

Corn Herbicide Performance

GRASSES AND NUTSEDDGE

Key:
P=Less than 65%
F=65-79%
G=80-90%
E=90% or better

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 ***Only for use on Roundup Ready Corn.

TOLERANCE BARNYARDGRASS CRABGRASS FALL PANICUM FOXTAIL, GIANT FOXTAIL, GREEN FOXTAIL, YELLOW GOOSEGRASS JOHNSONGRASS, SEEDLING JOHNSONGRASS, RHIZOME QUACKGRASS SHATTERCANE WILD PROSO MILLET WOOLLY CUPGRASS VOLUNTEER CORN YELLOW NUTSEDDGE

	PRE-EMERGENCE OR PRE-PLANT INCORPORATED																	
SORGHUM	Atrazine	E	G	F	P	F	F	F	F	P	P	F	P	P	P	P	P	
	Balance Flex/Balance Pro	G	G	G	G	G	G	F	G	P	P	P	P	G	G	P	P	
	Bicep II Magnum/Parallel Plus	E	E	E	E	E	E	E	G	F	P	P	P	F	F	P	G	
SOYBEANS	Bullet	E	E	E	E	E	E	E	G	F	P	P	P	F	F	P	F	
	Corvus	E	E	E	E	E	E	E	G	F	P	P	G	E	E	P	F	
	Dual II Magnum/Parallel	E	E	E	E	E	E	E	G	F	P	P	P	F	F	P	G	
	Guardman Max	E	E	E	E	E	E	E	G	F	P	P	P	F	F	P	G	
COTTON	Harness Xtra 5.6L/Degree Xtra	E	E	E	E	E	E	E	G	F	P	P	F	F	F/G	P	G	
	Keystone/FulTime	E	E	E	E	E	E	E	G	F	P	P	F	F/G	F/G	P	G	
	Lariat	E	E	E	E	E	E	E	G	F	P	P	P	F	F	P	F	
	Lasso Micro-Tech	E	E	E	E	E	E	E	G	F	P	P	P	F	F	P	F	
RICE	Lumax/Lexar	E	E	E	E	E	E	E	G	F	P	P	P	F	F	P	G	
	Outlook	E	E	E	E	E	E	E	E	G	P	P	F	F/G	F/G	P	G	
	Prowl	G	E	E	E	E	E	E	E	G	P	P	G	F	G	F	P	
	Radius	E	E	E	E	E	E	E	G	F	P	P	F	F	G	P	P	
FORAGES	SureStart	E	E	E	E	E	E	E	G	F	P	P	F	F/G	F/G	P	G	
	POST-EMERGENCE																	
	Accent	E	G	P	E	E	E	G	G	E	G	G	E	G	G	P	P	
	Atrazine+crop oil	G	G	F	P	F	F	F	F	P	P	F	P	P	P	P	F	
	Basagran	E	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G	
	Basis	G	G	F	F	G	G	G	P	P	P	F	G	F	F	P	P	
	Beacon	E	P	P	F/G	F	F	F	P	E	G	G	E	G	P	P	P	
	Callisto	E	P	F/G	P	P	P	P	P	P	P	P	P	P	P	P	P	
	Glyphosate ***	E	G	E	E	E	E	E	E	E	G	G	E	E	E	E	F	
	Laudis	E	G	G	P	G	P	G	F	G	P	P	G	G	G	P	P	
SMALL GRAINS	Lightning*	E	G	G	E	E	E	E	G	E	G	F	E	E	G	G	F	
	Ignite 280SL**	E	G	G	G	E	E	G	G	G/E	F/G	G	G	G	E	G	P	
	Impact	E	G	G	P	G	P	E	E	G	P	P	G	G	G	P	P	
	Northstar	G	P	P	F	F	F	F	P	G	F	G	G	P	P	P	P	
LAWN & GARDEN	Option	E	E	G	E	E	E	E	G	E	G	G	E	E	G	P	P	
	Permit	E	P	P	P	P	P	P	P	P	P	P	P	P	P	P	E	
	Spirit	E	P	P	F	F	F	F	P	E	F	G	E	P	P	P	P	
	Steadfast	E	E	G	E	E	E	E	G	E	G	G	E	E	G	P	P	
	Stout	E	G	P	E	E	E	G	G	E	G	G	E	G	G	P	P	
Yukon	G/E	P	P	P	P	P	P	P	P	P	P	P	P	P	P	E		

MAKE YOUR VOICE COUNT



The **Missouri Corn Growers Association (MCGA)** relies on the strength of its members to defend the corn industry in the halls of the Capitols. With only 10 percent of Missouri's corn-farmers, MCGA has played a key role in expanding corn markets, protecting the environment and passing important legislation such as the Missouri Renewable Fuel Standard. Imagine what we could accomplish if every corn farmer joined. To become a member, call toll-free (800) 827-4181 or visit www.mocorn.org. Make the choice. Strengthen your voice. Join MCGA today.



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TOLERANCE
 COCKLEBUR****
 COPPERLEAF, HOPHORNBEAN
 JIMSONWEED
 KOCHIA
 LAMBSQUARTER
 MORNINGGLORY
 NIGHTSHADE, BLACK
 PIGWEED
 PRICKLY SIDA
 RAGWEED, COMMON
 RAGWEED, GIANT
 SMARTWEED
 SUNFLOWER****
 VELVETLEAF
 WATERHEMP****

	PRE-EMERGENCE OR PRE-PLANT INCORPORATED															
Atrazine	E	G	F	E	G/E	E	G	E	E	E	E	G	E	G	G	G
Balance Flex/Balance Pro	G	F/G	F	F/G	G	E	P	G/E	E	G	G/E	F/G	G/E	F	G/E	E
Bicep II Magnum/Parallel Plus	E	G	F	E	G/E	E	G	E	E	E	E	G	E	G	G	E
Bullet	E	G	F	E	G/E	E	G	E	E	E	E	G	E	G	G	E
Corvus	E	G	F	G	G	E	G	E	E	F	G	G	G	G	E	E
Dual II Magnum/Parallel	E	P	P	P	P	F/G	P	G	E	P	P	P	P	P	P	G
Guardman Max	E	G	F	E	G/E	E	G	E	E	E	E	G	E	G	G	E
Harness Xtra 5.6L/Degree Xtra	E	G	F	E	G/E	E	G	E	E	E	E	G	E	G	G	E
Hornet WDG	E	G	G	G	G	E	G	G	E	G	G	F	E	E	E	G
Keystone/FulTime	E	G	F	E	G/E	E	G	E	E	E	E	G	E	G	G	E
Lariat	E	G	F	E	G/E	E	G	E	E	E	E	G	E	G	G	E
Lasso Micro-Tech	E	P	P	P	P	F	P	G	E	P	P	P	P	P	P	G
Lumax/Lexar	E	G	F	G	G/E	E	G	E	E	F	F	F	G/E	G	E	E
Outlook	E	P	F	P	F	E	F	E	E	P	P	P	F	P	P	G
Prowl	G	P	P	P	G	E	P	P	E	P	P	P	P	P	P	G
Radius	G	F/G	F	G/E	G	E	P	G/E	E	G	G/E	F/G	G/E	F	G/E	E
POST-EMERGENCE																
2,4-D Amine	G	E	F	G	F	E	E	F	E	G	G	G	F	G	G	G
2,4-D LOV	G	E	F	G	F	E	E	F	E	G	G	G	P	G	G	G
Accent	E	P	P	F	P	P	F	P	G	P	P	P	G	P	P	F
Aim	G	F	G	G	G	E	E	E	E	G	G	F	G	F	E	G
Atrazine + crop oil	G	E	F	E	E	E	G	E	E	E	E	G	E	E	E	G
Basagran	E	E	P	E	F	F	F	P	P	G	G	G	E	G	G/E	P
Basis	G	F	P	F	P	E	F	P	E	P	F	P	E	F	G	F
Beacon	E	E	P	G	G	P	F	G	G	G	G	G	G	E	F	F
Buctril	E	E	P	G	F	E	G	G	F	P	E	G	G	E	G	F
Cadet	G	F	F	F	G	E	G	G	G	F	F	F	F	P	E	G
Callisto	E	E	P	E	G	E	F/G	E	G	F	G	E	E	G	E	E
Clarity	G	E	F	E	G	E	E	G	E	G	G	G	E	G	G	G
Distinct	G	E	F	E	E	E	E	E	E	G	E	E	E	G	G	E
Glyphosate ***	E	E	F	E	G	E	F/G	G	E	G	E	G	G	E	G	E
Hi-Dep	G	E	F	E	G	E	E	G	E	G	G	G	G	G	G	G
Hornet WDG	E	E	G	G	F	F	G	F	F	G	E	E	E	E	E	F
Ignite 280SL**	E	G/E	G	G	G	G	G/E	E	E	E	E	E	E	E	G	G
Impact	E	E	P	E	G	E	F	E	G	P	E	E	E	E	E	E
Laudis	E	E	P	E	G	E	F	E	G	P	E	E	E	E	E	E
Lightning*	E	E	F	G	G	E	G	E	E	G	F	G	E	E	E	F
Northstar	G/E	E	P	E	G	G	E	E	E	F	E	E	E	E	E	F/G
Option	E	G	P	G	P	G	P	G	G	P	G	P	P	G	G	P
Permit	E	E	P	F	F	P	P	P	G	P	G/E	G	F	E	E	F
Resource	E	P	P	P	P	F	P	P	F	P	P	P	P	P	E	F
Spirit	E	E	P	E	G	G	G	E	E	F	E	E	E	E	G	F

