

Vegetable & Fruit Insecticide News for 2019-2020

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New products:

- **PQZ**, with the active ingredient pyrifluquinazon, IRAC group 9B, the same group as Fulfill (pymetrozine). Controls aphids, whiteflies, and leafhoppers. Allowed on Brassica head and stem vegetables (1-day PHI), cucurbits (1-day PHI), fruiting vegetables (1-day PHI), leaf petiole vegetables (1-day PHI), leafy vegetables (1-day PHI), tuber and corm vegetables (14-day PHI), pome fruit (14-day PHI), stone fruit (7-day PHI), grapes (3-day PHI). From Nichino America. Registered since August 2018.
- **Ethos-3D** contains bifenthrin (the same AI as in Brigade; IRAC group 3A) as the insecticidal component, and *Bacillus amyloliquefaciens* as the fungicidal component. For use on sweet corn for application at-planting for control of corn rootworm larvae, Asiatic garden beetle, wireworms, grubs, seedcorn maggot, cutworms, and armyworms. From FMC. Registered since 2018.

Products with registration expanded to additional crops or modified uses:

- **Harvanta 50SL** (cyclaniliprole, IRAC group 28). Now allowed on potatoes and tuber/corm veg and strawberries, for control of caterpillars, potato beetle, Japanese beetle. Since October 2019. From Summit Agro.
- **Closer SC** and **Transform WG** (sulfoxaflor, IRAC group 4C). Use on cucurbits and strawberries is allowed once again, after having been cancelled in 2016. Controls aphids, whiteflies, plant bugs, and suppresses thrips. Since July 2019. From Corteva.
- **Magister SC Miticide** (fenazaquin, IRAC group 21A, the same group that contains Nexter, Portal, Torac, Apta). Has been registered for use on cherries and hops, but since April 2019 is registered for use on cucurbits, fruiting vegetables, legumes, pome fruit, stone fruit, blueberries, caneberries, strawberries, grapes. Controls spider mites and rust mites, and some insects (psyllids and whiteflies), as well as powdery mildew on some crops. Kills mite eggs by contact; kills mite adults and immatures by contact and ingestion. For fungicidal activity, it is in FRAC group 39. Highly toxic to bees, so care must be taken to not spray it on blooming crops or weeds. From Gowan Company.
- **Torac SC** (tolfenpyrad, in IRAC group 21A). Since March 2019, new crops on the new Torac label are onions and other bulb vegetables. Torac controls thrips, aphids, leafhoppers, flea beetles, and some caterpillars. From Nichino America.
- **Apta SC** (tolfenpyrad, in IRAC group 21A). Since February 2019, new crops on supplemental labels are strawberry and other low growing berries, raspberries and other caneberries, and blueberries and other bushberries. At the lower end of its rate range, Apta controls leafhoppers and aphids. At higher rates, it controls thrips, Lygus (tarnished plant bug), plum curculio, apple maggot, pear psylla, pear rust mite and other eriophyid mites, and leafrollers and some other caterpillars, and it suppresses spotted-wing Drosophila, codling moth, and stink bugs. From Nichino America.
- **Versys** 'Inscalis' Insecticide; **0.83 DC** (dispersible concentrate) with the active ingredient afidopyropen; IRAC group 9D, and the only current member of that group. Versys is one of several products with the common name of 'Inscalis'. For knockdown and residual control of aphids. On the initial label in October 2018, the target pests were only aphids, as controlled at a low rate of product. A newer label includes control of whiteflies at a higher rate of product. It is allowed on cabbage and other Brassica crops, celery and related crops, lettuces and other leafy crops, pome fruit and stone fruit. From BASF.
- **Exirel** (cyantraniliprole, in IRAC group 28) is now allowed on raspberries and other caneberries, as shown on a supplemental label from November 2018. Use on caneberries is with a 1-day pre-harvest interval, for control of spotted-wing Drosophila and adult root weevils. Exirel is now from FMC, not from DuPont.
- **Movento** (spirotetramat, IRAC group 23, same group as Envidor and Oberon) is allowed for use on blueberries, as specified on a supplemental label since June 2017. For control of aphids, thrips larvae, and gall midge, and suppression of blueberry maggot and leafhoppers. From Bayer.

Insect pests of recent concern:

- **spotted lanternfly**: not yet found in Ohio, but causing problems in eastern PA in grapes, hops, and tree fruit.
- **spotted wing drosophila**: on raspberries, blackberries, blueberries. Small worms in ripening fruit.
- **brown marmorated stink bug**: on peach, apple, raspberry, sweet corn, pepper, tomato.
- **western bean cutworm**: on sweet corn. Similar to corn earworm but with many worms per ear.
- **eastern flower thrips**: on strawberries and on high-tunnel peppers.
- **corn earworm (= tomato fruitworm)**: extra early and extra abundant in 2019; pyrethroids losing efficacy.