



# Product Use Overview



	Product	Key Problems / Uses	Product Benefits and Use Recommendations
Insecticides	<b>Asana® XL Insecticide</b>	Bollworm, budworm, cutworms*, grasshoppers, stink bugs*, worms *Except California	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. Cannot make any 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**, spider mites*, stink bugs *Except California **Except Arizona	Labeled rate range: 10 <sup>2</sup> / <sub>3</sub> –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>	Lepidoptera pests, including armyworms, bollworm, 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>	Lepidoptera pests, including armyworms, bollworm, 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>	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>	Lepidoptera pests, including armyworms and others	Labeled rate range: ½–2 lb/A. Apply with larvae are young prior to crop damage, when larvae are actively feeding. REI: 4 hours. PHI: 0 days.
	<b>Zeal® Pro Miticide</b>	Spider mites	<i>Zeal Pro</i> 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 one per season. Can be applied by ground or air. REI: 12 hours. PHI: 28 days.
Plant Growth Regulator	<b>ProGibb® LV Plus Plant Growth Regulator</b>	Improved early-season plant vigor and growth	Labeled rate range: 0.5–3 fl oz/A. To promote growth and increase seedling vigor, apply up to 3 applications between cotyledon and 7th leaf/node stage. 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	<b>Cobra® Herbicide</b>	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.
	<b>Fierce® EZ Herbicide</b>	<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.
	<b>Resource® Herbicide</b>	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.
	<b>Select Max® Herbicide with Inside Technology™</b>	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.
	<b>Valor® EZ Herbicide<sup>2</sup> Valor® SX Herbicide</b>	<u>Preplant Burndown</u> Broadleaf control, including Palmer amaranth, cutleaf eveningprimrose, wild radish/mustard	Labeled rate range: 2–4 fl oz/A for fall burndown, 1–2 fl oz/A for spring burndown. And no more than 2 fl oz/A per application and 4 fl 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, nonionic surfactant to the spray mixture. Do not use a MSO, COC or organosilicone adjuvant. 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	<i>Valor</i> EZ labeled rate range: 1–2 fl oz/A. <i>Valor</i> SX 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. Can be applied by ground or air. REI: 12 hours. PHI: 60 days.



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**Always read and follow label instructions.**

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**DiPel DF, ProGibb and XenTari are NOP compliant and OMRI listed for organic production.** 

**Asana XL and Danitol are restricted use pesticides.**