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 WATERHEMP****

Status	G	E	F	E	E	E	E	E	E	G	E	E	E	G	G	E
Steadfast	E	F	P	G	P	F	G	P	E	P	P	P	G	G	F	F
Stout	E	P	P	G	P	G	G	P	G	P	P	P	G	P	G	F
SureStart	E	G	G	G	G	E	G	G	E	G	G	F	E	E	E	G
Yukon	G/E	E	F	E	G	E	E	G	E	G	G	G	E	G	E	G

Corn Herbicides

PRE-EMERGENT

PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
AAtrex 4L/ Atrazine	3.2-4.0 pts.	Med-Fine		Controls broadleaf weeds and some annual grasses. Can be applied from 45 days prior to planting to shortly after planting. If the soil coverage with plant residue is less than 30% at planting, a maximum of 1.8 lbs per acre may be applied.
AAtrex Nine-O/ Atrazine Nine-O	2.2 lbs.	Med-Fine		Controls broadleaf weeds and some annual grasses. Can be applied from 45 days prior to planting to shortly after planting. If the soil coverage with plant residue is less than 30% at planting, a maximum of 1.8 lbs per acre may be applied.
Balance Flexx	3 oz.	Coarse	<1.5%	Includes CSI safener technology, an new bayer safener that will allow greater flexibility of use. Controls grass and broadleaf weeds. Balance Flexx can be used on any soil with greater crop compatibility and allow application through two leaf-collars. Tank mix wit atrazine to improve performance.
	4 oz.	Coarse	>1.5%	
	5 oz.	Medium	<1.5%	
	6 oz.	Medium	>1.5%	
	6 oz.	Fine	<1.5%	
	6 oz.	Fine	>1.5%	
Balance PRO	Not recommended	Coarse	<1.5%	Rates based on 0-7 days before planting, rates may be increased for 8-21 days prior to planting, check label for rates. Controls broadleaf weeds and grasses. Root and shoot absorbed product. Will recharge and kill emerged weeds and grasses up to 2" tall each time it rains. A reduced rate of a companion product is recommended to increase the spectrum of weed control. *When applied PRE to medium soils with a pH >7.5, reduce the rate by 0.38 fl. oz. from the recommended rate. **Apply tank mix partners at one half to full rate but not to exceed 1.5 pounds total triazine when used preemergence or 0 to 7 days prior to planting. Do not exceed 2.0 pounds total triazine when used early preplant 8-30 days prior to planting. Do not exceed 1 pound total active ingredient per acre of Simazine/Princep.
	1.5-1.87 fl. oz.	Coarse	>1.5%	
	1.87-2.62 fl. oz.	Medium	<1.5%	
	2.25-3.0 fl. oz.	Medium	>1.5%	
	2.25-3.0 fl. oz.	Fine	<1.5%	
2.25-3.0 fl. oz.	Fine	>1.5%		
Basis	0.33-1.0 oz.	Med-Fine	>1%	Apply 0.5 oz. in spring or fall for burndown of winter annual weeds and early season residual control of spring annual weeds. Follow with a postemergence herbicide for full season control of grass and broadleaf weeds.

Corn Herbicides

PRE-EMERGENT

	PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
CORN	Bicep II Magnum/ Parallel Plus	1.3 qts.	Coarse	<3%	Controls broadleaf weeds and annual grasses. Apply preplant, preemerge and preplant incorporated. Can be applied 30 days prior to planting. One gal. Bicep II Magnum contains 2.51 pts. Dual II Magnum + 3.1 qts. AAtrex 4L. Can be impregnated. Apply minimum 10 gal. water per acre. Can be tank mixed with other herbicides.
		1.6 qts.	Coarse	>3%	
		1.6 qts.	Medium	<3%	
		2.1 qts.	Medium	>3%	
		2.1 qts.	Fine	<3%	
		2.1-2.6 qts.	Fine	>3%	
SORGHUM	Bullet	2.5 qts.	Coarse	<3%	Controls broadleaf weeds and annual grasses. Apply preplant, preemerge or preplant incorporate. Can be applied 30 days prior to planting. Can be impregnated. Same application rates for surface and incorporated treatments. If applied after emergence weeds must be less than 2 inches tall and crop less than 5 inches tall.
		3.0 qts.	Coarse	>3%	
		3.0 qts.	Medium	<3%	
		3.75 qts.	Medium	>3%	
		3.75 qts.	Fine	<3%	
		3.75-4.5 qts.	Fine	>3%	
SOYBEANS	Corvus	3.33 oz.	Coarse	<2%	Includes CSI safermer technology, a new bayer safermer that will allow greater flexibility of use. Controls grass and broadleaf weeds. Corvus can be used on any soil with greater crop compatibility and allow application through two leaf-collars. Tank mix with atrazine to improve performance.
		5.6 oz.	All other types	>2%	
COTTON	Degree Xtra	2.9 qts.	Coarse		Encapsulated Harness plus Atrazine. Controls annual grasses and broadleaf weeds. Contains 5.68 pts. of Degree and 1.34 qts of atrazine per gallon. Can be applied up to 30 days before planting. Can be incorporated. Liquid fertilizers can be used as carriers. Can be tank mixed with other corn herbicides.
		2.9-3.7 qts.	Medium		
		3.2-3.7 qts.	Fine		
RICE	Dual II Magnum/ Parallel	1-1.33 pts.	Coarse	<3%	Controls annual grasses and small seeded broadleaf weeds. Can be incorporated. Can be applied 30 days prior to planting. Liquid N can be substituted for water. Can be impregnated. Small grains may be planted 4.5 months after treatment. Use higher rate to control nutgrass and black nightshade. Can be tank mixed with other herbicides.
		1.33 pts.	Coarse	>3%	
		1.33 pts.	Medium	<3%	
		1.67 pts.	Medium	>3%	
		1.33-1.67 pts.	Fine	<3%	
		1.67-2.0 pts.	Fine	>3%	
FORAGES	FulTime	2.5-2.7 qts.	Coarse	<3%	Controls annual grasses and broadleaf weeds. Can be incorporated into the top 2" of soil at any time within 14 days prior to planting. Can be applied up to 40 days before planting except on coarse textured soils. Liquid fertilizer can be used as carriers. Can be tankmixed with other corn herbicides. For nutsedge control use higher rates. Check label for recommended rates. Rates will vary depending upon time from application to planting. Can be applied postemergent to corn up to 11" tall. FulTime contains 2.4 lbs. acetochlor and 1.6 lbs. atrazine/gal.
		2.7-3.0 qts.	Coarse	>3%	
		2.7-3.3 qts.	Medium	<3%	
		3.0-3.3 qts.	Medium	>3%	
		3.0-3.5 qts.	Fine	<3%	
		3.0-5.0 qts.	Fine	>3%	
SMALL GRAINS	Guardsman Max	2.5-3.0 pts.	Coarse	<3%	Controls most early season broadleaf weeds and annual grasses. Can be applied 45 days prior to planting, incorporated, pre-emerge, or post up to 12" tall corn. Can be impregnated and mixed with other herbicides.
		3.0-4.0 pts.	Coarse	>3%	
		3.0-4.0 pts.	Med-Fine	<3%	
		4.0-4.6 pts.	Med-Fine	>3%	
LAWN & GARDEN	Harness Xtra 5.6L	1.4 qts.	Coarse	<3%	Controls annual grasses and broadleaf weeds. Contains 3.54 pts. of Harness and 2.5 qts. of atrazine per gallon. Do not exceed 2.5 qts. of Harness Xtra 5.6L on highly erodible soils with less than 30 % residue cover. Can be incorporated. Can be applied up to 30 days before planting. Can be impregnated. Liquid fertilizers can be used as carriers. Can be tank mixed with other corn herbicides.
		1.7 qts.	Coarse	>3%	
		1.7-2.4 qts.	Medium	<3%	
		2.3-2.6 qts.	Medium	>3%	
		2.3-2.6 qts.	Fine	<3%	
		2.3-3.0 qts.	Fine	>3%	
SEED	Bicep II Magnum/ Parallel Plus	1.3 qts.	Coarse	<3%	Controls broadleaf weeds and annual grasses. Apply preplant, preemerge and preplant incorporated. Can be applied 30 days prior to planting. One gal. Bicep II Magnum contains 2.51 pts. Dual II Magnum + 3.1 qts. AAtrex 4L. Can be impregnated. Apply minimum 10 gal. water per acre. Can be tank mixed with other herbicides.
		1.6 qts.	Coarse	>3%	
		1.6 qts.	Medium	<3%	
		2.1 qts.	Medium	>3%	
		2.1 qts.	Fine	<3%	
		2.1-2.6 qts.	Fine	>3%	
FERTILIZER	Bullet	2.5 qts.	Coarse	<3%	Controls broadleaf weeds and annual grasses. Apply preplant, preemerge or preplant incorporate. Can be applied 30 days prior to planting. Can be impregnated. Same application rates for surface and incorporated treatments. If applied after emergence weeds must be less than 2 inches tall and crop less than 5 inches tall.
		3.0 qts.	Coarse	>3%	
		3.0 qts.	Medium	<3%	
		3.75 qts.	Medium	>3%	
		3.75 qts.	Fine	<3%	
		3.75-4.5 qts.	Fine	>3%	

