

threads that are used by them with which to cover their eggs. Males, so far as known, apterous and very small.

When the alate form of *ballii* was described, the writer had but a single example in balsam, which did not show the first cross-vein of the hind wing and it was so described and figured, and is probably one of the reasons why Mr. Baker includes this species in *Saltusaphis*. Many alate examples of closely allied species have since been taken which plainly show the first cross-vein, even after being put in balsam, so I do not think the presence or absence of this vein should be given generic importance in the group to which *ballii* belongs.

While *Callipterus flabellus* Sanb. does not have the bifid pre-caudal tergite that is so strong a character in the type of the genus *Saltusaphis*, I believe Mr. Baker is right in placing it with that genus, for it qualifies in all other important respects and does have a large eighth tergite bearing tuberculate hairs as in *scirpus* Theobald.

***Thripsaphis ballii* Gill.**

This species is separated rather easily separated from, at least, three other Colorado forms that are congeneric with it, by the short antenna, which, in the alate form, has about 7 small circular sensoria on the third joint, and in the apterous form none, the absence of the first transverse vein in the hind wing of the alate louse, the moderately produced vertex, the short and broadly rounded eighth tergite and the stout femora of the apterous viviparous form. See Plate XI, figures 5, 6, 7.

***Thripsaphis verrucosa*, n. sp.**

In the original description of *ballii* the writer mistook for it the egg-layer of what now proves to be a distinct but closely allied form. See Canadian Entomologist, vol. XL, p. 67 (apterous viviparous female), and plate III, figures 12 and 14. This form must be segregated from *ballii*, and for it I suggest the specific name *verrucosa*, because of the prominent projection on the vertex. See also Plate XI, figure 4, accompanying this paper. The other forms for the year have not been thoroughly worked out, so are held for later descriptions.