



## COTTON HERBICIDE SUGGESTIONS

Read and follow all label directions before product use.  
Products with Residual Control Highlighted in **Yellow**

Trade Name, Formulation, and Application Rate	Active Ingredient(s), Similar Products and MOA Group	Application Timing(s), EPP-early preplant, PPI-preplant incorporated, PRE-preemergence, or POST-postemergence	Special Instructions and Remarks
<b>2,4-D LV6</b> 5.6 lb ai per gallon  <b>All applications:</b> 2/3 – 2 2/3 pt /A  For broadleaf weeds only	Active Ingredients: 2,4-Dichlorophenoxyacetic Acid   MOA: 4	<b>EARLY PRE-PLANT. Apply at least 30 days prior to planting cotton for control of existing broadleaf weeds or potential for crop injury exists.</b> Tank-mix with glyphosate for additional control of grass species.	Coverage is essential for good control. Do not apply this product through any type of irrigation system. In order to maximize control of horseweed, apply before horseweed passes the rosette stage (prior to upright growth). A minimum of 1.0 lb ai/acre is recommended for optimum horseweed control.
<b>Aim 2 EC</b> 2.0 lb ai per gallon  <b>EPP to PRE:</b> Up to 2.0 oz/A <b>Hooded and Post (directed)</b> Up to 1.6 oz/A  For broadleaf weeds only	<b>Active Ingredients:</b> <b>Carfentrazone</b>  <b>Similar Products:</b> None  MOA: 14	<b>EARLY PRE-PLANT to PRE.</b> May be applied no later than one day after cotton planting.  <b>Hooded and Post (directed).</b> Cotton less than 12 inches in height requires closed hood applications in order to avoid any contact with cotton stem or foliage or potential for crop injury exists. For layby applications cotton must be at least 12 inches in height and have sufficient bark on stem to avoid contact with green stem tissue.	Aim provides absolutely no grass control therefore tankmixing with glyphosate is recommended when grasses are present.  <b>Hooded and Post (directed).</b> Do not apply when winds are above 10 mph or at application speeds above 5 mph. 10 GPA minimum spray volume. Include crop oil concentrate at 1% v/v. <b>Coverage is essential for good control.</b> When attempting to control volunteer cotton apply before volunteer reaches 5 leaf stage.
<b>Assure II</b> 0.88 lb ai per gallon  <b>POST applications:</b> 5-12 fl oz. /A  For grass weeds only	<b>Active Ingredients:</b> Quizalofop  <b>Similar Products:</b> None  MOA: 1	<b>POST.</b> Apply to young, actively growing grasses according to the rate chart listed on the label. If field is to be irrigated, apply product after irrigation. <b>Do not</b> apply more than 18 fl oz /A per season.	<b>Do not</b> apply this product through any type of irrigation system. <b>Do not</b> apply within 80 days of harvest. <b>Do not</b> feed forage or hay from treated areas.
<b>Caparol</b> 4 lb ai per gallon  <b>PRE applications:</b> 2.4 pt /A  For broadleaf and some grass weeds	<b>Active Ingredients:</b> Prometryn  <b>Similar Products:</b> None  MOA: 5	<b>PRE.</b> Apply at planting or shortly after planting (prior to cotton emergence) at the rate of 2.4 to 4.8 pt/A depending on soil type. See label for soil type and rate restrictions. <b>POST (layby).</b> Prevent spray from contacting green foliage or injury may occur. Use precision application equipment so the spray is accurately directed to the base of the cotton plants and still thoroughly covers soil and weeds beneath the cotton plants.	<b>Do not</b> feed treated forage to livestock, or graze treated areas, or illegal residues may result. <b>Do not</b> use on glandless cotton varieties, or crop injury will occur. <b>Do not</b> make more than one application per year. <b>POST-layby.</b> Cotton must be at least 12 inches tall. Rates vary from 1.6-3.2 pt/A depending on soil classification. See label for rate information according to soil type. Apply before weeds are two inches tall. May be tank-mixed with 2 lb ai/A MSMA at layby for morningglory control. When applying to emerged weeds, add 2 qt of surfactant per 100 gal of spray mixture.
<b>Clarity</b> 4 lb. ai per gallon  <b>EPP applications:</b> 8 fl oz /A  For broadleaf weeds only	<b>Active Ingredients:</b> Dicamba  <b>Similar Products:</b> Banvel Rates may vary due to formulation.  MOA: 4	<b>EARLY PREPLANT.</b> For best performance, apply when weeds are in the 2-4 leaf stage and rosettes are less than 2" in diameter. Following application and a minimum 1" of rainfall or overhead irrigation, a waiting interval of 21 days is required per 8 fluid ounces per acre or less. These intervals must be observed prior to planting cotton or potential for crop injury exists.	<b>Do not</b> apply through any type of irrigation equipment. <b>Do not</b> cultivate within 7 days after application. <b>For optimum control of horseweed apply a minimum of 8 oz/A to 2-4 leaf weeds or rosettes less than 2 inches across.</b> Consult label for cotton plant-back interval following application. Tank-mix with glyphosate for additional control of grass species.

