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D. L. Wray

*Department of Agriculture, Realeigh, N.C.*

G. F. Knowlton

*Utah State Agricultural College*

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## A PRELIMINARY LIST OF COLLEMBOLA OF IDAHO

By D. L. Wray<sup>1</sup> and G. F. Knowlton<sup>2</sup>

This list is the result of a study of the ecological range of this interesting group of insects in this general area during the years 1948 to 1956. Over 300 field samples of leaves, debris, grass, moss, soil, etc., were collected in various habitats by G. F. Knowlton and his associates. Specimens were most commonly secured by the use of a modified Berlese funnel. The systematic arrangement and identification of specimens were made by D. L. Wray.

Order COLLEMBOLA Lubbock

Family PODURIDAE

*ACHORUTES ARMATUS* Nicolet. Franklin, Nov. 2, Dec. 22, April 7, from garden litter, grass, ash and boxelder leaves, and thistles, G. F. Knowlton, S.C. Ma, K. Goodarzy; Lava Hot Springs, June 29, poplar leaves and trash, B. A. Baldwin; Aberdeen, Sept. 21, from rotting weeds and moss from canal, GFK and J. V. Bruce; Cub River Canyon, Aug. 28, from moss, GFK and B. K. Collmar; Cherry Creek, Nov. 10, GFK; Fish Haven, Oct. 11, July 6, from rotten wood and wild grass hay, GFK; Montpelier, July 6, from grass and moss, GFK; Idaho Falls, Nov. 6, in lawn, GFK; Paris, July 6, in lilac leaves and soil, GFK and Ted Tibbetts; Georgetown, July 6, from strawberry field litter, GFK; Stone, Aug. 24, from sage litter and soil, GFK; St. Charles, June 29, from straw litter, TT and D. Haws; Whitney, May 19, from corral litter, GFK and E. H. Kardos.

*ACHORUTES MATURES* Folsom. Cherry Creek, Nov. 10, from shade tree litter, GFK; Deer Lodge, Apr. 7, from rotten wood, GFK, EHK; Preston, Dec. 30, from maple and basswood leaves, GFK, SCM; Montpelier, July 6, GFK; Lava Hot Springs, June 29, from poplar leaves, BAB; Fish Haven, July 6, from wild grass hay, GFK; Blackfoot, Aug. 2, from leaves, GFK, TT, and D. McComb; Stone, Aug. 24, GFK, SCM; Paris, Mar. 16, from spruce litter, GFK, SCM; Twin Falls, Nov. 21, from willow leaves, GFK, SCM; St. Charles, June 29, from straw litter, TT, DH; Whitney, May 19, Feb. 20, from

1. Entomologist, Division of Entomology, Department of Agriculture, Raleigh, N. C.

2. Professor and Extension Entomologist, Utah State Agricultural College, Logan, Utah.

corral litter and moldy grass, GFK. SCM. EHK; Georgetown, July 6, from strawberry litter, GFK; Franklin, Apr. 7, from thistles, GFK, SCM.

*ACHORUTES PROMATRO* Wray. Franklin, Nov. 2, 26, Dec. 22, from garden. grass, boxelder and ash tree litter, GFK, SCM, KG; Woodruff, Sept. 8, straw litter. GFK. DH; Lava Hot Springs, June 29, from poplar leaves, BAB; Georgetown, July 6, from strawberry patch, GFK; Montpelier, July 6, GFK.

*ACHORUTES NIVICOLUS* Fitch. Franklin, Dec. 22, from boxelder litter, GFK, KG.

*XENYLLA BACONAE* Folsom. Fish Haven, Oct. 11, from maple leaves, GFK, SCM.

*XENYLLA WELCHI* Folsom. Franklin, Nov. 26, from garden litter, GFK.

*FRISEA CLAVISETA* Axelson. Lava Hot Springs, June 29, Dec. 22, from poplar leaves and trash, BAB, GFK; Franklin, Nov. 2, from ash tree litter, GFK, SCM; Fish Haven, July 6, from wild grass hay, GFK.

*FRISEA GRANDIS* Mills. Cherry Creek, Nov. 10, from shade tree litter, GFK.

*NEANURA MUSCORUM* Templeton. Deer Lodge, Apr. 7, from rotten wood, GFK, EHK; Fish Haven, July 6, from wild grass hay, GFK; Franklin, Nov. 2, from grass, GFK, SCM.