Corn Herbicides

PRE-EMERGENT

PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
Hornet WDG	4 oz.	Coarse	<3%	Controls broadleaf weeds. Can be incorporated. Can be applied up to 30 days before planting. Liquid N can be substituted for water. Can be impregnated. Apply alone or in tank mix combination with a grass herbicide. Use on soils that average less than 1.5% organic matter may result in crop injury. Do not use if Counter insecticide will be used. Use 3-4 oz. per acre as a tank mix with an atrazine containing grass herbicides such as FullTime or Keystone for improved broadleaf control. Supplemental label allows aerial application of Hornet in Iowa, Kansas, Colorado, Minnesota, Nebraska, Oklahoma, North Dakota, South Dakota and Texas.
	4-5 oz.	Coarse	>3%	
	4-5 oz.	Medium	<3%	
	5.0 oz.	Medium	>3%	
	4-5 oz.	Fine	<3%	
	5.0 oz.	Fine	>3%	
Keystone	2.2-2.4 qts.	Coarse	<3%	Controls annual grasses and broadleaf weeds. Can be incorporated in top 2" of soil. These are preemergence, preplant, and early post rates for application within 14 days of planting. See label for rate if application is to be made more than 14 days ahead of planting. Can apply to corn up to 11" tall. Can be applied with liquid fertilizer or impregnated, but do not use with liquid fertilizer when post applied.
	2.4-2.6 qts.	Coarse	>3%	
	2.4-2.8 qts.	Medium	<3%	
	2.6-2.8 qts.	Medium	>3%	
	2.6-3.0 qts.	Fine	<3%	
	2.6-3.4 qts.	Fine	>3%	
Lariat	2.5 qts.	Coarse	<3%	Controls broadleaf weeds and annual grasses. Can be incorporated. Can be applied 30 days prior to planting. Use rotation restrictions. One gallon of Lariat contains 2.5 qts. Lasso + 1.5 qts. Atrazine. Use higher rate if incorporated. It can be tank mixed with other herbicides.
	3.0 qts.	Coarse	>3%	
	3.0 qts.	Medium	<3%	
	3.75 qts.	Medium	>3%	
	3.75 qts.	Fine	<3%	
	3.75-4.5 qts.	Fine	>3%	
Lasso Micro-Tech	2.0-2.25 qts.	Coarse	<3%	Controls some broadleaf weeds and annual grasses. Can be incorporated but check label for recommended rates. Can be applied 30 days prior to planting. Can be impregnated. Use maximum label rates on high organic matter soils, difficult weeds or incorporation. Can be tank mixed with other herbicides.
	2.0-2.25 qts.	Coarse	>3%	
	2.0-2.75 qts.	Medium	<3%	
	2.0-2.75 qts.	Medium	>3%	
	2.0-2.75 qts.	Fine	<3%	
	2.5-3.25 qts.	Fine	>3%	
Lexar	3.0 qts.		<3%	Controls grasses and broadleaf weeds. Do not apply prior to 14 days before planting or to field corn higher than 12". See label for insecticide restrictions.
	3.5 qts.		>3%	
Lumax	2.5 qt		<3%	Controls grasses and broadleaf weeds. Do not apply more than 14 days prior to planting or to field corn higher than 12". Lumax is not recommended on soils with greater than 10% organic matter. See label for insecticide restrictions.
	3.0 qt		>3%	
Outlook	12-14 oz.	Coarse	<3%	Controls grasses and some broadleaf weeds, such as, pigweeds. Can be incorporated. Can be applied up to 45 days prior to planting. Use highest rates for best waterhemp and nightshade activity. Can be applied up to 12" tall corn.
	14-18 oz.	Coarse	>3%	
	14-18 oz.	Med-Fine	<3%	
	18-21 oz.	Med-Fine	>3%	
Prowl H2O	3.0 pts.	Coarse	1.5-3.0%	Controls annual grasses and some broadleaf weeds. Do not incorporate. Plant corn at least 1.5" deep to insure good seed coverage.
	3.0 pts.	Coarse	>3%	
	3.0 pts.	Medium	1.5-3.0%	
	4.0 pts.	Medium	>3%	
	4.0 pts.	Fine	1.5-3.0%	
	4.0 pts.	Fine	>3%	

