

The Canadian Entomologist.

VOL. XXVII.

LONDON, SEPTEMBER, 1895.

No. 9.

NOTES ON COLLECTING BUTTERFLIES IN WESTERN COLORADO, WITH A PARTICULAR ACCOUNT OF CERTAIN PAPILIOS.

BY WM. H. EDWARDS, COALBURGH, WEST VA.

In Vol. XXV., p. 253, I gave some account of the dimorphism of *P. Bairdii*, mainly from the observations and experiments of Mr. David Bruce. From what he had seen at Glenwood Springs, Colorado, he had satisfied himself that not only *Bairdii* and *Oregonia* were one species, but that *P. Hollandii*, Edw., formed part of the same. Though the two first named differ in facies more decidedly than do *Turnus* and *Rutulus*, and *Rutulus* and either *Eurymedon* or *Daunus*. *Hollandii* looks on the upper side like *Bairdii*, but beneath, while in general like *Bairdii*, the yellow spots are larger, making the surface much gayer. But the notable difference is in the markings of the body; *Hollandii* having the yellow, black-striped body of *Oregonia* (as well as *Zolicaon* and *Machaon*), while *Bairdii* has the solid black body of *Asterias*, with similar rows of yellow dots. *Hollandii* therefore has the body of *Oregonia*, with the wings of *Bairdii*, the latter somewhat modified.

In 1892, Mr. Bruce obtained eggs by confining a *Bairdii* ♀ over the food plant, and out of two pupæ which alone survived a catastrophe at his home (Brockport, N. Y.) came a *Bairdii* imago the next spring in his hands, and a female *Oregonia* with me. Mrs. Peart had received a few of the larvæ out of that lot of eggs, and from these came one *Bairdii* and one *Oregonia*. I related these facts in the paper spoken of, and then said that two of the pupæ which Mrs. Peart had were still alive, and would give butterflies the second year, or in 1894. It turned out that one *Bairdii* ♀ did come from one of these pupæ, April 25th, 1894, but the other pupa had died.

In 1893, at the same place, Mr. Bruce sent me two eggs obtained from an *Oregonia* ♀ in confinement, from one of which resulted a *Bairdii* ♂ the same season, the other larva dying. And about two weeks later he sent me another lot of *Oregonia* eggs, from which I got four *Bairdii*: 2 ♂, 2 ♀, the same season, no pupæ hibernating.