

terminal line. Beneath powdery dull gray, primaries with a vague discal blotch, secondaries with a lunule and an exterior line.

Expands 1.25-1.60 inches = 30 to 40 mm. .

*Habitat*: Winnipeg, Manitoba, June and July (Hanham); Pullman, Washington (Piper).

A good series of specimens shows little variation save in the shade of the ground colour. In genital structure the insect resembles *desperata*; but in general appearance it is much more like *indirecta*, *mactata* or *divesta*.

*Hadena (Xylophasia) Barnesii*, n. sp.

In general appearance resembling *auranticolor*, and heretofore confused with that species. It is smaller, however, in average expanse, much paler and less red in ground colour, and altogether a more sordid, less brilliant species. The violet shading in the s. t. space of the old species is replaced by gray or whitish in the new form, and the secondaries are of a dull, even smoky gray, without a trace of yellow or red in the ground or whitish at the base. All the markings are present on the primaries, less strigate and better defined than in *auranticolor*; but without preceding dashes to the W, or interspaceal streaks in the terminal space.

Expands 1.50-1.68 inches = 37-42 mm.

*Habitat*: South Dakota (Truman); Glenwood Springs, Colorado, in September; Yellowstone Park, Wyoming (Dr. Barnes).

A series of seven specimens has been compared with a similar number of *auranticolor* before the species was decided to be distinct. There is no difficulty in separating the two forms, but it is not so easy to localize the differences. The much duller primaries and the very evenly dark secondaries are the most obvious features.

The sexual parts of the male are disproportionately small, but of the same general type as in *auranticolor*.

*Hadena (Xylophasia) dionea*, n. sp.

Ground colour an even, obscure fuscous gray without contrasts. Head with a dusky frontal line, collar with a blackish central line, patagiae with a black submargin. Abdomen mouse gray. Primaries with all the maculation present, but obscure. A short black basal streak. Basal line geminate, smoky, marked on the costa only. T. a. line geminate, smoky, incomplete, outwardly curved, and with small out-curves in the interspaces, marked by an oblique black streak on the