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Nathaniel J. S. Jansen
RECORDED
ON ANTENS

A Checklist of Idaho Ants

(Hymenoptera: Formicidae)¹

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The ants of Idaho have been listed only once: Cole (1936) reported 3 subfamilies, 17 genera, 48 species and 25 subspecies or varieties for a total of 73 forms of ants (Hymenoptera: Formicidae) as occurring in Idaho.

The following checklist contains 4 subfamilies, 23 genera, and 115 species, with 7 subspecies and a hybrid for a total of 123 forms. A total of 21 species are listed for the first time from Idaho. These are: *Myrmica* sp. (near *discontinua*), *Pheidole pilifera pacifica*, *Leptothorax diversipilosus*, *Forelius foetidus*, *Brachymyrmex depilis*, *Camponotus essigi*, *C. semitestaceus*, *Acanthomyops coloradensis*, *Formica aerata*, *F. bradleyi*, *F. ciliata*, *F. laeviceps*, *F. lepida*, *F. sp.* (near *neoclara*), *F. occulta*, *F. pacifica*, *F. opaciventris*, *F. rubicunda*, *F. tahoensis*, *F. ulkei* and *F. vinculans*. The differences in numbers of genera and species between Cole's list and the present one can be misleading. Many of the new names on our list are a result of nomenclatural changes in recent years.

Changes in nomenclature since 1936 have been extensive, particularly in the genera *Pogonomyrmex*, *Stenamma*, *Formica* (*fusca* group), *Myrmica*, *Acanthomyops*, *Lasius*, and *Myrmecocystus*. Further changes may be expected in the following genera: *Aphenogaster*, *Myrmica*, *Leptothorax*, *Camponotus* and *Formica* (especially in the *rufa* group).

The present list is based on both literature citations and collections. Knowlton (1970, 1975); Allred and Cole (1971); Horning and Barr (1970); and Cole (1934) have compiled lists of ants for Curlew Valley, Craters of the Moon National Monument, the National Reactor Testing Station (now called the Idaho Nuclear Engineering Laboratory) and the Snake River plains, respectively. New records not cited in the literature are based on voucher specimens housed at the University of Idaho, Moscow (UI), Boise State University, Boise (BSU), the

¹This study was assisted with grants to William H. Clark from The Foundation for Environmental Education Inc. and American Philosophical Society (Grant No. 1187, Johnson Fund). Participation of the last author was made possible through a grant from National Research Council of Canada.

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George C. Wheeler Collection (GCW), the Museum of Comparative Zoology, Harvard University (MCZ), the California Academy of Sciences (CAS), and in the personal collections of the authors, William H. Clark (WHC), Nicholas P. Yensen (NPY), and André Francoeur (AF).

Subspecies are included mainly for future taxonomic efforts and related studies.

Literature citations have been listed whenever possible to help verify the record. When more than two literature citations exist for a species only two of the more recent are usually used. Caution should be observed in that some records may be taken from an earlier citation and may not necessarily denote two separate records.

The species are listed alphabetically within genera. It is hoped that this will aid the nonmyrmecologist in locating names. Some of the more recent synonyms and "uses" are included with the literature citation to help ameliorate the confusion caused by the recent nomenclatural changes.

This list is a first step towards a paper on Idaho ants containing distribution and ecological data, identification keys and illustrations.

List of the Species

SUBFAMILY PONERINAE

PONERA

1. *Ponera pennsylvanica* Buckley
Taylor, 1967: 32.

SUBFAMILY MYRMICINAE

MYRMICA

2. *americana* Weber
Knowlton, 1975. Smith, 1951: 790.
3. *brevispinosa* W. Wheeler
Creighton, 1950: 97. Weber, 1950.
4. *emeryana* Forel
Smith, 1951: 790. Weber, 1948, as *M. schencki emeryana*. Caution: This name is listed here for reference purposes, despite being completely misleading for the moment.
5. *hamulata* Weber
Knowlton, 1975.
6. *incompleta* Provancher
Knowlton, 1975 and 1970, as *M. brevinodis*. Francoeur and Bélique, 1966. Weber, 1950 and Cole, 1936, as *M. brevinodis sulcinodoides*.

