

thoroughly applied. Recent Bulletins (Nos. 154 and 157) give full particulars as to the ingredients and method of manufacture of this wash; it should be applied toward the end of April or beginning of May before the buds on the trees show signs of opening. One thorough application will destroy almost all the scales, but a very few survivors will soon re-stock a tree, as they are so extraordinarily prolific. It is necessary, therefore, to repeat the spraying year after year until none whatever are left. The task is a disagreeable one, and the labor involved is expensive, but it will pay in a single season through the improved quality and yield of the fruit; while its neglect simply means the speedy death and loss of the entire tree.

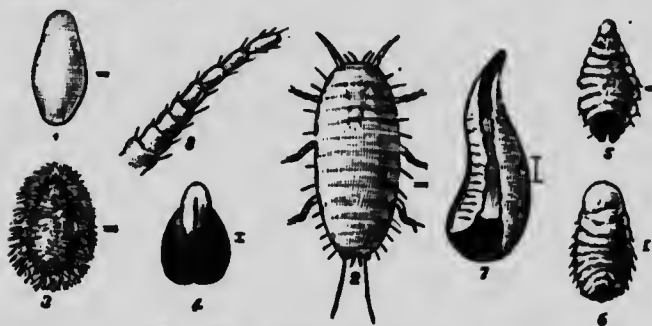


Fig. 25. Oyster-shell Bark-louse.

Fig. 26. A Scale greatly enlarged.



Fig. 27. Scales on a twig.

THE OYSTER-SHELL BARK-LOUSE (*Mytilaspis ulmi*), Figs. 25-27, ranks next to the preceding as a destructive scale insect. It is to be found everywhere throughout the Province, and inflicts an immense amount of damage on Apple and other fruit-trees; it is especially abundant in old and neglected orchards. Fortunately it is single-brooded, and therefore does not increase very rapidly; if it were continuously brooded, like the San José Scale, it would long ago have completely wiped out the Apple and many other fruit-trees of Ontario. It may be readily identified by its peculiar shape, which resembles that of an oyster-shell, and may usually be found in large numbers, sometimes completely encrusting the bark of twigs and branches; occasionally individuals even make their abode on the fruit. During the winter the insect is in the egg stage and protected by the old scales; about the end of May and beginning of June, the yellow lice are hatched out and wander about for a short time, looking for a suitable place where they may attach themselves to the bark. This is done by inserting the beak into the tissue, and there the creature soon becomes covered with a scale and remains for the rest of its life sucking