## INSECT PEST OF CASHEW- Anacardium occidentale

- (a) Mirids *Helopeltis* spp The feeding injury of these piercing and sucking insects cause leaves to become spotted and curl downward. Fruits become spotted and do not develop properly.
- (b) Red-banded Thrips Selenothrips rubrocinctus (Giard) Cause leaves drying and discolouration.
  © Fruit piercing moths -Achaea lienardi (Boisd) Moth puncture ripening fruits enhancing the entry of
- **(d) Flower beetle** *Pachnoda* **spp.** Beetles feed on buds, blossoms, leaves and fruits. A large robust beetle is about 23cm long. Their larva is a white grub. Eggs are laid in the soil and larvae or grubs feed on decaying vegetable matter and plant roots.

## J. INSECT OF KOLA - COLA SPP.

rot organism causing fruit drop.

- (i) **Brown Cocoa Mirids** *Sahlbergella singularis* (Hagl) The piercing and sucking feeding injury of this insect causes yellow and die back of new growth and distort pod growth.
- (ii) Cocoa mosquitoes Helopeltis bergrothi (Reut) Their piercing and sucking feeding injury cause yellowing and die black of new growth.
- (iii) **Green Shield Bugs Nezara viridula (L) -** They feed on the developing new growth causing yellowing and witting of plant parts.
- (iv) Red-Banded Thrips Selenothrips rubrocinctus (Giard) Their feeding injury cause leaves to wilt and drop.
- (v) Mealy bugs *Planococcoides njalensis* (Laing). The piercing and sucking injury of large colonies of mealy bugs causes yellowing of plants and reduce yield.
- (vi) Kola Pod Borers *Bolanogastris kolae* (Desbr) and *Sophrorhinus insperatus* (Faust). Female weevils insert their eggs singly in the pods causing them to crack. They are field to store insect pest
- (vii) Kola Stem Borer Phosphorus virescens (Olivier) and P. gabonator (Thomson)

Adults are long horn beetle, 20-35mm long. Eggs are deposited in shoot. The beetles are found on leaves, shoots chupon and young branches.

(viii) Defoliator – *Anaphe venata* (Btlr). Moths are large with a wing spread of 55- 65 mm. Eggs are deposited on leaves of the host plant and hatch in about 1 month. Pupation takes place in large communal cocoons about mid-August. Other insect pest of kola are:

- *Oecophylla* spp,
- Tailor ants
- Zonocerus variegatus (Variegated Locust)
- Termites
- Characoma stictograpta. (Pod Husk Miner)
- Anomis leona Defoliators e.t.c.