

APPENDIX B.

THE METAMORPHOSIS OF THE LOCUST.

From Dr. A. Munro, "The Locust Plague."

We have now to consider the Locust in its larval stage, in which it is found to be most destructive to the crops over which it passes. As the larva undergoes certain changes or moults, it will be better to follow the natural order or course of events. The metamorphosis is not complete, or, as it is termed, it is hemimetabolic. From the birth or exit from the nest of eggs till it assumes the state of being of a fully fledged flying locust a period of seven or eight weeks elapses. I am not certain that the exact time to a day has been annotated or fixed by any observer as to when the various stages end, and perhaps some variation may prevail. At the same time, it will be found convenient to attend to the prominent features connected with its several stages at this time. It is not till from fifteen or twenty days after birth that the very first appearance of wings can be traced, and this is done then only in the form of *tiny scales* on the trunk or *thorax*. The stages through which it passes in the larval condition are manifested by a growth and the distinct stripping off of its outer layer or skin at certain well-marked periods, somewhat after the fashion that the gloves are removed from the hand. As the animal increases in size you may, towards the latter portion of its larval life,