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<p><b>Dual II Magnum</b> 7.64 lb ai per gallon</p> <p><b>All applications:</b> 1 to 1.33 pt /A</p> <p>For small-seeded broadleaf and annual grass weeds</p>	<p><b>Active Ingredients:</b> Metolachlor</p> <p><b>Similar Products:</b> Dual Magnum Cinch</p> <p><b>MOA:</b> 15</p>	<p><b>PPI.</b> Apply and incorporate into top 1 inch immediately before planting, at planting, or after planting, but before crop or weeds emerge.</p> <p><b>PRE.</b> Apply to soil surface at planting or after planting, but before weeds or crop emerges.</p> <p><b>POST.</b> Apply after cotton emergence but prior to weed emergence. Will not control weeds that have already emerged prior to application.</p> <p><b>All applications.</b> Apply at a rate of 1.0 pt/A on sandy loams, 1.0-1.33 pt/A on medium soil, or 1.33 pt/A on fine soils.</p>	<p><b>Do not</b> use on sands and loamy sand. <b>Do not</b> feed forage from treated areas to livestock.</p> <p><b>PPI.</b> PPI application is recommended if furrow irrigation is used or when a period of dry weather after application is expected. Crop should be planted below the level of incorporation; i.e., at least 1 inch on fine soils and 1.5 inches on coarse and medium soils.</p> <p><b>PRE. Do not</b> apply to areas where water is likely to pond over the bed. <b>Do not</b> make broadcast applications to crops planted in furrows more than 2 inches deep.</p>
<p><b>Fusilade DX</b> 2 lb ai per gallon</p> <p><b>POST applications:</b> 48 fl oz /A</p> <p>For grass weeds only</p>	<p><b>Active Ingredients:</b> Fluazifop</p> <p><b>Similar Products:</b> None</p> <p><b>MOA:</b> 1</p>	<p><b>POST.</b> Refer to label for weed specific application rates and timing. Thorough coverage of all grass foliage is important for good activity. Optimum control is achieved when young actively growing grasses are treated that are not under stress from moisture, temperature, low soil fertility, mechanical, or chemical stress. <b>Always</b> add either crop oil concentrate, nonionic surfactant, or other adjuvant.</p>	<p><b>Do not</b> apply to crop after boll set. <b>Do not</b> harvest within 90 days of application. <b>Do not</b> graze fields or harvest for forage or hay. <b>If applied through irrigation system,</b> apply only through sprinkler systems including center pivot, lateral move, end tow, side (wheel) roller, big gun, solid set, or hand move. <b>Do not</b> apply through any other type of irrigation system.</p>
<p><b>Fusion</b> 2.56 lb ai per gallon</p> <p><b>POST applications:</b> 6-12 fl oz /A</p> <p>For grass weeds only</p>	<p><b>Active Ingredients:</b> Fluazifop Fenoxaprop</p> <p><b>Similar Products:</b> None</p> <p><b>MOA:</b> 1 &amp; 1</p>	<p><b>POST.</b> Best control of susceptible grasses is obtained when applied to actively growing grasses before they exceed the recommended growth stages listed, refer to label for list of grasses and application rates for specific weeds and areas.</p>	<p><b>Do not</b> apply this product through any type of irrigation system. <b>Do not</b> apply if rainfall is expected within 1 hour. <b>Do not</b> apply more than 24 fluid ounces per acre per season. <b>Do not</b> apply after boll set. <b>Do not</b> harvest within 90 days of application. <b>Do not</b> graze fields or feed treated forage or hay to livestock.</p>
<p><b>Roundup Power Max</b> 5.5 lb ai per gallon</p> <p><b>All applications:</b> 22 to 32 oz /A</p> <p>Non-selective control of broadleaf and grass weeds</p>	<p><b>Active Ingredients:</b> Glyphosate</p> <p><b>Similar Products:</b> Many Rates may vary due to formulation.</p> <p><b>MOA:</b> 9</p>	<p><b>EARLY PREPLANT to PRE.</b> May be applied before, during or after planting crop.</p> <p><b>POST (conventional cotton).</b> May be applied through hooded sprayers, recirculating sprayers, shielded applicators or wiper applicators. Allow at least 7 days between application and harvest.</p> <p><b>POST over-the-top (Roundup Ready Flex or GlyTol cotton varieties).</b> Apply anytime from preemergence to 7 days prior to harvest. Late season applications may require directed applications to ensure proper weed coverage.</p>	<p><b>Do not</b> apply through any type of irrigation system. <b>Do not</b> apply more than 5.3 qt per acre per year. <b>Refer</b> to label for application rates for specific weed types. <b>Do not</b> apply postemergence to any crops other than those listed as Roundup Ready Flex or GlyTol. <b>Do not</b> apply to Roundup Ready Flex or GlyTol crops within 7 days of harvest. For horseweed control apply a tank-mix of 22 oz/A Roundup PowerMax + a minimum of 1.0 lb ai /A 2,4-D or 0.25 lb ai/A of Dicamba. <b>In order to maximize control, apply before horseweed passes the rosette stage .</b></p>

