

instance, and one only, I have seen an *Umbrosa* early in the year, which must have hybernated. The only hybernating female I have been able to breed from was *Fabricii*, from which I got eggs, 28th April, 1877. The result on and just before 4th June was 21 butterflies, all *Umbrosa*, the first brood of the year. Eggs laid by the females of *Umbrosa* of the first brood have repeatedly produced a mixed brood—the 2nd of the year—but with a majority of individuals *Umbrosa*, as :

11 *Umbrosa* to 6 *Fabricii*

26 “ “no “

19 “ “no “

1 “ “ 2 “

14 “ “no “

38 “ “16 “

12 “ “no “

Total, 121 *Umbrosa*, 24 *Fabricii*.

Eggs laid by the females *Umbrosa* of the 2nd brood have produced a mixed brood, the 3rd of the year, with a larger proportion of *Fabricii*, as :

63 *Umbrosa* to 34 *Fabricii*

2 “ “ 9 “

1 “ “ 20 “

1 “ “ 5 “

46 “ “ 6 “

21 “ “no “

Larvae found—65 “ “ 4 “

6 “ “ 16 “

Total, 205 *Umbrosa* to 94 *Fabricii*.

So that while in the 2nd brood *Umbrosa* has had 80 per cent. of the whole product, in the 3rd brood the same form has had but 60 per cent.

Eggs laid by *Umbrosa* of the 3rd brood have produced *Fabricii* only, the 4th brood, as :

No *Umbrosa*, 25 *Fabricii*.

Larvae found—No “ 10 “

No “ 4 “

No “ 2 “

No “ 25 “

Also I have recorded in October that no form has been seen by me but *Fabricii*, that many were about, coming to apples in the orchard.