





Technical Bulletin for: Pepper Weevil

Anthonomus eugenii (Cano) • Coleoptera, Curculionidae • ANTEUG



DISTRIBUTION	Found originally in Mexico, it is now present throughout the Caribbean, Central America and the southern United States.
HOSTS	Pepper weevils are only found on members of the Solanaceae family. The most important agricultural products include, tomato, potato, chili peppers and bell peppers.
DESCRIPTION	
ADULT	Adults are oval-shaped and blackish in color, approximately 2 – 3.5 mm in length. The body has a distinctive arch and is approximately 1.5 mm in width.
LARVAE	White to grey in color with a yellowish-brown head. There are three instars with larvae starting out 1 mm in length and generally growing to about 3.3 mm in length by the end of the third instar. However, they may reach a length of around 5 mm in some instances.
EGGS	White, quickly turning yellow, about 0.5 mm long and 0.4 mm wide, oval in shape.
LIFE HISTORY	Generally, there are between three to five generations per year. However, there have been up to eight generations reported in California. There is no diapause, but adults will overwinter if there is a food source. Females typically deposit 5-7 eggs per day with fecundity averaging 341 eggs. Complete generation will last 20 - 30 days, depending on the weather.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATES & FIELD LIFE	Grandlure II, E-Grandlure II, Grandlure III & IV, Geranic Acid and Geraniol in a Coaster Lure Packet. Lure Longevity: Forty-five (45) days.	
TRAP TO USE	Yellow card	
MONITORING & STRATEGY	Traps should be placed 10 to 60 cm above the soil; one 375 sq cm trap captures as many weevils as are detected by inspecting 50 buds (Riley and Schuster 1994).	
CULTURAL & PHYSICAL CONTROLS	Sanitation, including the removal of wild solanaceous plants, can be critical to reducing pepper weevil populations. Remove and destroy fallen fruit and implement a crop-free period together with a crop-free period can also be helpful.	

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