

New Insecticide Alternatives for Codling Moth Control on Apple





Insect Growth Regulators (IGR's)

- Rimon (difluorobenzamide), Intrepid (methoxyfenozide) Safe for the environment, safe for farm workers, and low toxicity to natural enemies
- Narrow pest spectrum (primarily Lepidoptera)

Neonicotinyls Assail (acetamiprid), Calypso (thiacloprid), Clutch

- (clothianidin) Safe for the environment and farm workers
- Wider spectrum of activity (including Lepidoptera)

Field Trial Methods

- Handgun Single-tree plots sprayed to the point of drip to simulate a dilute spray
- Buffer trees used to avoid overspray and drift
- Applications made with a multiple-tank handgun sprayer

Airblast

- Fifteen-tree plots sprayed at 100 gpa
- Buffer rows used to avoid overspray and drift

Fruit injury evaluations at the end of each CM generation







Rimon kills CM eggs that are laid on top of residues – oil applied over the top of CM eggs smothers the developing embryo – Assail kills eggs already in the orchard as well as newly hatched CM larvae. This program reduced CM fruit injury by 95% in this trial.



2004