



# Product Use Overview



BLUEBERRIES

	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Insecticides	Asana <sup>®</sup> XL Insecticide		Aphids (New Jersey only), blueberry maggot, cherry fruitworm (aids in control), grasshoppers, Japanese beetle, leafhoppers	Excellent control of foliar pests on multiple crops. Unique cottonseed oil formulation for rainfast protection. UV stability for extended action that results in outstanding pest control. Labeled rate range: 4.8–9.6 fl oz/A. REI: 12 hours. PHI: 14 days. <b>Asana is not labeled for use in California on blueberries.</b> <b>Asana is a restricted use pesticide.</b>
	Danitol <sup>®</sup> 2.4 EC Spray		Blueberry maggot, cherry fruitworm, cranberry fruitworm, European red mite, Japanese beetle, obliquebanded leafroller, plum curculio, stink bug (except brown), two-spotted spider mite	Quick knock down of a broad spectrum of insects. Proven not to flare mites. Labeled rate range: 10 $\frac{2}{3}$ –16 oz/A. Use 16 oz/A where insect pressure is high. Make applications beginning when first pest activity is noticed and repeat as needed, but not more often than every 14 days. REI: 24 hours. PHI: 3 days. <b>Danitol is a restricted use pesticide.</b>
	DiPel <sup>®</sup> DF Biological Insecticide Dry Flowable <sup>†</sup>	X	Lepidopteran pests, including armyworms, cutworms, leafrollers and more	No impact to pollinators or beneficials with high selectivity to Lepidopteran (caterpillar and worm) pests. Scout and apply when larvae are hatching or small larvae are starting to move on the foliage and/or fruit. Labeled rate range: 0.5–2 lb/A. REI: 4 hours. PHI: 0 days.
	Esteem <sup>®</sup> Ant Bait		Big-headed ant, imported fire ant, native fire ant, pavement ant, red imported fire ant, Southern (California) fire ant	For long-lasting control of protein-feeding ants. Apply in the early spring or summer at the first sign of ant activity. Labeled rate range: 1.5–2.0 lb/A. REI: 12 hours. PHI: 24 hours.
	EverGreen <sup>®</sup> Crop Protection EC 60-6		Ants, aphids, fruit flies, Japanese beetle, leafhoppers, leafrollers, stink bugs, thrips	Ideal pre-harvest, cleanup spray. Fast knock down of more than 100 different insects. Labeled rate range: 2–12.6 fl oz/A. REI: 12 hours. PHI: 0 days.
	Exponent <sup>®</sup> Insecticide Synergist		For use as a synergist in a tank mix to aid in improving the control of insects	Increases the speed of control and level of control of tank mix partners. Enhances the efficacy of pyrethrins, pyrethroids and other classes of insecticides. Raises the level of control by increasing insect susceptibility to insecticides and acaricides. Labeled rate range: See label for rates with appropriate insecticide. REI: 12 hours. PHI: Use insecticide mix partner PHI.
	Knack <sup>®</sup> Insect Growth Regulator		Cherry fruitworm, cranberry fruitworm, lecanium scale	Long residual; keeps populations from exploding. Soft chemistry—easy on beneficial insects. Translaminar activity; reaches pests where they feed. Labeled rate: 16 fl oz/A. REI: 12 hours. PHI: 7 days.
	Pyganic <sup>®</sup> Crop Protection EC 1.4 <sub>II</sub> / 5.0 <sub>II</sub> <sup>†</sup>	X	Aphids, fruit flies, Japanese beetle, leafhoppers, leafrollers, stink bugs, thrips, weevils	Apply when target pest(s) populations are observed. For improved resistance management, consider rotating <i>Pyganic</i> with <i>Debug</i> <sup>®</sup> brands, a combination of neem oil and azadirachtin. For more information on <i>Debug</i> brands, visit <a href="http://valent.com/debug">valent.com/debug</a> . <i>Pyganic</i> 1.4 <sub>II</sub> : 16–64 fl oz/A. Use 32 fl oz/A for most situations, adjust rate 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.
	Senstar <sup>®</sup> Insecticide		Aphids, blueberry gall midge, cranberry tipworm, blueberry maggot, fruitworms, lecanium 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: 16–20 fl oz/A. REI: 24 hours. PHI: 7 day. <b>Senstar is not labeled for use in California on blueberries.</b>
	XenTari <sup>®</sup> Biological Insecticide Dry Flowable <sup>†</sup>	X	Lepidopteran pests, including armyworms, cutworms*, leafrollers* and more *Except California	Proven and effective Lepidoptera control without harming beneficials. 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.



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Fungicide	<b>Quash® Fungicide</b>		Alternaria leaf spot, Anthracnose fruit rot, Botryosphaeria stem canker, Botrytis blight and fruit rot, leaf rust, mummy berry, Phomopsis canker, powdery mildew, Septoria leaf spot	<i>Quash</i> stops mummy berry and more, and offers preventive disease control. Apply when conditions favor disease development and prior to infection. Continue applications on a 7- to 14-day interval. Labeled rate: 2.5 oz/A. Do not make more than 3 applications per year. Do not apply more than 7.5 oz/A per year. Do not make more than 2 sequential applications before switching to a non-Group 3 fungicide for resistance management. REI: 12 hours. PHI: 7 days.
Herbicides	<b>Chateau® EZ Herbicide</b>		More than 90 broadleaf weeds and grasses, including annual sowthistle, chickweed, shepherd's-purse and many other tough weeds	Proven, broad spectrum, long-lasting preemergence herbicide in a more convenient, easy-to-use liquid formulation. Farm-friendly and weather-ready. <i>Chateau</i> EZ stays where you put it; won't leach or co-distillate; no photodegradation; remains active until ¼-inch rainfall or irrigation releases its activity. For best results, apply before weeds emerge in the fall. Labeled rate range: 6–12 fl oz/A. REI: 12 hours. PHI: 7 days. <b>See label for use restrictions in the Pacific Northwest.</b>
	<b>Select Max® Herbicide with Inside Technology™</b>		Annual and perennial grasses	Superior postemergence for systemic grass control with outstanding crop safety. For annual grasses, use 9–16 fl oz/A. For perennial grasses, use 12–16 fl oz/A. REI: 24 hours. PHI: 14 days (highbush). PHI: 45 days (lowbush).
Plant Growth Regulators	<b>ProGibb® 40% Plant Growth Regulator Water Soluble Granule†</b>	X	To improve fruit set	Potential to overcome fruit set problems caused by insufficient pollination, adverse weather conditions or due to other physiological factors. Labeled rate range: 3.6–7.2 oz/A. REI: 4 hours. PHI: 0 days. <b>ProGibb 40% is not labeled for use in California on blueberries.</b>
	<b>ProGibb® LV Plus Plant Growth Regulator Solution†</b>	X	To improve fruit set	Potential to overcome fruit set problems caused by insufficient pollination, adverse weather conditions or due to other physiological factors. Labeled rate range: 20–40 fl oz/A. REI: 4 hours. PHI: 0 days. <b>ProGibb is not labeled for use in California on blueberries.</b>

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® 40% Plant Growth Regulator Solution, 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 OMRI listed and NOP compliant for organic production. Asana XL and Danitol are restricted use pesticides.**



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