GENERAL

CORN

SORGHUM

SOYBEANS

COTTON

RICE

FORAGES

SMALL GRAINS

LAWN & GARDEN

SEED

FERTILIZER

Corn Herbicides

PRE-EMERGENT

PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
Python WDG	0.80-1.0 oz.	Coarse		Controls broadleaf weeds. Can apply up to 30 days before planting thru spike stage of corn. Can be tank mixed with most corn herbicides. Check label because rates will vary depending on weed species. Can be incorporated. Liquid fertilizers can be used as carriers except on corn that is spiking.
	0.89-1.33 oz.	Medium		
	0.89-1.33 oz.	Fine		
Radius	7-9 oz.	Coarse	<3%	Controls broadleaf weeds and grasses. Apply with atrazine for improved control of grass and broadleaf weeds. Application rates may vary according to application timing and soil texture grouping. Choose the correct rate of Radius according to your cropping management and soil texture group. Applications may be made preplant surface, preplant incorporated or preemergence. Do not apply after corn emergence or crop injury may occur.
	13-18 oz.	Coarse	>3%	
	12-22 oz.	Medium	<3%	
	17-27 oz.	Medium	>3%	
	19-28 oz.	Fine	<3%	
	19-28 oz.	Fine	>3%	
Resolve	Do not apply	Coarse		Burndown and residual control of annual grasses and broadleaves. May be tank mixed with other pre corn products to broaden spectrum. Do not apply more than 2 oz of Resolve herbicide per year (.5 oz of rimsulfuron). This includes pre and post combinations of Resolve, Steadfast, Basis, or Clarion. Limit preemergence rates of Resolve to 1.25 oz if following with a post-emergent products containing rimsulfuron previously mentioned above.
	0.5-2.0 oz.	Medium		
	0.5-2.0 oz.	Fine		
SureStart	1.5 pts.	Coarse		Use SureStart as a foundation residual herbicide in herbicide tolerant crops. Application closer to planting provides optimal weed control. May apply up to 11" tall.
	1.75 pts.	Medium		
	2.0 pts.	Fine		



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 **BASF**

The Chemical Company

Headline[®]
fungicide

Corn Herbicides

POST-EMERGENT

	PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
CORN	2,4-D Amine	1 pt.	All types		Controls broadleaf weeds. Use drop nozzles when crop is over 10 inches tall. Do not use surfactant. Apply while weeds are growing vigorously.
	2,4-D LOV	.5 pt.	All types		Controls broadleaf weeds. Use drop nozzles when crop is over 10 inches tall. Do not use surfactant. Apply while weeds are growing vigorously.
SORGHUM	AAtrex 4L/ Atrazine	4.0 pts.	All types		Controls broadleaf weeds and some annual grasses. Add 1 qt. crop oil per acre. Use rotation restrictions. Rainfast in 2 hours. Apply before weeds and grasses are 1.5 inches tall and before corn exceeds 12 inches tall. Do not tank mix with 2,4-D. Do not use liquid N for control of grass. Apply a maximum of 4 pts./A broadcast if no atrazine was applied prior to corn emergence. If a post emergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 5 pts./A per calendar year.
SOYBEANS	AAtrex Nine-O/ Atrazine Nine-O	2.2 lbs.	All types		Controls broadleaf weeds and some annual grasses. Add 1 qt. crop oil per acre. Use rotation restrictions. Rainfast in 2 hours. Apply before weeds and grasses are 1.5 inches tall and before corn exceeds 12 inches tall. Do not tank mix with 2,4-D. Do not use liquid N for control of grass. Apply a maximum of 2.2 lbs./A broadcast if no atrazine was applied prior to corn emergence. If a post emergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.8 lbs./A per calendar year.
COTTON	Accent	.66-1.33 oz.	All types		Controls Johnsongrass, most annual grasses and some broadleaf weeds. Add one quart surfactant/100 gallons of water or 1% by volume (1 gal/100 gal spray) of crop oil concentrate. Add 1 gal. liquid N per acre. Can be tank mixed: Atrazine and/or Butril, Banvel, or Clarity. Broadcast or use drop nozzles on corn up to 24 inches tall (free standing) or exhibiting 6 or fewer collars whichever is most restrictive. Use drop nozzles for corn 24 to 36 inches tall (free standing). Do not apply to field corn taller than 36 inches or exhibiting 10 collars, whichever comes first. Do not apply to corn taller than 12 inches when tank mixing Accent with Atrazine or Atrazine + Butril. Accent + Atrazine use crop oil. Accent + Butril, Accent + Butril + Atrazine, or Accent + Marksman use surfactant. Do not mix Accent with Basagran or 2,4-D. Check label for possible soil insecticide interactions.
RICE	Aim EC	0.5 oz.	All types		Controls broadleaf weeds. Works best on weeds 1-4 inches tall. Aim is a contact herbicide with little or no residual activity. Can be tank mixed with Atrazine and other post broadleaf and grass herbicides (see label). NIS at 0.25% v/v is the minimum surfactant needed. Aim can be mixed with COC or AMS but crop response may increase. Avoid directing spray into whorls or spraying under high moisture conditions (heavy dew or rain) as crop response may increase. Do not apply more than 2.0 oz. per season. Apply up to 8 leaf collar stage broadcast or up to 14 leaf collar by directed spray application.
FORAGES	Basagran	1.5-2.0 pts.	All types		Controls broadleaf weeds. Add one quart crop oil per acre or add one gallon liquid N per acre for increased velvetleaf control. Can be tank mixed with Atrazine. Controls yellow nutsedge.
SMALL GRAINS	Basis	.33 oz.	All types		Controls foxtails, fall panicum and barnyardgrass up to 2 inches tall. Will control some broadleaf weeds. Apply to corn in the spike to 4-leaf (2 collar) stage. Apply only in conventional tillage systems where a lay-by cultivation is planned and conducted 10 to 17 days after application. Can be tank mixed with atrazine or Hornet WDG for increased broadleaf weed control. Do not tank mix with 2,4-D or Basagran. Add 1-2 qts. NIS per 100 gallon and 2-4 qts. liquid N per acre. Check label for possible soil insecticide interactions. May be applied at .33-.5 oz. in fall. May be applied at .33-1.0 oz. early pre-plant or pre-emergence.
LAWN & GARDEN	Beacon	.76 oz.	All types		For Johnsongrass, shattercane, some broadleaf weeds and annual grass control use .76 oz./A. Add 1 qt. surfactant per 100 gal. of water or 1 qt. crop oil/A plus 1 gal. liquid N/A. Can be tank mixed with Accent, Butril, or 2,4-D. Apply over the top of corn up to 20 inches tall. For Johnsongrass or heavy infestation of shattercane use a split application of .5 oz./A followed by a .25 oz./A. When tank mixing with another product use only a surfactant. Do not use if Counter insecticide was used. For some broadleaf weed control use .38 oz./A. For rescue control of grasses and broadleaf weeds following a preemergent herbicide program use .38 oz. Beacon and .33 oz. Accent. Check label for timing.
SEED	Bicep II Magnum/ Parallel Plus	1.6 qts. 2.1 qts. 2.1-2.6 qts.	Coarse Medium Fine		Controls broadleaf weeds and annual grasses. Apply before weeds pass the 2 leaf stage and corn exceeds 5". Do not apply with fluid fertilizer.
FERTILIZER					

