







VEGETABLES

# Product Use Overview



| Brassica, Bulb Crops, Cucurbits, Fruiting Vegetables, Leafy & Lettuce Vegetables, Root Vegetables |

|  | Product   | Key Problems / Uses  | Product Benefits and Use Recommendations  |
|--|---|--|---|
| Insecticides                           | <b>Asana® XL Insecticide</b>  | Aphids, beetles, borers, grasshoppers, whiteflies, worms   | Long-lasting, unique cottonseed oil formulation for proven, outstanding control on a broad spectrum of pests. Labeled rate range: 2.9–9.6 fl oz/A. REI: 12 hours. PHI: see label.<br><b>Asana XL is a restricted use pesticide.</b>   |
|  | <b>Azera® Insecticide</b>   | Aphids, beetles, loopers, mealybugs, mites, oriental fruit flies, thrips, weevils, whiteflies, worms   | Controls insects by quick knock down, ingestion and insect growth regulation activity. Apply when target pest(s) populations are observed. Labeled rate range: 16–56 oz/A. REI: 12 hours. PHI: 0 days.                                 |
|  | <b>Belay® Insecticide</b>   | Aphids, beetles, plant bugs (including lygus), stink bugs, weevils   | Long-lasting, fast-acting control of a broad spectrum of pests. Apply when target pest(s) populations are observed. Labeled rate range: 3–4 fl oz/A. REI: 12 hours. PHI: 7 days (1 day for peppers).  |
|  | <b>Danitol® 2.4 EC Spray</b>  | Aphids, beetles, stink bugs, thrips, two-spotted spider mite (except California), worms  | Quick knock down, broad spectrum control of insects that won't flare mites. Labeled rate range: 10 <sup>2</sup> / <sub>3</sub> –16 fl oz/A. REI: 24 hours. PHI: see label.<br><b>Danitol is a restricted use pesticide.</b>   |
|  | <b>DiPel® DF Biological Insecticide</b>   | Armyworm, hornworm, Lepidopteran (worm) pests, leafrollers, loopers  | Environmentally friendly control of lepidopteran (worm) pests. Apply when insects are hatching or small. Labeled rate range: 0.5–2 lb/A. REI: 4 hours. PHI: 0 days.   |
|  | <b>Esteem® Ant Bait</b>   | Ants   | Effective, long-lasting control of fire ants and other ants. Apply 1.5–2 lb/A in the early spring or summer at the first sign of ant activity. REI: 12 hours. PHI: 24 hours.  |
|  | <b>EverGreen® Crop Protection EC 60-6</b>   | Aphids, armyworms, beetles, grasshoppers, leafhoppers, loopers, lygus, psyllids, thrips  | Controls more than 100 different insects throughout the entire season including right up until harvest. An ideal pre-harvest cleanup spray since it provides fast knock down and control with minimal field re-entry time. Labeled rate range: 2–16 fl oz/A. REI: 12 hours.   |
|  | <b>Knack® Insect Growth Regulator</b>   | Whiteflies (banded wing, greenhouse, silverleaf, sweet potato)   | Long-lasting whitefly control; easy on beneficial insects. Labeled rate range: 8–10 fl oz/A. REI: 12 hours. PHI: see label.   |
|  | <b>PyGanic® Crop Protection EC 1.4/5.0</b>  | Aphids, leafhoppers, mites, squash bugs, stink bugs, thrips, whiteflies  | Controls a broad spectrum of insects. <i>PyGanic</i> 1.4 labeled rate range: 16–64 fl oz/A. <i>PyGanic</i> 5.0 labeled rate range: 4.5–17 fl oz/A. REI: 12 hours. PHI: 0 days.   |
|  | <b>Tersus® Insecticide</b>  | Aphids, katydids, leafhoppers, squash bugs, thrips, whiteflies   | Controls a broad spectrum of insects. A good choice for field cleanup right before harvest. Labeled rate range: 4.5–17 fl oz/A. REI: 12 hours. PHI: 0 days.   |
|  | <b>Venom® Insecticide</b>   | Flea beetles, leafhoppers, leafminers, thrips, whiteflies  | Super-systemic insecticide for quick, long-lasting control of tough pests. Labeled rate for soil: 6 oz/A. REI: 12 hours. PHI: 21 days.  |
| <b>XenTari® Biological Insecticide</b> | Armyworm, beet armyworm, diamondback moth larvae  | Highly selective, effective control of armyworm and diamondback moth. Labeled rate range: 1–2 lb/A. REI: 4 hours. PHI: 0 days.  |   |
| Fungicide/<br>Insecticide              | <b>Leap® ES Bacterial Disease Management Biological Insecticide Emulsifiable Suspension</b> | Bacterial spot, Lepidoptera larvae (worms)   | Get protection of bacterial spot with a non-copper-based mode of action and worm control with <i>Leap</i> . Apply before the disease appears. Reapply every 5–10 days during the season up to 8 applications—up to the day of harvest. Labeled rate range: 0.5–2 qt/A (1 qt for typical use). REI: 12 hours. PHI: 0 days. |



