

Critical Updates for the 2017 Mid-Atlantic Vegetable Recommendations Guide 01/09/17

Entomology

1. EPA cancelled all registrations of the insecticide **Flubendiamide** (found in the products Belt and Vetica for use in the U.S. due to potential toxicity concerns for certain aquatic organisms).
2. Label change for the insecticide/miticide abamectin: Agri-Mek SC label contains revised use instructions and restrictions as well as new labeled crops (**including dry and succulent beans, soybeans and sweet corn**). Be sure to read the label before making an application for use rates and all restrictions including, but not limited to adjuvant requirement that must be followed to avoid illegal residues. NOTE – this is the only labeled formulation of abamectin available for use on dry and succulent beans, soybeans and sweet corn for spider mite control <http://www.cdms.net/ldat/ld9NLO20.pdf>
3. Allium leafminer: New serious pest of onions and garlic in the mid-Atlantic region.

Allium leafminer (*Phytomyza gymnostoma*) is an invasive species first confirmed in southeastern Pennsylvania in 2016. Information is at <http://ento.psu.edu/extension/vegetables/pest-alert-allium-leafminer> and <http://www.agriculture.pa.gov/Protect/PlantIndustry/Pages/ALLIUM-LEAFMINER.aspx>. Adults appear to be active in the spring (March-May) and fall (October-November). Management includes row covers or insecticides during the time of adult activity. Although efficacy trials have not been conducted, the following insecticides labeled for leafminers that may be effective against allium leafminer. Labeled crops noted with days to harvest (DTH)

Crop subgroups with listed crops taken from labels and also found at <http://ir4.rutgers.edu/other/CropGroup.htm>

Trigard (cyromazine): for leafminers *Not for use in Nassau and Suffolk Counties, NY*

Bulb Vegetables crop group (7 DTH)

Some of the crops in this group are: garlic, great-headed (elephant) garlic, leek, dry bulb onion, green onion, potato onion, tree onion, Welsh onion, rakkyo, and shallot.

Scorpion (dinotefuran): for leafminers and others *Not for use in NY State*

Onion, bulb and green (subgroups 3-07A and 3-07B) (1 DTH)

Bulb onion, includes: Daylily, bulb; Fritillaria, bulb; Garlic, bulb; Garlic, Great-headed, bulb; Garlic, serpent, bulb; Lily, bulb; Onion, bulb; Onion, Chinese, bulb; Onion; pearl Onion; potato, bulb; Shallot, bulb; Cultivars, varieties and/or, hybrids of these

Green onion, includes:

Chive, fresh leaves; Chive, Chinese, fresh leaves; Elegans hosta; Fritillaria leaves; Kurrat; Leady's leek; Leek; Leek, wild; Onion, Beltsville bunching; Onion, fresh; Onion, green; Onion, macrostem; Onion, tree, tops; Onion, Welsh tops; Shallot, fresh leaves; Cultivars, varieties and/or hybrids of these

Radiant SC (spinetoram): for dipteran leafminers and others

Bulb Vegetables (Crop Group 3) (1 DTH)

Bulb vegetables: bulb onion, garlic, great-headed (elephant) garlic, green onion, leek, shallot, Welsh onion

Herbs (Subgroup 19A) (1 DTH)

Includes: chive, chive (Chinese)

Mustang, Mustang Maxx (and OLF) (zeta-cypermethrin): for leafminers (adults)

Bulb Vegetables (Allium spp.) (7 day PHI)

Including: Garlic; Garlic, Great-Headed (elephant); Green Eschalots; Japanese Bunching Onions; Leeks; Onion, Dry Bulb and Green; Onion, Welch; Shallots, Dry Bulb and Green; Spring Onion or Scallions

Warrior II (and OLF) (lambda-cyhalothrin): for leafminer species (adults)

Onion (bulb) and Garlic (14 DTH)

For Organic Growers

Aza-Direct (and OLF) (azadirachtin): for leafminers

verify label crops and uses – some variation among products and some may not be organic-compatible

Bulb Vegetables (0 DTH)

Such as: Garlic, Leek, Onion (dry bulb, green and Welch), Shallot

Entrust SC (spinosad): organic-compatible, for dipteran leafminers and others

Bulb Vegetables (Crop Group 3) (1 DTH)

Bulb vegetables: dry bulb onion, garlic, great-headed (elephant) garlic, green onion, leek, shallot, welch onion

Herbs (Subgroup 19A) (Insect Suppression) (1 DTH)

Includes: chive, chive (Chinese)

*Products not specifically labeled for *Phytomyza gymnostoma* but may be effective*

Agri-Mek SC (or OLF) (abamectin): for *Liriomyza* leafminers and thrips. Include adjuvant per label

Herb Crop Subgroup (Crop Subgroup 19A) (7 DTH)

Including Chives, Chives (Chinese)

Onion, Bulb (Crop Subgroup 3-07A) (30 DTH)

Crops in this group are: onion, bulb including daylily, bulb; fritillaria, bulb; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; lily, bulb; onion, Chinese, bulb; onion, pearl; onion, potato, bulb; shallot, bulb; cultivars, varieties, and/or hybrids of these.