Corn Herbicides

POST-EMERGENT

PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
Buctril 2EC	1.0-1.5 pts.	All types		Controls broadleaf weeds. For larger weeds, apply anytime up to tassel if used alone. Can be tank mixed with Accent, Atrazine, Beacon, or Sencor. Rainfast in 1 hour. Apply before weeds are 2-6 inches tall. Corn should be 3 leaf stage or greater.
Bullet	2.5 qts.	Coarse	<3%	Controls broadleaf weeds and annual grasses. One gallon of Bullet contains 2.5 quarts Micro-Tech + 1.5 qts. Atrazine. Apply before weeds and grasses pass the 2 leaf stage and before corn exceeds 5 inches tall. Do not mix with fluid fertilizer.
	3.0 qts.	Coarse	>3%	
	3.0 qts.	Medium	<3%	
	3.75 qts.	Medium	>3%	
	3.75 qts.	Fine	<3%	
	3.75-4.5 qts.	Fine	>3%	
Callisto	3 oz.	All types		Controls broadleaf weeds. Do not apply Callisto if the corn crop was treated with Counter or Lorsban insecticide as severe corn injury may occur. Add 1 gallon of COC per 100 gallons of spray solution, do not use MSO. Also add 8.5 lbs. of AMS per 100 gallons of spray solution or UAN at 2.5% (v/v). Can be applied to corn up to 30" tall or up to the 8-leaf stage. Tank mix with atrazine to improve performance if corn is under 12".
Clarity	8-16 oz.	All types		Controls broadleaf weeds. Can be tank mixed with Atrazine. Rainfast in 4 hours. Apply to corn from spike stage through 8" corn when weeds have emerged and are actively growing. Do not spray if beans are growing nearby. For coarse textured soils reduce the rate to 8 oz. per acre. Velvetleaf control may be improved with the addition of .5-1 gal. 28% per acre or 2.5 lbs. AMS per acre. Use 8 oz. rate on corn from 8"-36" tall.
Degree Xtra	2.9 qts.	Coarse		Controls broadleaf weeds and annual grasses. Emerged weeds may not be controlled. Apply before corn reaches 11" in height. Do not apply with fluid fertilizer.
	2.9-3.7 qts.	Medium		
	3.2-3.7 qts.	Fine		
Distinct	4-6 oz.	All types		Controls broadleaf weeds and provides grass suppression. Use 4 oz rate on 10-24" tall corn. May be applied to 24-36" tall corn with drop nozzles. Use 6 oz rate on 4-10" tall corn. Use 1 qt. of NIS/100 gal. plus 5 qt. of 28%UAN/100 gal. AMS may be substituted for UAN at a minimum of 5 pounds per 100 gallons of spray mix.
FulTime	2.5-3.0 qts.	Coarse		Controls broadleaf weeds and annual grasses. Emerged weeds may not be controlled. Apply before corn reaches 11" in height. Do not apply with fluid fertilizer. Rate varies by organic matter.
	2.7-3.3 qts.	Medium		
	3.0-4.0 qts.	Fine		
Glyphosate (4#/gal)	24-32 oz.	All types		Use only on Roundup Ready corn. Applications can be made alone or in tank mixture with residuals. Maximum combined total of in crop applications from emergence through v8 or 30" is 2 qts. per acre.
Guardsman Max	2.5-3.0 pts.	Coarse	<3%	Controls most early season broadleaf weeds and annual grasses. Can be applied 45 days prior to planting, incorporated, pre-emerge, or post up to 12" tall corn. Can be impregnated and mixed with other herbicides.
	3.0-4.0 pts.	Coarse	>3%	
	3.0-4.0 pts.	Med-Fine	<3%	
	4.0-4.6 pts.	Med-Fine	>3%	
Harness Xtra 5.6L	1.4-1.7 qts.	Coarse		Controls broadleaf weeds and annual grasses. Emerged weeds may not be controlled. Apply before corn reaches 11" in height. Do not apply with fluid fertilizer.
	1.7-2.6 qts.	Medium		
	2.3-3.0 qts.	Fine		
Hi-Dep	.5-1 pt.	All types		Controls hard to kill broadleaf weeds. Apply .5-1 pt for corn up to 8" tall. Use drop nozzles when corn is over 8 inches tall. Apply 1 pt. to corn 8" tall to tasseling (directed spray only). Do not apply from tasseling to dough stage. Do not cultivate for ten days.
Hornet WDG	2-5 oz.	All types		Controls broadleaf weeds. Apply to corn at spike to 20 inches tall or v6 stage. Add 1 qt. NIS per 100 gallons or 1 gallon of COC or MSO per 100 gallons. For best results apply to weeds less than 8 inches tall. See label for list of weed rates.

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POST-EMERGENT

	PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
CORN	Ignite 280SL	22 oz.	All types		Controls broadleaf weeds and grasses in corn hybrids designated as Liberty Link or corn hybrids warranted by Bayer. May apply over the top to these corn hybrids from emergence through V5, 5 developed collars. Add 1.5 lbs. AMS per acre. Check label for tank mix combinations that could enhance or give residual control. Ignite herbicide should be applied broadcast in a minimum of 15 gallons per acre. Ignite herbicide is a planned two-pass option following a Pre-emerge herbicide.
SORGHUM	Impact	0.75 oz	All types		It is a systemic post-emergent herbicide for the control or growth suppression of emerged broadleaf and grass weeds in corn. Do not exceed a total of 0.75 oz per acre per growing season. A MSO is preferred but a COC may be used at 1% v/v of spray solution. A nitrogen source of AMS at 8.5 to 17 lbs/100 gallons of solution must also be used.
SOYBEANS	Keystone	2.2-2.6 qts.	Coarse		Can apply after corn emergence to corn up to 11" tall. May not control emerged weeds. Do not use fertilizer as carrier.
		2.4-2.8 qts.	Medium		
		2.6-3.4 qts.	Fine		
COTTON	Lasso Micro-Tech	2.0-2.25 qts.	Coarse		Controls broadleaf weeds and annual grasses. Apply before corn exceeds 5 inches in height. Weeds emerged at time of application are not controlled. If weeds are emerged at application, shallowly cultivate or rotary hoe immediately to improve performance. Do not apply with fluid fertilizer.
		2.0-2.75 qts.	Medium		
		2.0-2.75 qts.	Fine	<3%	
		2.5-3.25 qts.	Fine	>3%	
RICE	Laudis	3 oz.	All types		Controls grass and broadleaf weeds. Apply broadcast from emergence thru the V8 stage of growth. Two applications can be made post-emergence with a total maximum of 6 oz/A. Tank mix with atrazine to improve performance if corn is less than 12". No insecticide interaction. Add 1%V/V of MSO plus AMS 8.5 lb/100 gal of spray solution or 1.5 qt/ac UAN. A tankmix of an ALS POST grass product must be added to control fall panicum.
	Lexar	3.0-3.5 qts.			Apply to small broadleaf weeds <3" tall and before corn reaches 12". Do not apply with liquid fertilizer post-emergent. Use NIS at 0.25% v/v. The use of COC may cause temporary injury.
FORAGES	Lightning	1.28 oz.	All types		Controls broadleaf weeds and grasses in Clearfield corn hybrids designated as resistant or tolerant to Lightning applications up to 20" tall corn. Always add COC/MSO at 1% v/v OR 1 qt. surfactant per 100 gallons of water AND 1-2 qt. of liquid nitrogen solution per acre OR 2.5 lbs. AMS per acre. Apply when weeds are 3-4 inches in height. Refer to label for insecticide usage and crop rotational guidelines. May tank mix with Atrazine, Buctril, Clarity, Distinct and others. When tank mixing always check label for proper additive selection.
SMALL GRAINS	Lumax	2.5-3.0 qts.	All types		Apply to small broadleaf weeds <3" tall and before corn reaches 12". Use NIS at 0.25% v/v. Use of COC may result in temporary injury.
	NorthStar	5 oz.	All types		Controls broadleaf weeds and grasses. Apply to corn between 4 and 20 inches (V2-V6) tall. For corn 20 to 36 inches tall, use drops. Five oz. of NorthStar contains 0.5 oz. of Beacon and 4.0 oz. of Banvel/Clarity. Use NIS or COC/MSO plus Liquid N or AMS on corn up to 12" tall. Do not use COC/MSO if corn is over 12" tall. Do not use with liquid fertilizer. Only 1 application per season. Check label for other precautions, including inbred hybrids and popcorn. Damage can occur to nearby sensitive plants including soybeans.
LAWN & GARDEN	Option	1.5 oz.	All types		Controls grasses and many broadleaf weeds. Apply Option broadcast to corn through the V6 corn stage. Do not apply after V7 stage, if needed use drop nozzles up to V8 corn stage. Use MSO at 1.5 pts. per acre + AMS at 1.5 lbs. per acre or 28% at 1.5 qts. per acre. Option can be tank mixed with many herbicides for additional control of broadleaf weeds.
SEED	Permit	.67-1.33 oz.	All types		Controls broadleaf weeds and nutsedge. Apply from spike to lay-by. Add 1 qt. surfactant per 100 gallons of water. Use 1 oz. per acre for nutsedge control. Can be tank mixed with Accent, Atrazine, Banvel, Beacon, Buctril or 2,4-D.
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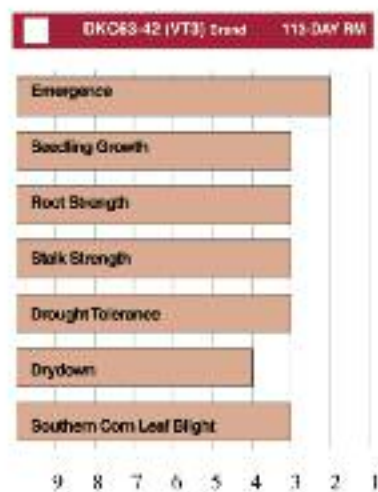
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- Very good stalk and root strength
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- Good overall disease package

