



COTTON

# Product Use Overview



	Product	Key Problems / Uses	Use Recommendations
Insecticides	<b>Asana® XL Insecticide</b>	Bollworm/budworm, cutworms, grasshoppers, stink bugs, worms	Labeled rate range: 3.2–9.6 fl oz/A. Can also be applied aerially. fusarium 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 also be applied aerially. REI: 12 hours. PHI: pinhead square formation.
	<b>Danitol® 2.4 EC Spray</b>	Plant bugs, spider mites, stink bugs	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 also be applied aerially. REI: 24 hours. PHI: 21 days. <b>Danitol is a restricted use pesticide.</b>
	<b>DiPel® DF Biological Insecticide Dry Flowable</b>	Armyworms, bollworm/budworm, lepidopteran pests	Labeled rate range: 0.5–2 lb/A. Apply when insects are hatching or small. Can also be applied aerially. REI: 4 hours. PHI: 0 days.
	<b>DiPel® ES Biological Insecticide Emulsifiable Suspension</b>	Armyworms, bollworm/budworm, lepidopteran pests	Labeled rate range: 1–6 pt/A. Liquid formulation that can be used in tank mix with pyrethroids to improve overall worm control. Can also be applied aerially. REI: 4 hours. PHI: 0 days.
	<b>Knack® Insect Growth Regulator</b>	Silverleaf whitefly	Labeled rate range: 8–10 fl oz/A. Alabama, Georgia and South Carolina SLN label for a 5 fl oz/A rate x 5 fl oz/A spray with at least 14 days in between. Can also be applied aerially. REI: 12 hours. PHI: 28 days.
	<b>Venom® Insecticide</b>	Silverleaf whitefly	Labeled rate range: 1–3 oz/A. Repeat as needed to maintain control but not more than every 7 days. Cannot apply more than 6 oz/A in a season. Can also be applied aerially. REI: 12 hours. PHI: 14 days.
	<b>XenTari® Biological Insecticide Dry Flowable</b>	Armyworm and worm control	Labeled rate range: ½–2 lb/A. REI: 4 hours. PHI: 0 days.
	<b>Zeal® SC Miticide</b>	Spider mites	Labeled rate range: 1.33–2 fl oz/A. Maximum application is one per season. Can be applied by ground or air. REI: 12 hours. PHI: 28 days.
Fungicide	<b>Rizolex® Fungicide</b>	Fusarium, Rhizoctonia	Labeled rate: 1.5 fl oz/cwt of seed. REI: 12 hours.
Plant Growth Regulator	<b>ProGibb® LV Plus Plant Growth Regulator</b>	Improved early season plant vigor and growth, helps overcome stress from herbicides, insects and weather	Labeled rates: 1.6 fl oz/A broadcast (40 acres per ½-gallon jug) to increase plant growth and vigor following injury from contact herbicides or slight injury due to thrips or cold stress; 3 fl oz/A broadcast (20 acres per ½-gallon jug) to increase plant growth and vigor following injury from carryover, systemic herbicides or moderate to severe injury due to thrips or cold stress. Can be tank mixed with herbicides. If applied alone, add NIS or COC. Can also be applied aerially. 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 layby/post-directed application and in a tank mix with MSMA or other labeled herbicides. Always use an NIS or COC. Cotton should be at least 12 inches in height and have a bark layer developing. REI: 12 hours. PHI: 70 days.
	<b>Fierce® Herbicide</b>	Grasses, Palmer amaranth, pigweeds	Labeled rate: 3 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 also be applied aerially. 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 and/or AMS for improved uptake. For repeat applications, allow at least 14 days between sprays. Can also be applied aerially. REI: 24 hours. PHI: 60 days.
	<b>Valor® EZ Herbicide<sup>2</sup></b> <b>Valor® SX Herbicide</b>	<b>Preplant Burndown</b> Broadleaf control, including Palmer amaranth, cutleaf eveningprimrose, wild radish/mustard	<i>Valor</i> EZ labeled rate range: 1–3 fl oz/A, depending on plant-back. <i>Valor</i> SX labeled rate range: 1–3 oz/A, depending on plant-back. 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 also be applied aerially. REI: 12 hours. PHI: 60 days. <b>Refer to the label for fall and spring application details.</b>
		<b>Layby/Post-Directed</b> 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 also be applied aerially. REI: 12 hours. PHI: 60 days.
Soil / Plant Health Enhancements	<b>MycoApply® EndoPrime™</b>	Delivers root mass expansion, nutrient efficiency and water acquisition	Apply 4 grams/A as an in-furrow spray. Compatible with fertilizers, insecticides and most fungicides. Each 320-gram package treats 80 acres.
	<b>MycoApply® EndoPrime™ SC</b>		Apply 2 fl oz/A as an in-furrow spray.

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**Always read and follow label instructions.**

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