*ONYCHIURUS ARMATUS* Tullberg. Franklin, Nov. 21, 26, from garden litter and grass, GFK; Lava Hot Springs, June 29, from poplar leaves and trash, BAB; St. Charles, Nov. 19, from grass, GFK, SCM; Fish Haven, Oct. 11, July 6, from rotten wood and grass, GFK, SCM; Montpelier, July 6, GFK; Idaho Falls, Nov. 6, from lawn, GFK; Blackfoot, Aug. 2, from leaves, GFK, TT, DH; Georgetown, July 6, from strawberry field, GFK.

*TULLBERGIA GRANDIS* Mills. Cherry Creek, Nov. 16, from shade tree litter, GFK.

*TULLBERGIA GRANULATA* Mills. Idaho Falls, Nov. 6, from lawn, GFK; Georgetown, July 6, in strawberry patch, GFK; Franklin, Nov. 2, 26, Apr. 7, in garden litter, grass, and thistles, GFK, SCM.

*TULLBERGIA CLAVATA* Mills. Blackfoot, Aug. 2, from leaves, GFK, TT, DMC; Stone, Aug. 24, from poplar leaves, GFK, SCM.

*TULLBERGIA KNOWLTONI* Wray. Franklin, Nov. 26, from garden litter, GFK.

*TULLBERGIA IOWENSIS* Mills. Franklin, Nov. 26, from garden litter, GFK; Woodruff, Sept. 8, from straw litter, GFK, DH.

*TULLBERGIA COLLIS* Bacon. Bloomington, Nov. 17, from lilac leaves, GFK, SCM; Fish Haven, July 6, from wild grass hay, GFK.

#### Family ISOTOMIDAE

*ISOTOMODES TENUIS* Folsom. Stone, Aug. 24, from poplar leaves, GFK, SCM.

*FOLSOMIA FIMETARIA* Linn. Lava Hot Springs, June 29, from poplar leaves and trash, BAB; Fish Haven, July 6, from birch leaves, GFK; Woodruff, Sept. 8, from leaves and soil, GFK, DH.

FOLSOMIA DIPLOPHTHALMA Axelson. Franklin. Apr. 7. EHK.

AGRENIA BIDENTICULATA Tullberg. Cub River Canyon. Aug. 28, in moss, GFK, BKC.

PROISOTOMA MINUTA Tullberg. Stone, Aug. 24, from sage and willow leaves, and soil, GFK, SCM.

PROISOTOMA DECEMOCULATA Folsom. St. Charles, June 29, in grass, TT, DH.

PROISOTOMA AQUAE Bacon. Franklin, Nov. 26, from garden litter, GFK; Lava Hot Springs, June 29, poplar leaves and trash, BAB; Woodruff. Sept. 8, from straw litter. GFK, DH; Aberdeen, Sept. 2, from rotting weeds and moss from canal, GFK, JVB; Fish Haven, July 6, from birch leaves and rotten wood, GFK, SCM; Deer Lodge, Apr. 7, from rotten wood, GFK, EHK; Georgetown, July 6, from strawberry patch, GFK; Idaho Falls, Nov. 6, from lawn, GFK; Stone, Aug. 24, from bedding straw, GFK, SCM; Whitney, May 19, from corral litter and moldy grass, GFK, SCM, EHK; St. Charles, June 29, from straw litter, TT, DH.

SPINISOTOMA sp. Montpelier, July 6, GFK.

ISOTOMURUS PALUSTRIS Muller. Fish Haven, Oct. 11, in rotten wood, GFK, SCM; Bloomington, July 6, from meadow soil, GFK; Woodruff. Sept. 8, from leaves and soil, GFK, DH; St. Charles, June 29, in grass, TT, DH.

ISOTOMA VIRIDIS Bourlet. Franklin, Nov. 26. Dec. 22, in garden and boxelder litter, GFK; St. Charles, Nov. 19, from slough grass, GFK, SCM; Cub River Canyon, Aug. 28, in moss, GFK, KG.

ISOTOMA CINEREA Nicolet. St. Charles, Nov. 19, from slough grass, GFK, SCM.

ISOTOMA OLIVACEA Tullberg. Cub River Canyon. Aug. 28, in moss, GFK, KG; Fish Haven, Aug. 28. July 6, from birch leaves and wild grass, GFK; Lava Hot Springs, June 29, from poplar leaves, BAB; Whitney, May 19, from corral litter, GFK, EHK; St. Charles, June 29, in grass, TT, DH.

ISOTOMA MINOR Schäffer. Cub River Canyon. Aug. 28, in moss, GFK, BKC; Paris, July 6, from lilac leaves and soil, GFK, TT.

ISOTOMA TRISPINATA MacGillivray. Cub River Canyon, Aug. 28, in moss, GFK, BKC, Woodruff, Sept. 8, in leaves and soil, GFK, DH.

