



# Product Use Overview



| U.S. (excluding Arizona & California) |

	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Insecticides	<b>Asana® XL Insecticide</b>		Bollworms, cutworms, grasshoppers, stink bugs, tobacco budworm	Labeled rate range: 5.8–9.6 fl oz/A. Can be applied by ground or air. REI: 12 hours. PHI: 21 days. <b>Asana XL is a restricted use pesticide.</b>
	<b>Belay® Insecticide</b>		Aphids, flea beetles, plant bugs, stink bugs	Labeled rate range: 3–5 fl oz/A. Do not make application after pinhead square formation. Can be applied by ground or air. REI: 12 hours. PHI: pinhead square formation.
	<b>Danitol® 2.4 EC Spray</b>		Plant bugs, stink bugs (excluding brown), two-spotted spider mite	Labeled rate range: 10⅔–16 fl oz/A. Can add a NIS or tank mix with other insecticides for improved pest control or broader pest spectrum. Can be applied by ground or air. REI: 24 hours. PHI: 21 days. <b>Danitol is a restricted use pesticide.</b>
	<b>DiPel® DF Biological Insecticide Dry Flowable†</b>	X	Lepidopteran pests, including armyworms, bollworm, tobacco budworm	Labeled rate range: 0.5–2 lb/A. Apply when insects are hatching or small. Can be used on organic, non-Bt cotton production. Can be applied by ground or air. REI: 4 hours. PHI: 0 days.
	<b>DiPel® ES Biological Insecticide Emulsifiable Suspension</b>		Lepidopteran pests, including armyworms, bollworm, tobacco budworm	Labeled rate range: 1–6 pt/A. Liquid formulation for conventional cotton. Can be applied by ground or air. REI: 4 hours. PHI: 0 days.
	<b>Knack® Insect Growth Regulator</b>		Whiteflies	Labeled rate range: 8–10 fl oz/A. Special Local Needs 24(c) for Alabama, Georgia and South Carolina: 5 fl oz/A followed by 5 fl oz/A in vegetative cotton. Can be applied by ground or air. REI: 12 hours. PHI: 28 days.
	<b>Venom® Insecticide</b>		Cotton aphids, leafhoppers, plant bugs, thrips, whiteflies	Labeled rate range: 1–3 oz/A. Repeat as needed to maintain control, but not more often than every 7 days. Cannot apply more than 6 oz/A in a season. Can be applied by ground or air. REI: 12 hours. PHI: 28 days.
	<b>XenTari® Biological Insecticide Dry Flowable†</b>	X	Lepidopteran pests, including armyworms and others	Labeled rate range: ½–2 lb/A. Apply when larvae are young prior to crop damage, when larvae are actively feeding. REI: 4 hours. PHI: 0 days.
Plant Growth Regulator	<b>Zeal® SC Miticide</b>		Carmine spider mite, Pacific spider mite, two-spotted spider mite	<b>Zeal SC</b> features a uniquely optimized formulation that can provide reduction in the number of adults and nymphs faster than other formulations. In addition, this unique formulation allows for etoxazole to be moved into the mites by contact more efficiently. Labeled rate range: 7.66–11.5 fl oz/A. Maximum application is 1 per season. Can be applied by ground or air. REI: 12 hours. PHI: 28 days.
	<b>ProGibb® LV Plus Plant Growth Regulator†</b>	X	Promote growth and increase seedling vigor	<b>Young Cotton Plants</b> Labeled rate range: 0.5–3 fl oz/A. In-furrow application to seed or as a foliar application from the cotyledon leaf stage through the 7th leaf/node stage. Maximum of 3 applications. <b>Cotton</b> Labeled rate range: 0.5–4 fl oz/A. Apply 1 to 2 applications as a foliar broadcast spray during the 3 to 7 leaf/node stage. If applying as a banded spray, reduce rates accordingly. Can be tank mixed with herbicides. If applied alone, add NIS or COC. Can be applied by ground or air. REI: 4 hours. PHI: 0 days.



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Herbicides	Cobra® Herbicide		Morningglories, Palmer amaranth, pigweeds	Labeled rate: 12.5 fl oz/A. Apply as a post-directed or layby application and in a tank mix with MSMA or other labeled herbicides. For post-directed applications use either a NIS or COC. For layby applications use a COC. REI: 12 hours. PHI: 70 days.
	Fierce® EZ Herbicide		<u>Layby/Post-Directed</u> Grasses, Palmer amaranth, pigweeds	Labeled rate: 6 fl oz/A. Apply when cotton has reached 16 inches in height and direct spray to the lower 2 inches of cotton stem. Use hooded application equipment if cotton is less than 16 inches. Add an agronomically-approved, nonionic surfactant to the spray mixture. Do not use a MSO, COC or organosilicone adjuvant. REI: 12 hours. PHI: 60 days.
	Resource® Herbicide		Cotton defoliant	Labeled rate range: 4–8 fl oz/A. Use a NIS, MSO or COC depending on weather and cotton growth conditions. Consult your sales rep for specific adjuvant recommendations. Must add boll opener products for complete harvest aid treatment. Can be applied by ground or air. REI: 12 hours. PHI: 7 days.
	Select Max® Herbicide with Inside Technology™		Annual and perennial grasses	Labeled rate range for annual grasses: 9–16 fl oz/A. Labeled rate range for perennial grasses: 12–32 fl oz/A. Add NIS, COC or MSO for improved uptake. For repeat applications, allow at least 14 days between sprays. Can be applied by ground or air. REI: 24 hours. PHI: 60 days.
	Valor® EZ Herbicide <sup>2</sup> Valor® SX Herbicide		<u>Preplant Burndown</u> Broadleaf control, including Palmer amaranth, cutleaf eveningprimrose, wild radish/mustard	Labeled rate range: 2–4 oz/A for fall burndown, 1–2 oz/A for spring burndown. And no more than 2 oz/A per application and 4 oz/A per year. Apply in a tank mix with labeled herbicides for broad spectrum postemergence weed control plus added residual. Follow label or special labels (such as in Georgia) for plant-back timing to cotton. Add an agronomically-approved adjuvant as recommended by tank mix partner label. Can be applied by ground or air. REI: 12 hours. <b>Refer to the label for fall and spring application details.</b>
			<u>Layby/Post-Directed</u> Residual broadleaf weed control, including Palmer amaranth	Labeled rate range: 1–2 oz/A. Apply when cotton has reached 16 inches in height and direct spray to the lower 2 inches of cotton stem. Use hooded application equipment if cotton is less than 16 inches. Tank mix flexibility, including glyphosate or MSMA. Add an agronomically-approved, nonionic surfactant to the spray mixture. Do not use a MSO, COC or organosilicone adjuvant. REI: 12 hours. PHI: 60 days.



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<sup>1</sup>DiPel® DF Biological Insecticide Dry Flowable, ProGibb® LV Plus Plant Growth Regulator Solution 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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