



Product Use Overview



	Product	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 is a restricted use pesticide.
	Azera® Insecticide	Aphids, beetles, loopers, mealybugs, mites, oriental fruit flies, pecan nut casebearers, thrips, pecan weevils, whiteflies, worms	Controls insects by quick knock down, ingestion and insect growth regulation. Apply when target pest(s) populations are observed. Labeled rate range: 16–56 oz/A. REI: 12 hours. PHI: 0 days. 
	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® LV Plus 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: 5 $\frac{1}{3}$ –21 $\frac{1}{3}$ fl oz/A. REI: 24 hours. PHI: 3 days. Danitol is a restricted use pesticide.
	DiPel® DF Biological Insecticide Dry Flowable	Lepidoptera larvae (worms)	Environmentally friendly and effective control of Lepidoptera larvae (worms). 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 (not for use in California)	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 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, pear psylla, 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. PHI: 0 days.
	PyGanic® Crop Protection EC 1.4_{II} / 5.0_{II}	Aphids, leafhoppers, leafrollers, lygus, mites, pear psylla, thrips, whiteflies	Controls a broad spectrum of insects. <i>PyGanic</i> 1.4 _{II} labeled rate range: 16–64 fl oz/A. <i>PyGanic</i> 5.0 _{II} labeled rate range: 4.5–17 fl oz/A. REI: 12 hours. PHI: 0 days. 
	XenTari® Biological Insecticide Dry Flowable	Armyworms, cankerworms*, codling moth*, cutworms*, fall webworm*, leafrollers*, gypsy moth*, oriental fruit moth*, caterpillars*, tufted apple bud moth*, twig borer*, walnut caterpillar* *Except California	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® Miticide¹	European red mite, Pacific spider mite, two-spotted spider mite	Long-lasting mite control with translaminar activity. One application per year. <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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Fungicides	Actinovate® AG Biological Fungicide	Anthrachnose (except California), powdery mildew	<i>Actinovate</i> AG is a biological fungicide/bactericide for use in suppressing a broad range of soilborne and foliar diseases. Contains <i>Streptomyces lydicus</i> strain WYEC 108, a beneficial bacterium with multiple modes of action. Labeled rate range 3–12 oz/A. REI: 1 hour. PHI: 0 days.
	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. Labeled rate range: 2.5–3.5 oz/A. REI: 12 hours. PHI: 25 days.
Herbicides	Chateau® Herbicide SW	More than 90 tough broadleaf and annual grass weeds, including chickweeds, filaree, fleabane, Florida beggarweed, Italian ryegrass, mallow, marestail, pigweeds	Proven, broad spectrum, long-lasting preemergence herbicide. Farm-friendly and weather-ready. <i>Chateau</i> 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 oz/A. REI: 12 hours. PHI: 60 days.
	Select Max® Herbicide with Inside Technology™	Annual and perennial grasses	Postemergence grass control with excellent crop safety (non-bearing). 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. 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.
Nematicide	DiTera® DF Biological Nematicide Dry Flowable	Nematodes	Stops nematode feeding and enhances soil microbes. Labeled 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. REI: 4 hours. PHI: 0 days.
Plant Growth Regulator	ProGibb® LV Plus Plant Growth Regulator (not for use in Arizona, California and New Mexico)	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. <i>ProGibb</i> LV Plus may be tank mixed with <i>Belay</i> . Labeled rate: 5 fl oz/A. REI: 4 hours. PHI: 0 days.



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Asana and Danitol are restricted use pesticides.