7. *fracticornis* Emery
Allred and Cole, 1971, as *M. lobicornis*. Horning and Barr, 1970.
8. *lobifrons* Pergande
Knowlton, 1975, as *M. lobicornis lobifrons*. Ul.
9. *monticola* W. Wheeler
Knowlton, 1975, 1970.
10. *spatulata* M. Smith
Knowlton, 1975.
11. *tahoensis* W. Wheeler
Knowlton, 1975.
12. sp. (near *discontinua* Weber)
AF. CAS.

MANICA

13. *hunteri* (W. Wheeler)
Wheeler and Wheeler, 1970. Creighton, 1950: 108, as *M. aldrichi*.
14. *mutica* (Emery)
Knowlton, 1975. Wheeler and Wheeler, 1970.

POGONOMYRMEX

15. *occidentalis* (Cresson)
Knowlton, 1975. Cole, 1968: 96.

16. *owyheeii* Cole
Knowlton, 1975. Cole, 1968: 103.
17. *salinus* Olsen
Knowlton, 1975, 1970.

STENAMMA

18. *diecki* Emery
Snelling, 1973.
19. *occidentale* M. Smith
Snelling, 1973.
20. *smithi* Cole
Knowlton, 1975, as *S. knowltoni*.
Snelling, 1973.

APHAENOGASTER

21. *occidentalis* (Emery)
Knowlton, 1975. Horning and
Barr, 1970, as *A. subterranea*
valida.
22. *unita* W. Wheeler
Creighton, 1950: 154. Cole, 1936.

VEROMESSOR

23. *lobognathus* (Andrews)
Allred and Cole, 1971.

PHEIDOLE

24. *californica* Mayr
Cole, 1936, 1934.
- 24a. *californica oregonica* Emery
Creighton, 1950: 173. Cole,
1936 as *P. oregonica*
25. *pilifera pacifica* W. Wheeler
WHC.

CREMATOGASTER

26. *mormonum* Emery
Smith, 1958: 127, and Smith
1951: 809, as *C. lineolata cerasi*.

MONOMORIUM

27. *minimum* (Buckley)
Knowlton, 1975. Allred and
Cole, 1971.
28. *pharaonis* (Linnaeus)
Cole, 1934.

SOLENOPSIS

29. *molesta* (Say)
Knowlton, 1975. Cole, 1934.
- 29a. *molesta validiuscula* Emery
Knowlton, 1975. Horning and
Barr, 1970.

LEPTOTHORAX

30. *andrei* Emery
Allred and Cole, 1971.
31. *diversipilosus* M. Smith
WHC.

32. *hirticornis* Emery
Cole, 1936, as *L. hirticornis formi-*
dolosa.
33. *muscorum* (Nylander)
Knowlton, 1975, 1970.
34. *nevadensis* W. Wheeler
Knowlton, 1975, 1970.
- 34a. *nevadensis eldoradensis*
W. Wheeler
Horning and Barr, 1970. Smith,
1951: 817, as *L. eldoradensis*.
- 34b. *nevadensis melanderi* W. Wheeler
Creighton, 1950: 266. Smith,
1951: 818, as *L. melanderi*.
35. *nitens* Emery
Knowlton, 1975, 1970.
36. *rugatulus* Emery
Knowlton, 1975. Horning and
Barr, 1970.
37. *tricarinatus* Emery
Smith, 1967: 359.

SUBFAMILY DOLICHODERINAE

IRIDOMYRMEX

38. *pruinatum* (Roger)
Wheeler and Wheeler, 1973: 102.
Cole, 1936.
- 38a. *pruinatum analis* (E. Andre)
Smith, 1967: 364. Creighton,
1950: 343.

FORELIUS

39. *foetidus* (Buckley)
Ul. NPY.

CONOMYRMA

40. *insana* (Buckley)
Knowlton, 1970, as *Dorymyrmex*
pyramicus. Creighton, 1950: 349,
as *D. pyramicus*.

TAPINOMA

41. *sessile* (Say)
Knowlton, 1975. Allred and Cole,
1971.

SUBFAMILY FORMICINAE

BRACHYMYRMEX

42. *depilis* Emery
Ul.

