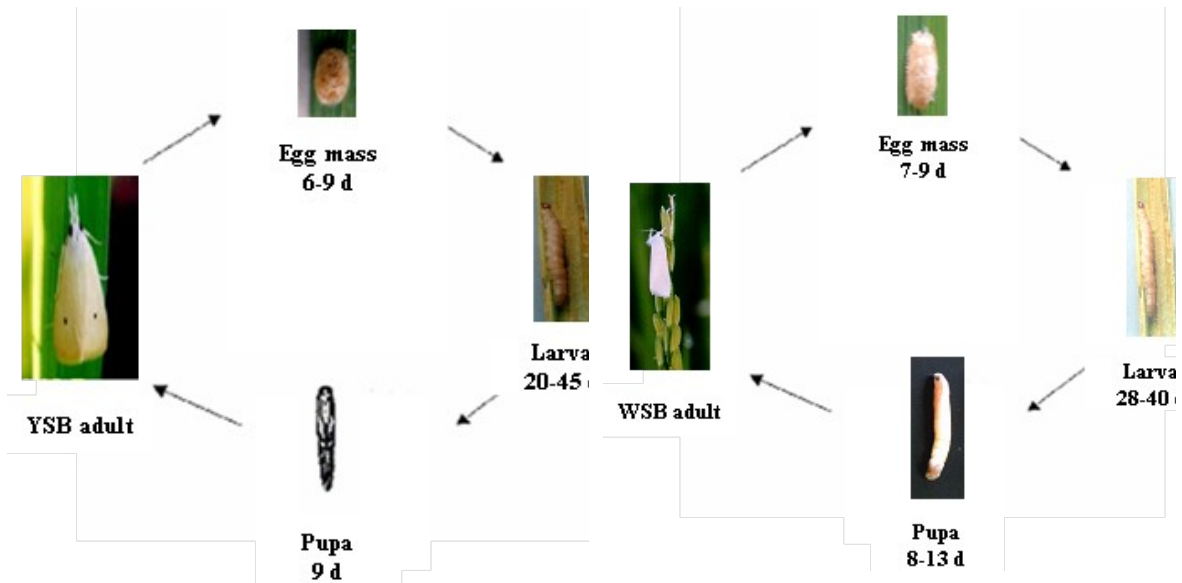


Life cycle of YSB and WSB



Adult

YSB

The female YSB moth has a pair of distinct black dots on the forewing. It has a wingspan of 24-36 mm. Its abdomen is wide with yellowish hairs. The male is light brown in color, smaller and has two rows of black spots at the tip of the forewings. It has a wingspan of about 20-30 mm.

WSB

The WSB adult is similar to the yellow stem borer in appearance but does not have the characteristic black spot on the wings. The white female moth has a wing span of 26-30 mm and the male with 18-24 mm.

- Adult females lived for 2-7 days while the males, 2-5 days.

Egg mass

- The egg mass is covered with brownish hairs from the anal tufts of the female.
- Individual eggs are white, oval, and flattened.
- Based on field collections, the mean number of eggs per mass is 70-100
- Length of egg masses ranged from 2mm to 8mm.
- Incubation period is 7-9 days.

Larva

- Length of first instar is about 1.5 mm with yellowish green body. A full-grown larva has brown head and prothoracic shield and measures 20 mm.
- The larvae undergo 5 instars ,while the larval period ranged from 28-40 days
- The larva is milky white in color and grows to a length of 15-20 mm.

Pupa

- The pupa is pale green and measures about 12 mm long. It is enclosed in a white silk cocoon. Fresh cocoon is pale brown and turns dark brown with age.
- Pupa are soft-bodied, pale and measure 12 to 15 mm long.
- The total developmental period from egg to adult ranged from 43-62 days.
- Pupation is completed in 8-13 days.

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