ISOTOMA EUNOTABILIS Folsom. Franklin, Nov. 2, 26, Apr. 7, in garden litter, grass, and thistles, GFK, SCM; St. Charles, Nov. 19, June 29, from slough grass, straw litter, GFK, SCM, TT, DH; Bloomington, Nov. 17, from lilac leaves, GFK, SCM; Woodruff, Sept.

8, from straw litter, leaves, and soil, GFK, DH; Aberdeen, Sept. 21, from rotting weeds and moss from canal, GFK, JVB; Cub River Canyon, Aug. 28, from moss, GFK, KG; Fish Haven, Oct. 11, from rotten wood and maple leaves, GFK, SCM; Georgetown, July 6, from strawberry field litter, GFK; Idaho Falls, Nov. 6, from lawn, GFK; Twin Falls, Nov. 21, from willow leaves, GFK, SCM; Blackfoot, Aug. 2, from leaves, GFK, TT, DMc; Stone, Aug. 24, from poplar leaves, GFK, SCM; Paris, July 6, from lilac leaves and soil, GFK, TT.

## Family ENTOMOBRYIDAE

ENTOMOBRYA ATROCINCTA Schött. Franklin. Nov. 26, from garden litter, GFK; Cherry Creek, Nov. 10, from shade tree litter, GFK; Blackfoot, Aug. 2, from leaves, GFK, DMc; Stone, Aug. 24, from poplar and willow leaves, GFK, SCM.

ENTOMOBRYA PSEUDOPERPULCHRA Mills. Cherry Creek, Nov. 10, from shade tree litter, GFK; Blackfoot, Aug. 2, from leaves, GFK, TT, DMc.

ENTOMOBRYA NIVALIS Linn. Aberdeen, Sept. 21, from rotting weeds and grass from canal. GFK, JVB.

ENTOMOBRYA MARGINATA Tullberg. Aberdeen, Sept. 2, from rotting weeds and moss from canal, GFK, JVB; Lava Hot Springs, June 29, from poplar leaves, BAB; Inkom, Aug. 13, from moss, GFK, SCM; Idaho Falls, Nov. 16, from lawn, GFK; Georgetown, July 6, from strawberry patch, GFK; Montpelier, July 6, GFK; St. Charles, June 29, from straw litter, TT, DH; Twin Falls, Nov. 21, from willow leaves, GFK, SCM.

ENTOMOBRYA PURPURASCENS Packard. Franklin, Nov. 2, 26, from garden litter and grass, GFK, SCM; Lava Hot Springs, June 29, Aug. 24, from willow and poplar leaves and trash, BAB, GFK, SCM; Cub River Canyon, Aug. 28, from moss, GFK, KG; Fish Haven, July 6, Oct. 11, from rotten wood and wild grass, GFK, SCM; Montpelier, July 6, from grass and moss, GFK; St. Charles, June 29, from grass, TT, DH.

ENTOMOBRYA MULTIFASCIATA Tullberg. Franklin, Nov. 26, from garden litter, GFK; Cherry Creek, Nov. 10, from shade tree litter, GFK; Fish Haven, Oct. 11, from rotten wood, GFK, SCM; Idaho Falls, Nov. 6, from lawn, GFK; Blackfoot, Aug. 2, from leaves, GFK, TT, DMc; Stone, Aug. 24, from poplar leaves, GFK, SCM; Twin Falls, Nov. 24, from willow leaves, GFK, SCM; Woodruff, Sept. 8, from leaves and soil, GFK, DH.

DREPANURA KANABA Wray. Cherry Creek, Nov. 10, from shade tree litter, GFK; Franklin, Dec. 22, from boxelder litter, GFK, KG.

SIRA PLATANI Nicolet. Cherry Creek, Nov. 10, from shade tree litter, GFK.

LEPIDOCYRTUS CYANEUS Tullberg. Bloomington, Nov. 17, from lilac leaves, GFK, SCM; Aberdeen, Sept. 21, from rotting weeds and moss from canal, GFK, SCM; Deer Lodge, Apr. 7, from rotten wood, GFK, EHK; Preston, Dec. 30, from *Tilia americana* leaves, GFK; Fish Haven, July 6, Oct. 11, from wild grass hay and maple leaves, GFK, SCM; Blackfoot, Aug. 2, from leaves, GFK, TT, DMc; Twin Falls, Nov. 21, from willow leaves, GFK, SCM; St. Charles, June 29, from straw litter, TT, DH; Whitney, May 19, from corral litter, GFK, EHK; Paris, Nov. 19, from sawdust, lilac leaves and soil, GFK, SCM, TT; Franklin, Nov. 2, from *Crataegus*, GFK, SCM.

