

Soil-Applied Herbicide Rates for Corn

Soil Texture

Herbicide	Coarse (light)	Medium	Fine (heavy)
AAtrex Nine-0	2.2 lb	2.2 lb	2.2 lb
Acuron*	2.5 qt	2.5 qt	3 qt
Anthem Flex	2.75-5 oz/A	3-6 oz/A	3.5-7.28 oz/A
Anthem Maxx	2.5-3.5 oz	3-4 oz	4-5 oz
Atrazine 4L	2 qt	2 qt	2 qt
Bicep II Magnum	1.3 qt	1.5 qt	2 qt
Callisto	6 oz	6 oz	7 oz
Cinch	1 pt	1.33 pt	1.67 pt
Cinch ATZ	1.3 qt	1.5 qt	2 qt
Degree	2.75-3.75 pt	4.25-5 pt	5-5.5 pt
Degree Xtra	2.9 qt	2.9-3.7 qt	3.2-3.7 qt
Dual II Magnum	1 pt	1.33 pt	1.67 pt
Harness MAX	55-64 oz	64-75 oz	75-88 oz
Keystone NXT	1.5-2 pt	1.5-2.5 pt	2-3 pt
Lexar EZ	3 qt	3 qt	3 qt
Outlook	12-14 oz	14-21 oz*	14-21 oz*
Prowl 3.3EC + Atrazine 90	1.8 pt + 1.1 lb	2.4 pt + 1.7 lb	2.4 pt + 2.2 lb
Sharpen	2-2.5 oz	2.5-3 oz	3-3.5 oz
Surestart	1.5-2 pt	1.5-3 pt	2-3 pt
Verdict	10-12 oz	13-15 oz	16-18 oz
Zidua SC	2.5-4.5 oz	3.5-5 oz	4-6.5 oz

NOTE: It is impossible to list all of the combinations possible considering the different formulations of glyphosate, Atrazine, Micro-Tech, Dual and mesotrione. Refer to the label of the products in question for the correct rates.

*The use rate of Acuron is based more on organic matter than soil texture.

All soil types < 3% OM = 2.5 qt/A

All soil types > 3% OM = 3 qt/A

Soil-Applied Herbicide Rates for Grain Sorghum

Soil Texture

Herbicide	Coarse (light)	Medium	Fine (heavy)
Preplant Herbicides			
Dual II Magnum	1 pt	1.33 pt	1.67 pt
Micro-Tech	---	3 qt	3 qt
Outlook	0.75 pt	0.87 pt	1 pt
Preemergence Herbicides			
AAtrex Nine-0	---	1.1 qt	1 qt
Atrazine 4L	---	1 qt	1 qt
Atrazine 80W	---	1.25 lb	1.25 lb
Bicep II Magnum	1.3 qt	1.5 qt	2 qt
Dual II Magnum	1 pt	1.33 pt	1.67 pt
Lexar	---	3 qt	3 qt
Sharpen	2 oz	2 oz	2 oz
Verdict	10 oz	10-12 oz	12-18 oz

All rates are broadcast rates. Reduce rates for appropriate band width.
See example 2 on page 6.

