

a very common species here. Throughout the year I saw but three or four examples.

In 1884, *V. Cardui* was remarkably abundant, as it seems to have been all over the Northern States. But in 1885 I scarcely saw one.

The Argynnids *Cybele* and *Aphrodite* were conspicuous for their absence in '85; so also *Phyc. Nycteis* and *Tharos*. For several years *P. Ajax* and *Turnus* have been far less common than formerly, though no change has taken place in the abundance of their food-plants. As to *Arg. Diana*, I have seen but two examples in as many years, and the species is practically extinct here.

2. As to Food Plants of *P. Ajax*.

The only plant known to me is the Pawpaw, *Asimina*. At the Philadelphia meeting of the A. A. A. S., 1884, Mr. E. M. Aaron stated that *Ajax* larvæ fed on spice-wood and upland huckleberry; and in a letter to me subsequently, that of his own knowledge, he knew *Ajax* would lay eggs on spice-wood, and that the larvæ fed both on that plant and sassafras.

I tried in vain, in 1885, to make these larvæ eat either spice-wood or sassafras, giving both to the young just out of egg, and before their taste could have been prejudiced against these plants by having eaten pawpaw. The larvæ starved to death, and I could not see that a leaf was even nibbled. I then tried larvæ immediately after successive moults to the last, with same result. So that I am satisfied *Ajax* larvæ in this region will not eat the plants spoken of. For Tennessee, where Mr. Aaron's observations were made, I do not undertake to speak. The only butterfly larvæ which will eat spice-wood and sassafras, so far as I know, are those of *P. Troilus* and *P. Palamedes*, and they are restricted to these and allied plants.

3. *PAP. PALAMEDES*. This species has been taken at Glencoe, Nebraska, as Mr. G. M. Dodge writes me, many degrees farther to the north than has before been observed.

4. *CHIONOBAS BORE*, Schn. and Hübner.

In the paper on "Insects in Arctic Regions," the translation of which is printed in CAN. ENT., xvii., p. 157, the author, Herr Aurivillius, says: "Let us take as an example *Oencis Bore*, Schn., a true hyperborean butterfly, which has never been found outside the Arctic circle, and even there only occurs in places which bear a truly arctic stamp." In the note