

And it looks almost as if it were all body, for the wings are very small indeed, and seem to be but mere rudiments of wings, wholly unsuited to the purpose of supporting such a body in the air. The butterfly now seeks a place where the wings can hang freely, often remaining hanging to the empty chrysalis, or under surface of some support, to which it fastens by means of its claws. In this position the wings grow with a rapidity that is most marvellous. They are not folded up and merely unfolded, but actually grow from the size of the wings of a large bee until they measure four inches across, and that within thirty minutes.

The appearance of the butterfly when its wings are fully grown

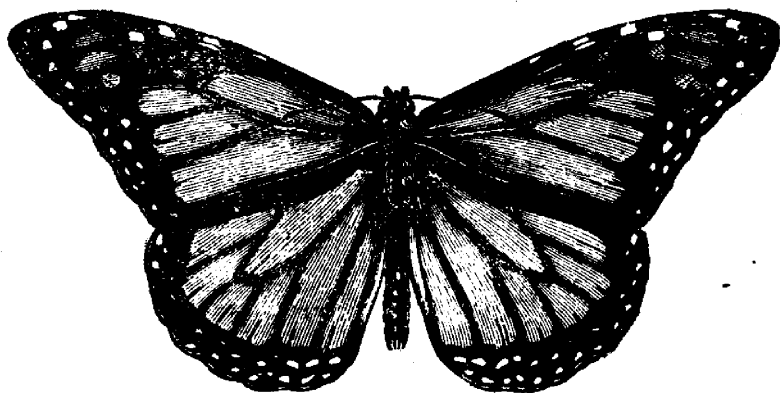


Fig. 15.

may be seen at fig. 15. The ground color of the wings is a bright orange-red, margined with black, and dotted with white spots in the black border.

We have given this account of the history of this insect, not because it does any injury to our crops of fruit or grain, but because its history illustrates the metamorphoses of many other insects, and any who wish can easily rear it in confinement, and watch the changes it undergoes.

#### RISE AND FALL OF SAP.

It is a very commonly received idea that the sap of trees descends in autumn, and when the leaves fall, returns to the roots whence it came in the spring. It does not seem to have once occurred to those who accept this view of the matter, that there would be any difficulty