



Product Use Overview



	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Insecticides	Asana® XL Insecticide		Hickory shuckworm, pecan aphids, pecan nut casebearer, pecan leaf phylloxera, pecan spittlebug, pecan stem phylloxera, pecan weevil	Long-lasting, unique formulation for outstanding control of a broad spectrum of pests. Labeled rate range: 4.8–14.5 fl oz/A. REI: 12 hours. PHI: 21 days. Asana XL is a restricted use pesticide.
	Belay® Insecticide		Aphids, hickory shuckworm, leafhoppers, lygus, mealybugs, pecan nut casebearer, pecan weevils, scales, stinkbugs, whiteflies (suppression)	Long-lasting, fast-acting control of a broad spectrum of pests. Apply at or before target pest(s) threshold populations are observed. Do not wait until population beyond threshold has been established. Choose lower rate for light infestation and/or small trees and the higher rate for heavy infestation and/or larger trees. <i>Belay</i> can be tank mixed with ProGibb® 40% PGR or ProGibb® LV Plus PGR for control of black pecan aphid. Labeled rate range: 3–6 fl oz/A. REI: 12 hours. PHI: 21 days.
	Danitol® 2.4 EC Spray		Green fruitworm, leafroller, pecan nut casebearer, pecan weevil, shuckworm, stink bug (excluding brown)	Quick knock down of broad spectrum of insects, including leafrollers, stinkbugs and fruitworms. Labeled rate range: 5½ –21½ fl oz/A. REI: 24 hours. PHI: 3 days. Danitol is a restricted use pesticide.
	DiPel® DF Biological Insecticide Dry Flowable†	X	Lepidopteran larvae (worms)	No impact to pollinators or beneficials with high selectivity to Lepidopteran (caterpillar and 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.
	Esteem® 0.86 EC Insect Growth Regulator		Black scale, brown soft scale, codling moth, dusky veined aphid, Italian scale, lecanium scale, peach twig borer (suppression), San Jose scale, walnut aphid, walnut scale	Effective on the toughest pests, such as San Jose scale and codling moths. Soft on beneficial insects, bees and the environment. Labeled rate range 13–16 fl oz/A. REI: 12 hours. PHI: 21 days.
	Esteem® 35 WP Insect Growth Regulator		Black scale, codling moth, dusky veined aphid, peach twig borer (suppression), San Jose scale, walnut aphid, walnut scale	Effective on the toughest pests, such as San Jose scale and codling moths. Soft on beneficial insects, bees and the environment. Labeled rate range 4–5 oz/A. REI: 12 hours. PHI: 21 days. Esteem 35 WP is not labeled for use in California.
	Esteem® Ant Bait		Big-headed ant, imported fire ant, native fire ant, pavement ant, red imported fire ant, Southern (California) fire ant	Effective, long-term control of fire ants and other protein-feeding ants. Labeled rate range: 1.5–2 lb/A. REI: 12 hours. PHI: 24 hours.
	EverGreen® Crop Protection EC 60-6		Aphids, leafhoppers, lygus, thrips	Controls more than 100 insects 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: 2–12.6 fl oz/A. REI: 12 hours. PHI: 0 days.
	Pyganic® Crop Protection EC 1.4_{II} / 5.0_{II}†	X	Aphids, leafhoppers, leafrollers, lygus, mites, thrips, whiteflies	Controls a broad spectrum of insects. For improved resistance management, consider rotating <i>Pyganic</i> with <i>Debug</i> ® brands, a combination of neem oil and azadirachtin. For more information on <i>Debug</i> brands, visit valent.com/debug . <i>Pyganic</i> 1.4 _{II} labeled rate range: 16–64 fl oz/A. <i>Pyganic</i> 5.0 _{II} labeled rate range: 4.5–15.61 fl oz/A. REI: 12 hours. PHI: 0 days.
	Senstar® Insecticide		Aphids, mealybugs, Phylloxera, San Jose scale, walnut scale, whiteflies	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: 21 days.
	XenTari® Biological Insecticide Dry Flowable†	X	Lepidopteran larvae (worms)	Proven and effective Lepidoptera control without harming beneficials. Target when larvae are young (early instars) before crop is damaged. Labeled rate range: 0.5–2 lb/A. REI: 4 hours. PHI: 0 days.
	Zeal® Miticide†		European red mite, Pacific spider mite, two-spotted spider mite	Long-lasting mite control with translaminar activity. <i>Zeal</i> is a mite growth regulator that affects all mite life stages, including eggs. Labeled rate range: 2–3 oz/A. REI: 12 hours. PHI: 28 days.