Crop Replant and Rotation Guide for Corn and Grain Sorghum Herbicides*

Herbicide	Replant/Crop Rotation	Time Interval	Precautions
2,4-D	All	90 days	90 days or until sufficiently dissipated.
Accent Q/Zest	C W S CT	I 4 months 15 days 10 months	Sweet corn and popcorn - 10 months. All crops not specified - 10 months if pH < 6.5 or 18 months if pH > 6.5. Grain sorghum - 10 months if pH < 7.5 or 18 months if pH > 7.5.
Acuron	C SG, B, W CT, P, R, S, GS All	I 4 months 10 months 18 months	
Anthem Maxx/ Anthem Flex	S, C R SG W CT, P, SF	I 10 months 11 months 4 months 4 months	See label for rotational intervals by rate applied.
Atrazine	C, GS All	I FY	If applied after June 10, only corn and grain sorghum can be planted the following year.
Basagran	All	I	
Bicep II Magnum Cinch ATZ	C, GS† S, CT SG All	I FY 15 months 18 months	† Use Concep-treated seed. If applied after June 10, only corn and grain sorghum can be planted the following year.
Buctril	C, GS SG All	I Fall FY	
Buctril + atrazine	C, GS S CT, FG, FL, R SG All others	I FY Do not plant the year following application.	If applied after June 15, plant only corn or grain sorghum the next year.
Callisto/Harness MAX	C, GS SG All	I 4 month 10 months	Do not apply post if soil was treated with Counter or Lorsban.
Dicamba	C, GS W All	I 45 days/pt† Following normal harvest of C, G, W, GS	† Wheat planting must be delayed 45 days after application per pint of Banvel used.
Dual II Magnum Cinch	C, S, GS† SG R All	I 4.5 months Next spring 18 months	† Use Concep-treated seed.
Gambit	R C W, GS, SG CT, P, S	I 1 month 2 months 10 months	See label for other rotational crop restrictions.
Glyphosate			No restrictions.
Guardsman Max	GS, S, CT All	FY Do not plant the year following application.	
Halex GT	C, GS† SG CT, S	I 4 months 10 months	† Use Concep-treated grain sorghum seed.
Huskie	CT SF, C GS R S W	FY 9 months 4 months FY 4 months 1 month	

Herbicide	Replant/Crop Rotation	Time Interval	Precautions
Keystone NXT	C GS, S, R A, SG, SF, W	I Following spring 15 months	
Lexar EZ	C, GS CT, SG, S, P All	I Next spring 18 months	Use Concep-treated grain sorghum seed.
Glufosinate	CT, C, R, S SG, W All other	I 70 days 180 days	
Outlook	C, S SG All	I 4 months Next spring	
Paraquat			No restrictions.
Peak	IR Corn, SG C, GS R, FG, S, CT, P A, SF	I 1 month 10 months 22 months	Do not replant any broadleaf crop if less than 10 inches of rainfall or irrigation has occurred since the application of Peak.
Permit	W S	3 months 10 months	
Prowl	CT, S W, B All	I 120 days† FY	† 90 days after post-incorporated application, cannot plant using no-tillage practices.
Realm Q	C SG W CT, GS, S	I 9 months 4 months 10 months	
Resicore	C W A, B, R, GS, S, SF CT	I 4 months 10.5 months 12 months	
Resolve Q	C W A, R, GS, S, SF All other CT	I 3 months 10 months 18 months 1 month	If at least 15 inches of rainfall has not occurred since application, CT, GS, SF, A rotations are extended to 18 months. Do not replant rice on soils with greater than pH 6.5.
ShieldEx	B, W, FG A, CA, CT P, R, ES, S SF	3 months 9 months	
Surestart II	C W A, B, S GS SF CA, CT	I 4 months Following spring 12 months 18 months 26 months	
Zidua	C, S CT, P, SF, W R All	I 4 months 10-18 months 18 months	Depending on rate used.

*This table applies to the major field and forage crops. Refer to the herbicide labels for the latest recrop and rotation information for horticultural crops. These are written as best we could interpret the labels. We regret any omissions or errors. Always refer to product labels before using a pesticide or replanting into treated fields.

KEY			
Crop		Timing	
All = All crops not specified	CT = Cotton	R = Rice	I = Immediately
A = Alfalfa	FG = Forage Grasses	S = Soybeans	FY = Following year
B = Barley	FL = Forage Legumes	SF = Sunflowers	(usually spring)
C = Corn	GS = Grain Sorghum	SG = Small Grains	
CA = Canola	P = Peanuts	W = Wheat	

