

ALMOND, FIG, WALNUT AND PISTACHIO ORCHARDS

General Information

DIRECTIONS FOR USE

Puffer NOW is a behavior modifying biochemical product (pheromone) which functions by mating disruption. It is to be used for control of the Navel Orangeworm (*Amyelois transitella*). Do not apply more than 150 grams of active ingredient per acre per year.

METHOD OF APPLICATION: For use in almond, fig, walnut and pistachio orchards and other crops where the Navel Orangeworm is a pest. In the spring, start applications prior to moth emergence and continue throughout the crop's susceptible period, typically 80 to 180 days. Use a cabinet to automatically dispense the Puffer NOW canister. One puff of product is delivered every 15 minutes for a period of 12 hours, starting at 6 PM.

Placing cabinets in orchards and replacing canisters are to be done when cabinets are inactive, typically during daylight hours between 7 AM and 5 PM. To avoid accidental spraying, ensure that canister nozzles are pointed away during the performance of these tasks. One Puffer NOW canister will last approximately 200 days. Where effective disruption of navel orangeworm mating requires longer application periods, replace used canisters before the 200 day period is reached.

Product Placement: Suspend a filled cabinet from a tree limb close to the center of the tree. Ideally, placement height will be approximately 2/3 of orchard height $\pm 10\%$. Do not place cabinets where foliage, nuts or fruits can be directly sprayed. Where feasible a 3-foot clearance is requested.

Orchards Smaller than 40 Acres: Do not use Puffer NOW in orchards less than 40 acres unless adjacent acreage is also being treated with Puffer NOW and total acreage block being treated is 40 acres or more.

40-Acre Orchard: Place cabinets around the orchard perimeter or in a grid pattern to achieve a density of two (2) puffer canisters per acre. In situations with a prevailing wind place additional canisters along the upwind edge to achieve uniform pheromone distribution within the interior of the orchard.

Orchards Greater than 40 Acres: Place cabinets around the orchard perimeter or in a grid pattern to achieve a density of up to two (2) puffer canisters per acre. In situations with a prevailing wind place additional canisters along the upwind edge to achieve uniform pheromone distribution within the interior of the orchard.

APPLICATION NOTES: For best results apply at the time or shortly before the Navel Orangeworms begin to emerge in the spring. This product only affects adult male moths and will have no effect on female moths, eggs or larvae. If application occurs following biofix (the first date moths are found consistently in monitoring traps) or during the growing season, the field must be treated with insecticides that will effectively control hatching larvae until egg laying by previously mated female moths has ceased to occur. In moderate to high insect pressure situations, supplemental insecticide applications during the season may be necessary to provide adequate protection. These supplemental insecticide applications must be made based on trap monitoring, field scouting, and appropriate degree-day models for the local growing area and must be timed to control young larvae. Monitor insect infestation with traps and by visual inspection of plants. Re-apply as needed, based on monitoring results and field scouting.

Limitations, Restrictions, and Exceptions

Orchards Smaller than 40 Acres: Do not use Puffer NOW in orchards less than 40 acres unless adjacent acreage is also being treated with Puffer NOW and total acreage block being treated is 40 acres or more

Method

[Spray](#)

Timings

[At the time or shortly before the insect begin to emerge in the spring.](#)