

# POSTEMERGENCE GRASS WEED CONTROL

## Agricultural Uses

- **Assure® II** is a selective herbicide that controls annual and perennial grass weeds in Enlist® corn, canola, cotton, chickpea, dry beans, dry and succulent peas, lentil, snap bean, soybean, sugarbeet and sunflower. Refer to the label for a complete listing of registered crops and uses.
- **Assure II** provides excellent control of volunteer corn.
- Application rate of 4–12 fl oz/A.
- Applications should target 2- to 4-inch tall grass weeds and 8- to 12-inch tall volunteer corn.

## Spray Adjuvants

- A petroleum crop oil concentrate (COC) is the preferred adjuvant type.
- Apply COC at 1% v/v (1 gallon per 100 gallons of spray solution) or 2% v/v under arid conditions.
- An ammonium nitrogen fertilizer may be added to the spray mixture in addition to COC but is not required to optimize performance.
  - Use 2 lb/A of a spray-grade ammonium sulfate (AMS) or 2 qt/A of a high quality urea ammonium nitrate (UAN) such as 28% UAN or 32% UAN. Under arid conditions, use 4 lb/A of AMS or 4 qt/A of 28% UAN or 32% UAN.
  - DO NOT use liquid nitrogen fertilizer as the total carrier solution.

## For Optimum Control

- Apply using medium to coarse, 250-400 micron sized droplets at 15 gallons/acre.
- When nozzles producing very coarse, extremely coarse or ultra coarse sized droplets are required, crop oil concentrate use is strongly recommended.
- Apply at least 1 hour before rainfall or overhead irrigation.
- Apply to actively growing weeds, avoiding stressful conditions from drought and cool temperatures.
- Tank mixtures with broadleaf herbicides (e.g. 2,4-D, Classic®, dicamba, FirstRate® or Flexstar®) may reduce grass control. Apply **Assure II** 1 day before or 7 days after broadleaf herbicide application for best results.

## Applications on Enlist™ Corn



- Applications should target V2–V6 growth stage of Enlist corn.
- Key weeds include fall panicum, giant foxtail, seeding and rhizome johnsongrass, shattercane, quackgrass, broadleaf signalgrass, goosegrass and barnyardgrass.
- May also be used to control volunteer corn that does not contain the Enlist trait in fields currently planted with Enlist corn hybrids. This includes volunteer Roundup Ready® corn (glyphosate resistant), and LibertyLink® corn (glufosinate resistant).
- **Assure II** will not control quizalofop resistant volunteer corn (e.g., Enlist corn).
- Refer to the label to see specific states that allow the application of **Assure II** on Enlist corn.
- Refer to [www.EnlistTankMix.com/ASSUREII](http://www.EnlistTankMix.com/ASSUREII) for approved adjuvants and pesticide active ingredients that can or cannot be tank-mixed or applied with **Assure II** in Enlist corn.

**Assure II** Active Ingredient: Quizalofop-P-ethyl

See our entire line of products at [AMVAC.com](http://AMVAC.com)

