



# Product Use Overview



| California |

	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Insecticides	<b>Asana® XL Insecticide</b>		Green fruitworm, leafhoppers, leafrollers, oriental fruit moth, peach twig borer, plant bugs (including tarnished plant bug and stink bugs)	Dormant treatment provides the best start for early-season pest control in orchards. Offers extended control with unique cottonseed oil formulation for proven, rainfast protection. Labeled rate range: 4.8–14.5 fl oz/A. REI: 12 hours. PHI: 14 days after application. <b>Asana XL is a restricted use pesticide.</b>
	<b>Belay® Insecticide (for peaches only)</b>		Aphids, leafhoppers, lygus/plant bugs, plum curculio, stink bugs	Refer to the DPR's restrictions on neonicotinoid usage in stone fruit crops. No soil applications. Labeled rate range: 3–6 fl oz/A (0.05–0.1 lb AI/A). Maximum is 6 fl oz/A (0.1 lb AI/A) per year. REI: 12 hours. PHI: 21 days.
	<b>Danitol® 2.4 EC Spray</b>		Fruitworms, leafrollers, mites, navel orangeworm, orange tortrix, oriental fruit moth, peach twig borer, spotted wing drosophila, stink bugs (excluding brown)	Controls many commonly occurring insect pests including mites. Apply at threshold by airblast at a water volume that can ensure complete coverage. Labeled rate range: 10 <sup>2/3</sup> –21 <sup>1/3</sup> fl oz/A. REI: 24 hours. PHI: 3 days. <b>Danitol is a restricted use pesticide.</b>
	<b>DiPel® DF Biological Insecticide Dry Flowable†</b>	X	Lepidoptera pests, including fall webworm, omnivorous leafroller, peach twig borer, rehdumped caterpillar, tent caterpillar	Labeled rate range: 0.5–2 lb/A. For peach twig borer, apply when 20–40% of over-wintering larvae have emerged. Apply again at 80–100% emergence. Use in combination or rotation with other insecticide chemistries for superior control. REI: 4 hours. PHI: 0 days.
	<b>Esteem® 0.86 EC Insect Growth Regulator</b>		San Jose scale, lecanium scale, peach twig borer (suppression), oriental fruit moth (suppression)	<i>Esteem</i> 0.86 EC works by affecting all life stages by inhibiting the development of early stages and disrupting the reproduction cycle by sterilizing adults. Use with spray oil at dormant, delayed-dormant timings. Labeled rate range: 13–16 fl oz/A. Do not apply earlier than 14 days after the last <i>Esteem</i> 0.86 EC treatment. Do not make more than three applications per growing season. Do not exceed 48 fl oz/A per season. REI: 12 hours. PHI: 14 days.
	<b>Esteem® Ant Bait</b>		Ants (pavement, fire ant)	Apply 1.5–2 lb/A in the early spring or summer at the first sign of ant activity. <i>Esteem Ant Bait</i> can also be applied following harvest to provide additional management of protein-feeding ants. REI: 12 hours. PHI: 24 hours.
	<b>Pyganic® Crop Protection EC 1.4<sub>II</sub> / 5.0<sub>II</sub>†</b>	X	Aphids, leafhoppers, stink bugs	Apply when target pest(s) threshold populations are observed. For improved resistance management, consider rotating <i>Pyganic</i> with Debug® brands, a combination of neem oil and azadirachtin. For more information on Debug brands, visit mgk.com. Labeled rate range: <i>Pyganic</i> 1.4 <sub>II</sub> : 16–64 fl oz/A. Use 32 fl oz/A for most situations, adjust rate as needed for control. <i>Pyganic</i> 5.0 <sub>II</sub> : 4.5–15.61 fl oz/A. Use 9 fl oz/A for most situations, adjust rate as needed for control. Maximum 10 applications per season. REI: 12 hours. PHI: 0 days.
	<b>Senstar® Insecticide</b>		Aphids, mealybugs, 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: 14 days.
	<b>XenTari® Biological Insecticide Dry Flowable†</b>	X	Armyworms	Treat when larvae are young (early instars) before crop is damaged. Labeled rate range: 0.5–2 lb/A. REI: 4 hours. PHI: 0 days.
	<b>Zeal® MVP Miticide</b>		Two-spotted spider mite, Pacific spider mite, European red mite	Long-lasting mite control with translaminar activity. <i>Zeal MVP</i> is a mite growth regulator that affects all mite life stages, including eggs. Best results are achieved when mite populations are building up and below, or at, threshold. One application per season. Labeled rate range: 23–34.6 fl oz/A. REI: 12 hours. PHI: 7 days.



