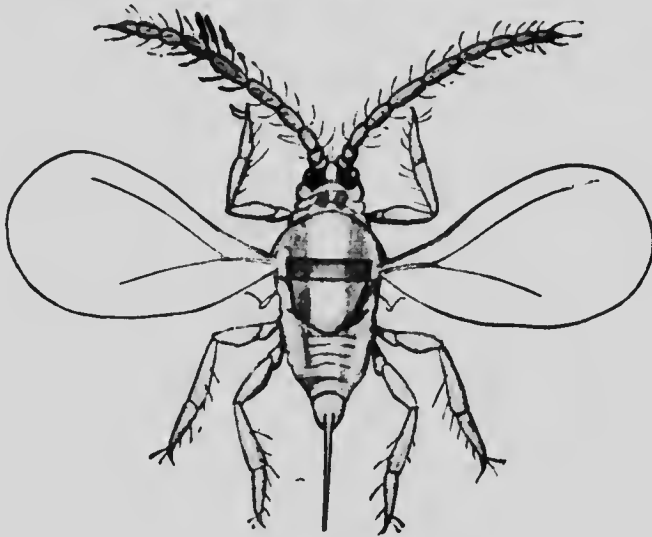


a nearly circular, yellow, sack-like body, with long, slender, bristle-like mouth parts. An examination of the male shows him to be more elongate, and to possess the rudiments of legs, wings, eyes, antennæ, etc.



(FIG. 73.)

Adult male, greatly enlarged.

(L. O. Howard and C. L. Marlatt, *Bulletin No. 3, New Series, Division of Entomology, U. S. Department of Agriculture.*)

The females live and die beneath their scales, never leaving them ; but in April the males molt for the last time, and soon thereafter emerge from under their scales as minute, active creatures, with fully-developed wings. After mating the males die.

In May, possibly earlier, under favourable conditions, the females begin to give birth to living young, and may continue to produce for six weeks or longer. The young are minute, light orange-yellow, active creatures, with eyes, bristle-like mouth parts, two antennæ, or feelers, and six legs. After emerging from under the protecting scale of the parent, each wanders over the surface of bark, fruit or leaf until a suitable situation is found, when the legs and antennæ are folded beneath the body, the bristle-like beak is slowly worked through the outer bark into the living tissues beneath, from which it draws its sustenance. At any time during the summer months hundreds of these little pests may be seen, even with the unaided eye, as they crawl about over the bark or fruit of infested trees.

Even before the young insect has attached itself to the bark, the secretion of the scale has begun. At first it consists only of a fluffy, white mass of fine, waxy threads, which for the first day or so of its existence causes the young San Jose Scale to appear as a minute, downy white speck upon the bark. As these filaments become more abundant they become fused into a more and more compact scale, and assume a yellowish colour. Later the young scale-insect molts several times during its growth and the fully-developed scale is thus made up of fused wax filaments and the several molted skins.