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|------------------------|--|--|---|
| Fungicides             | <b>Actinovate® AG Biological Fungicide</b>           | Alternaria*, anthracnose*, bacterial spot/speck*, black rot/spot*, Botrytis, damping-off, downy mildew*, early blight*, Fusarium, late blight*, Phytophthora, powdery mildew, purple blotch*, Pythium, Rhizoctonia, Sclerotinia*, Verticillium*<br>*Except California. | <i>Actinovate</i> AG is a biological fungicide/bactericide for use in suppressing a broad range of soilborne and foliar diseases in cucurbits, fruiting and leafy vegetables, brassicas, asparagus, mushrooms, and bulb and root vegetables. Contains <i>Streptomyces lydicus</i> strain WYEC 108, a beneficial bacterium with multiple modes of action.<br>Labeled rate range: 3–12 oz/A.<br>REI: 1 hour. PHI: 0 days. |
|                        | <b>Elumin™ Fungicide</b>                             | Cucurbit downy mildew, pepper Phytophthora blight  | <i>Elumin</i> is a new oomycete fungicide that adds effectiveness to your rotational spray programs so that you maximize crop quality and marketable yield.<br>Labeled rate: 8 fl oz/A. REI: 12 hours. PHI: 2 days.   |
|                        | <b>Presidio® Fungicide</b>                           | Damping off, downy mildew, Phytophthora root, crown and fruit rots   | <i>Presidio</i> is targeted chemistry with a unique mode of action for fungicide rotation programs and is highly systemic for effective control of a broad spectrum of soilborne and foliar diseases.<br>Labeled rate range: 3–4 fl oz/A. Consult label for specific crop rates. REI: 12 hours. PHI: 2 days.  |
| Herbicide              | <b>Select Max® Herbicide with Inside Technology™</b> | Annual and perennial grasses   | Postemergence grass control with excellent crop safety.<br>For annual grasses, use 9–16 fl oz/A. For perennial grasses, use 12–16 fl oz/A. Do not apply more than 64 fl oz/A per season.<br>For repeat applications, make on a minimum of a 14-day interval.<br>REI: 24 hours. PHI: see label.  |
| Nematicide             | <b>DiTera® DF Biological Nematicide</b>              | Nematodes  | Stops nematode feeding and enhances soil microbes.<br>Labeled broadcast rate range: 0.31–2.4 lb/A 1,000 sq ft (13.5–104.5 lb/A). Apply after harvest and at spring root flush for best results.<br>REI: 4 hours.  |
| Plant Growth Regulator | <b>ProGibb® LV Plus Plant Growth Regulator</b>       | Improves fruit set and reduces fruit drop  | Active ingredient in <i>ProGibb</i> , gibberilic acid, is a natural plant growth regulator found in most plants that promotes the growth and development of flowers, fruits, leaves and stems<br>See product label for rates and timings by variety.<br>REI: 4 hours.   |
| Soil / Plant Health    | <b>MycosApply™ EndoMaxx</b>                          | Delivers root mass expansion, nutrient efficiency and water acquisition  | Vegetable transplants—applied as a preplant tray drench or at-plant in transplant water, 4–12 grams/A.<br>Seeded vegetables—apply in-furrow or as a banded spray, 4–6 grams/A.<br><b><i>MycosApply EndoMaxx</i> is not for use on brassica crops.</b>   |



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**Always read and follow label instructions.**

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***Actinovate, Azera, DiPel DF, DiTera DF, MycoApply EndoMaxx, PyGanic, ProGibb, and XenTari* are OMRI listed and NOP compliant for organic production.**

***Asana XL* and *Danitol* are restricted use pesticides.**