## Weeds Controlled and Rate Selection

	Size at Application (in)	Assure II Applied Alone (fl oz product/A)	Assure II Tank-Mixed With Broadleaf Herbicide (fl oz product/A)*
<b>Annual Grasses**</b>			
Volunteer Corn ( <i>Zea mays</i> )***	6–30	4–8	8–12
Foxtail, Giant ( <i>Setaria faberi</i> )	2–4 (pre-tiller)	5–8	8–12
Johnsongrass, Seedling ( <i>Sorghum halepense</i> )	2–8		
Shattercane ( <i>Sorghum bicolor</i> )	6–12		
Wild Proso Millet ( <i>Panicum miliaceum</i> )	2–6		
Crowfootgrass ( <i>Dactyloctenium aegyptium</i> )	2–6	7–8	8–12
Fall Panicum ( <i>Panicum dichotomiflorum</i> )	2–6		
Field Sandbur ( <i>Cenchrus incertus</i> )	2–6		
Foxtail, Bristly ( <i>Setaria verticillata</i> )	2–4		
Foxtail, Giant ( <i>Setaria faberi</i> )	2–8		
Foxtail, Green ( <i>Setaria viridis</i> )	2–4		
Foxtail, Yellow ( <i>Setaria pumila</i> )	2–4		
Goosegrass ( <i>Eleusine indica</i> )	2–6 <sup>†</sup>		
Itchgrass ( <i>Rottboellia exaltata</i> )	2–8		
Sprangletop ( <i>Leptochloa filiformis</i> )	2–6		
Volunteer Barley ( <i>Hordeum vulgare</i> )	2–6		
Volunteer Oat ( <i>Avena sativa</i> )	2–6		
Volunteer Rye ( <i>Secale cereale</i> )	2–6		
Volunteer Wheat ( <i>Triticum aestivum</i> )	2–6		
Wild Oat ( <i>Avena fatua</i> )	2–6		
Witchgrass ( <i>Panicum capillare</i> )	2–6		
Barnyardgrass ( <i>Echinochloa crus-galli</i> )	2–6		
Crabgrass, Large ( <i>Digitaria sanguinalis</i> )	2–6 <sup>†</sup>		
Crabgrass, Smooth ( <i>Digitaria ischaemum</i> )	2–6 <sup>†</sup>		
Junglerice ( <i>Echinochloa colonum</i> )	2–6		
Texas Panicum ( <i>Panicum texanum</i> ) <sup>††</sup>	2–4		
Red Rice ( <i>Oryza sativa</i> )	1–4	9–10	Split <sup>†</sup>
Woolly Cupgrass ( <i>Eriochloa villosa</i> )	2–4 <sup>§</sup>		
Broadleaf Signalgrass ( <i>Brachiaria platyphylla</i> )	2–6	10	Split <sup>†</sup>
Downy Brome ( <i>Bromus tectorum</i> )	2–6	10–12	12
Italian Ryegrass ( <i>Lolium multiflorum</i> )	2–6		
Jointed Goatgrass ( <i>Aegilops cylindrica</i> )	2–6		
Windgrass ( <i>Bromus mollis</i> )	2–6		
<b>Perennial Grasses**</b>			
Wirestem Muhly ( <i>Muhlenbergia frondosa</i> )	4–8	8–10	Split <sup>†</sup>
Bermudagrass ( <i>Cynodon dactylon</i> )	3 in tall (or up to 6 in runners)	10–12	Split <sup>†</sup>
Johnsongrass, Rhizome ( <i>Sorghum halepense</i> )	10–24		
Quackgrass ( <i>Agropyron repens</i> )	6–10		

\* Refer to the **Assure II** product label for more information regarding tank mixes with additional herbicides.

\*\* For annual and perennial grasses, up to 12 fl oz/A may be applied based on local recommendations. Under arid conditions, apply at the higher use rate.

\*\*\* Does not control quizalofop resistant corn (e.g. Enlist corn). For all other corn, apply 4 fl oz/A of **Assure II** for up to 12-inch tall corn. Apply 5 fl oz/A of **Assure II** for 12- to 18-inch tall corn; use 8 fl oz/A of **Assure II** for 18- to 30-inch tall corn.

<sup>†</sup> Split Application. Grass species may not be controlled when **Assure II** is tank-mixed with broadleaf herbicides. To prevent antagonism of grass control, apply **Assure II** either 1 day before or 7 days after the broadleaf herbicide. Use rates listed under **Assure II** Applied Alone.

<sup>†</sup> Length of lateral growth.

<sup>††</sup> Do not apply **Assure II** at less than 10 fl oz/A in Texas and other areas of the arid west.

<sup>§</sup> Size in height or diameter, whichever is more restrictive. Application to plants with more than three tillers may result in unsatisfactory control.