DKC61-69
Best Versatility Available

- 396 Trials vs. Pioneer[®] in Missouri and Eastern Kansas
- 10 bu/A Average yield advantage
- 0.9% Average moisture advantage



- Excellent emergence and early season growth allow this product to be planted early and in reduced tillage situations
- Very good roots and stalks
- Very good disease package including gray leaf spot tolerance
- Outstanding yield potential

DKC63-42
Great Standability and Yield Potential

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- 9 bu/A Average yield advantage
- 0.4% Average moisture advantage

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Before opening a bag of seed, be sure to read and understand the stewardship responsibilities, including applicable usage requirements for insect resistance management, for the latest technology traits registered in the seed as set forth in the attached stewardship agreement that you sign. In opening and using a bag of seed, you are accepting your obligations to comply with these stewardship requirements.



Corn Herbicides

POST-EMERGENT

	PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
CORN	Resource	2-6 oz.	All types		Controls velvetleaf. Use 4 oz. on velvetleaf up to the 5th leaf stage and 6 oz. up to the 6th leaf stage. Add 1 pint COC/MSO. May also add 2.5 lbs. AMS or 1 qt. of UAN per acre to enhance weed control. Broadcast on corn from the 2-leaf stage up to the 10-leaf stage. Use drop nozzles for corn over the 10-leaf stage. When using drop nozzles add 2 pints COC per acre. When tank mixing with Accent, Atrazine, Beacon, Buctril, Clarity, Hornet, Lightning, Marksman, Northstar, or Spirit use 4 oz. of Resource for velvetleaf up to 6-L and 2 oz. of Resource up to 4-L. Resource at 2,3, or 4 oz per acre may be tankmixed with Glyphosate (see label for rates and proper adjvants). For increased control of velvetleaf and suppression of tall, ivy, and entireleaf morningglory use Resource at 4 oz. per acre.
SORGHUM	Resolve	.75-2 oz.	All types	>1%	Apply to corn up to 12" or 6 collar whichever is most restrictive, but before weeds emerge. Or, in RR corn tank mix with glyphosate to emerged weeds to enhance weed control and provide residual control of small seeded grass and broadleaf weeds. Check label for possible soil insecticide interactions. Add AMS and NIS depending on glyphosate formulation.
SOYBEANS	Resolve Q	1.25 oz.	All types	>1%	Apply to corn up to 20" or 7 collar, whichever is most restrictive but before weeds emerge. Or, in RR corn tank mix with glyphosate to emerged weeds to enhance weed control and provide residual control of small seeded grass and broadleaf weeds. Check label for possible soil insecticide interactions. Add AMS and NIS depending on glyphosate formulation.
COTTON	Roundup WeatherMAX/ Roundup PowerMAX	16-32 oz.	All types		Use only on Roundup Ready corn. Applications can be made alone or in tank mixture with residuals, or following at plant applications of residuals such as Degree, Degree Xtra, Harness Xtra, Lasso, or Micro Tech. Controls annual grasses and broadleaf weeds. Maximum single in crop application of this product not to exceed 22 oz. per acre. On Roundup Ready corn and 32 oz./acre on corn containing the Roundup Ready 2 gene. 32 oz./acre can be applied with drop nozzles up to 48" on corn containing the Roundup Ready 2 gene. Maximum combined total of in crop applications from emergence through v8 or 30" is 64 oz. per acre. Maximum amount of this product that can be applied after crop maturity (black layer) until 7 days before harvest is 22 oz. per acre. Combined total of all applications including preplant burndown and preharvest application is 5.3 qts. per acre. Do not make applications in liquid nitrogen solutions over the top of Roundup Ready corn. Add AMS at 8.5-17 lbs. per 100 gallons of water.
RICE	Sencor DF	2 oz.	All types		Controls annual grasses. Add crop oil at 1%v/v. Sencor DF must be tank mixed with Atrazine, Basagran, Buctril, Marksman, or 2,4-D to control broadleaf weeds. Do not use crop oil. For larger corn, may use a post directed spray. Check label.
FORAGES	Spirit	1 oz.	All types		Controls broadleaf weeds and grasses. One oz. Spirit contains 0.57 oz. Beacon and 0.25 oz. of Peak. Apply when corn is between 4" - 24". Check label for adjuvant requirements.
	Status	5 oz.	All types		Controls a broad spectrum of broadleaf weeds and suppresses perennial weeds. Apply after corn is 4" tall up to 36" in height. Use NIS, COC, or MSO PLUS AMS. See label for adjuvant rates.
SMALL GRAINS	Steadfast	0.75 oz.	All types		Target applications to corn that is less than 12" tall for best overall performance. Apply to young and actively growing grass and broadleaf weeds. Apply Steadfast to corn that is up to 20" tall. Do not apply to corn that is above 20" tall or exhibiting 6 or more leaf collars, whichever is more restrictive. Use 1 gallon of COC per 100 gallons of spray solution, or 1-2 qts. of NIS per 100 gallons of spray solution. An ammonium nitrogen fertilizer is required. Use 2 qts. of 28% or 1 qt. of 10-34-0. Spray grade ammonium sulfate can be substituted at the rate of 2 lbs. per acre. Steadfast can be tank mixed with other herbicides for additional control of broadleaf weeds.
LAWN & GARDEN	Steadfast ATZ	14 oz.	All types		Target applications to corn that is less than 12" tall for best overall performance. Apply to young and actively growing grass and broadleaf weeds. Controls grasses and many broadleaf weeds. Apply Steadfast ATZ to corn that is up to 12" tall or 5 leaf collars, whichever is more restrictive. Use 1% COC and a nitrogen source, 2 qts. of 28% or 2-4 lbs. of AMS per acre. Steadfast ATZ can be tank mixed with Callisto, Distinct, Clarity or Hornet WDG for additional broadleaf weed control.
SEED	Stout	.5-.75 oz.	All types		Apply to young and actively growing grass and broadleaf weeds. Apply Stout to corn that is up to 16" tall. Do not apply to corn that is above 16" tall or exhibiting 5 or more leaf collars, whichever is more restrictive. Use 1 gallon of COC per 100 gallons of spray solution, or 1-2 qts. of NIS per 100 gallons of spray solution. An ammonium nitrogen fertilizer is required. Use 2 qts. of 28% or 1 qt. of 10-34-0. Spray grade ammonium sulfate can be substituted at the rate of 2 lbs. per acre. Stout can be tank mixed with other herbicides for additional control of broadleaf weeds.
FERTILIZER					

Corn Herbicides

POST-EMERGENT

PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
Touchdown Hi-Tech	20 oz.			Use only on Roundup Ready Corn. A non-ionic surfactant must be added at .25% V/V of finished spray volume. Adding AMS at 8.5 -17 lbs per 100 gallons of water may increase the performance. Make post applications from emergence through V8 stage of corn at a maximum single application of 20 oz/ac with no more than 40 oz/season.
Touchdown Total	24 oz.			Use only on Roundup Ready Corn. Adding AMS at 8.5 -17 lbs. per 100 gallons of water may increase the performance. Make post applications from emergence through V8 stage of corn at a maximum single application of 24 oz./ac. with no more than 48 oz./season.
Yukon	4 oz.	All types		Controls large and small seeded broadleaf weeds. Apply to corn from spike to 24" corn. If drops are used application can be made up to 36" corn. Up to 2 applications allowed, with at least 2 weeks between applications. Use caution when soybeans are nearby. An NIS at 0.25 to 0.5% (1-2 quarts per 100 gallons of solution) is the only adjuvant required in the spray solution. COC at 1% v/v (1 gallon per 100 gallons of solution) may be substituted for the NIS. UAN may be added at 2 to 4 lbs. per acre for control of certain species. AMS may be also used. Tank mixtures should not be applied if crop is under severe stress.