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Fungicide	<b>Quash® Fungicide</b>		Blossom blight, brown rot, cherry leaf spot, fruit rots, powdery mildew, rust, scab, shot hole	For cherry leaf spot, labeled rate 4 oz/A. In cherries, apricots, nectarines and peaches for fruit brown rot, labeled rate range 2.5–4 oz/A; green fruit rot/ jacket rot suppression, labeled rate range 2.5–3.5 oz/A; brown rot blossom blight 2.5–3.5 oz/A; powdery mildew 3.5–4 oz/A. In apricots, nectarines and peaches for shot hole and scab, labeled rate range 2.5–3.5 oz/A. In apricots, nectarines, peaches and plums for rust, labeled rate 3.5 oz/A. Maximum rate of 12 oz/A per year. For rust, maximum rate of 10.5 oz/A per year. REI: 12 hours. PHI: 14 days.
	<b>Chateau® EZ Herbicide</b>		Winter annuals, fleabane, marehail and more than 90 tough broadleaf and grass weeds	Long-lasting, preemergence herbicide. Stops weeds, won't leach or co-distillate. Labeled rate range: 6–12 fl oz/A. Maximum 24 fl oz/A per year. Use with a burndown herbicide if emerged weeds are present. Make applications as a uniform band directed at the base of the trunk (berm spray). Length of residual weed control is rate-dependent. Be sure to clean out sprayer thoroughly after each use. REI: 12 hours. PHI: 60 days. <b>Refer to label for restrictions in California.</b>
Herbicides	<b>Select Max® Herbicide with Inside Technology™</b>		Annual grasses, perennial grasses	Superior postemergence for systemic grass control with outstanding crop safety. Lower volatile organic compound (VOC) formulation than other clethodim formulations. For annual grasses, use 9–16 fl oz/A. For perennial grasses, use 12–16 fl oz/A. Adjuvant recommendation: NIS 0.25% v/v. REI: 24 hours. PHI: 14 days.
Plant Growth Regulators	<b>Accede® Plant Growth Regulator Liquid Concentrate</b>		Reduce fruit set and hand thinning on peaches/nectarines	Accede can be applied from the pink bud stage to petal fall. Make the first application from early to full bloom. If necessary, a second application may be made 7 to 10 days later (up to petal fall). Labeled rate range: 300–600 ppm (equivalent to 34.5–69 fl oz of product in 100 gallons of water per acre). REI: 12 hours. PHI: 0 days.
	<b>ProGibb® LV Plus Plant Growth Regulator Solution† (for sweet cherries)</b>	X	Produce larger, brighter-colored, firmer fruit	Apply 1–2 applications starting when fruit is translucent-green to straw-colored. Use maximum of 8–24 fl oz/A per season, depending on variety and crop size. REI: 4 hours. No PHI is required.
	<b>ProGibb® LV Plus† (for stone fruit, except cherries)</b>	X	Maintain fruit firmness	Labeled rate range: 8–16 fl oz/A using a single spray one to four weeks prior to the beginning of harvest. REI: 4 hours. No PHI is required.
	<b>ReTain® Plant Growth Regulator for California (for cherries)</b>		Increase fruit set	ReTain extends flower viability, increasing the opportunity for fruit set to occur. Apply 1 pouch (333 grams)/A during bloom. REI: 12 hours. PHI: 7 days.
	<b>ReTain® PGR for California (for stone fruit, except cherries)</b>		Increase fruit size, maintain firmness, harvest management, reduce fruit drop and enhance storage potential	ReTain gives you more flexibility and control over orchards by extending the harvest window and improving stone fruit quality. ReTain is proven to reduce pre-harvest fruit drop so yield doesn't fall to the ground giving more time to pick higher-quality fruit. Apply 1 pouch (333 grams)/A 1–2 weeks prior to anticipated beginning of normal harvest. 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, ProGibb® LV Plus Plant Growth Regulator Solution, 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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