

Coreidae which has been collected on citrus and which causes a peculiar type of injury. In the spring it feeds on the tender, succulent twigs and causes them to wilt and die. The authors have noted this type of damage on as high as 25 percent of the trees in a small block. Only one shoot may be affected, but it will be brown and dry on the tip and may have died back as much as six inches.



Fig. 57.—*Acanthocephala femorata* (Fab.) above, and *Anasa scorbatica* below, are occasionally found on citrus.

The cotton stainer, *Dysdercus suturellus* (H.-S.), was a pest on citrus many years ago when cotton fields were adjacent to citrus. As a mature bug, it is dark red and about $\frac{1}{2}$ inch long. The wings are dark brown and edged with yellow. Since cotton is again being planted in some citrus sections of Florida, it is possible that this insect may become a pest in some individual groves.

Several species of stink bugs (family Pentatomidae) are found on citrus and several of these have been recorded as causing fruit drop. During the time when crotalaria was a major cover crop, the Southern green stink bug, *Nezara viridula* (L.), was a major pest. Another fairly common stink bug is *Euschistus servus* (Say). This insect is brown in color and almost the same size as the green stink bug. Both species have been noted in recent years to build up on hairy indigo and to drop considerable fruit when the cover crop is not chopped until late November.

Numerous other stink bugs have been recorded on citrus. These are rarely if ever pests, but on occasion may feed on fruit and cause it to drop. The following species are pictured here: *Apateticus cynicus* (Say), *Brochymena florida* Ruckes, *Euschistus obscurus* (P. deB.), *Podisus maculiventris* (Say), *P. sagitta* (Fab.), *Proxys punctulatus* (P. deB.), and *Solubea pugnax* (Fab.).

Control of Plant Bugs.—Usually, damage by plant bugs and stink bugs may be avoided by proper cover crop management. In most cases they build up on leguminous cover crops in the grove itself. When they are expected to be a problem, the cover