

have been reared on carrot, fennel and parsnip. The eggs spoken of hatched before Mr. Bruce left Colorado in September, and he brought the larvæ to his home at Brockport, N. Y., and enclosed them over a bed of growing carrots in his garden, under a wire gauze screen or box. In this way he got upwards of forty pupæ, but discovered soon that almost all had been stung by *Asterias* parasites. Out of the lot there were but three healthy pupæ, two of which produced *Bairdii* in the spring of 1893, and one a ♀ *Oregonia*, which Mr. Bruce sent me. But a few of the larvæ when half grown had been sent to Mrs. Peart, near Philadelphia, and from these she got four pupæ. These yielded in spring of 1893 one *Bairdii* and one very large and well-marked ♀ *Oregonia*, which also I now have. The other two pupæ are going over to 1894, as is often the case with the western *Papilios*, they running in the pupa stage for two years.

In 1893 Mr. Bruce was again upon the ground, and devoted his time largely to getting at the facts in this case. On the 23rd July he sent me two eggs of the *Oregonia*, as before, laid by a confined female. I sent one to Mrs. Peart, and she reared the larva and got a pupa 23rd August. Out of this, 8th September, came a ♂ *Bairdii*. The other egg produced a larva which died soon after third moult.

On 7th August, Mr. Bruce sent me twenty-four eggs of the *Oregonia*, obtained as before. The larvæ from these died off rapidly, and at all stages: seemed not to like their food. I treated them exactly as I have heretofore treated larvæ of *Papilio*, but I obtained only five pupæ. Some of the larvæ were certainly killed by the others, their bodies sucked dry, and this indicated, I think, a dislike to the food given. From the five pupæ up to date (21st September) have emerged four *Bairdii* imagos, 2 ♂, 2 ♀.

Thus imagos of *Bairdii* have come from eggs laid by the *Oregonia*, and in two instances *Oregonias* have come from eggs laid by *Bairdii*. As to *Hollandii* none of the *Bairdii* so far obtained are of that form, and its relationship to *Bairdii* is still but a matter of conjecture.

I am not satisfied that the form we are calling *Oregonia* is identical with the type form found in Oregon and Washington; am inclined to think it is not, and intended to propose the name *Brucei* for it. But, until more examples of the real *Oregonia* can be seen, I can come to no final conclusion.

I must not omit to say that at all stages the larvæ of these two forms are indistinguishable.