Exirel (cyantraniliprole): for Leafminer (*Liriomyza* spp.) and thrips. Include adjuvant per label

Bulb Vegetables, (EPA Crop Group 3-07) (1 DTH)

Chive, fresh leaves; Chive, Chinese, fresh leaves; Daylily, bulb (edible);

Elegans hosta (edible); Fritillaria, leaves (edible);

Garlic, bulb; Garlic, great headed, bulb; Garlic, serpent, bulb;

Kurrat; Lady's leek; Leek; Leek, wild; Lily, bulb; Onion, Beltsville bunching; Onion, bulb; Onion, Chinese, bulb;

Onion, fresh; Onion, green; Onion, macrostem; Onion, pearl; Onion, potato, bulb; Onion, tree, tops; Onion,

Welsh, tops; Shallot, bulb; Shallot, fresh leaves

Assail (acetamiprid): for thrips

Onions and other Bulb Vegetables, (EPA Crop Group 3-07) (7 DTH)

Chive, fresh leaves; Chive, Chinese, fresh leaves; Daylily, bulb;

Elegans hosta; Fritillaria, leaves and bulbs;

Garlic, bulb; Garlic, great headed, bulb; Garlic, serpent, bulb;

Kurrat; Lady's leek; Leek; Leek, wild; Lily, bulb; Onion, Beltsville bunching; Onion, bulb; Onion, Chinese, bulb;

Onion, fresh; Onion, green; Onion, macrostem; Onion, pearl; Onion, potato, bulb; Onion, tree, tops; Onion,

Welsh, tops; Shallot, bulb; Shallot, fresh leaves

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Weed Management

Cole Crops

Reflex	24c registrations also include Virginia. See label for rates, instructions and restrictions
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Cucumbers

Sandea	Pre-harvest interval has been reduced 14 days (24c registration; expires 5/31/2018)
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Lettuce

Kerb	Label has been expanded to include leaf lettuce as well as head lettuce.
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Pepper

Reflex	24c registrations also include Virginia. See label for rates, instructions and restrictions
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Sweet Corn

- Recently labeled herbicides include:

Herbicide	Comments
Acuron	Pre-packaged mixture of Dual, atrazine, Callisto, and bicyclopyrone. Applications can be made pre-plant or preemergence. Broad spectrum control
Acuron Flexi	Similar to Acuron, but without atrazine
Armezon Pro	Pre-packaged mixture of Armezon plus Outlook for postemergence applications. Outlook may provide additional residual control for grasses and some small-seeded broadleaf weeds
Verdict	Pre-packaged mixture of Outlook and Sharpen. Applications can be made pre-plant or preemergence.

Watermelon

Reflex	24c registrations also include Virginia. See label for rates, instructions and restrictions
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Changes to Labels Affecting Crop Rotations:

Reflex has new crop rotation planting restrictions for the following crops:

Lima bean: 4 months instead of 10 months

Pumpkin: 10 months instead of 18 months

Cucumber: 12 months instead of 18 months

Transplanted pepper/tomato: 10 months instead of 18 months

Direct seeded pepper/tomato: 12 months instead of 18 months

Squash: 12 months instead of 18 months

Flexstar and Flexstar GT have new crop rotation planting restrictions for the following crops:

Lima bean: 4 months instead of 12 months

Squash : 12 months instead of 18 months

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Pathology

Presidio (fluopicolide, 43) is not labelled for use in potato.

SoilGard (*Trichoderma virens*) and Double Nickel (*Bacillus amyloliquefaciens* strain D747) are labelled for use on greenhouse transplants.

Orondis Opti (oxathiapiprolin + chlorothalonil, U15 + M5) is now labeled for use on multiple crops for fungal leaf spots and downy mildew control.

Orondis Ultra (oxathiapiprolin + mandipropamid, U15 + 40) is now labeled for use on multiple crops for downy mildew and Phytophthora blight control

Orondis Gold (oxathiapiprolin + mefenoxam, U15 + 4) is now labeled for use on multiple crops for damping-off and Phytophthora blight control.

SEE LABEL FOR SPECIFIC CROPS AND USE RATES