

1935

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Recommended Citation

Knutson, Herbert and Jaques, H. E. (1935) "A Revised List of the Orthoptera of Iowa," *Proceedings of the Iowa Academy of Science*, 42(1), 179-184.

Available at: <https://scholarworks.uni.edu/pias/vol42/iss1/91>

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A REVISED LIST OF THE ORTHOPTERA OF IOWA

HERBERT KNUTSON AND H. E. JAUQUES

The first list of Iowa Orthoptera was entitled "A Preliminary Catalogue of the Orthoptera of Iowa." This was published by C. F. Bessey in the Seventh Biennial Report of the Iowa State College in 1877. The list included about forty species.

The second list to appear was that of Herbert Osborn, entitled "The Orthopterous Fauna of Iowa." It was published in the Proceedings of the Iowa Academy of Science, Vol. I, part 2, in 1892. This list contained about seventy-eight species.

The third list to be published was that of E. D. Ball entitled "Notes on the Orthopterous Fauna of Iowa." It appeared in the Proceedings of the Iowa Academy of Science, Vol. IV, in 1896. This list contained about ninety-six species.

The fourth list, an unpublished manuscript, is entitled "Orthoptera of Iowa." It was written by Melvin P. Somes in 1911 and may be found in the University of Iowa Library. Several of the species that Somes lists are synonyms, and with these subtracted, there remain about one-hundred species.

The list now being submitted contains 147 species and races and is based upon the Iowa Insect Survey Collection of Iowa Wesleyan College, on the Iowa State College Collection, on the private collection of Dr. R. L. King, and on literature records of James A. G. Rehn and Morgan Hebard.

The specimens from the Iowa Insect Survey Collection have been collected by students at Iowa Wesleyan College, by Junior College students, by High School students, and by Boy Scouts throughout the state. The summer field collecting, for the Iowa Insect Survey Collection, which visits all the counties of the state, has accounted for many of the specimens. The Iowa Insect Survey Collection has been benefitted greatly by the contributions of Dr. R. L. King, who has added eighteen additional species, three of which are new for the state, as well as extensions to the known distribution of several species.

The determinations of the specimens in the Iowa Insect Survey Collection have been checked by Mr. Morgan Hebard of the Academy of Natural Sciences at Philadelphia. The following species were partly erroneously determined, and were corrected by

Mr. Hebard: Numbers 65, 67, 98, 112, 125b, 183, 193, 211, 212, 216, 218, 247, 251, 261, 265, 292, 320, 327, 338, 338a, and 341. The following species were entirely wrong in determination, and were corrected by Mr. Hebard: Numbers 109, 111½, 125a, 127, 134½, 155½, 212, 264, 299, 300, 300¼, and 320c. The following species new to the list were determined by Mr. Hebard: Numbers 21, 60, 64a, 68, 69c, 108½, 109½, 111½, 125a, 127, 129½, 134½, 155½, 194, 197a, 200, 212, 214, 220a, 242, 248, 258, 275, 299, 300, 300¼, and 320c.

The list now being submitted was helped by the list of species of the Iowa State College Collection, kindly furnished by Dr. H. H. Knight. This list has added eighteen additional species and has extended the known distribution of several others. Dr. Knight states in his letter that the specimens have been largely determined or checked by Dr. B. B. Fulton.

All but ten species listed in this paper can be found in at least one of the collections mentioned. These ten species are indicated and footnotes refer to the publications where mention of these specimens in Iowa can be found.

The authors of this list are grateful to Mr. Morgan Hebard for checking the determinations of the Iowa Insect Survey Collection and determining other specimens, to Dr. H. H. Knight for submitting the list of the Iowa State College Collection, to Dr. R. L. King for the specimens that he has put in the Iowa Insect Survey Collection and the many helpful suggestions that he has given, and to the many collectors who have contributed specimens.

The catalogue numbers used are taken from Blatchley's "The Orthoptera of Northeastern America" except those species that were not listed by Blatchley, and in such cases numbers were made by the authors.

