

does not appear to be so abundant as the first ; we have no knowledge whatever of its subsequent history ; probably the eggs are laid in August and hatch at once, the caterpillars attaining their growth in the latter part of September and transforming to chrysalids before winter.

C. VIOLACEA [after quoting Mr. Edwards' statement of its seasons in W. Virginia, as given in the *Butterflies of N. America*, the account continues]—In the north, however, it appears and disappears much later, for it makes its advent during the first week in May, both sexes becoming abundant toward the end of the month, and it still remains upon the wing throughout June ; one specimen has been taken in Walpole, N. H. (Smith), as late as the 7th of July. Of its further history we know nothing ; probably the eggs are laid in June and the caterpillar transforms in July, the chrysalids remaining unchanged until spring.

C. LUCIA.—It is a single brooded insect and the first of our butterflies to appear fresh from the chrysalis in spring. The earliest specimens gladden our eyes about the middle of April, although often delayed a week by inclement weather ; the earliest recorded date is that of April 14 (W. Roxbury, Mass.-Faxon). It becomes abundant a week after its advent and continues so throughout the first half of May, when it begins rapidly to decrease and by the end of the month is seldom seen. In elevated and northern localities it is unquestionably later in its appearance and disappearance, since male specimens (rubbed indeed) have been taken in Williamstown, Mass., as late as the middle of June (Scudder), in the White Mts. not uncommonly up to the 17th of the month (Scudder), and occasional specimens even on the 23rd-24th (Sanborn), while in Quebec it is "very abundant at the end of May" (Bowles), and in Southern Labrador was "common from the first of June to the end of July" (Couper). In Alaska, the females taken during the first week in June (Dall) were rubbed, but this may have been due to poor collecting implements. In New England the eggs are laid towards the middle of May ; this state probably continues a week, but how soon the caterpillar becomes full grown is unknown ; it undoubtedly hibernates in the chrysalis state.

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