

species. Mr. Fall kindly suggested that I publish this note.

Acknowledgements: I wish to express my appreciation to Mr. E. P. Van Duzee and Dr. E. C. Van Dyke for allowing me to study material in the Van Dyke collection at the Californian Academy of Sciences; to Dr. J. McDunnough for the use of specimens from the Canadian National Collection; to Mr. J. B. Wallis of Winnipeg, Man., for the loan of considerable material; to Messrs. R. Hopping and H. C. Fall for loaning specimens from their collections; and to Mr. E. S. Ross for drawing one of the figures.

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SOME APHIDS OF THE GENUS CAPITOPHORUS¹.BY G. F. KNOWLTON AND C. F. SMITH,²

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The following report deals with the description of one apparently undescribed species from *Artemisia*, and distributional notes on several additional aphid species belonging to the genus *Capitophorus*.

Capitophorus rusticatus n. sp.

Apterous vivipara.—Size 1 to 1.55 mm. long; hairs on vertex 0.034 to 0.049 mm. long and fan-shaped; body hairs 0.017 to 0.034; antennae slightly longer than the body, 1.33 to 1.83 mm. long and dark beyond middle of III; antennal III, 0.28 to 0.4 mm. long and bearing 1 or 2 sensoria; IV, 0.22 to 0.33; V, 0.22 to 0.28; VI, 0.09 to 0.11 + 0.4 to 0.56; rostrum acute, needle-like at tip, attaining third

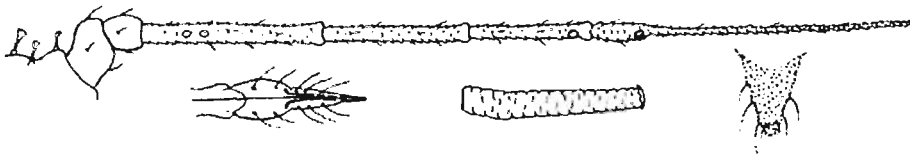


Fig. 1.—*Capitophorus rusticatus* n. sp. Apterous.

coxae; rostral IV plus V, 0.14 to 0.157; legs dusky to dark; hind tibiae 0.77 to 0.94; hind tarsi 0.12 to 0.15; cornicles dusky to dark and 0.29 to 0.42; cauda dusky, 0.14 to 0.17 mm. total length, hard portion 0.12 to 0.15 mm. long and bearing 2 to 3 pairs of lateral hairs and 1 dorsal hair.

¹Contribution from the Department of Entomology, Utah Agricultural Experiment Station.
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Taxonomy.—In Knowlton and Smith's key (Canadian Entomologist 68: 230) this species runs to *Capitophorus quadritrichus* K.-S., from which it differs in having shorter and more nearly fan-shaped hairs on the vertex; cornicles longer than antennal IV or V; shorter cauda, median hard portion being subequal to one half length of cornicles; shorter antennae and more nearly cylindrical cornicles. It differs from *C. pullus* G.-P. in having antennae equal to or longer than the body; hairs on vertex being shorter and more nearly fan-shaped; unguis being 5 times base; body smaller; shorter cauda and rostral IV plus V.

Collections.—On *Artemisia tridentata* at Yellowstone National Park, Wyoming (type locality), July 17, 1936; Rexburg, Idaho, July 14, 1936; Bozeman and Gallatin Valley, Montana, July 16, 1936; Livingston and Fort Ellis, Montana, July 17, 1936 (Knowlton).

Types.—Type slide in the U.S. National Museum; paratypes in the collections of the writers.

Capitophorus braggi (Gill.). Bozeman, September 21, and a male, Gallatin County, October 2, 1932, in Montana (H. Gunderson).

C. elongatus Knlt. Collected upon *Chrysothamnus* in Utah at Beaver, Cove Fort, Hatch, Orton, Scipio, Tropic, and Wild Cat Canyon, north of Beaver, during August of 1936 (Knowlton-Smith).

C. feragaesus K.-S. On *Chrysothamnus* sp. and *C. nauscosus* at Clyde's Peak and Yankee Jim Canyon, Montana, June 11 and 12, 1936 (Smith).

C. fragaefolii (Ckll.). Infesting rose, Bozeman, Montana, July 16, 1936 (Knowlton).

C. glandulosus (Kalt.). On *Artemisia*, usual species *tridentata*, at Mink Creek, Riverdale and Victor, Idaho, July and August, 1936 (Smith); Castleford, Idaho, September 1932 (D. E. Fox); Cove Fort and Sardine Canyon, Utah, August and June of 1936 (Knowlton-Smith); Fort Ellis, Montana, July 17, 1936 (Knowlton); Moran, Wyoming, July 19, 1936 (Knowlton).

C. gregarius Knlt. Infesting *Chrysothamnus nauscosus* in Utah at Green River and Colorado River Gorge, above Moab, July 25, 1935 (Knowlton); Mercur, April 29, 1936 (Knowlton-Smith-M. W. Allen); Mills, August 6, 1936 (Knowlton-Smith); Cottonwood Canyon, August 21, 1925 (Knowlton).

