



# Product Use Overview



| U.S. (excluding California) |

	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Insecticides	<b>Asana® XL Insecticide</b>		Aphids, codling moth, leafrollers, oriental fruit moth, plant bugs, pear psylla, tufted apple bud moth and more	Long-lasting, unique formulation for outstanding control of a broad spectrum of pests. Labeled rate range: 4.8–14.5 fl oz/A. Labeled rate range for pear psylla in dormant pears: 9.6–19.2 fl oz/A. REI: 12 hours. PHI: 21–28 days. <b>Asana XL is a restricted use pesticide.</b>
	<b>Belay® Insecticide</b>		Aphids, apple maggot, codling moth (first generation), plant bugs, plum curculio, stink bugs, scale	Broad spectrum control of yield-robbing pests. Apply when target pest(s) threshold populations are observed. This product must not be applied during bloom or when bees are foraging. Labeled rate range: 4–6 fl oz/A. REI: 12 hours. PHI: 7 days.
	<b>Danitol® 2.4 EC Spray</b>		Leafhoppers, spotted wing drosophila, stink bugs (excluding brown)	Quick knock down, broad spectrum control of insects that won't flare mites. Labeled rate range: 10 $\frac{2}{3}$ –21 $\frac{1}{3}$ fl oz/A. REI: 24 hours. PHI: 14 days. <b>Danitol is a restricted use pesticide.</b>
	<b>DiPel® DF Biological Insecticide Dry Flowable†</b>	X	Lepidopteran pests including leafrollers, oriental fruit moth and codling moth programs	Outstanding control of a broad spectrum of Lepidopteran pests. Scout orchards and apply when insects are hatching or small. Labeled rate range: 0.5–2 lb/A. REI: 4 hours. PHI: 0 days.
	<b>Esteem® 35 WP Insect Growth Regulator</b>		First generation codling moth (ovicide), pear psylla, rosy apple aphid, leafminers, leafrollers, San Jose scale	Effective and long-lasting control early-season pest management. Labeled rate range: 4–5 oz/A. REI: 12 hours. PHI: 45 days.
	<b>EverGreen® Crop Protection EC 60-6</b>		Aphids, codling moth, leafhoppers, lygus, pear psylla, thrips, worms	An ideal pre-harvest cleanup spray because it provides fast knock down and control with minimal field re-entry time. Labeled rate range: 2–12.6 fl oz/A. REI: 12 hours. PHI: 0 days.
	<b>Pyganic® Crop Protection EC 1.4<sub>II</sub> / 5.0<sub>II</sub>†</b>	X	Aphids, apple maggot, beetles, codling moth, leafhoppers, leafrollers, pear psylla, lygus, mites, stink bugs, thrips	Controls a broad spectrum of insects. <i>Pyganic</i> EC 1.4 <sub>II</sub> : 16–64 fl oz/A. <i>Pyganic</i> EC 5.0 <sub>II</sub> : 4.5–15.61 fl oz/A. REI: 12 hours. PHI: 0 days.
	<b>Senstar® Insecticide</b>		Aphids (woolly apple aphid), lecanium scale, pear psylla, San Jose scale	With two effective modes of action, <i>Senstar</i> provides long-lasting control of soft-bodied insects at all life stages, including eggs and crawlers. Labeled rate range: 12–18 fl oz/A. REI: 24 hours. PHI: 45 days.
	<b>XenTari® Biological Insecticide Dry Flowable†</b>	X	Lepidopteran pests including leafrollers, oriental fruit moth and codling moth programs	Environmentally friendly and effective control of Lepidopteran (worm) pests. Scout orchards and apply when insects are hatching or small. Labeled rate range: 0.5–2 lb/A. REI: 4 hours. PHI: 0 days.
	<b>Zeal® Miticide<sup>1</sup></b>		European red mite, McDaniel spider mite, Pacific spider mite, two-spotted spider mite	Long-lasting control. Translaminar activity reaches mites where they hide, under the leaf. Affects all life stages of mites, including eggs. Labeled rate range: 2–3 oz/A. REI: 12 hours. PHI: 14 days.
Herbicides	<b>Chateau® EZ Herbicide</b>		More than 90 tough broadleaf and annual grass weeds, including filaree, fleabane, mallow, marestail, pigweed	Long-lasting control. Easy-to-use liquid formulation. Labeled rate range: 6–12 fl oz/A. A maximum rate of 6 fl oz/A per application should be used on any soil that has a sand plus gravel content over 80% if trees are under 3 years of age. REI: 12 hours. PHI: 60 days. <b>Refer to label for restrictions in Washington.</b>
	<b>Select Max® Herbicide with Inside Technology™</b>		For control of many of annual and perennial grass weeds	Superior postemergence control of annual and perennial grasses. Labeled rate range: 9–16 fl oz/A for annual; 12–16 fl oz for perennial. REI: 24 hours. PHI: 14 days. Directed application on weeds; do not apply over trees. Do not apply to root stock nursery trees.