Species that may be found in the Iowa Insect Survey Collection are designated by a capital "A" and those in the Iowa State College Collection are designated by a capital "B." The ten species referred to by Rehn and Hebard are marked and the footnotes indicate the volume and pages where these references may be found.

BLATTIDAE

17. *Blattella germanica* (Linnaeus) A-B.
21. *Parcoblatta virginica* (Brunner) A-B.
25. *Parcoblatta pennsylvanica* (DeGeer) A-B.
- 27½ *Nyctibora noctivaga* Rehn A. An Adventive cockroach.
29. *Blatta orientalis* Linnaeus A-B.
31. *Periplaneta americana* (Linnaeus) A-B.

34. *Periplaneta fuliginosa* (Scrville) B.
 35½. *Panchlora cubensis* Saussure A. An adventive cockroach.

MANTIDAE

43. *Stagmomantis carolina* (Johannson) A.
 44½. *Litaneutria minor* (Scudder) A. A short winged female taken at "Joy Creek" in Plymouth County in July.
 46. *Tenodera sinensis* Saussure A. An introduced species.

PHASMIDAE

52. *Diapheromera femorata* (Say) A-B.
 53. *Diapheromera velii velii* Walsh A-B.

ACRIDIDAE

60. *Megaphasma dentricius* (Stal) A.
 64a. *Nomotettix cristatus compressus* Morse A. One male specimen taken at Pansy Hill, west of Mt. Pleasant in Henry County. An extension northwestward of the known distribution of this race.
 65. *Acrydium subulatum* (Linnaeus) A-B.
 67. *Acrydium ornatum* (Say) A-B.
 67a. *Acrydium ornatum hancocki* (Morse) B.
 68. *Acrydium acadicum acadicum* (Scudder) A.
 69c. *Acrydium arenosum angustum* (Hancock) A.
 73. *Paratettix cucullatus cucullatus* (Burmeister) A-B.
 77a. *Tettigidea lateralis parvipennis* (Harris) A-B.
 82. *Pseudopomala brachyptera* (Scudder) A-B.
 84. *Mermiria neomexicana* (Thomas).¹
 86. *Mermiria bivittata* (Serville).²
 87. *Mermiria maculipennis macclungi* Rehn.³
 88. *Syrbula admirabilis* (Uhler) A-B.
 88½. *Opeia obscura* (Thomas) A. This is a new species for the state, taken in August from Lyon County.
 89. *Eritettix simplex simplex* (Scudder) A-B.
 91. *Chloealtis conspersa* Harris A-B.
 98. *Orphulella speciosa* (Scudder) A-B.
 99. *Dichromorpha viridis* (Scudder) A-B.
 101. *Chorthippus longicornis* (Latreille) A-B.
 102. *Ageneotettix deorum* (Scudder) A-B.
 103. *Stethophyma lineatum* (Scudder) A.
 104. *Stethophyma gracile* (Scudder) A. This is a new species for Iowa, also a new southern record, this species being taken from Dickinson County.
 106. *Arphia xanthoptera* (Burmeister) A-B.
 108. *Arphia pseudonietana* (Thomas) A-B.
 108½. *Arphia simplex* Scudder A.
 109. *Arphia sulphurea* (Fabricius) A-B.
 109½. *Arphia conspersa* Scudder A.

¹ *Mermiria neomexicana* (Thomas) Rehn, James A. G. "A Study of the Orthopterous Genus *Mermiria*" from the Proceedings of the Academy of Natural Sciences of Philadelphia. March, 1919, p. 79.

² *Mermiria bivittata* (Serville) *ibid.*, p. 101.

³ *Mermiria maculipennis macclungi* Rehn, *ibid.*, p. 117.