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<b>Gramoxone Inteon<sup>f</sup></b> 2 lb ai per gallon  <b>EPP to PRE applications:</b> 2.5 to 4 pt /A  Non-selective control of broadleaf and grass weeds	<b>Active Ingredients:</b> Paraquat  <b>Similar Products:</b> Firestorm (3 lb)  <b>MOA: 22</b>	<b>EARLY PREPLANT to PRE.</b> Apply prior to, during, or after planting, but before crop emergence. For fallow bed treatment, beds should be preformed to permit maximum broadleaf weed and grass emergence prior to treatment. Seeding should be done with minimum soil disturbance.	<b>Do not</b> apply this product through any type of irrigation system. <b>Always</b> add nonionic surfactant. Complete coverage is essential for good control.
<b>Liberty 280 (formerly Ignite)</b> 2.34 lb ai per gallon  <b>POST applications:</b> 22 to 29 fl oz /A  Non-selective control of broadleaf and grass weeds	<b>Active Ingredients:</b> Glufosinate-ammonium  <b>Similar Products:</b> None  <b>MOA: 10</b>	<b>EARLY PREPLANT to PRE.</b> Apply to actively growing weeds up to 120 prior to planting cotton. <b>POST over-the-top. Apply POST, over LibertyLink Cotton varieties only,</b> to actively growing weeds when the cotton has emerged and up to the cotton early bloom stage.	<b>Do not</b> apply more than 43 fl oz/A in a single application. <b>Do not</b> apply more than 87 fl oz/A in a growing season if 22-29 oz/A rates are used. <b>Do not</b> apply more than 72 oz/A in a growing season if first application of up to 30-43 oz/A is used. <b>Do not</b> apply within 70 days prior to harvest. Herbicide should be applied broadcast in a minimum of 15 gallons of water per acre. Use a spray volume of 20 to 40 gallons per acre for dense weed/crop canopies so that thorough spray coverage will be obtained.
<b>Karmex DF</b> 80% DF  <b>EPP applications:</b> See table  <b>PRE applications:</b> See table  <b>POST applications:</b> 1 to 1.5 lb /A  For small seeded broadleaf and annual grass weeds	<b>Active Ingredients:</b> Diuron  <b>Similar Products:</b> Direx 4L Direx 80 DF Diuron 4L Diuron 80 DF  <b>MOA: 7</b>	<b>EARLY PREPLANT.</b> Apply from 15 to 45 days prior to planting. If weeds are present the addition of a non-ionic surfactant is recommended. Weeds should be 2 inches or smaller. <b>PRE. Do not</b> apply to sand or loamy sand soils. Use only where crop is planted on flat or raised seedbeds (not planted in a furrow). Apply 1-2 lb/A according to labeled guidelines regarding soil texture. <b>POST-directed applications.</b> Apply 1 to 1.5 lb/A when crop is at least 12" high. In irrigated crops, best control is obtained if the field is irrigated within 3-4 days after application. Apply to soil beneath crop and between rows immediately after last cultivation.	<b>Do not</b> spray over the top of crop plants. <b>Do not</b> apply to sand or loamy sand soils. <b>Do not</b> use on soils with less than 1% organic matter as crop injury may result. <b>Do not</b> use in preplant or preemergence applications where soil-applied organophosphate insecticides are used due to potential for severe crop injury and possible stand loss. <b>Do not</b> allow livestock to graze treated cotton. <b>EPP &amp; PRE.</b> If less than the maximum rate is used, a second PRE application can be made, but total can not exceed maximum use rates listed on label. <b>Do not</b> apply PRE if maximum application rate was used in preplant application.