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GLYPHOSATE TOLERANT PRE-EMERGENT

PRODUCT	RATE PER ACRE	SOIL TYPE	REMARKS
Balance Pro + Atrazine	1.25 oz + 1 pt	All Types	A pre-emerge only residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Balance Pro helps manage weed resistance of grass and broadleaf weeds. Help reduce weed population, size and vigor. Do not apply after corn emerges.
Bicep II Magnum/ Parallel Plus	1.8 qts	All Types	A residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Can be incorporated, pre-emerge, or up to 5" tall corn. Can be tank mixed with other herbicides.
Degree Xtra	2.2 qts	All Types	A residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Can be incorporated, pre-emerge, or up to 11" tall corn. Liquid fertilizers can be used as carriers.
Fultime	2.7 qts	All Types	A residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Can be incorporated, pre-emerge, or up to 11" tall corn. Liquid fertilizers can be used as carriers.
GuardmanMax	3 pts	All Types	A residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Can be incorporated, pre-emerge, or post up to 12" tall corn. Can be mixed with other herbicides.
Harness Xtra 5.6L	1.75 qts	All Types	A residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Can be incorporated, pre-emerge, or up to 11" tall corn. Liquid fertilizers can be used as carriers.
Keystone	2.4 qts	All Types	A residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Can be incorporated, pre-emerge, or up to 11" tall corn. Liquid fertilizers can be used as carriers.
Lexar	2.5 qts	All Types	A residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Do not apply prior to 14 days before planting or to field corn higher than 12". See label for insecticide restrictions.
Lumax	2.0 qts	All Types	A residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Do not apply more than 14 days prior to planting or to field corn higher than 12". See label for insecticide restrictions.
Radius + Atrazine	9 oz + 1 pt	All Types	A pre-emerge only residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Radius contains two modes of action to help manage weed resistance. Do not apply after corn emerges.
SureStart	1.5 pts.	Coarse	A residual herbicide to be used on Roundup Ready Corn to reduce early season competition and followed by a post emergent application of glyphosate. Application closer to planting provides optimal weed control. May apply up to 11" tall.
	1.75 pts.	Medium	
	2.0 pts.	Fine	

Corn Herbicides

GLYPHOSATE TOLERANT POST-EMERGENT

PRODUCT/RATE PER ACRE	PRODUCT/RATE PER ACRE	REMARKS
Callisto 3 oz	Glyphosate Labeled Rate	Use only on Roundup Ready Corn. If the glyphosate product has a built-in adjuvant system only AMS at 8.5 lbs/100 gals, should be added to the tank-mix. Can be applied to corn up to the 30 inches tall or the 8-leaf stage.
Distinct 3 oz	Glyphosate Labeled Rate	Use only on Roundup Ready Corn. Apply to corn from 4" to 24" tall. Add NIS at 0.25% and AMS at 8.5 lbs per 100 gal to the mix.
Gly 4 Plus 32 oz		Use only on Roundup Ready Corn. Maximum use rate per application is 32 oz per acre. Sequential in-crop application should not exceed 2 quarts per growing season. Can be applied up to 30" or through the 12-leaf growth stage. Add AMS at 8.5-17 lbs/100 gallon.
Halex GT 3.6-4 pts		Use only on Roundup Ready Corn. Add NIS at 0.25 to 0.5% v/v + AMS at 8.5 to 17 lbs/100 gals. Halex GT can be tank-mixed with Atrazine. Halex GT at 3.6 to 4 pts/a alone apply to weeds <4 inches. Halex GT + Atrazine can be applied to weeds up to 10 inches in height, but before corn is 12 inches.
Hornet 3 oz	Glyphosate Labeled Rate	Use only on Roundup Ready Corn. Apply to corn up to 20" or V6 growth stage. Add NIS at 0.25% v/v and adjuvants required by glyphosate.
Resolve Q 1.25 oz	Glyphosate Labeled Rate	Use only on Roundup Ready Corn. Apply up to 16" or 7 collar corn. Add AMS and NIS depending on glyphosate formulation. Do not use on soils less than 1% organic matter.
Roundup PowerMAX/ Roundup WeatherMax 16-32 oz		Use only on Roundup Ready Corn. Maximum single application in crop application of this product not to exceed 22 oz per acre on RR corn and 32 oz per acre on corn containing the Roundup Ready 2 gene. Maximum combined total of in crop applications from emergence through V8 or 30" is 64 oz per acre. Add AMS at 8.5-17 lbs per 100 gallons of water.
Status 2.5-5 oz	Glyphosate Labeled Rate	Use only on Roundup Ready Corn. Apply to corn from 4" up to 30" tall. Add NIS at 0.25% and AMS at 8.5 lbs per 100 gal to the mix.
Touchdown Hi-Tech 20 oz		Use only on Roundup Ready Corn. A non-ionic surfactant must be added at .25% V/V of finished spray volume. Adding AMS at 8.5 -17 lbs per 100 gallons of water may increase the performance. Make post applications from emergence through V8 stage of corn at a maximum single application of 20 oz/ac with no more than 40 oz/season.
Touchdown Total 24 oz		Use only on Roundup Ready Corn. Adding AMS at 8.5 -17 lbs. per 100 gallons of water may increase the performance. Make post applications from emergence through V8 stage of corn at a maximum single application of 24 oz./ac. with no more than 48 oz./season.

GENERAL

CORN

SORGHUM

SOYBEANS

COTTON

RICE

FORAGES

SMALL GRAINS

LAWN & GARDEN

SEED

FERTILIZER

Corn Herbicides

CONSERVATION TILLAGE BURNDOWN CHEMICALS

PRODUCT	RATE PER ACRE	REMARKS
2,4-D Amine	1.0-2.0 pts.	Controls emerged broadleaf weeds prior to planting.
2,4-D LOV	1.0-2.0 pts.	Controls emerged broadleaf weeds prior to planting.
Aim EC	0.5 oz.	Add 1 qt. COC per acre. Aids in speed of control and weed spectrum when tankmixed with other burndown herbicides.
Autumn	0.3 oz.	Can be applied from fall thru spring, but 30 days prior to planting. Fall is the preferred timing. Annual and perennial broadleaf weed control of 3" or less. Typical tankmix partners include 2,4-D or glyphosate. Add 1% v/v of COC + AMS or UAN when tankmixed with 2,4-D. Add AMS 8.5 lb/100 gal. of spray solution when tankmixed with glyphosate.
Balance Pro	1.5-2.25 oz.	Excellent burndown for control of winter annuals like henbit and marehail. Controls broadleaf weeds and grasses. Excellent for Preplant burndown plus residual. Should be applied with COC.
Basis	.33-1.0 oz.	Controls foxtails, fall panicum and barnyardgrass up to 2 inches tall. Will control some broadleaf weeds. Can be tank mixed with atrazine or Hornet WDG for increased broadleaf weed control. Do not tank mix with 2,4-D or Basagran. Add 1-2 qts. NIS per 100 gallons and 2-4 qts. liquid N per acre. Check label for possible soil insecticide interactions.
Distinct	4-8 oz.	Controls emerged broadleaf weeds. Refer to label for number of days before planting.
Expert	3.0-3.75 qts	Controls emerged grasses and broadleaf weeds prior to crop emergence plus will provide residual activity. 3.0 qts./Ac contains 1.3 lbs. of S-metolachlor .75 lbs. of glyphosate, and 1.6 lbs. of atrazine. Please consult label regarding adjuvants, fertilizer and application timing.
Glyphosate 4#/gal	1.0-8.0 pts.	Controls emerged grasses and broadleaf weeds prior to crop emergence. Consult label for specific rates and timing. Adding ammonium sulfate at 8.5-17 lbs./100 gallons water may increase the performance of this product.
Gramoxone Inteon	2.5-3.5 pts.	Controls emerged grasses and broadleaf weeds prior to crop emergence. Consult label for specific rates and timing. Always add either Crop Oil 1 gallon per 100 gallons of mix, MSO at 1 gallon per 100 gallons of mix, or non-ionic surfactant at 1 qt./100 gallons of mix. Gramoxone is a contact herbicide so it is essential to obtain complete coverage of weeds to maximize control.
Hi-Dep	1.0-2.0 pts.	Controls emerged broadleaf weeds prior to planting.
Resource	2-4 oz.	Can be added to a glyphosate or glufosinate containing product for speed of burndown activity.



