







Technical Bulletin for: Onion Fly

Hylemya antiqua (Meigen) • Diptera, Anthomyiidae • HYLANT



DISTRIBUTION	North America, Western Europe, Russia, Central Asia, China, Japan and Korea
HOSTS	Bulbs of onions, garlic, chives, shallots, leeks, and other flowering plants.
DESCRIPTION	
ADULT	The onion fly has an ash-grey body and resembles a housefly. The male has a longitudinal stripe on the abdomen which is lacking in the female. The legs are black, the wings transparent, and the compound eyes brown.
LARVAE	The larvae are white and cylindrical, reaching lengths of 10 mm.
EGGS	White and elongated
LIFE HISTORY	Depending on location, one to four generations can occur every year. Females lay eggs in series or in groups (of 5 to 20) on shoots, leaves, bulbs, and on ground near plants for 12-30 days, with up to 200 eggs laid. Hatching larvae go into bulb pulp from the root side or through the base of leaves. Larvae hatching from one egg-batch usually keep together and eat away rather big cavities in bulbs. Larvae feed for 15-25 days, molting three times. Larval development proceeds in one bulb in large onions and in several bulbs in seeding-onions. Pupation occurs in the ground at depths of 10-20 cm; the pupal phase of spring generation lasts 2-3 weeks.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	2-phenylethanol and n-valeric acid in a Coaster Lure Packet. Lure longevity: 30 days	
TRAP TO USE	Red Paper or Plastic Delta Trap, Wing Trap	  
MONITORING STRATEGY	Hang trap near host plants just before emergence of the first generation of adults, replacing the lure as necessary with each emerging generation. Check with Cooperative Extension or Master Gardener for local information and recommendation	
CULTURAL & PHYSICAL CONTROL	Inspect host plants for bored through bulbs, shoots and/or leaves, or other damage to the host plant. Remove of and incinerate infested areas or host plants as soon as possible.	

Alpha Scents, Inc.
insect monitoring systems

Alpha Scents, Inc., 360 S. Sequoia Pkwy. Canby, OR 97013
TEL: 503-342-8611 • FAX: 314-271-7297 • sales@alphascents.com • www.alphascents.com