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Additions to the list of the Collembola of Utah

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ADDITIONS TO THE LIST OF THE COLLEMBOLA OF UTAH

D. L. Wray(1), and G. F. Knowlton (2)

Since a preliminary list of the Collembola of Utah was published in 1950 (Bull. Brooklyn Ent. Soc. vol. XLV, No. 2, pp. 60-64) study has continued on this group, and hundreds of field samples have been collected from various habitats. The following additions to the list are herewith noted among them some new species which have already been described and some to be described at a later date. Specimens were collected in the field by G. F. Knowlton and his associates. The identification and systematic arrangement was made by D. L. Wray. This report covers the years from 1949 through 1952.

Order COLLEMBOLA Lubbock

Family Poduridae


ACHORUTES UTAHENSIS WRAY. Ogden, Utah (type locality). Taken on grass March 13, 1949 by G. F. Knowlton and S. C. Ma.

ACHORUTES VIATICUS TULLBERG. Edge of Farmington Bay Refuge, May 12, 1952, GFK.

XENYLLA WELCHI FOLSOM. Naples, April 19, 1951, under poplar, GFK. and EHK.

WILLEMIA VASHTIA WRAY. Logan Canyon, Nov. 19, 1951, from Douglas fir litter, GFK. and SCM; Oct. 31, 1949, from birch leaves; Lakota, Nov. 19, 1949, from willow leaves.

PROSPINANURA KARDOSIA WRAY. S. Glendale, April 19, 1951, taken from squaw bush leaves and soil, GFK. and EHK.

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**FRSEA GRANDIS MILLS.** Moab, July 12, 1951, from moss and soil, GFK. and TT.

**PSEUDACHORUTES SUBCASSOIDEIS MILLS.** Logan Canyon, Nov. 19, 1949, from Douglas fir litter, GFK. and SCM.

**PARANURA SEXPUNCTATA VAR. COLORATA MILLS.** Mt. Timpanogos, June 23, 1951, from rotted wood and in fir needles and soil, GFK. and TT.

**ONYCHIURUS MAI WRAY.** Logan Canyon, Nov. 19, 1949, from alpine fir, GFK. and SCM.

**ONYCHIURUS MAGNINUS WRAY.** Logan Canyon, Oct. 31, 1949, from birch leaves, GFK. and SCM.

**ONYCHIURUS RAMOSUS FOLSOM.** Mt. Timpanogos, June 23, 1951, in rotted wood, GFK. and TT.

**TULLBERGIA IOWENSIIS MILLS.** Logan Cave, in pack rat nest, Nov. 17, 1951, GFK. and B. K. Collmar; Henderson Creek, Sept. 8, 1951, in straw and leaves, GFK. and L.D. Haws; Garland, July 1, 1952, in wood litter, N.R. Jackson; Edge of Farmington Bay Refuge, May 12, 1952, from a grassy place, GFK.

**TULLBERGIA CLAVATA MILLS.** Naples, April 19, 1950, on poplar, GFK. and EHK.

**TULLBERGIA KNOWLTONI WRAY.** River Heights, July 18, 1951, from iris and soil, GFK. Logan, Oct. 31, 1949, GFK. and SCM.

**Family Isotomidae**

**ISOTOMIDES TENUIS FOLSOM.** Logan, Dec. 6, 1949, in honeysuckle leaves, GFK. and SCM.

**FOLSOMIA NIVALIS PACKARD.** Northern Utah, in potato field litter, April 11, 1952, GFK. and J. V. Bruce.

**FOLSOMIA ONYCHIURINA DENIS.** Delta, Sept. 27, 1949, from salt grass, GFK. and SCM. (four specimens).

**PROISOTOMA SCHOTTI DALLA TORRE.** Murray, Oct. 31, 1951, in celery field trimmings, GFK.; Northwest of Geneva Steel Plant, Utah, Sept. 1, 1949, GFK. and SCM.

**AGRENIA BIDENTICUWT4 TULLBERG.** Logan Canyon, in moss and birch leaves, May 24, 1952, GFK. and W.H. Wilde, also on May 26, same place; Logan Cave, Logan Canyon, in moss, May 24, 1952, GFK. and G.P. Taylor; American Fork Canyon, July 25, 1951, in moss, GFK. and TT.

