

Vegetable & Fruit Insecticide News for 2011-2012

Celeste Welty, Extension Entomologist, Ohio State University

Registration cancellations:

- Guthion 50WP Solupak (azinphos-methyl): Guthion can not be used on any crop after 2012. Limit per year for 2012 is 3 lb/A for apple and pear, 1.5 lb/A for cherry, 2 lb/A for parsley.
- Phase-out of endosulfan (Thionex):

| <i>End date for endosulfan use</i> | <i>Crop</i> |
|------------------------------------|--|
| 7/31/2012 | Peach, plum, cherry, strawberry (annual), cabbage, kale, cucumbers, melons, summer squash, lettuce |
| 7/31/2013 | Pear |
| 7/31/2015 | Apple, blueberry, pepper, potato, pumpkin, sweet corn, tomato, winter squash |
| 7/31/2016 | Strawberry (perennial) |

New commercial seed treatments:

- NipsIt Inside (clothianidin), for sweet corn.
- Farmore F1500, with 2 insecticides (spinosad [Regard] & thiamethoxam [Cruiser]) & 3 fungicides, for onion.

New or improved formulations:

- Blackhawk 36WG (spinosad [same a.i. as in SpinTor]): for potato, sweet corn, legumes.
- Cyd-X HP, virus for codling moth control on pome fruit.
- Agri-Mek 0.7SC (abamectin) replaces Agri-Mek 0.15EC.
- Leverage 360 SE (imidacloprid + beta-cyfluthrin) replaces Leverage 2.7 SE (imidacloprid + cyfluthrin).

Registration modifications:

- Oberon (spiromesifen): PHI was shortened from 7 days to 1 day on tomato, pepper, eggplant.
- imidacloprid: Admire Pro is now for foliar as well as soil uses; and Provado is being discontinued by Bayer.

Products with registration expanded to additional crops:

| <i>Product</i> | <i>A.I.</i> | <i>Target pests</i> | <i>Crops</i> | <i>Date</i> | <i>Registrant</i> |
|----------------|---------------|--------------------------------|---|-------------|-------------------|
| Synapse | flubendiamide | caterpillars | now for use on turnip greens, strawberry | Mar. 2011 | Bayer |
| Zeal 72WP | etoxazole | spider mite eggs and immatures | now for use on pumpkins, squash, peppers, eggplant, raspberry, blackberry, strawberry | 2011 | Valent |

New pre-mix products:

(note, for resistance management, these are not recommended unless there is a clear need for both components.)

| <i>Product</i> | <i>A.I.</i> | <i>Target pests</i> | <i>Crops</i> | <i>Date</i> | <i>Registrant</i> |
|-----------------|--|---|---|-------------|-------------------|
| Endigo ZC | lambda-cyhalothrin + thiamethoxam | caterpillars, aphids, beetles; suppression of thrips | potato, cole crops, cucurbits, fruiting veg., lettuce, pome fruit, stone fruit | Jun. 2011 | Syn-genta |
| Agri-Flex | abamectin + thiamethoxam | Aphids, spider mites, leafhoppers, leafminers, plum curculio, Jap. Beetle, psylla | apples, pears, grapes | Mar. 2011 | Syn-genta |
| Stallion | zeta-cypermethrin + chlorpyrifos | beetles, caterpillars, aphids, stink bugs | Brussels sprouts, sweet corn | Jan. 2011 | FMC |
| Athena | bifenthrin + avermectin B1 | Soil: maggot, grubs, wireworms Foliar: mites, beetles, aphids, caterpillars | potato, cucurbits, tomato & other fruiting veg., head lettuce, spinach, strawberries, grapes, pears | Sep. 2010 | FMC |
| Cobalt Advanced | chlorpyrifos + lambda-cyhalothrin | Soil: armyworms, cutworms Foliar: aphids, caterpillars, beetles | tomato & other fruiting veg., lettuce & other leafy veg., cole crops, cucurbits, apple, pear, cherry, peach, plum | May 2010 | Dow |
| Steed 1.5EC | zeta-cypermethrin + bifenthrin (same a.i.s as in Hero, but in different ratio) | beetles, caterpillars, aphids, leafhoppers | sweet corn, potato, cole crops, greens, cucurbits, tomato & other fruiting veg., leafy veg., legumes | Mar. 2010 | FMC |
| Cobalt | chlorpyrifos + gamma-cyhalothrin | Soil: armyworms, cutworms Foliar: aphids, caterpillars, beetles | Brussels sprouts, sweet corn, apple, pear, cherry, peach, plum | Feb. 2009 | Dow |

Pest notes:

- **Spotted wing Drosophila:** a new pest that attacks healthy ripening fruit before harvest of cherries, raspberries, blackberries, blueberries, strawberries, grapes, peaches, apples. Detected in California in 2008, Florida and Oregon in 2009, Michigan in 2010, in raspberries in NW Ohio in September 2011. Controlled by Delegate (spinetoram), malathion, pyrethroids (Baythroid, Danitol, Mustang, Pounce, Asana, Warrior).
- **Brown marmorated stink bug:** a new pest on peaches, apples, grapes, sweet corn, eggplant, tomatoes, peppers, soybeans, other crops; moving into Ohio from the east. Controlled by Venom (dinotefuran), Belay (clothianidin), Brigade (bifenthrin), Baythroid XL (beta-cyfluthrin), Danitol (fenpropathrin), or permethrin. Azera (azadirachtin + pyrethrins) is coming soon, will be best option for organic growers.
- **Silverleaf whitefly:** a new pest that is moving into Ohio on tomato transplants from Florida, although it does not overwinter outdoors in Ohio. Control by one transplant drench with a neonicotinoid (Venom, Admire, or Platinum), followed by foliar sprays of Oberon (spiromesifen), Courier (buprofezin), Knack (pyriproxyfen), or Movento (spirotetramat), or drip chemigation with Coragen (chlorantraniliprole).
- **Two-spotted spider mite:** an old pest that was troublesome in 2011 on tomatoes. Control by Agri-Mek, Acramite, or Oberon, or Zeal or Portal. At some sites, the mite population is still susceptible to the older products Dimethoate, MSR, or Kelthane.

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