<b>Karmex DF Application Rates</b>		
Soil Texture	Rate/Acre	Rate/Acre/Season
Sandy loam, Loam, Silt loam, Silt	1 lb /A	1 lb /A
Sandy clay loam, Clay loam, Silty clay loam, Sandy clay	1.25 lb /A	1.25 lb /A
Silty clay, Clay	2 lb /A	2.75 lb /A

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<p><b>MSMA 6.6</b></p> <p>6.6 lb ai per gallon</p> <p><b>All applications:</b> 0.5 to 2.5 pt /A</p> <p>For broadleaf and grass weeds</p>	<p><b>Active Ingredients:</b> MSMA</p> <p><b>Similar Products:</b> MSMA 6 Plus 120 Herbicide 912 Herbicide</p> <p><b>MOA:</b> 17</p>	<p><b>EARLY PREPLANT.</b> Apply preplant or postplant up to cracking of soil before cotton emergence using ground or aircraft equipment. Apply at a rate of 2.5 pt/A of product with a suitable surfactant.</p> <p><b>POST (over-the-top).</b> Apply over the top when crop is 3 to 6 inches tall or up to early first square stage, apply at a rate of 1 to 1.25 pt/A with a suitable surfactant. <b>Will cause significant leaf burn of the crop.</b></p> <p><b>POST (Directed Spray).</b> Applicable as a directed spray with ground equipment when crop is 3 inches tall to first bloom, apply at a rate of 2.5 pt/A with a suitable surfactant.</p>	<p><b>Apply</b> over the top of crop only as a salvage operation; apply only to healthy, rapidly growing crops, 3 inches high but no later than 6 inches high.</p> <p><b>POST (Directed Spray).</b> <b>Do not</b> apply as a directed spray after the first bloom. A second or repeat application, if needed, should be timed about 1 to 3 weeks after first application.</p>
<p><b>Poast Plus</b></p> <p>1 lb ai per gallon</p> <p><b>POST applications:</b> 1.5 to 3.75 pt /A</p> <p>For grass weeds only</p>	<p><b>Active Ingredients:</b> Sethoxydim</p> <p><b>Similar Products:</b> Poast</p> <p><b><u>Rates may vary due to formulation.</u></b></p> <p><b>MOA:</b> 1</p>	<p><b>POST.</b> Applications can be made to actively growing weeds as aerial, broadcast, band, or spot spray applications. Most effective control is achieved if applied when weeds are small and actively growing.</p>	<p><b>Do not</b> apply this product through any type of irrigation system. <b>Do not</b> apply within 40 days of harvest. To achieve consistent weed control, always use either seed oil or crop oil concentrate. <b>Do not</b> cultivate within 5 days before or 7 days after application. <b>Processed</b> meal may be fed to animals.</p>

