

viz., 52 for *Speyeria*, 41 to 49 for *Argynnis*, and 33 to 34 for *Brenthis*. This matter I have not investigated.

The palpi and eye are compared, the length of the eye being taken as unity; in *Speyeria* they are stated to be 1.50, in *Argynnis* 2— to 2, and in *Brenthis* 2—. I find *Speyeria* 1.29, *Argynnis* 1.07 to 1.60, and *Brenthis* 1.33 to 2.

The fore tibiae are compared with the hind tibiae, being as .33 + in *Speyeria*, .40 ♂ or .40 + ♀ in *Argynnis*, and .50— ♂ or 50 ♀ in *Brenthis*. I find *Speyeria* .36, *Argynnis* .40 to .45, and *Brenthis* .29 to .44.

The tarsi are said to be scarcely shorter than the tibiae in *Speyeria*, in *Argynnis* .75 +; I find for *Speyeria* .80, and for *Argynnis* .80 to .88.

The middle tibiae are said to be "a little shorter than the hind pair" in *Speyeria* and *Argynnis*, "scarcely shorter" in *Brenthis*. I find for *Speyeria* .89, for *Argynnis* .85 to .96, and for *Brenthis* .81 to .93.

The 1st superior branch of the subcostal nervure is said to arise in *Speyeria* "beyond the middle of the outer half of the upper margin of cell" (*i. e.*, at 25 per cent.—, inside apex); in *Argynnis* "in the middle of the outer two-fifths of the upper border of cell" (*i. e.*, at 20 per cent, inside apex); and in *Brenthis* "shortly before the apex of the cell." For *Speyeria* I find 22.1 and 24.; for *Argynnis* a range of from 13.5 to 23.6, and for *Brenthis* from 2.6 to 17.5. In a single species of *Argynnis*, viz., *atlantis*, I find in 10 specimens taken at random the surprising variation of from 14. to 23.6.

The next character is the only one among all those given for these three genera that I have been able to verify from specimens, and even here the variability is startling.

Mr Scudder gives the second branch of the subcostal as arising in *Argynnis* at "half way between the 1st and the apex of the cell" (*i. e.*, at 50 per cent.) and in *Brenthis* as at a similar distance beyond it (*i. e.*, at 100 per cent. beyond). For *Speyeria* no corresponding character is given. I find in all specimens which I have examined that this 2nd branch is given off in *Argynnis* within the apex, and in *Brenthis* beyond it, but the precise point varies in *Argynnis* from 55.6 to 15.0 per cent. within apex; and in *Brenthis* from 114. to 1500. per cent. beyond it, Mr. Scudder's unit (the distance between the origin of 1st branch and apex of cell) being adopted.

The last characters relate to the length of cell; which the Revision