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Fungicide	<b>Excalia® Fungicide</b>		Apple scab, cedar apple rust, powdery mildew, quince rust	Provides early-season protection from apple scab and powdery mildew to shield apples from the start. Labeled rate range: 3–4 fl oz/A. REI: 12 hours. PHI: Do not apply after petal fall.
Plant Growth Regulators	<b>Accede® SG Plant Growth Regulator Soluble Granule</b>		Expands the thinning window, allowing for late-season chemical thinning and effective crop load management	<i>Accede SG</i> is most effective when king fruitlet diameter is 15 to 20 mm. Labeled rate range: 200 to 400 ppm (equivalent to 6.7 to 13.4 ounces of product in 100 gallons of water per acre). REI: 12 hours. PHI: 0 days.
	<b>MaxCel® Plant Growth Regulator Solution</b>		Increases fruit size, reduces hand thinning costs, improves packout and net returns by shifting apples/pears to larger box sizes, increases branching	<i>MaxCel</i> is for use in post-bloom sizing and thinning programs—even difficult-to-size varieties such as Gala, Fuji and Empire, plus Bartlett and Bosc pears. For increased branching foliar applications: 8–16 fl oz/5 gallons of spray solution. Latex applications: 1.2–4 fl oz/pint of solution. For thinning applications: 48–128 fl oz/100 gallons of spray solution. REI: 12 hours. PHI: 86 days.
	<b>PoMaxa® Plant Growth Regulator</b>		For thinning, sizing and harvest management programs	<i>PoMaxa</i> is for use in PGR programs with <i>MaxCel</i> and <i>Accede SG</i> for thinning and sizing. Labeled rate range for apples: 0.5–4 fl oz/100 gallons. Labeled rate range for pears: 2–8 fl oz/100 gallons. REI: 48 hours. PHI: 2 days.
	<b>Promalin® Plant Growth Regulator Solution</b>		Maximizes fruit typiness, quality, size, packout, frost recovery, branching	Labeled rate range for improved typiness, size and fruit set increase after frost: 0.5–2 pt/A. For increased branching foliar applications: 0.25–1 pt/5 gallons of spray solution. Latex applications: 0.2–0.33 pt (3.2–5.3 fl oz) per pint of solution. REI: 4 hours. PHI: 0 days.
	<b>ProTone® SG Plant Growth Regulator Soluble Granule†</b>	X	For early-season thinning to selectively remove fruitlet to increase size and quality of retained fruit; defoliation for nutrient remobilization	Labeled rate range: 6.6–33.1 oz/A for apple and pear thinning, and 16.5–66.1 oz/A for defoliation. Use higher rates in well cross-pollinated orchards or varieties that have a history of being difficult to thin. REI: 4 hours. PHI: 0 days.
	<b>ProVide® 10 SG Plant Growth Regulator Soluble Granule</b>	X	For russet control, plus improved quality, finish and appearance of apples, increases fruit pedicel length	Helps increase fruit size in apples and can also be used to reduce fruit cracking. Labeled rate for russet control: 4 applications of 3.5 oz/A in 100 gallons/application. Labeled rate range for fruit cracking suppression: 3 to 6 applications of 1.8–3.5 oz/A in 50 gallons/half acre; and for fruit pedicel elongation: 17.5–35 oz/A in 100 gallons/A. REI: 4 hours. PHI: 0 days.
	<b>ReTain® Plant Growth Regulator Soluble Powder</b>		Enhances set, optimizes maturity and quality before harvest, harvest management, helps maintain quality in storage	<i>ReTain</i> is the foundation for a harvest management and post-harvest quality program in apples. Now labeled for up to 2 applications prior to harvest for maximum quality and storage potential of the fruit. Labeled rate range: 1–2 pouches/A. REI: 12 hours. PHI: 7 days.

Pyganic® Crop Protection EC 1.4<sub>II</sub> and Pyganic® Crop Protection EC 5.0<sub>II</sub> are OMRI Listed under MGK for organic production.



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†*DiPel® DF Biological Insecticide Dry Flowable, ProTone® SG Plant Growth Regulator Soluble Granule, ProVide® 10 SG Plant Growth Regulator Soluble Granule, Pyganic® Crop Protection EC 1.4<sub>II</sub>, Pyganic® Crop Protection EC 5.0<sub>II</sub> and XenTari® Biological Insecticide Dry Flowable* are NOP compliant and OMRI Listed for organic production.

*Asana XL and Danitol* are restricted use pesticides.



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