

aberrations, including two European, one Asiatic, and three North American; viz:

*"americana*.—Fore wing rather more orange-red. Eastern States and Canada.

*interoceanica*.—Fore wing browner. Western Canada.

*pacifica*.—Fore wing grayer, California." This latter is not in accord with Smith's diagnosis.

367. *H. pallescens* Smith.—The male and female types in the Washington Museum are from Calgary. They differ from *medialis* from Colorado in lacking the reddish tints, and in having the entire ground colour washed with white. Some Calgary specimens are a good deal darker than the type, but scarcely reddish. The form was not even recognised as a variety in Dyar's catalogue, though the difference in colour is somewhat striking. Hampson treats them as species. I think it likely that the differences are merely varietal, but have not seen enough Colorado material to enable me to form a fair judgment, and have none from there in my collection. Mr. Baird has taken *pallescens* at High River, and I have it from Cranbrook, B.C.

368. *Papaipema* sp.? The type of *impecuniosa* is a male from Massachusetts, and is in the British Museum. Sir George Hampson figures a specimen like it. There are two Red Deer River specimens from me in the same series. But, like the rest I have seen from that locality, they differ from *impecuniosa* in the form and course of the central shade, which is more like that in *purpurifascia*, *rigida* and *verona*, the latter being a much paler thing from Winnipeg. The form of the t.p. line is something between that in *impecuniosa* and *purpurifascia*. The colour and maculation otherwise is much like that of *impecuniosa*, but the orbicular and claviform may be either yellow or white. Unfortunately I have only three specimens now left in my collection, not having visited the locality for some years.

(To be continued.)

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