



Product Use Overview



| U.S. (excluding California) |

	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Fungicide	Excalia® Fungicide		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.
Herbicides	Chateau® EZ Herbicide		More than 90 tough broadleaf and annual grass weeds, including filaree, fleabane, mallow, marehail, 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. Refer to label for restrictions in Washington.
	Select Max® Herbicide with Inside Technology™		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.
Insecticides	Asana® XL Insecticide		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. Asana is a restricted use pesticide.
	Belay® Insecticide		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.
	Danitol® 2.4 EC Spray		Leafhoppers, spotted wing drosophila, stink bugs (excluding brown)	Quick knock down, broad spectrum control of insects that won't flare mites. Labeled rate range: 10⅔–21⅓ fl oz/A. REI: 24 hours. PHI: 14 days. Danitol is a restricted use pesticide.
	DiPel® DF Biological Insecticide Dry Flowable†	X	Lepidoptera pests including leafrollers, oriental fruit moth and codling moth programs	Outstanding control of a broad spectrum of Lepidoptera 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.
	Esteem® 35 WP Insect Growth Regulator		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.
	EverGreen® Crop Protection EC 60-6		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.
	Pyganic® Crop Protection EC 1.4 _{II} / 5.0 _{II} †	X	Aphids, apple maggot, beetles, codling moth, leafhoppers, leafrollers, pear psylla, lygus, mites, stink bugs, thrips	Controls a broad spectrum of insects. For improved resistance management, consider rotating Pyganic with Debug® brands, a combination of neem oil and azadirachtin. For more information on Debug brands, visit mgk.com. Pyganic 1.4 _{II} : 16–64 fl oz/A. Pyganic 5.0 _{II} : 4.5–15.61 fl oz/A. REI: 12 hours. PHI: 0 days.
	Senstar® Insecticide		Aphids (woolly apple aphid), lecanium scale, pear psylla, San Jose scale	With two effective modes of action, Senstar 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.
	XenTari® Biological Insecticide Dry Flowable†	X	Lepidoptera 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.
	Zeal® Miticide ¹		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.
Pre-harvest Coatings	Raynox® Organic II Sunburn Protectant†	X	Prevents sunburn browning, no visible residue	Protects apples from sun damage by forming a thin, clear, natural wax layer that blocks damaging UV rays from harming fruit. Labeled rate: 3 gallons/A in 50 gallons per acre (single side of row treated) or 100 gallons per acre (both sides of row treated). REI: 0 hours. PHI: 0 days.
	Raynox® Prime Sunburn Protectant		Prevents sunburn browning, no visible residue	Protects apples from sun damage by forming a thin, clear, natural wax layer that blocks damaging UV rays from harming fruit. Labeled rate: 2.5 gallons/A. REI: 0 hours. PHI: 0 days.



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Plant Growth Regulators	Accede® SG Plant Growth Regulator Soluble Granule		Expands the thinning window, allowing for late-season chemical thinning and effective crop load management, and increases return bloom	Accede SG 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.
	Amid-Thin® W Plant Growth Regulator		Optimize fruit size and quality in apples/pears by thinning the fruit set	Sensitivity varies considerably by variety. Labeled rate range for apples: 4–8 oz/100 gallons per acre. Labeled rate range for pears: 1.6–8 oz/100 gallons per acre. REI: 48 hours. PHI: 2 days.
	Fruitone® L Plant Growth Regulator		Effective and convenient thinning, return bloom enhancement, pre-harvest drop control	Thinning varies considerably by variety. Tree response to <i>Fruitone</i> L applications varies greatly based on the type of variety (follow labeled instructions before use). REI: 48 hours. PHI: 2 days. <i>Fruitone</i> L labels vary by state. Please check labels carefully.
	K-Salt® Fruit Fix® 800 Plant Growth Regulator		Effective and convenient pre-harvest drop control	Labeled rate range for apples: 4–8 fl oz/A. Labeled rate range for pears: 2–4 fl oz/A. REI: 48 hours. PHI: 2 days.
	MaxCel® Plant Growth Regulator Solution		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.
	PoMaxa® Plant Growth Regulator		For thinning, sizing and harvest management programs	<i>PoMaxa</i> is for use in PGR programs with <i>MaxCel</i> and <i>Accede</i> SG 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.
	Promalin® Plant Growth Regulator Solution		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.
	ProTone® SG Plant Growth Regulator Soluble Granule†	X	For early-season fruit thinning to selectively remove fruitlet from the tree in order 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.
	ProVide® 10 SG Plant Growth Regulator Soluble Granule	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.
	ReTain® Plant Growth Regulator Soluble Powder		Enhances set, optimizes maturity and quality before harvest, 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_{II} and Pyganic® Crop Protection EC 5.0_{II} are OMRI Listed under MGK for organic production. Raynox® Organic II Sunburn Protectant is OMRI Listed under Pace International LLC 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_{II}, *Pyganic*® Crop Protection EC 5.0_{II}, *Raynox*® Organic II Sunburn Protectant 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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