

## PRELIMINARY LIST OF THE MACRO-LEPIDOPTERA OF ALBERTA, N.-W. T.

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(Continued from Vol. XXXVI., p. 355.)

150. *Hadena (Xylophasia) remissa*, Hbn.—Nine ♂♂ at light in 1903, and a few of both sexes at light and treacle during 1904. Not previously met with. July 15th to Aug. 2nd. Prof. Smith says they are "somewhat paler in ground colour than New England examples." In a general way the species resembles a pale *ferens*, with which species Mr. Hudson and I at first confused it whilst collecting.

151. *H. (X.) suffusca*, Morr.—Fairly common at treacle. End June and July.

152. *H. (X.) rorulenta*, Smith.—(Psyche, June, 1904, p. 55). Described partly from Calgary material. Allied to and contemporaneous with *suffusca*, but less common. I had the forms standing in two series in my collection for some years, and there always seemed to be a sharp contrast between them, nothing intermediate ever turning up. Prof. Smith does not state whether he compared the type of *suffusca* when naming this species, but says: "I have separated out as *suffusca* those examples in which the ground colour is of an even lilac-gray, the reddish suffusion is uniform, and neither the ordinary spots nor the terminal space contrast strongly. In the new species either the reniform or terminal space, or both, contrast strongly, and are violet or lilac gray. The s. t. line is more sharply defined, the preceding marks blackish and more contrasting, as well as more numerous. The lower half of the wing tends to a gray, which is best marked on the inner margin. The upper half of the wing is reddish, pulverulent, and is darkest on the costa." I would add that the ground colour of the newly-named form is of a reddish ochreous, much like the pale ground of *vultuosa*, and that the reddish shading in upper half of wing contrasts strongly, and is much more conspicuous than it is against the dark lilac-gray ground of *suffusca*. Prof. Smith has specimens also from Winnipeg, Denver, Colo., and New York State, so the two species, if such they really are, would seem to have much the same range, and are probably mixed in many collections. The type is at Rutgers College, and a perfect pair of co-types are in my own collection.

153. *H. (X.) vultuosa*, Grt.—Rather rare. End June and July.

154. *H. (X.) contradicta*, Smith.—Generally very rare. Described