**Family Entomobryidae**

**SINELLA HOFTI SCHAFFER.** Logan, Feb. 10, 1951, from greenhouse soil on bench, GFK. and EHK.

**SINELLA SP.** Logan, Feb. 10, 1951, from greenhouse soil on bench, GFK. and EHK.

**ENTOMOBRYA GRISO-OtIVATA PACKARD.** Logan, Dec. 3, 1951, from beauty bush and honeysuckle litter, GFK.
DREPANURA KANABA Wray. Kanab, Utah (type locality), June 15, 1952, taken on tile floor of an auto camp bathroom; also at Kanab, June 16, 1952 on sidewalk; also under plank “graying the ground and underside of the plank, present by the thousands, in early morning,” GFK., June 15, 1952; (note: this same species was found at Fredonia, Arizona, June 15, 1952, under planks at sawmill by the hundreds, by G. F. Knowlton); the same species found at St. George, June 14, 1952, on floor of a new ice cream store, GFK., Wildcat Canyon, June 12, 1952, beneath rock, GFK.

LEPIDOCYRTUS CYANEUS VAR. CINEREUS FOLSOM. Moab, July 12, 1951, from moss and soil, GFK. and TT.


PSEUDOSINELLA CANDIDA FOLSOM. Moab, July 12, 1951, willow area near creek, GFK. and L. D. Haws; Horse Creek, Wilson Mesa, Grand County, June 9, 1952, beneath rocks, GFK.; Wildcat Canyon, June 12, 1952, beneath rocks, GFK.

PSEUDOSINELLA ROLFSI MILLS. North Mesa, Grand County, June 9, 1952, under rocks, oak brush area and sage, GFK. Colton, July 14, 1952, under rocks, GFK. and G. E. Bohart, Horse Creek, Wilson Mesa, Grand County, June 9, 1952, beneath rocks, GFK.

Family OrcheSELLIDAE

This family is characterized by having 6-segmented antennae, 8 eyes on each side of head, fourth abdominal segment either sub-equal to or not over twice longer than third, and scales absent.

OrcheSELLA CINCTA LINN. VAR. Logan Canyon, from grass and soil, July 17, 1951, L. D. Haws; Horse Creek, Wilson Mesa, Grand County, June 9, 1952, beneath rocks, GFK.

OrcheSELLA sp. Kanab, June 16, 1952, from peatty soil, GFK.; Mt. Timpanogos, June 23, 1952, from soil and litter under aspen, GFK. and TT.

Family TomocERIDAE


TOMOCERUS FLAVESCENS VAR. SEPARATUS FOLSOM. Big Cottonwood Canyon, June 22, 1951, from big-toothed maple leaves and soil, GFK. and TT.

TOMOCERUS FLAVESCENS VAR. AMERICANUS SCHOTT. Moab, July 12, 1951, willow area near creek, GFK. and L. D. Haws.
Family Sminthuridae

Sminthurides malmgreni var. elegantulus Reuter. Moab, July 12, 1951, from moss and soil, GFK. and TT.

Sminthurides aquaticus var. levanderi Reuter. Edge of Farmington Bay Refuge, May 12, 1952, grassy place, GFK.; Mt. Timpanogos, June 23, 1952, in moss, GFK. and TT.

Arrhopalites caecus Tullberg. Silver City, June 20, 1949, on Sysimbrium, GFK. and SCM.; Wildcat Canyon, June 12, 1952, beneath rocks, GFK.

Arrhopalites binoculatus Borner. Big Cottonwood Canyon, June 22, 1951, in big-toothed maple leaves and soil, GFK. and TT.


Sminthurinus elegans var. ochropus Reuter. Henderson Creek, Sept. 8, 1951, in straw and leaves, GFK.

Deuterosminthurus neorepandus Wray. Wellsville, May 17, 1949, on dandelion, V. Allen and SCM.

In this paper are recorded an additional 40 forms to the collemboalous fauna of Utah making a total of 92 which have been reported in this study. There are some new forms which have been found in these samples and which will be described in a later paper.