CAMPONOTUS

43. *essigi* M. Smith
Ul.
44. *herculeanus* (Linnaeus)
Cole, 1936, as *C. herculeanus*
whymperi.

45. *laevigatus* (F. Smith)
Hornig and Barr, 1970. Cole,
1936.
46. *modoc* W. Wheeler
Hornig and Barr, 1970, as *C.*
pennsylvanicus modoc. Cole,
1936, as *C. herculeanus* var.
modoc.
47. *nearcticus* Emery
Cole, 1936, as *C. fallax nearcti-*
cus.
48. *noveboracensis* (Fitch)
Cole, 1936, as *C. herculeanus*
ligniperdus var. *noveboracensis*.
49. *semitestaceus* Emery
WHC.
50. *vicinus* Mayr
Knowlton, 1975. Allred and
Cole, 1971.
51. sp. (near *hyatti* Emery)
Cole, 1936, 1934.

LASIUS

52. *alienus* (Foerster)
Knowlton, 1975, 1970, as *L.*
alienus americanus.
53. *crypticus* Wilson
Allred and Cole, 1971. Wilson,
1955: 105.
54. *fallax* Wilson
Wilson, 1955: 133.
55. *flavus* (Fabricius)
Wilson 1955: 126. Cole, 1936, as
L. brevicornis.
56. *neoniger* Emery
Wilson, 1955: 101. Cole, 1936, as
L. niger var. *neoniger*.
57. *niger* (Linnaeus)
Knowlton, 1975. Hornig and
Barr, 1970.
58. *pallitarsis* (Provancher)
Francoeur and Bèlique, 1966.
Wilson, 1955: 41, as *L. sitkaen-*
sis.
59. *subumbratus* Viereck
Wilson, 1955: 178.
60. *umbratus* (Nylander)
Wilson, 1955: 161.
61. *vestitus* W. Wheeler
Wilson, 1955: 175. Cole, 1936, as
L. umbratus vestitus.

ACANTHOMYOPS Mayr

62. *coloradensis* (W. Wheeler)
NPY.
63. *interjectus* (Mayr)
Wing, 1968: 95.

64. *latipes* (Walsh)³
Wing, 1968: 101. Cole, 1936, as
Lasius latipes.
65. *murphyi* (Forel)³
Wing, 1968: 115.

MYRMECOCYSTUS

66. *hammettensis* Cole
Snelling, 1976: 102. Creighton,
1950: 443.
67. *kennedyi* Cole
Snelling, 1976: 65. Creighton,
1950: 449, as *M. semirufus*.
68. *pyramicus* M. Smith
Snelling, 1976: 135. WHC. NPY.
69. *testaceus* Emery
Snelling, 1976: 138. Allred and
Cole, 1971, as *M. mojave*.

FORMICA

70. *accreta* Francoeur
Francoeur, 1973: 188.
71. *aerata* Francoeur
U. BSU.
72. *altpetens* W. Wheeler
Francoeur, 1973: 58. Creighton,
1950: 531.
73. *argentea* W. Wheeler
Knowlton, 1975, as *F. fusca*.
Francoeur, 1973: 150.
74. *bradleyi* W. Wheeler
U.
75. *canadensis* Santschi
Francoeur, 1973: 66. Smith,
1951: 861, as *F. cinerea* var.
canadensis.
76. *cillata* Mayr
BSU.
77. *coloradensis* W. Wheeler
Hornig and Barr, 1970, as *F.*
integroides coloradensis. Creigh-
ton, 1950: 489, as *F. integroides*
coloradensis.
78. *criniventris* W. Wheeler
Knowlton, 1975, 1970.
79. *curiosa* Creighton
Snelling, 1969. Cole, 1946, as *F.*
parcipappa.
80. *dakotensis* Emery
Cole, 1936, as *F. dakotensis* var.
montigena.
81. *densiventris* Viereck
Hornig and Barr, 1970, as *F.*
rasilis. Knowlton, 1970.

³Also *murphyi* x *latipes* hybrid (Wing, 1968: 117).

