

GEOMETRID NOTES—HYDRIOMENA.

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The recent issue of Barnes and McDunnough's "Contributions to the Natural History of the Lepidoptera of North America," vol. IV, No. 1, contains an excellent "Revision of the Genus Hydriomena". It is a vast improvement on any former revision, as it is illustrated by excellent plates including figures of the genitalia. The work gives evidence of great pains and careful study and is based on large series of specimens, which unfortunately were lacking to the present writer in his original work on this genus. I would suggest that in order to supplement the revision the future student might work out the egg and pupal structure including the cremaster thorn and the life-histories, which would render it practically complete. In my early paper (Can. Ent., vol. 43, March, 1911) I attempted to straighten out the group on the basis of the palpal structure. I had little material and most of this was loaned, so that I could not study the genitalia, as stated in my article. From the date of my publication until two years ago I had received few additions in this group, and so had no chance to work out the life-histories. Barnes and McDunnough's paper with the figures of the specimens and the genitalia, is quite an advance over my early attempts. During the past year or two I had been in correspondence with Dr. McDunnough on the species of Hydriomena and their genitalia, with the result that except in one or two points we were practically of the same opinions. I have, therefore, very little to add to this valuable work except a few notes on the species. I believe that this classification, based on the genitalia and palpi, is on a sound basis and will be little changed.

Dr. McDunnough's separation of *H. furcata* Thunberg and *quinquefasciata* Packard is a painstaking piece of work. I could not separate these in my early paper as the material was all loaned, and it was only recently after I had made slides of the genitalia that I realized the differences between them.

In regard to *H. albifasciata* Pack. Dr. McDunnough is quite correct. I had only the female to judge by, and it was impossible to place the species correctly without the male. *Resecta* seems also to be a suffused, ruddy form of *albifasciata*, but it may later

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