

producing only partially filled/ half filled grains. Small puncture appear in the middle of the flag leaf and its margin get discolored.

Egg: White, cigar shaped egg laid singly on either side of the leaves.

Grub: Newly hatched larva is transparent to very light cream in colour but later become yellow. The larvae move down the leaf into the whorl on a film of dew and feed within developing whorls. The larvae mostly remain outside the leaves and feed on the mesophyll tissue of the foliage. When leaves emerge from the whorl damage can be seen as pinholes in the leaves and white and yellowish lesions on the leaf edge.

Pupa: Pupation takes place in between the leaf sheath where the pupa is loosely attached to the stem. The puparium is light to dark brown ovoid and sub-cylindrical in shape.

Adult: Adult dark grey flies, 1.8-2.3 mm in size.

10. **Blue beetle**: *Halticia cyanea*: Chrysomelidae: Coleoptera