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<p><b>Prowl 3.3 EC</b> 3.3 lb ai per gallon</p> <p><b>All applications:</b> See table.</p> <p>For small seeded broadleaf and grass weeds</p>	<p><b>Active Ingredients:</b> Pendimethalin</p> <p><b>Similar Products:</b> Pendimax 3.3 Prowl H2O</p> <p><b>MOA: 3</b></p>	<p><b>EARLY PREPLANT.</b> Apply up to 15 days prior to planting.</p> <p><b>PPI.</b> Apply up to 60 days prior to planting and incorporate within 7 days of application; however, immediate incorporation is best.</p> <p><b>PRE.</b> Apply overlay application at planting or up to 2 days after planting. Total amount applied per acre cannot exceed the highest labeled rate for a given soil type.</p> <p><b>POST/LAYBY.</b> Apply directly to the soil between rows as a directed spray following the last normal cultivation (layby).</p> <p><b>Fall Application.</b> May be applied for weed control in cotton in the fall, after Oct. 15 (up to 140 days prior to planting). Apply at a broadcast rate of 1.8 pt /A on coarse soils, 2.4 pt /A on medium soils and 3.6 pt /A on fine soils.</p>	<p><b>If applied through irrigation system,</b> use only center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. <b>Do not</b> apply this product through any other type of irrigation system for layby applications. <b>Do not</b> apply as a broadcast spray over-the-top of crop. <b>Do not</b> feed forage or graze livestock in treated fields. <b>Product</b> is most effective when adequate rainfall or overhead irrigation is received within 7 days after application. <b>Use</b> higher rates listed for no-tillage applications for control of rhizome johnsongrass in specified soil textures. This use is not recommended for soils with more than 3% organic matter. <b>There</b> must be an interval of at least 60 days between the last application and harvest.</p>
<p><b>Prowl H2O</b> 3.8 lb ai per gallon</p> <p><b>All applications:</b> See table.</p> <p>For small-seeded broadleaf and grass weeds</p>	<p><b>Active Ingredients:</b> Pendimethalin</p> <p><b>Similar Products:</b> Pendimax 3.3 Prowl 3.3 EC</p> <p><b>MOA: 3</b></p>	<p><b>EARLY PREPLANT.</b> Apply up to 15 days prior to planting.</p> <p><b>PPI.</b> Apply up to 60 days prior to planting and incorporate within 7 days of application; however, immediate incorporation is best.</p> <p><b>PRE.</b> Apply overlay application at planting or up to 2 days after planting. Total amount applied per acre cannot exceed the highest labeled rate for a given soil type.</p> <p><b>POST/LAYBY.</b> Apply directly to the soil between rows as a directed spray following the last normal cultivation (layby).</p> <p><b>Fall Application.</b> May be applied for weed control in cotton in the fall, after Oct. 15 (up to 140 days prior to planting). Apply at a broadcast rate of 1.8 pt /A on coarse soils, 2.4 pt /A on medium soils and 3.6 pt /A on fine soils.</p>	<p><b>If applied through irrigation system,</b> use only center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. <b>Do not</b> apply this product through any other type of irrigation system for layby applications. <b>Do not</b> apply as a broadcast spray over the top of crop. <b>Do not</b> feed forage or graze livestock in treated fields. <b>Product</b> is most effective when adequate rainfall or overhead irrigation is received within 7 days after application. <b>Use</b> higher rates listed for no-tillage applications for control of rhizome johnsongrass in specified soil textures. This use is not recommended for soils with more than 3% organic matter. <b>There</b> must be an interval of at least 60 days between the last application and harvest. <b>Postemergence</b> over-the-top broadcast tank-mix applications with Roundup PowerMax may be made to <b>Roundup Ready Flex</b> or <b>GlyTol</b> cotton varieties between the 4 leaf and 8 leaf growth stages. Over-the-top applications past the 8 leaf stage may result in crop injury and or yield loss. Do not apply over-the-top of cotton with fluid fertilizer or to cotton under stress. Dry ammonium sulfate (at 17 lb/100 gal) or the liquid equivalent must be used when tank-mixing with Roundup PowerMax.</p>

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EPP, PPI &/or PRE	<b>Prowl 3.3 EC Broadcast Rates pt/A</b>		
	Soil Texture	Conventional or Minimum Tillage	No-Tillage
	Coarse	1.2 to 2.4 pt /A	1.8 to 2.4 pt /A
	Medium	1.8 to 2.4 pt /A	2.4 to 3.6 pt /A
	Fine	2.4 to 3.6 pt /A	3.6 to 4.8 pt /A
For heavy clay soils, apply at a broadcast rate of 3.6 pt /A.			
Total amount applied per acre cannot exceed the highest labeled rate for a given soil type.			