82. *haemorrhoidalis* Emery
Knowlton, 1975. Allred and Cole,
1971.
83. *hewitti* W. Wheeler
Francoeur, 1973: 213. Horning
and Barr, 1970.
84. *laeviceps* Creighton
WHC.
85. *lasioides* Emery
Knowlton, 1975. Allred and Cole,
1971.
86. *lepida* W. Wheeler
AF, G. C. and J. N. Wheeler col-
lection, and MCZ. This third
record for the species is a large
extension of range toward the
north.
87. *limata* W. Wheeler
Knowlton, 1975, 1970.
88. *manni* W. Wheeler
Knowlton, 1975. Allred and Cole,
1971.
89. *neoclara* Emery
Knowlton, 1975. Francoeur,
1973: 91.
90. sp. (near *neoclara*) This sibling
form looks like *F. neoclara* but
without the metasternal proces-
ses, with a more angulate pro-
podeum and dorsal margin of
petiole usually entire. Collections:
AF, BSU, GCW, UI, WHC.
91. *neogagates* Emery
Knowlton, 1975. Allred and Cole,
1971.
92. *neorufibarbis* Emery
Knowlton, 1975. Francoeur,
1973: 225.
93. *obscuripes* Forel
Knowlton, 1975. Allred and Cole,
1971.
94. *obscuriventris clivia* Creighton
Clark and Yensen, 1976.
95. *obtusopilosa* Emery
Knowlton, 1975. Allred and
Cole, 1971.
96. *occulta* Francoeur
UI.
97. *opaciventris* Emery
AF. MCZ.
98. *oreas* W. Wheeler
Knowlton, 1975. Allred and Cole,
1971.
- 98a. *oreas comptula* W. Wheeler
Knowlton, 1975, 1970.
99. *pacifica* Francoeur
BSU.
100. *pallidefulva nitidiventris* Emery
Cole, 1936, as *F. pallidefulva*
schaufussi var. *incerta*.
101. *planipilis* Creighton
Knowlton, 1975. Horning and
Barr, 1970.
102. *podzolica* Francoeur
Francoeur, 1973: 169.
103. *puberula* Emery
Cole, 1936, 1934 as *F. sanguinea*
puberula.
104. *querquetulana* Kennedy and Dennis
Knowlton, 1975.
105. *rubicunda* Emery
UI.
106. *subnitens* Creighton
Knowlton, 1975, 1970.
107. *subaenescens* Emery
Francoeur, 1973: 200, as *F. fusca*
(forme *subaenescens*). UI.
108. *subnuda* Emery
Chapman, 1957.
109. *subpolita* Mayr
Knowlton, 1975, as *F. subpolita*
camponoticeps. Francoeur, 1973:
131.
110. *tahoensis* W. Wheeler
BSU. UI.
111. *transmontanis* Francoeur
Francoeur, 1973: 140.
112. *ulkei* Emery
AF. MCZ.
113. *vinculans* W. Wheeler
UI.
114. *whymperi* Forel
Knowlton, 1975. Allred and Cole,
1971.
- 114a. *whymperi alpina* W. Wheeler
Horning and Barr, 1970.
- 114b. *whymperi californica* W. Wheeler
Creighton, 1950: 510.

POLYERGUS

115. *breviceps* Emery
Horning and Barr, 1970, as *P.*
rufescens breviceps. Wheeler,
1968.

We are grateful for invaluable assistance of Drs. G. C. and J. N. Wheeler, R. R. Snelling, R. E. Gregg and W. F. Buren in determining specimens. Roy R. Snelling reviewed the manuscript and was especially helpful with certain taxonomic problems. The following curators have been generous in loaning us material: Dr. W. F. Barr, University of Idaho; Dr. P. H. Arnaud, Jr., California Academy of Sciences; Drs. G. F. Knowlton and W. J. Hanson, Utah State University; Drs. W. J. Turner and R. D. Akre, Washington State University; Dr. C. W. Baker, Boise State University; Drs. J. D. Marshall and R. D. Bratz, College of Idaho; R. C. Anderson, Idaho State University. Dr. W. L. Brown of Cornell University and Mr. R. L. Spidell of Boise also provided valuable material. Dr. P. L. Packard of the College of Idaho volunteered laboratory space for this project and Dr. R. D. Bratz made additional resources available. Material assistance was provided by the Philo Tech Alumni Research Cooperative, College of Idaho.

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