

APHID FIELD NOTES.

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Pemphigus Aphid Notes.—Some of the identifications listed below were made by my friends, Professor M. A. Palmer and A. C. Maxson.

Pemphigus balsamiferae Wms. on *Populus angustifolia*, Brigham Canyon, Utah, June 20, 1930; on *P. balsamifera* at Nephi, Utah, October 1942; in stomach of the small lizard, *Uta stansburiana stansburiana* (B.-G.), near Oak City, Utah, September 28, 1941; in *Populus* galls, Farmington, July 1940; Logan Canyon, July 11, 1937 (Knowlton-W. P. Nye).

P. betae Doane, on roots of *Rumex acetosella*, Forest Grove, Oregon (among wheat stubble), October 9, 1919 (A. C. Burrill); on *Populus* trunk, Pullman, Wash., Sept. 26, 1918 (Burrill); accidental in spiderweb on raspberry leaf, Lakeview, Utah, June 5, 1930; Berger and Burley, Idaho (D. E. Fox); *Chenopodium album* roots, Roosevelt, Utah, September 4, 1945.

P. bursarius (L.), on roots of head-lettuce, 35 miles South of Bozeman, Montana, September 10, 1940 (Mills and Cowan; Det. M. A. Palmer).

P. populi-caulis Fitch in galls on *Populus sargentii*, Grafton, Utah, June 18, 1935; Granite, Utah, on *Populus*, June 15, 1937; causing poplar leaves infested with galls, to fall prematurely at Bountiful, Centerville, Clinton, and Trenton, Utah, during August of 1940. *P. sargentii* damaged by this species and more severely by *Mordvilkoja vagabunda* (Walsh) at Richfield, Utah, July 25, 1941 (W. E. Peay-H. C. Bennion); Basin, Wyoming, September 12, 1941.

P. populi-ramulorum Riley in twig galls on *Populus sargentii* at Clinton, Utah, July 15, 1937 (Knowlton-C. F. Smith); Trenton, Utah, July 1, 1940; Basin, Wyoming, September 12, 1941, typical galls.

P. populi-transversus Riley in petiole galls on *Populus sargentii* and *P. deltoides*, causing affected leaves to fall prematurely, at Bountiful and Trenton, Utah, August 17, 1941; Grand Haven, Michigan, August 14, 1936 (H. G. Strom).

P. populi-verae Fitch in pocketlike leaf galls on *Populus angustifolia* at Mt. Emmons, Utah, August 17, 1937; Brigham City and Boxelder Canyon, Utah, June 22, 1932.

Pemphigus sp. on root of *Poinsettia*, Ardmore, Okla., December 8, 1937 (G. A. Bieberdorf).

Aphid Observations.—Several colonies of *Clavigerus smithiae* (Monell) were examined on willow, near Riverdale, Utah, on October 3, 1942. A two-spotted ladybird beetle, *Adalia bipunctata* (L.), was observed to be feeding on an immature specimen. Several *Anthocoris musculus* (Say) and three additional species of ladybird beetles also were present among the twig-infesting aphids.

An apterous *Capitophorus palmerae* Knlt. on *Chrysothamnus* at Truckee, California, June 23, 1944, was observed to be attacked by a *Nabis ferus* (L.). This aphid was moderately abundant on rabbitbrush.

Pea aphids, *Macrosiphum pisi* (Kalt.), were moderately abundant on sweet-clover in a shady orchard at Lehi, Utah, September 14, 1943. Examination of several plants revealed a *Nabis alternatus* Parsh. feeding on a mature apterous *pisi*.

A wingless *Pseudoepeiribaphis essigi* K.-S. on *Artemisia tridentata* at Wadsworth, Nevada, July 23, 1944, was being fed on by an *Orius tristicolor* (White).

At Bend, Oregon, on August 24, 1944, the writer observed an *Orius tristicolor* on *Artemisia tridentata* to be feeding on a tiny *Flabellomicrosiphum tridentatae* (Wilson). This tiny predator was very abundant on nearby, blossoming *Chrysothamnus viscidiflorus*, the flowers of which were teeming with western flower thrips.

***Neorhynchocephalus volaticus* (Williston) in Lower California (Diptera, Nemestrinidae).**—I have recently received from the California Academy of Sciences (through Dr. E. S. Ross) specimens of *N. volaticus* collected by E. S. Ross and G. E. Bohart, in October, 1941, at the following localities in Lower California: 10 miles northwest of La Paz; San Venancio; Canipole; and Las Animas, Sierra Laguna. These localities extend the range of the species somewhat farther west. Compare the records I published in 1930 (*Psyche*, XXXVII, pp. 290–291) and 1934 (*Jour. New York Ent. Soc.*, XLII, pp. 166–167). I have seen since a specimen from Valerio Trujano, State of Oaxaca, Mexico, at 4,500 ft. (collected by M. Embury). The Lower California specimens differ in no way from those I have seen from elsewhere. It is strange that the species has not yet been taken in California proper, so far as I know.—J. BEQUAERT, Museum of Comparative Zoölogy, Cambridge, Mass.



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