

Vegetable & Fruit Insecticide Update for 2007/2008
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New products with new active ingredients:

- Radiant 1SC (spinetoram): controls caterpillars, thrips, leafminers. For use on cole crops, mustard greens, onion, sweet corn, leafy veg., fruiting veg., root veg., potato, herbs, cucurbits, legumes, strawberries. Made by Dow. Registered Sep. 2007.
- Delegate 25WG (spinetoram): controls caterpillars, thrips. For use on pome fruit, stone fruit, grapes, caneberries, blueberries. Made by Dow. Registered Sep. 2007.

New products with old active ingredients:

- Onager 1EC (hexythiazox): same a.i. as in Savey, miticide now marketed east of Rockies, Feb. 2008. Made by Gowan. For spider mite control on pome fruit, stone fruit, grapes.
- Portal EC (fenpyroximate): same a.i. as in Fujimite. Made by Nichino. For use on apples, pears. Jan. 2008.
- Hero 1.24EC (bifenthrin + zeta-cypermethrin): controls caterpillars, beetles, bugs. For use on sweet corn, eggplant, pepper, tomato, head lettuce, cole crops, legumes. Made by FMC. Registered Feb. 2007.

Registration expanded to additional crops:

- Assail 30SG (acetamiprid): new for berries, Jan 2008; stone fruit, cucurbits, beans, peas, Nov. 2007.
- Warrior (lambda-cyhalothrin): new for cucurbits and potato and other tuber/corms, Jan. 2008.
- Provado 1.6F (imidacloprid, foliar): new for herbs, caneberries. Controls aphids, leafhoppers, whiteflies. Aug. '07.
- Admire 2F, Admire Pro 4.6F (imidacloprid, soil): new for herbs, pome fruit, stone fruit, grapes, caneberries. Controls aphids, leafhoppers, whiteflies, flea beetles, Japanese beetle, white grubs. August 2007.
- Brigade (bifenthrin): 2EC new for greens, potato, cilantro (Feb. 2007). 10 WSB includes at-plant use on cabbage, sweet corn, beans, cucurbits, tomato. Controls beetles, caterpillars, bugs, spider mites, thrips.
- Avaunt 30DG (indoxacarb): new for greens, cucurbits, leafy veg., tuber veg., grapes, stone fruit. Controls caterpillars. July 2007.
- Actara 25WDG (thiamethoxam, foliar): new for cabbage, greens, leafy veg., cucurbits, tomato, eggplant, grapes, caneberries. Controls aphids, leafhoppers, whiteflies, flea beetles, thrips, Colorado potato beetle. June '07.
- Platinum 2SC (thiamethoxam, soil): new for cabbage, greens, leafy veg., grapes. Controls aphids, leafhoppers, whiteflies, flea beetles, thrips, Colorado potato beetle, Japanese beetle. June 2007.
- Clutch 50WDG (clothianidin): new for potato, grape. Controls aphids, leafhoppers, Colorado potato beetle, Japanese beetle, mealybug, grape berry moth. March 2007. Now a Valent product, formerly Arysta.
- Acramite (bifenazate): Controls spider mites. 50WS had cherries and apricots added. New formulation 4SC has potato and succulent peas. Feb. 2007.
- Mustang Max 0.8EC (zeta-cypermethrin): new for cucurbits, root vegetables, potato, blueberry, caneberries, grapes, pome & stone fruit. Controls beetles, root weevils, caterpillars, bugs. Jan. 2007.

Cancellations:

- Mitac (amitraz): was used on pears; cancelled May 2006.
- Kelthane (dicofol): Kelthane 50WSP and Kelthane MF discontinued by Dow. Generic dicofol still available.

Current pest management concerns:

- Pest watch: three potential pests are Swede midge on cole crops (from Ontario), western bean cutworm on sweet corn (from Illinois), and brown marmorated stink bug on fruit and legume crops (from Pennsylvania).
- Thrips control on cabbage: after loss of dimethoate in 2006, there is a shortage of good products for thrips control. Assail is good when used at high rate just after cupping and 10-14 days later. Radiant is a new option that should be tried. SpinTor and MSR are other alternatives.
- Stink bug injury on fruit is showing up in many tomato and pepper fields. Control by a pyrethroid or Actara when nymphs first detected, often in early August.
- In apple orchards that had no crop due to the Easter freeze, large populations of codling moth could be present in 2008 if no insecticides were used in 2007.
- Resistance to pyrethroids is developing in populations of corn earworm and tomato fruitworm. The resistance problem was compounded by exceedingly large populations of the pest in 2007. Alternatives for sweet corn are growing 'Attribute' transgenic BT hybrids, or spraying Radiant, SpinTor, Lannate, or Larvin, or a tank mix of pyrethroid plus Larvin or Lannate; for tomatoes, spray Avaunt, Proclaim, Intrepid, or SpinTor. 'Attribute' hybrids should be supplemented with two sprays during silking if earworm is abundant.
- Beet armyworm and fall armyworm continue to be a challenge to control in tomato, pepper. These species are tolerant of pyrethroids, so are better controlled by Avaunt, Proclaim, SpinTor, or Intrepid.
- Mode of action: The label front page of new insecticides has a code number for the mode of action group, from the Insecticide Resistance Action Committee (IRAC). To avoid resistance, rotate among products from different mode of action groups.

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