LEPIDOCYRTUS CYANEUS var. *aenescens* Guthrie. Fish Haven, Oct. 11, from rotten wood, GFK, SCM; Montpelier, July 6, GFK.

DREPANOCYRTUS KNOWLTONI Wray. Cherry Creek, Nov. 10, GFK.

*PSEUDOSINELLA ALBA* Packard. Fish Haven, July 6, from birch leaves. GFK.

*PSEUDOSINELLA VIOLENTA* Folsom. Fish Haven, Oct. 11, from big-toothed maple leaves, GFK, SCM; Stone, Aug. 24, from poplar leaves, GFK, SCM.

*PSEUDOSINELLA SEXOCULATA* Schött. Lava Hot Springs, June 29, from poplar leaves and trash, BAB; Cherry Creek, Nov. 10, from shade tree litter, GFK; Montpelier, July 6, GFK; Fish Haven, July 6, Oct. 11, from wild grass hay and maple leaves, GFK; Blackfoot, Aug. 2, from leaves, GFK, TT, DMC; Stone, Aug. 24, from sage litter and soil, poplar leaves, GFK, SCM; Whitney, May 19, from corral litter, EHK; Franklin, Apr. 7, from thistles, GFK, SCM.

*PSEUDOSINELLA OCTOPUNCTATA* Börner. Blackfoot, Aug. 2, from leaves. GFK, TT, DMC; Stone, Aug. 24, from sage, soil, bedding straw, and poplar leaves. GFK, SCM; St. Charles, June 29, from straw litter, TT, DH; Whitney, May 19, from corral litter, GFK, EHK; Woodruff, Sept. 8, from leaves and soil, GFK, DH; Fish Haven, July 6, from waste hay, GFK; Franklin, Apr. 7, from thistles, GFK, SCM; Georgetown, July 6, from strawberry field litter, GFK.

#### Family ORCHESELLIDAE

*ORCHESELLA CINCTA* Linn. Montpelier, July 6, from grass and moss, GFK; St. Charles, June 29, from grass, TT, DH.

#### Family TOMOCERIDAE

*TOMOCERUS VULGARIS* Tullberg. Franklin, Nov. 26, from garden litter, GFK; Blackfoot, Aug. 2, from leaves. GFK, DMC; Whitney, May 19, from corral litter, GFK, EHK.

*TOMOCERUS FLAVESCENS* var. *americanus* Schött. Cub River Canyon, Aug. 28, from moss, GFK, KG.

#### Family SMINTHURIDAE

*SMINTHURIDES (Sphaeridia) PUMILIS* Krausbauer. Franklin, Nov. 2, from grass, GFK, SCM; Bloomington, July 6, from meadow soil, GFK.

*SMINTHURIDES AQUATICUS* var. *levanderi* Reuter. Cub River Canyon, Aug. 28, from moss. GFK, BKC; Bloomington, July 6, from meadow soil, GFK.

*SMINTHURINUS ELEGANS* Fitch. Franklin, Nov. 21, 26, Apr. 7, from garden litter, thistles, and *Crataegus*, GFK, SCM; St. Charles, Nov. 19, July 6, from slough grass, GFK, SCM, TT, DH; Montpelier, July 6, GFK.

*SMINTHURINUS ELEGANS* var. *ochropus* Reuter. St. Charles, Nov. 19, from slough grass. GFK, SCM; Georgetown, July 6, from strawberry patch, GFK; Montpelier, July 6, from grass and moss, GFK; St. Charles, June 29, from straw litter, TT, DH; Twin Falls, Nov. 21, from willow leaves, GFK, SCM.

*SMINTHURINUS NIGER* Lubbock. Aberdeen, Sept. 21, from rotten weeds and moss from canal, JVB, GFK; Twin Falls, Nov. 21, from willow leaves, GFK, SCM.

DEUTEROSMINTHURUS REPANDUS Agren. Fish Haven, July 23, on raspberry, GFK; Deer Lodge, Apr. 7, from rotten wood, GFK, EHK; Cub River Canyon, Aug. 28, from moss, GFK, KG; Montpelier, July 6, from grass and moss, GFK.

SMINTHURUS FITCHI Folsom. Montpelier, July 6, from grass and moss, GFK.

PTENOTHRIX UNICOLOR Harvey. Deer Lodge, Apr. 7, from rotten wood, GFK, EHK.

In this paper are listed 57 forms and 26 genera that occur in Idaho. Doubtless many more will come to light as collecting continues.