



Technical Bulletin

Navel Orangeworm

Amyelois transitella • Lepidoptera: Pyralidae

Product Code: AMYTRA



DISTRIBUTION	Native to the southwestern United States and Mexico; now present in California, Texas, Florida and as far north as Tennessee.
HOSTS	Almonds, pistachios, walnuts, citrus, stone fruits, figs and apples.
DESCRIPTION	
Adult Moth	Greyish–brown, about 9-11 mm in length. The wings generally have silver-grey markings, but color can range from very light grey to almost black.
Larvae	Reddish brown when newly hatched; pupae are light to dark brown.
Eggs	White, later turning orange in color.
LIFE HISTORY	Females lay up to 240 eggs in small groups, with larvae developing between 22 and 55 days depending on temperature and humidity. Larvae can overwinter in mummified nuts in trees or on the ground. The period between egg and adult can vary between 36 and 70 days, with maturation occurring more rapidly under humid conditions. There may be up to three to four adult flight periods per year in California.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	Coaster lure packet; replace after 30 days. 
TRAP TO USE	Red plastic delta. Lure should be placed either under the sticky card or attached to hanger. 
MONITORING STRATEGY	Place traps in mid-March (prior to first NOW flights). Use at least three traps per grove/orchard. Traps should be placed 6-7 feet high in the tree and should be checked at least once per week. Replace sticky liner when dirty or saturated with insects. Replace lure every thirty (30) days. Pheromone traps are not effective in mating disruption orchards. Check with Cooperative Extension or Master Gardener for local information and recommendations.
CULTURAL & PHYSICAL CONTROL	Harvest nuts as soon as possible. Practice good orchard sanitation to reduce overwintering populations. Remove mummies from trees as soon as possible after harvest and before rain. Remove or degrade all crop waste containing nuts in the fall or winter.

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