110. *Chortophaga viridifasciata* (DeGeer) A-B.
 111. *Encoptolophus sordidus sordidus* (Burmeister) A-B.
 111a. *Encoptolophus sordidus costalis* (Scudder) A.
 112. *Camnula pellucida* Scudder A. A new species for the state, taken at Lyon County.
 113. *Pardalophora apiculata* (Harris) A-B.
 115. *Pardalophora haldemanni* (Scudder) A-B.
 116. *Hippiscus rugosus* (Scudder) A-B.
 117. *Dissosteira carolina* (Linnaeus) A-B.
 118. *Spharagemon bolli* Scudder A-B.
 122. *Spharagemon collare* (Scudder) A-B.
 124. *Psinidia fenestralis fenestralis* (Serville) A.
 125a. *Trachyrhachis kiowa fuscifrons* (Stal) A.
 125b. *Trachyrhachis kiowa* Thomas A. This race can be distinguished from *Trachyrhachis kiowa fuscifrons* (Stal) by the absence of the wing band and yellow wing disk.
 127. *Trimerotropis citrina* Scudder A-B. These specimens were taken along the Mississippi River in Louisa County.
 129½. *Hadrotettix trifasciatus* (Say) A. New Species for Iowa from "Joy Creek" in Plymouth County.
 134. *Schistocerca americana americana* (Drury) A-B.
 134½. *Schistocerca lineata* Scudder A-B. Specimens taken at Ames, Leon and Monona County. A new eastern record for the state.
 135. *Schistocerca alutacea* (Harris) A.
 137½. *Hypochlora alba* (Dodge) A.
 140. *Campylacantha olivacea olivacea* (Scudder) A. A new species for the state, taken at Muscatine County.
 145. *Hesperotettix viridis pratensis* Scudder A-B.
 155½. *Paratylotropidia brunneri* Scudder Specimen in the King Collection. A new species for the state taken at the Burlington Golf Grounds in Des Moines County.
 158. *Phoetaliotes nebrascensis* (Thomas) A-B.
 159. *Melanoplus gracilis* (Bruner) A.
 160. *Melanoplus viridipes viridipes* Scudder A.
 165. *Melanoplus obovatipennis* Blatchley.⁴
 179. *Melanoplus mancus islandicus* Blatchley.⁵
 182. *Melanoplus dawsoni* (Scudder) A-B.
 183. *Melanoplus scudderi scudderi* (Uhler) A-B.
 189. *Melanoplus walshii* Scudder A.
 192. *Melanoplus bruneri* Scudder.⁶
 193. *Melanoplus mexicanus mexicanus* (Saussure) A-B.
 194. *Melanoplus flavidus flavidus* Scudder A.
 196. *Melanoplus femur-rubrum femur-rubrum* (DeGeer) A-B.
 196½. *Melanoplus infantilis* Scudder.⁷
 197a. *Melanoplus borealis junius* (Dodge) A.
 198. *Melanoplus angustipennis* (Dodge) A.

⁴ *Melanoplus obovatipennis* Blatchley Hebard, Morgan "The Dermaptera and Orthoptera of Illinois" Bulletin Natural Hist. Surv. of Ill., Vol. XX, Art III, Nov., 1934, p. 193.

⁵ *Melanoplus mancus islandicus* Blatchley Hebard, Morgan "The Orthoptera of Minnesota" Tech. Bul. 85, Univ. Minn. Exp. Sta., July, 1932, p. 34.

⁶ *Melanoplus bruneri* Scudder *ibid.*, p. 38.

⁷ *Melanoplus infantilis* Scudder *ibid.*, p. 36.

199. *Melanoplus impiger* Scudder.⁸
 200. *Melanoplus packardii* Scudder A.⁹
 201. *Melanoplus foedus fluviatilis* Bruner A-B.
 201½. *Melanoplus gladstoni* (Scudder).¹⁰
 203. *Melanoplus confusus* Scudder A-B.
 204a. *Melanoplus keeleri luridus* (Dodge) A-B.
 205. *Melanoplus differentialis* (Thomas) A-B.
 208. *Melanoplus bivittatus* (Say) A-B.
 209. *Melanoplus punctulatus punctulatus* (Scudder) B.

