

**Vegetable & Fruit Insecticide Update for 2006/2007**  
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**New products:**

- Beleaf 50SG 2F (flonicamid): controls aphids and tarnished plant bug on head & stem brassicas, mustard greens, cucurbits, fruiting & leafy vegetables, potato, pome & stone fruit. Made by FMC. Registered Nov. 2006.

**New generic products:**

- Alias 2F (from MANA/Makhteshim), Couraze 2F (from Cheminova), Agrisolutions Advise 2FL (from Agrilience), Agristar Macho 2FL (from Albaugh), Nuprid 2F (from Nufarm), and Imida E-AG 2F (from Etigra) have the same active ingredient (imidacloprid) as Admire 2F (from Bayer).
- Pasada 1.6F (MANA/Makhteshim), Couraze 1.6F (Cheminova), Prey 1.6 (UAP/Loveland), Agristar Impulse 1.6F (Albaugh), Nuprid 1.6F (Nufarm), and Imida E-AG 1.6F (Etigra) have the same active ingredient (imidacloprid) as Provado 1.6F (Bayer).
- Pasada 75WSB and Couraze Solupak 75WP have the same active ingredient (imidacloprid) as Provado 75WSB.

**New formulations:**

- Assail 30SG: replaces 70WP and 70WSP. Made by Cerexagri.
- Venom 70SG replaces Venom 20SG. Made by Valent.
- Baythroid XL 1EC (beta-cyfluthrin): replaces Baythroid 2E (cyfluthrin); rates of product per acre are unchanged. Made by Bayer.

**Registration expanded to additional crops:**

- Danitol 2.4EC (fenpropathrin): blueberry, peppers, eggplant, peas, greens. Label initially approved by EPA in Sept 2005 but final label not issued by manufacturer until Sept. 2006. Controls Japanese beetle, other beetles, caterpillars, maggots, stink bugs, spider mites, thrips.
- Entrust 72WP (spinosad): stone fruit, caneberries (May. 2006) for caterpillar control.
- Rimon 0.83EC (novaluron): apples and cabbage and other head and stem Brassica crops (April 2006); had been Ohio 24c registration for apples since Jan. 2005 and potatoes since 2003. An insect growth regulator that acts as a chitin inhibitor; kills caterpillars and suppresses thrips, whiteflies, plant bugs, and stink bugs. Made by Chemtura (formerly Crompton/Uniroyal).
- Proclaim 5SG (emamectin benzoate): pome fruit (April 2006). Controls leafrollers and leafminers; suppresses pear psylla, codling moth, mites.
- Lorsban 75WG (chlorpyrifos): Supplemental label for control of trunk borers in apple (April 2006); 28 day PHI.
- SpinTor 2SC (spinosad): Supplemental label for onion and other bulb veg (March 2006) for suppression of thrips.
- Baythroid 2E (cyfluthrin): leafy vegetables, eggplant, cucurbits, pome fruit, stone fruit, grapes (Nov. 2005). Broad spectrum; controls leafhoppers, caterpillars, bugs, beetles, thrips, leafminers.
- Assail 30SG (acetamiprid): potato and other tuber/corm crops (July 2005) for control of aphids, leafhoppers, beetles, and eggs of European corn borer.

**Modifications:**

- Lannate LV (methomyl): rate modified for fall armyworm, beet armyworm on many veg crops, plus new information about chemigation and resistance management (May 2006).
- Venom 70SG (dinotefuran): Additional pests added: stink bugs, squash bug, harlequin bug, cucumber beetles, grasshoppers on vegetables, and multicolored Asian lady beetle on grapes (April 2006).
- Imidan 70WP (phosmet): new limits per year, and re-entry interval lengthened (now 3 days for apple, pear, peach, 5 days for potato, 14 days for grapes; still 24 hours for blueberry); Jan. 2006.
- Lorsban 75WG (chlorpyrifos): on apples, use now allowed at petal-fall (spring 2006).
- Guthion (azinphosmethyl): divested by Bayer, acquired by MANA/Makhteshim (March 2007).

**Cancellations:**

- Dimethoate: cancelled on apple, grape, cabbage, collards, spinach, head lettuce (March 2006).
- Guthion 50WP: use not allowed after 30 Sept. 2006 on raspberries, blackberries, peaches, potatoes.
- Pending cancellation of Furadan 4F on all crops, but decision not final.

**Other pest management items:**

- Resistance to pyrethroids is developing in populations of corn earworm (tomato fruitworm). Alternatives for sweet corn are growing Attribute transgenic BT hybrids, or spraying Larvin, SpinTor, or Lannate, or tank mix of pyrethroid plus Larvin, Sevin, or Lannate; for tomatoes, spray Avaunt, Proclaim, Intrepid, or SpinTor.
- Mode of action: The label front page of new insecticide products is now showing a code number for the mode of action group, based on a list by the Insecticide Resistance Action Committee (IRAC). To avoid resistance, rotate among products from different mode of action groups.

*10/6/06; revised 4/9/2007*