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Fungicide	Quash® Fungicide		Scab	Helps deliver on optimal yields and quality with proven, disease control. Begin applications when leaves reach one-half mature size. Continue to make scab applications if scab model predicts need. Do not make more than two sequential applications after petal fall before switching to a non-Group 3 fungicide. Do not make more than four applications per year. Labeled rate range: 2.5–3.5 oz/A. REI: 12 hours. PHI: 25 days.
	Chateau® EZ Herbicide		More than 90 tough broadleaf and annual grass weeds, including chickweeds, filaree, fleabane, Florida beggarweed, Italian ryegrass, mallow, marestail, pigweeds	Chateau EZ is a more convenient, easy-to use liquid formulation. Proven, broad spectrum, long-lasting preemergence herbicide. Farm-friendly and weather-ready. Chateau EZ stays where you put it; won't leach or co-distillate; no photo-degradation; remains active until ¼-inch rainfall or irrigation releases its activity. Labeled rate range: 6–12 fl oz/A. REI: 12 hours. PHI: 60 days.
Herbicides	Select Max® Herbicide with Inside Technology™		Annual and perennial grasses	Postemergence grass control with excellent crop safety. For annual grasses, use 9–32* fl oz/A. For perennial grasses, use 12–32* fl oz/A. Do not apply more than 128* fl oz/A per season. For repeat applications make on a minimum of a 14-day interval. Do not apply more than 16 fl oz/A in a single application to non-bearing food crops. REI: 24 hours. PHI: N/A. *In California and Arizona the maximum rate is 16 fl oz/A (64 fl oz/A per season).
	ProGibb® 40% Plant Growth Regulator Water Soluble Granule†	X	To extend leaf retention and maintain green foliage	Make 1–4 applications of 0.9 oz/A beginning in July and continuously through October as needed. Use sufficient water to achieve complete coverage. In most cases 100 gal/A has been shown to be effective. Do not make more than one application in July. Using more than one application in July may result in reduced return bloom. ProGibb 40% may be tank mixed with Belay. Labeled rate: 0.9 oz/A. REI: 4 hours. PHI: 0 days. ProGibb 40% is not labeled for use in Arizona, California and New Mexico on pecans.
Plant Growth Regulators	ProGibb® LV Plus Plant Growth Regulator†	X	To extend leaf retention, maintain green foliage and a healthy canopy, which significantly reduces the ability of black pecan aphids to cause feeding damage	Make 1–4 applications of 5 fl oz/A beginning in July and continuously through October as needed. Use sufficient water to achieve complete coverage. In most cases 100 gal/A has been shown to be effective. Do not make more than one application in July. Using more than one application in July may result in reduced return bloom. ProGibb LV Plus may be tank mixed with Belay. Labeled rate: 5 fl oz/A. REI: 4 hours. PHI: 0 days. ProGibb LV Plus is not labeled for use in Arizona and California on pecans.

Pyganic® Crop Protection EC 1.4_{II} and Pyganic® Crop Protection EC 5.0_{II} are OMRI Listed under MGK for organic production.



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†DiPel® DF Biological Insecticide Dry Flowable, ProGibb® 40% Plant Growth Regulator Water Soluble Granule, ProGibb® LV Plus Plant Growth Regulator Solution, Pyganic® Crop Protection EC 1.4_{II}, Pyganic® Crop Protection EC 5.0_{II} 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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