

DESCRIPTIONS OF TWO NEW GEOMETRID MOTHS FROM ALBERTA.

BY GEO. W. TAYLOR, WELLINGTON, B. C.

Xanthorhoe circumvallaria, n. sp. — Expanse, 35 mm.

Palpi and front dark gray, with a plentiful intermixture of brown scales. Thorax dark fuscous. Abdomen above dark gray, beneath lighter gray.

Fore wing: ground colour gray, but almost entirely obscured by blackish-brown scales.

The basal area is darkened by about four parallel wavy fuscous lines; the space between the basal and intradiscal lines is paler and crossed by two dark lines parallel with the basal. Median space uniform blackish-brown, slightly lighter around the large jet-black discal spot; in worn specimens can be seen traces of two darker cross lines, one intra- and one extra discal, within this area; the extra-discal line is black, very irregular, the most prominent outward projection being between veins 3 and 4, this line is followed by a clear white line, then a brownish parallel line, then a gray space (ground colour of the wing), twice as broad as the brown line, next a dark band of the same colour as the median space, extending to the margin and divided into two parts, the outer a little paler than the inner, by a conspicuous white zigzag submarginal line, a marginal row of geminate black dots; fringe checkered gray and brown.

Hind wing: clear white, with a distinct black discal point, and extra-discal black line and a submarginal black band about 2 mm. in width; marginal dots as on fore wing; fringe white, cut with black at the ends of the veins.

Beneath the whole fore wing to the extra-discal line is smoky-black; extra-discal line darker, and the extra basal space is also marked by a darker shade, especially towards the costa; a small dark spot on costa, opposite the discal spot; beyond the extra-discal line is a white band; the rest of the wing is black to the submarginal white zigzag line, which is marked from the costa to vein 3; beyond this line the apical portion of the wing is gray; discal spots on all wings enlarged.

Hind wing marked as on upper side, but the basal area is lightly peppered with dark scales.

Types, two males and two females in my cabinet.

Collected by Mr. F. H. Wolley Dod, near Billings's lumber mills, Millarville, Alberta, on 26, vi, 1898, and 24, vii, 1904.

A fifth specimen from the same source I have sent to the United States National Museum, and others (co-types) are in Mr. Wolley Dod's collection.

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