Forage, Feed and Grazing Restrictions for Corn and Grain Sorghum Herbicides

Herbicide	Restrictions
2,4-D amine or ester	Do not forage or feed corn fodder for 7 days following application.
Acuron	Do not graze or feed forage from treated areas for 45 days following application.
Atrazine	Do not graze or feed forage from treated areas for 21 days following application, or illegal residues may result.
Banvel	Do not harvest or graze corn for dairy or beef feed prior to the ensilage (milk) stage of the crop.
Basagran	Do not graze treated fields for at least 12 days after application.
Bicep	No restrictions on label.
Buctril	Do not cut for feed or graze within 30 days after application.
Buctril + atrazine	Do not cut crop for feed or graze within 30 days after application.
Cinch	No restrictions on label.
Cinch ATZ	No restrictions on label.
Degree	Do not graze or feed for 21 days.
Dual II Magnum	No restrictions on label.
Exceed	Do not graze or feed for 30 days or silage for 4 months.
Gambit	Allow 30 days before grazing or feeding.
Glufosinate	Allow 60 days for forage and 70 for fodder.
Glyphosate	Do not harvest or feed treated crops for 8 weeks after application. Allow 14 days following spot treatment or selective equipment use before grazing domestic livestock.
Harness MAX	Allow a minimum of 60 days following application before harvesting for hay or grazing.
Lexar EZ/Coyote/Halex GT	Do not graze or feed forage from treated area within 45 days of application.
Outlook/Guardsman Max	May be grazed or fed at 40 or more days after application.
Paraquat	Do not graze treated areas or feed treated forage to livestock.
Peak	Do not graze or feed forage for 30 days following application. Do not harvest for silage for 40 days.
Permit, Permit Plus	Allow 30 days before grazing or feeding.
Prowl	No restrictions on label.
Realm Q	Do not graze or feed treated forage to livestock within 30 days of application.
Resolve Q	Do not graze or feed treated forage to livestock within 30 days of application.
ShieldEX	Do not graze or feed treated corn forage or silage for 21 days after application.
Sodium Chlorate	Do not graze treated field or feed treated fodder, forage or seeds within 14 days of application.

Restrictions are listed as worded on the labels. Feeding and application restrictions for herbicides are generally based on residue tolerances allowed for animal feeding. The restrictions are generally not due to acute toxicity (poisoning) problems. Livestock that are accidentally fed treated crops earlier than allowed may not be harmed, but may have illegal pesticide residues in their meat or milk. If you have fed livestock treated crops within the restricted period, refer to the label, your dealer or herbicide company representative for more information.

Corn and Grain Sorghum Herbicide Compatibility with Fertilizers as Application Carriers*

Herbicide	Fertilizer	
	Fluid	Dry
Atrazine 4L, 80W, DF	Y	N
Banvel	Y	N
Bicep	Y	Y
Callisto	Y	N
Degree Xtra	Y	Y
Dual II Magnum	Y	Y
Exceed	Y	N
Gambit	Y	N
Glyphosate	N	N
Harness MAX	Y	Y
Paraquat	Y	N
Permit, Permit Plus	Y	N
Prowl	Y	Y
2, 4-D amine	N	N

Y = Yes, N = No

*There are many specific fertilizer incompatibilities and restrictions with most herbicides. Be sure to read the herbicide label for specific mixing or impregnation instructions. Compatibility agents are required for many mixes. A typical compatibility test procedure for mixing herbicides in fluid fertilizers is given on page 4. NOTE: Compatibility with dry fertilizer is listed here from a labeling standpoint. The University of Arkansas only recommends herbicide application on dry fertilizer as a third alternative to spraying in water or in liquid fertilizer.

Rainfall-free Periods for Postemergence Corn and Grain Sorghum Herbicides

Herbicide	Time Before Rainfall*
Accent	4 hr
Atrazine	1 to 2 hrs
Banvel	6 to 8 hrs
Basagran	8 hrs
Beacon	4 hrs
Buctril	1 hr
Buctril/Atrazine	1 hr
Callisto	1 hr
Capreno	1 hr
Corvus	1 hr
Gambit	4 hr
Glufosinate	4 hrs
Glyphosate	6 hrs
Halex GT	1 hr
Paraquat	30 min
Permit, Permit Plus	4 hrs
ShieldEx	1 hr
2,4-D amine or other	6 to 8 hrs

*This is the interval that must occur prior to a rainfall event in order to maintain maximum weed control.