POST/LAYBY	<b>Prowl 3.3 EC Layby Application Use Rates</b>	
	Soil Texture	Use Rate pt /A
	Coarse	1.2 to 1.8 pt /A
	Medium	1.8 to 2.4 pt /A
	Fine	2.4 to 3.6 pt /A

EPP, PPI &/or PRE & Layby	<b>Prowl H2O 3.8 Broadcast Use Rates</b>		
	Soil Texture	Conventional or Minimum Tillage	No-Tillage
	Coarse	1 to 2 pt /A	2 pt /A
	Medium	2 pt /A	3 pt /A
	Fine	3 pt /A	4 pt /A
For heavy clay soils, apply at a broadcast rate of 3 pt /A.			
Total amount applied per acre cannot exceed the highest labeled rate for a given soil type.			

POST alone or tank- mixed with Roundup PowerMax	<b>Prowl H2O 3.8 Broadcast Use Rates Conventional, Minimum or No-till</b>	
	Soil Texture	Use Rate pt /A
	Coarse	1 to 2 pt /A
	Medium	1.5 to 2 pt /A
	Fine	2 pt /A

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<p><b>Select 2 EC</b> 2 lb ai per gallon</p> <p><b>POST applications:</b> 6 to 16 fl oz /A</p> <p>For grass weeds only</p>	<p><b>Active Ingredients:</b> Clethodim</p> <p><b>Similar Products:</b> Prism</p> <p><b>MOA: 1</b></p>	<p><b>POST.</b> Apply to actively growing grasses, refer to label for specific rates for weed type. In arid regions, application should be made as soon as possible after irrigation (within 7 days). A second application will generally provide more effective perennial grass control in arid conditions than a single application. Make second application to actively growing grass 2 to 3 weeks after emergence of new growth.</p>	<p><b>Do not</b> apply within 60 days of harvest. <b>Do not</b> graze treated fields or feed treated forage or hay to livestock. <b>Do not</b> apply through any type of irrigation system. <b>Do not</b> apply if rainfall is expected within one hour of application. <b>Always</b> use a crop oil concentrate at 1.0 qt /A by ground or 1% v/v in the finished spray volume by air. <b>Refer</b> to label for application rates for specific grass species controlled.</p>
<p><b>Sequence</b> 5.25 lb ai per gallon</p> <p><b>All applications:</b> 2.5 to 4 pt/A</p> <p>Non-selective control of broadleaf and grass weeds</p>	<p><b>Active Ingredients:</b> Metolachlor &amp; Glyphosate</p> <p><b>Similar Products:</b> None</p> <p><b>MOA: 15 &amp; 9</b></p>	<p><b>EARLY PREPLANT.</b> Apply prior to planting for control of emerged actively growing weeds and soil residual activity. <b>Do not</b> incorporate if applied EPP or crop injury will result.</p> <p><b>PRE.</b> Apply after planting in no-till production system for control of emerged actively growing weeds and soil residual activity.</p> <p><b>POST on Roundup Ready Flex and GlyTol cotton varieties.</b> Apply after crop and weeds have emerged for control of emerged actively growing weeds and soil residual activity.</p>	<p><b>Do not</b> apply POST to non-Roundup Ready Flex or non-GlyTol cotton varieties. <b>Do not</b> graze or feed forage or fodder from Sequence treated cotton to livestock. <b>Do not</b> apply EPP or PRE on sand or loamy sand soils.</p> <p><b>POST applications on Roundup Ready Flex or GlyTol cotton varieties:</b> Make postemergence applications from cotyledon stage to the 10-leaf stage (not to exceed 12 inches tall) of cotton development. <b>Do not</b> apply later as severe injury, including yield loss, could occur. <b>Do not</b> exceed 2.5 pt of Sequence per acre in a single application on cotton with less than 5 leaves. Apply up to 2.75 pt of Sequence per acre in a single application from the 5-leaf through the 10-leaf stage of cotton. <b>Do not</b> use if cotton plants are under stress.</p>
<p><b>Sharpen</b> 2.85 lb ai per gallon</p> <p><b>Early Preplant applications:</b> 1.0 oz/A</p> <p>For broadleaf weeds only</p>	<p><b>Active Ingredients:</b> Saflufenacil</p> <p><b>Similar Products:</b> None</p> <p><b>MOA: 14</b></p>	<p><b>EARLY PREPLANT.</b> Apply at least 42 days prior to planting cotton for control of emerged actively growing weeds and soil residual activity or crop injury may occur.</p>	<p><b>Do not</b> plant cotton until 42 days and an accumulation of 1 inch of rainfall has occurred after application in order to avoid crop injury. <b>Do not</b> apply to coarse soils classified as sand with less than 1.5% organic matter or cotton injury may occur. <b>Do not</b> apply Sharpen with other Group 14/GroupE herbicides (such as flumioxazin) as a tank-mix or sequential application within 30 days or crop injury may result. <b>Do not</b> apply sharpen where an at-planting application of an organophosphate or carbamate insecticide(s) is planned because severe injury may result. May be tank-mixed with 0.25 lb ai/A Dicamba or 1.0 lb ai/A 2,4-D for horseweed control. <b>In order to maximize control, apply before horseweed passes the rosette stage (prior to upright growth).</b> For control of grass species tank-mix with glyphosate. Include either a crop oil concentrate or methylated seed oil at 1% v/v plus ammonium sulfate at 8.5 to 17 lb/100 gal.</p>
<p><b>Staple LX</b> 3.2 lb ai per gallon</p> <p><b>PRE applications:</b> 1.3 to 2.1 oz /A</p> <p><b>POST applications:</b> 2.6 to 3.8 oz /A</p> <p>For broadleaf weeds only</p>	<p><b>Active Ingredients:</b> Pyrithiobac</p> <p><b>Similar Products:</b> None</p> <p><b>MOA: 2</b></p>	<p><b>PRE.</b> May be applied preemergence to aid in the control of many problematic weeds. Applications require rainfall or sprinkler irrigation to activate the herbicide. Use the higher application rate for difficult to control weeds or in fields where high infestation of weeds occur.</p> <p><b>POST.</b> Application should be made over-the-top or as a post-directed spray to cotton (begin at cotyledon stage) and actively growing weeds.</p>	<p><b>PRE. Do not</b> apply through any type of irrigation system. <b>Do not</b> use on coarse soils such as sands or loamy sands. <b>Do not</b> use on soils with less than 0.5% organic matter. <b>Do not</b> use on crops planted in furrows.</p> <p><b>POST.</b> Use a minimum of 10 gallons of water per acre by ground or 3 gallons of water per acre by air. All rates are broadcast. Use proportionately less for banded applications.</p> <p><b>All applications. Do not</b> apply more than 5.1 oz/A per year. Add a non-ionic surfactant at the rate of 0.25-0.5% v/v or a crop oil concentrate at the rate of 1-2% v/v with all postemergence applications. Under arid conditions, a crop oil concentrate is recommended. Weed size at application is critical for optimal control, consult label for appropriate weed sizes.</p>