TETTIGONIIDAE

211. *Scudderia septentrionalis* (Serville) A-B.
 212. *Scudderia texensis* Saussure and Pictet A-B.
 213. *Scudderia pistillata* Brunner A-B.
 214. *Scudderia curvicauda* (DeGeer) A.
 216. *Scudderia furcata furcata* Brunner A-B.
 218. *Amblycorypha oblongifolia* (DeGeer) A-B.
 220. *Amblycorypha rotundifolia rotundifolia* (Scudder) B.
 220a. *Amblycorypha parvipennis brachyptera* Ball A.
 221. *Microcentrum rhombifolium* (Saussure) A.
 226. *Pterophylla camellifolia* (Fabricius) A-B.
 235. *Neoconocephalus nebrascensis* (Bruner) B.
 237. *Neoconocephalus ensiger* (Harris) A-B.
 238. *Neoconocephalus robustus robustus* (Scudder) A.
 238a. *Neoconocephalus robustus crepitans* Scudder B.
 242. *Neoconocephalus retusus* Scudder A.
 247. *Orchelimum vulgare* Harris A-B.
 248. *Orchelimum gladiator* (Bruner) A-B.
 251. *Orchelimum nigripes* Scudder A-B.
 252. *Orchelimum silvaticum* McNeill A-B.
 254. *Orchelimum concinnum concinnum* Scudder B.
 258. *Orchelimum volantum* McNeill A.
 261. *Conocephalus fasciatus fasciatus* (DeGeer) A-B.
 263. *Conocephalus brevipennis* (Scudder) B.
 264. *Conocephalus nemoralis* (Scudder) A-B.
 265. *Conocephalus strictus* (Scudder) A-B.
 268. *Conocephalus nigropleurum* (Bruner) A-B.
 269. *Conocephalus attentatus* (Scudder) B.
 272. *Conocephalus saltans* (Scudder) B.
 275. *Atlanticus testaceus* (Scudder) A.
 288. *Tachycines asynamorus* Adelung A. This is an Asiatic species that has been introduced into green houses and cellars.
 289. *Udeopsylla robusta* (Haldeman) A-B.
 292. *Ceuthophilus maculatus* (Harris) A.
 292½. *Ceuthophilus pallidus* Thos. A.
 299. *Ceuthophilus seclusus* Scudder A.
 299½. *Ceuthophilus divergens* Scudder A.
 300. *Ceuthophilus latens* Scudder A.

⁸ *Melanoplus impiger* Scudder *ibid.*, p. 39.

⁹ *Melanoplus packardii* Scudder *ibid.*, p. 38.

¹⁰ *Melanoplus gladstoni* (Scudder) *ibid.*, p. 36.

- 300¹. *Ceuthophilus williamsoni* Hubbell A-B.
 300². *Ceuthophilus elegans* Hubbell B.

GRYLLIDAE

307. *Gryllotalpa hexadactyla* Perty A-B.
 313. *Tridactylus apicalis* Say A-B.
 314. *Tridactylus minutus* Scudder A-B.
 320. *Nemobius fasciatus fasciatus* (DeGeer) A-B.
 320c. *Nemobius fasciatus tinnulus* Fulton A.
 322. *Nemobius maculatus* Blatchley B.
 324. *Nemobius bruneri* Hebard B.
 327. *Nemobius carolinus carolinus* Scudder A-B.
 328. *Nemobius confusus* Blatchley A-B.
 332. *Miogryllus verticalis* (Serville) A.
 333. *Gryllus assimilis* Fabricius. There are two "forms" or "phases" to this species. A-B.
 334. *Gryllus domesticus* Linnaeus A.
 335. *Oecanthus niveus* (DeGeer) A-B.
 336. *Oecanthus angustipennis* Fitch A-B.
 337. *Oecanthus exclamationis* Davis B.
 338. *Oecanthus nigricornis nigricornis* F. Walker A-B.
 338a. *Oecanthus nigricornis quadripunctatus* Beutenmüller A-B.
 338b. *Oecanthus nigricornis argentinus* Saussure A.
 340. *Oecanthus latipennis* Riley B.
 341. *Neoxabea bipunctata* (DeGeer) A-B.
 342. *Anaxipha exigua* (Say) B.
 349. *Hapithus agitator* Uhler B.

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