

**Table 4-11. Relative effectiveness of postemergence herbicides.**

Ratings are based on labeled application rates and weeds at 4 inches in height. Results may differ with variations in weed size, temperature, rainfall, soil moisture, and spray coverage. Ratings are based only on postemergence (POST) activity and do not reflect possible residual activity. For ratings on herbicide combinations not listed, see the component parts. Ratings assume good growing conditions and proper usage of adjuvants.

Weed control rating:

10 = 95–100%

9 = 85–95%

8 = 75–85%

7 = 65–75%

6 = 55–65%

N = less than 55% or no control

+ = upper end of rating scale

Crop tolerance:

E = excellent; almost never any crop injury observed

VG = very good; on rare occasion is crop injury observed

G = good; seldom is crop injury observed as long as proper management practices are followed (e.g., herbicide rate and application timing, adjuvants)

FG = fair to good; occasionally crop injury is observed even with proper management practices; injury is often due to herbicide interactions with environmental conditions

F = fair; some crop injury is commonly observed

Grasses Trade Name (rate/A)	Site of Action Number	Barnyardgrass	Bermudagrass	Corn, Volunteer	Crabgrass	Foxtail spp.	Goosegrass	Johnsongrass (Rhizome)	Johnsongrass (Seedling)	Muhly, Wirestem	Nutsedge, Yellow	Panicum, Fall	Panicum, Texas	Quackgrass	Shattercane	Signalgrass, Broadleaf
		Assure II (8 fl oz)	1	9	9	9+	8+	9+ <sup>1</sup>	9	9	9	6	N	9	8+	9
Basagran (1 qt)	6	N	N	N	N	N	N	N	N	N	7+	N	N	N	N	N
Classic (0.67 oz)	2	N	N	6	N	N	N	N	N	N	8	N	N	N	6	N
Fusilade DX (12 fl oz)	1	9	9	9+	8+	8+	9	9	9	8+	N	9	8+	9	9+	9
Glyphosate (0.75 lb ae) <sup>2</sup>	9	9+	9	9+ <sup>3</sup>	9+	9+	9+	9	9+	9	7	9	9+	9	9	9+
Liberty (32 fl oz) <sup>4</sup>	10	8	6	7 <sup>5</sup>	8+	8+ <sup>1</sup>	6	6	9	7	6	8+	8	6	9	8+
Poast (1–1.5 pt) <sup>6</sup>	1	9+	8+	8	9	9+	9	8	8+	7	N	9	9+	8	8+	9+
Pursuit (4 fl oz)	2	8	N	6	7	8+ <sup>1</sup>	N	7	9	N	7	8	6	6	9	8
Raptor (5 fl oz)	2	8	N	8	7	8+ <sup>1</sup>	N	7	8+	N	6	8	6	N	8+	8
Select (8 fl oz)	1	9	9	9	9	9+	9	9	9	8+	N	9	9+	8+	9	9+
<b>Mixtures</b>																
Extreme (3 pt) <sup>2</sup>	2/9	9+	8+	9 <sup>3</sup>	9+	9+	8+	9	9+	9	6	8+	9	8+	9	9
Flexstar GT (4.5 pt) <sup>2</sup>	9/14	9+	9	9+ <sup>3</sup>	9+	9+	9+	9	9+	9	7	9	9+	9	9	9+
Fusion (8 fl oz)	1/1	9	9	8	8+	9 <sup>1</sup>	9	8	8	6	N	9	8+	8	8	9
Permit Plus (0.75 oz) <sup>7</sup>	2/2	N	N	N	N	N	N	N	N	N	9+	N	N	N	N	N
Storm (1.5 pt)	6/14	N	N	N	N	N	N	N	N	N	7+	N	N	N	N	N
Synchrony (0.75 oz) <sup>7</sup>	2/2	N	N	6	N	N	N	N	6	N	8	N	N	N	6	N

<sup>1</sup> Herbicide is less effective on yellow foxtail compared to giant foxtail. Ratings for yellow foxtail: Assure II/Targa = 7; Fusion = 8; Liberty = 6;

Pursuit = 6; Raptor = 6.

<sup>2</sup> For use on glyphosate-resistant soybean varieties only.

<sup>3</sup> Glyphosate will not control Roundup Ready corn

<sup>4</sup> For use on glufosinate-resistant soybean varieties only.

<sup>5</sup> Liberty will not control LibertyLink corn or many hybrids with Bt traits.

<sup>6</sup> Rate for Poast is 1 pt on annual grasses and 1.5 pt for perennial grasses.

<sup>7</sup> For use on STS, Bolt, or non-STS soybean varieties; a lower rate must be used on non-STS varieties.