## COTTON HERBICIDE SUGGESTIONS (CONT'D)

Read and follow all label directions before product use.

Trade Name, Formulation, and Application Rate	Active Ingredient(s), Similar Products and MOA Group	Application Timing(s), EPP-early preplant, PPI-preplant incorporated PRE-preemergence, or POST-postemergence	Special Instructions and Remarks
<p><b>Treflan HFP</b> 4.0 lb ai per gallon</p> <p><b>PPI applications:</b> See table.</p> <p>For small seeded broadleaf and grass weeds</p>	<p><b>Active Ingredients:</b> Trifluralin</p> <p><b>Similar Products:</b> Treflan TR-10 Trifluralin HF Trust 10G Trust 4EC Trust Herbicide</p> <p><b>MOA: 3</b></p>	<p><b>Fall applications.</b> Apply to flat ground and incorporate once within 24 hours.</p> <p><b>Spring applications.</b> Application and incorporation may occur before planting or after planting prior to crop emergence. Use the lower application rates when sequential applications are anticipated.</p> <p><b>Layby applications.</b> Application may be made in established crops from the 4 true leaf stage of growth up to layby, but no less than 90 days before harvest.</p>	<p><b>If applying through irrigation system:</b> Apply only through continuously moving center pivot, lateral move, end tow, solid set, or hand move irrigation systems. Refer to label for additional chemigation instructions. <b>Do not</b> apply to soils that are wet or are subject to prolonged periods of flooding as poor weed control may result.</p>

<b>Treflan HFP Application Rates</b>					
Soil Texture	Spring Application	Fall Application	Chemigation Application	Conservation Tillage	Layby Application
Coarse	1 pt /A	2 pt /A	1-3 pt /A	1-2 pt /A	1 pt /A
Medium	1.25-1.5 pt /A	2 pt /A	1.5-4 pt /A	1.5-2 pt /A	1.5 pt /A
Fine	1.5-2 pt /A	2.5 pt /A	2-4 pt/A	2-4 pt /A	2 pt /A



## COTTON HERBICIDE SUGGESTIONS (CONT'D)

Read and follow all label directions before product use.