C. magnautensus K.-S. On *Chrysothamnus viscidiflorus*, at Duchesne and Randlett, Utah, July 14, 1927 (Knowlton); Tropic, Orangeville and Huntington, July to September, 1935 (Knowlton). These paratype records were inadvertently omitted from the original description (Canad. Ent. 68: 110).

C. minor (Forbes). On strawberry foliage at Puyallup, Washington, May 15, 1935 (A. J. Hanson); Provo Bench, Utah, July 1934 (Knowlton).

C. oestlundii Knlt. Collected upon *Chrysothamnus nauscosus*, *parryi*, and sp. at American Fork, Bear River City, Clover, Cove Fort, Enoch, Granite, Green River, Heber, Hobbie Creek, Levan, Parowan, Stockton, and Wellsville, in Utah during 1936 (Knowlton-Smith); Montpelier, Idaho, July 19, 1936 (Knowlton); Jackson's Hole, Wyoming, June 10 (Smith) and July 19 (Knowlton) 1936; at Crown Springs, Montana, July 17, 1936 (Knowlton), and Three Forks and Yankee Jim Canyon, June 1936 (Smith).

C. potentillae (Walker). On rose at Amalga in May, and at Hooper in June, 1935 (Knowlton-Smith), in Utah; at Overton, Nevada, June 1935 (Knowlton);

and Bozeman, Montana, July 16, 1936 (Knowlton). Collected on strawberry at Puyallup, Washington, May 15, 1935 (A. J. Hanson).

C. pycnorhysus K.-S. Collected upon *Chrysothamnus viscidiflorus* at Wild Cat Canyon, north of Beaver, August 8, 1936 (Knowlton-Smith), and Wellsville, June 26, 1936 in Utah; Riverdale and Preston, Idaho, June 1936 (Smith); and Immigration Canyon in August 1927; and Logan, Montana, June 10, 1936 (Smith).

C. quadririchus K.-S. Infesting *Artemisia tridentata* at Cove Fort, Garland, Kanab, Spring City, and Tropic, in Utah during August 1936 (Knowlton-Smith).

C. ribis (L.). On red currant leaves, Kanab, Utah, August 10, 1936 (Knowlton); Bozeman, June 21, 1932 (H. Gunderson) and Billings, Montana.

C. utahensis P.-K. On *Chrysothamnus viscidiflorus* in Dixie National Forest, August 10, and Wild Cat Canyon, August 8, 1936 (Knowlton-Smith); Nioche, June 28, 1927 (Knowlton), in Utah.

C. xanthii (Oest.). Infesting *Xanthium canadensis* at Moab, July 29, 1932, and Santa Clara in Utah (Knowlton); Twin Falls, Idaho (D. F. Fox); Overton, Nevada, June 1935 (Knowlton).

C. zionmontanus K.-S. Sometimes abundant upon *Artemisia tridentata* and *A. filifoliae*; collected at Levan, Utah, August 7, 1936 (Knowlton-Smith); Geneva and Montpelier, Idaho, July 19, 1936 (Knowlton); and at Jackson, Moran, Smoot, and at several points in Yellowstone National Park, July 17 to 19, 1936 (Knowlton).

UNDESCRIBED SPECIES AND VARIETIES OF LEPIDOPTERA.*

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ARCTIIDAE

Apantesis gibsoni n. sp.

It has long been known that the species figured by A. Gibson under the name *incorrupta* Hy. Edw. in his excellent paper on Canadian *Apantesis* species (1903, Can. Ent. XXXV, p. 145, Pl.) is not the true *incorrupta*, which is a synonym of *geneura* Stkr. (1916, B. & McD. Contrib. III (3), 158). As there is apparently no name available for our Canadian prairie species I propose the above one in honor of one of the pioneer workers in this group in Canada. The *holotype* ♂, No. 4209 in the Canadian National Collection (Calgary, Alta. Aug. 7, 1902, T. N. Willing) is the middle specimen figured under the name *incorrupta* on the above mentioned plate; the *alloytype* ♀ (Areola, Sask. Aug. 20, 1901) is the lowest specimen of the three. In view of the excellent figures and the description given on page 145 of the article a further description is unnecessary. As *Paratypes* I have included a series of 20 males from Aweme, Man. collected on various dates in August by N. Criddle over a long period of years; also 1 ♀ from Rounthwaite, Man., July 30, 1905 (L. E. Marimont) bred from a larva feeding on *Castilleja scssiliflora*; further 3 ♂, Calgary, Alta., Aug. 6, 1902 (Wolley-Dod) and 2 ♀, same locality and collector, July 30, 1893, and July 7, 1894. The

*Contribution from the Division of Systematic Entomology, Entomological Branch, Department of Agriculture, Ottawa.