Broadleaves	Site of Action Number	Amaranth, Palmer/Waterhemp <sup>1,2</sup>	Anoda, Spurred	Burcucumber	Cocklebur	Horseweed/Marestail <sup>1,2</sup>	Jimsonweed	Lambsquarters	Morningglory, Annual	Nightshade, Eastern Black	Pigweed <sup>1</sup>	Ragweed, Common <sup>2,3</sup>	Ragweed, Giant	Sida, Prickly	Smartweed	Velvetleaf	Soybean Tolerance
Trade Name (rate/A)																	
Basagran (1 qt)	6	6	8+	N	9	N	9	8	N	N	6	8	7	8	9	8+	FG
Cadet (0.9 oz)	14	7	7	N	N	N	N	7	7	7	7	N	N	7	N	9+	F
Classic (0.67 oz)	2	N <sup>1</sup>	N	8	9+	7 <sup>1</sup>	9	7	7	N	9 <sup>1</sup>	8 <sup>3</sup>	7+	N	8+	8	F
Cobra (12.5 fl oz)	14	9	7	8	8	N	9	7	8	8+	9	9	8+	6	7	8+	F
Engenia (12.8 fl oz)/XtendiMax (22 fl oz) <sup>4</sup>	4	8+	8	7	9	8+	9	9	8	8	8+	8+	7+	8	8+	8	VG
FirstRate (0.3 oz)	2	N	9	6	9	8 <sup>1</sup>	8	N	8+	N	N	9 <sup>3</sup>	9	N	8	9	VG
Glyphosate (0.75 lb ae) <sup>5</sup>	9	N <sup>2</sup>	9	8+	9	6 <sup>2</sup>	9	8+	8	8	9+	9 <sup>2</sup>	8	8	8+	8	E
Harmony SG (0.125 oz) <sup>6</sup>	2	N	N	7	7+	N	7	9	N	N	9 <sup>1</sup>	6 <sup>3</sup>	N	N	9	8+	— <sup>7</sup>
Liberty (32 fl oz) <sup>8</sup>	10	8+	7+	8	9	8+	9	9	8	8	8+	9	8+	8	8+	8	VG
Pursuit (4 fl oz) <sup>1</sup>	2	N <sup>1</sup>	7	6	9	N	8	7	7+	8+	9 <sup>1</sup>	8 <sup>3</sup>	6	6	8+	9	FG
Raptor (5 fl oz) <sup>1</sup>	2	N <sup>1</sup>	7	6	9	N	8	8+	7	8+	9 <sup>1</sup>	8 <sup>3</sup>	8	6	8	9	G
Reflex/Flexstar (1.25 pt)	14	9	6	7	8	N	9	6	8	8+	9	9	8	N	8	7+	FG
Resource (6 fl oz)	14	7+	6	6	6	N	7	7	N	8	7+	7+	6	6	6	9+	FG
Ultra Blazer (1.5 pt)	14	9	6	7	8	N	9	7	8	8	9	9	8	N	8+	7+	F
<b>Mixtures</b>																	
Extreme (3 pt) <sup>5</sup>	2/9	N <sup>1,2</sup>	8+	8	9	6 <sup>2</sup>	9	8+	7+	8	9	8+ <sup>2,3</sup>	8	7	8+	9	VG
Flexstar GT (4.5 pt) <sup>5</sup>	9/14	9 <sup>2</sup>	9	8+	9	6 <sup>2</sup>	9	8+	8	8	9	9 <sup>2</sup>	9	8	8+	8+	F
Permit Plus (0.75 oz) <sup>6</sup>	2/2	N <sup>1</sup>	—	7	9	N	7	9	6	6	9 <sup>1</sup>	9 <sup>3</sup>	8	7	9	9	— <sup>7</sup>
Storm (1.5 pt)	6/14	8+	8	6	8	N	9	7	7+	7	8+	8+	7	7	8+	8	FG
Synchrony (0.75 oz) <sup>6</sup>	2/2	N <sup>1</sup>	N	8+	9+	8 <sup>1</sup>	9	9	7	N	9+ <sup>1</sup>	8 <sup>3</sup>	7+	N	9	9	— <sup>7</sup>

<sup>1</sup> Group 2 resistance has been confirmed for this species and it is widespread in the region; Group 2 herbicides will not control these biotypes.

<sup>2</sup> Glyphosate resistance has been confirmed for this species and widespread in the region.

<sup>3</sup> Common ragweed biotypes resistant to Group 2 herbicides have been confirmed in the region.

<sup>4</sup> For use on dicamba-resistant (Xtend) soybean varieties only.

<sup>5</sup> For use on glyphosate-resistant soybean varieties only.

<sup>6</sup> For use on STS, Bolt, or non-STS soybean varieties; a lower rate must be used on non-STS varieties.

<sup>7</sup> Excellent crop tolerance for STS or Bolt varieties, but fair or worse ratings if used on non-STS varieties.

<sup>8</sup> For use on glufosinate-resistant soybean varieties only.