

## **NEW VEGETABLE CROP INSECTICIDE/MITICIDES/MOLLUSCIDES 2006**

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### **Miticide/Insecticides for greenhouse and field crops:**

Abba 0.15EC (abamectin): A selective insecticide/miticide for Colorado potato beetle on tomato and potato or mites and leafminers on cucurbits, tomatoes, peppers and celery. Also for leafminers on head lettuce. It has a 3 to 14 day-to-harvest (dh) restriction and a 12 hour re-entry interval (REI). Abba is in insecticide group #6 (avermectins) and was derived from a metabolite of a soil bacterium, *Streptomyces avermitilis*.

Acramite 50WS (bifenazate): A selective miticide for use on cucurbit and fruiting vegetable crops. An important new tool to help control mites on eggplant. It has a quick knockdown and long residual period of activity (up to 28 days). Acramite is a member of insecticide group # 28 (carbazates) and has a 3 dh restriction and a 12 h REI. It can not be used on grape tomatoes (< 1 inch in diameter).

Floramite SC (bifenazate): A selective miticide for use on greenhouse tomato varieties greater than 1 inch in diameter when mature. A long-residual (28 days) nerve poison in insecticide group #28 (carbazates) with a 3 dh restriction and a 12 h REI.

Oberon 2SC (spiromesifen): A selective insecticide/miticide primarily for the egg and nymphal stages of mites and whiteflies on cucurbits, solanaceous crops, Brassica, leafy greens, potato and sweet potato. Another important new tool to help control mites on eggplant. Oberon is a member of insecticide group #23 (tetronic acid derivatives), and has a 7 dh restriction and 12 h REI.

Pylon (chlorfenspar): A selective miticide/insecticide that functions as both a contact and stomach poison for mites, thrips and various caterpillars on greenhouse solanaceous crops. It is a member of insecticide group #13 (pyrroles) and has a 0 dh restriction and a 12 h REI.

### **New broad-spectrum synthetic pyrethroids:**

Decis 1.5 EC (deltamethrin): A restricted-use, broad-spectrum, synthetic pyrethroid (insecticide group 3A) registered for caterpillar and beetle pests on sweet corn, cucurbits, solanaceous, and many root crops. It is more toxic than most pyrethroids. Decis has an oral LD50 of 43 mg/kg and carries a Adanger@ skull and cross-bones warning on the label. It has a 1 to 3 dh restriction and a 12 h REI.

Fanfare 2EC (bifenthrin): Similar formulation to the insecticide >Capture.= A restricted-use, broad-spectrum synthetic pyrethroid (insecticide group 3A) registered for most major caterpillar and beetle pests on sweet corn, beans, Brassicas, cucurbits, solanaceous crops, head lettuce and spinach. Like Capture, use is prohibited on sweet corn in all coastal counties. Fanfare has a 40 dh restriction on spinach, but a 1 to 7 dh limit on other crops, and a 12 h REI.

Proaxis 0.5EC (gamma-cyhalothrin): A restricted-use, broad-spectrum, synthetic pyrethroid (insecticide group 3A) registered for most major caterpillar and beetle pests on sweet corn, beans, Brassicas, solanaceous crops, and lettuce. It is also registered for thrips and cutworms on onions. Gamma-cyhalothrin is a mirror isomer of lambda-cyhalothrin, the active ingredient in >Warrior.= The gamma isomer is reported to be approximately twice as potent as the lambda isomer, therefore, Poaxis is formulated with half the amount of active ingredient and applied at similar rates per acre as Warrior. It has a 21 dh and a 14 dh restriction on dry beans and onions/garlic, respectively, and 1 to 7 dh restriction on other crops, with a 12 h REI.

### **Seed treatments:**

Cruiser 5FS (thiamethoxam): A systemic seed treatment in the neonicotinoid class (insecticide group #4). It is registered for Colorado potato beetle, flea beetle, potato leafhopper and wireworms on potato; seedcorn maggots, flea beetles, white grubs, cutworms and wireworms on sweet corn; and aphids, Mexican bean beetles, potato leaf hoppers, seedcorn maggot and wireworms on bean and peas. Rates are based on row spacing. Do not use subsequent applications of neonicotinoids following seed treatments.

Gaucha 480F (imidacloprid): A systemic seed treatment in the neonicotinoid class (insecticide group #4). Treated seed must be purchased. It is registered for flea beetles, seedcorn maggots and wireworms on sweet corn, and for wireworm and aphids on beans. Do not use subsequent applications of neonicotinoids following seed treatments.

Gaucha MZ (imidacloprid + mancozeb): A systemic seed treatment in the neonicotinoid class (insecticide group #4) premixed with a dithiocarbamate fungicide to help control Fusarium. With only 1.25% imidacloprid, it is registered to aid in the control of aphids, Colorado potato beetle, flea beetle, potato leaf hopper and wireworms on potatoes. Do not use subsequent applications of neonicotinoids following seed treatments.

Genesis 2F (imidacloprid): A systemic seed treatment in the neonicotinoid class (insecticide group #4). With 21.4% imidacloprid, it is registered to control aphids, Colorado potato beetles, flea beetle, potato leafhopper and wireworms on potatoes. Do not use subsequent applications of neonicotinoids following seed treatments.

#### **Insect growth regulators:**

Rimon 0.83EC (novaluron): This insect growth regulator (insecticide group #15) disrupts the insect cuticle formation during molting. It should be used on immature insects only. Rimon is registered for Colorado potato beetle, European corn borer, cabbage looper, cutworms, and whiteflies on potatoes and sweet potatoes. It has a 14 dh restriction and a 12 h REI.

Talus (buprofezin): This insect growth regulator (insecticide group #16) disrupts the insect cuticle formation during molting. Mortality may take 3 to 7 days. It has a long residual period of activity (up to 28 days). Talus is registered for whiteflies, mealybugs and leafhoppers on greenhouse tomatoes. It has a 7 dh restriction and a 12 h REI.

#### **Molluscicide:**

Sluggo Snail & Slug Bait (iron phosphate): Iron phosphate disrupts feeding immediately (chemical group 9B) and produces mortality in 3 to 6 days. This is a low-risk material exempt from tolerances on food commodities and has a 0 h REI. It can be applied around any vegetable in the field or greenhouse. Apply in the evening when the soil is moist.

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