect determination for Wheeler (1916, p. 599) believes that Mayr's species may have been *F. neogagates* Emery.

F. sp. Undetermined species of males and females of this genus are in the State Agricultural College collection as follows: One male from Riley County, in the Popenoe collection, July 29; one male from Riley County in the Norton collection; one female from Wallace, Kansas, July, 1885; one male from Riley County, July 13, in the Norton collection.

POLYERGUS RUFESCENS subsp. *BREVICEPS* Emery. This species has not been seen by the writer from Kansas, but Wheeler's list records its range from Colorado to Arkansas and Illinois, and it should, therefore, occur in the state.

P. RUFESCENS subsp. *LUCIDUS* Mayr var. *MONTIVAGUS* Wheeler. In a recent letter to the writer, M. R. Smith stated that he had specimens of this variety from Kansas.

CAMPONOTUS MACULATUS var. *NITDIVENTRIS* Emery. This species and variety is not found in previous Kansas lists. Four workers are in the Kansas Agricultural College collection collected April 14 in Riley County. Other specimens at hand are from Trego County. It is native to the western states.

C. MACULATUS Fabr. ssp. Specimens without further designation from Riley, Gove, and Cowley Counties were determined for the writer by M. R. Smith.

C. CASTANEUS Latr. This species is listed in the Crevecoeur list without varietal designation. It is found mostly in the Atlantic states.

C. CASTANEUS var. *AMERICANUS* Mayr. This variety is cited by Tucker with the locality designation "Kansas." The writer has taken workers of this variety (determined by W. M. W.) near Winfield, in September. Specimens are also at hand from

Riley County. Wheeler's list gives the northeastern states as the range of this variety.

C. HERCULEANUS Linn. Cited in the Bridwell list without varietal designation.

C. HERCULEANUS subsp. *PENNSYLVANICUS* DeGeer. This subspecies is found in the lists of both Bridwell and Tucker. Bridwell's specimens were in the collection of Baker University. Those cited by Tucker were taken at Lawrence, where he found workers in April and June and winged forms in July. Specimens are before the writer from Riley County. This is the common carpenter ant which occurs from Canada to Texas and often becomes a pest by damaging woodwork and infesting houses in search of sweets.

C. HERCULEANUS subsp. *PENNSYLVANICUS* DeG. var. *FERRUGINEUS* Fabr. One worker of the variety (determined by M. R. S.) is at hand from Riley County. This variety has not been previously recorded from this state. Wheeler cites its range as from New York to Illinois.

C. FALLAX var. *NEARCTICUS* Emery. This variety is cited in the Tucker list as *C. marginatus* Latr. var. *minutus* Emery from Lawrence.

C. FALLAX var. *MINUTUS* Emery. This variety is also cited by Tucker from Lawrence under the species *marginatus*. It is found in the northeastern states.

C. FALLAX var. *DECIPIENS* Emery. This species is reported by Tucker in a later publication (1913) from Lawrence, where he found males, females, workers and soldiers in a bee hive infested with moths. He further notes that this variety was reported (1906) by himself as *C. marginatus* Latr. var. *decipiens* Emery. Workers (determined by M. R. S.) of this variety in the Kansas Agricultural College collection were taken in Riley County, in March and April. This variety is found from the middle states to Texas.

C. FALLAX subsp. *DISCOLOR* Buckley. A new subspecies is here added to the state list. Workers (determined by M. R. S.) have been taken by Marlatt in Riley County in April.

C. CARYAE. var. Workers of this species were swept from *Polygonum* in Riley County by J. B. Norton on September 8. This species (determined by M. R. S.) is not found in previous state lists.

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New Species of Diptera from North Carolina.

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Chilosia swannanoa n. sp. (Syrphidae).

♂.—Eyes hairy; facial tubercle large and prominent; hind tibia with a decided emargination on posterior side near apex; third antennal joint longer than broad; face bare.

Black, the third antennal joint dark brown, the legs dark brown, with the following yellow or yellowish, apices of all femora, front tibiae, base and apex of middle and hind tibiae, and first two joints of four anterior tarsi; hind tarsi wholly dusky. All tibiae and tarsi covered with short fulvous pubescence which tends to obscure the ground color. Pile of