<p><b>Valor SX</b> 51% WP</p> <p><b>Preplant Burndown applications:</b> 1 to 2 oz/A</p> <p><b>POST-Directed/Hooded applications:</b> 2.0 oz/A</p> <p>For broadleaf and some grass weeds</p>	<p><b>Active Ingredient:</b> Flumioxazin</p> <p><b>Similar Products:</b> Valor</p> <p><b>Rates may vary due to formulation</b> <b>MOA: 14</b></p>	<p><b>EARLY PREPLANT.</b> A minimum of 14 to 30 days must pass prior to planting cotton after application depending on tillage system and rate applied, consult label.</p> <p><b>POST-Directed/Hooded Applications.</b> Precautions should be taken to avoid contacting the green foliage of cotton plants or severe crop injury may result. Cotton should be at least 6 inches in height at the time of application. Direct the spray onto the bottom 2 inches of the cotton stem-bark layer. <b>Do not</b> allow spray to contact green cotton stems.</p> <p><b>Layby Application</b> Layby application of VALOR SX tank-mixes may be made once cotton has developed a minimum of 4 inches of bark and has reached a minimum of 18 inches in height. <b>Cotton that is smaller than 18 inches in height and/or has less than 4 inches of bark may be injured by VALOR SX applications.</b> VALOR SX application must be directed to the lower 2 inches of bark to avoid crop injury. Severe crop injury may result if application is made to green or unbarked stem.</p>	<p><b>Do not</b> graze treated fields or feed treated forage or hay to livestock. <b>Do not</b> incorporate into the soil after application. <b>Do not</b> apply more than 2 oz/A in a single application or 4 oz/A during a single growing season. <b>Do not</b> make a sequential Valor WP application within 30 days of the previous Valor application. Do not apply within 60 days of harvest. <b>Do not</b> use on crops grown for seed. Only apply with nonionic surfactant, <b>do not</b> apply with crop oil concentrate, methylated seed oil or other types of adjuvants as crop injury may result. Valor should be tank-mixed with glyphosate or MSMA to provide grass control. Consult label for rotation intervals to other crops. Spray equipment used to apply VALOR SX should not be used to apply other materials to any crop foliage</p>
<p><b>Warrant</b> 3.0 lb ai/gallon</p> <p><b>POST applications</b> 1.25 to 2 qt/A</p> <p>For small-seeded broadleaf and grass weeds</p>	<p><b>Active Ingredient:</b> Acetochlor</p> <p><b>Similar Products:</b> None</p> <p><b>MOA: 15</b></p>	<p><b>POST.</b> Apply this product postemergence to cotton and preemergence to weeds at 1.25 to 2 qt/A according to soil classification rate chart listed on label. Application should be made after cotton is completely emerged but before bloom.</p>	<p><b>Postemergence to Roundup Ready Flex or GlyTol cotton varieties.</b> This product may be tank-mixed with Roundup agricultural herbicides on Roundup Ready Flex or GlyTol cotton varieties when cotton is completely emerged until cotton reaches first bloom. The optimum timing of application is when cotton is in 2-3 leaf stage. Product may be applied again when cotton is in the 5 to 6 leaf stage if directed to the soil. <b>Do not make postemergence surface applications using sprayable fluid fertilizer as the carrier because severe crop injury may occur.</b></p>

<b>Warrant Application Rates (Broadcast per acre)</b>		
<b>Soil Texture</b>	<b>Less than 1.5% Organic Matter (quarts)</b>	<b>1.5% or More Organic Matter (quarts)</b>
Coarse	1.25 to 1.6	1.25 to 1.7
Medium	1.25 to 1.7	1.25 to 1.9
Fine	1.25 to 1.9	1.25 to 2.0