BOTTOM LINE.

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Corn Herbicides

CONSERVATION TILLAGE

	PRODUCT	RATE PER ACRE	SOIL TYPE	REMARKS		
CORN	Balance PRO	Not recommended	Coarse	Rates based on 8-30 days before planting. Excellent burndown for control of winter annuals like henbit and marehail. Controls broadleaf weeds and grass. Excellent for preplant burndown plus residual control. Should be applied with COC/MSO plus 28% N for burndown. Use 3.75 fl. oz. (14 days before planting) if weeds/grass is over 3" tall. If grass is present, mix with Roundup Ultra, Touchdown, or Gramoxone MAX. A reduced rate of a companion product is recommended to increase the spectrum of weed control. *When applied PRE to medium soils with pH >7.5, reduce the rate by 0.37 oz. from the recommended rate. **Apply tank mix partners at one half to full rate but not to exceed 1.5 pounds total triazine when used preemergence or 0 to 7 days prior to planting. Do not exceed 2.0 pounds total triazine when used early preplant 8-30 days prior to planting. Do not exceed 1 pound total active ingredient per acre of Simazine/ Princep.		
		1.5-3.0 fl. oz.	Coarse			
		2.25-3.75 fl. oz.	Medium			
		3.0-4.5 fl. oz.	Medium			
		3.75-4.5 fl. oz.	Fine			
SORGHUM	Basis	0.33-1.0 oz.	Med-Fine	Provides burndown and early season residual control of many grass and broadleaf weeds. May be applied in the spring or fall.		
		Bicep II Magnum/ Parallel Plus	1.6 qts.		Coarse	Controls broadleaf weeds and annual grasses. Apply a single application up to 30 days before planting or a split application 30-45 days before planting. A burndown herbicide should be applied if weeds are above the 2-leaf stage.
			2.1 qts.		Medium	
2.1-2.6 qts.	Fine					
SOYBEANS	Bullet	3.0-4.0 qts.	Coarse	Controls broadleaf weeds and annual grasses. Can tank mix with Princep. Can be tank mixed with Roundup for control of emerged weeds in no-till. One gallon of Bullet contains 2.5 qts. Lasso MT + 1.5 qts. Atrazine. Use high rates for early preplant applications up to 30 days before planting prior to weed emergence. Check label for split applications and rates.		
		3.75-4.75 qts.	Medium			
		3.75-5.3 qts.	Fine			
COTTON	Degree Xtra	2.9 qts.	Coarse	Controls annual grasses and broadleaf weeds. Check label for recommended rates. One gallon of Degree Xtra contains 5.68 pts. of Degree plus 1.34 qts of AAtrex 4L.		
		2.9-3.7 qts.	Medium			
		3.2-3.7 qts.	Fine			
RICE	Dual II Magnum/ Parallel	1.33 pts.	Coarse	Controls some broadleaf weeds and annual grasses. Apply a single application up to 30 days before planting or a split application 30-45 days before planting. If weeds have emerged use a burndown herbicide.		
		1.33-1.67 pts.	Medium			
		1.67-2.0 pts.	Fine			
FORAGES	Expert	3.0-3.75 qts.	Med-Fine	Contains a burndown herbicide and season-long residual. It may also be used as an early postemergence treatment for Roundup Ready Corn.		
		FulTime	2.5-3.0 qts.		Coarse	Controls annual grasses and broadleaf weeds. Can be up to 40 days before planting on medium and fine soils. Check label for recommended rates. One gallon of FulTime contains 6.0 pts. TopNotch and 1.6 lbs. Atrazine. If weeds are up when applying, use burndown. Can be applied postemergent to corn up to 11" tall.
			2.7-3.3 qts.		Medium	
3.0-5.0 qts.	Fine					
SMALL GRAINS	Guardsman Max	2.5-3.0 pts.	Coarse <3%	Controls most early season broadleaf weeds and annual grasses. Can be applied 45 days prior to planting, incorporated, pre-emergence, or post up to 12" tall corn. Can be impregnated and mixed with other herbicides.		
		3.0-4.0 pts.	Coarse >3%			
		3.0-4.0 pts.	Med-Fine <3%			
		4.0-4.6 pts.	Med-Fine >3%			
LAWN & GARDEN	Harness Xtra 5.6L	1.4-1.7 qts.	Coarse	Controls annual grasses and broadleaf weeds. Check label for recommended rates. One gallon Harness Xtra 5.6L contains 3.54 pts. Harness and 2.5 qts. Atrazine. If weeds are up when applying, use burndown.		
		1.7-2.6 qts.	Medium			
		2.3-3.0 qts.	Fine			
SEED	Hornet WDG	4 oz.	Coarse <3%	Controls broadleaf weeds. May be applied up to 30 days before planting. Apply alone or in tankmix combination with a grass herbicide. If weeds are up when applying, use COC or MSO + UAN or AMS. If grass has emerged, use a burndown.		
		4-5 oz.	Medium <3%			
		4-5 oz.	Fine <3%			
		4-5 oz.	Coarse >3%			
		5 oz.	Medium >3%			
		5 oz.	Fine >3%			
FERTILIZER						

Corn Herbicides

CONSERVATION TILLAGE

PRODUCT	RATE PER ACRE	SOIL TYPE	REMARKS
Lasso Micro-Tech	1.5-2.5 qts.	Coarse	Controls annual grasses and some broadleaf weeds. Use high rates where heavy grass pressure, fall panicum, or crabgrass will be present. Lower rates may be used in tank mixtures with Atrazine or Princep. Can be tank mixed with Roundup or Gramoxone Inteon to control emerged weeds.
	2.0-3.0 qts.	Medium	
	2.5-3.5 qts.	Fine	
Lexar	3.5 qt.		Controls grasses and broadleaf weeds. Do not apply prior to 14 days before planting or to field corn higher than 12". See label for insecticide restrictions.
Lumax	3.0 qt.		Controls grasses and broadleaf weeds. Do not apply more than 14 days prior to planting or to a field corn higher than 12". Lumax is not recommended on soils with greater than 10% organic matter. See label for insecticide restrictions.
Outlook	12-14 oz.	Coarse <3%	Controls grasses and some broadleaf weeds, such as, pigweeds. Can be incorporated. Can be applied up to 45 days prior to planting. Use highest rates for best waterhemp and nightshade activity.
	14-18 oz.	Coarse >3%	
	14-18 oz.	Med-Fine <3%	
	18-21 oz.	Med-Fine >3%	
Python WDG	0.8-1.0 oz.	Coarse	Controls broadleaf weeds. If weeds are up when applying use a burndown product. Can be applied up to 30 days prior to planting. Can be tank mixed with most corn herbicides. See label for rates on soils with >7% O.M.
	0.9-1.33 oz.	Medium	
	0.9-1.33 oz.	Fine	
SureStart	1.5 pts.	Coarse	Use SureStart as a foundation residual herbicide in herbicide tolerant crops. Application closer to planting provides optimal weed control. May apply to corn up to 11" tall.
	1.75 pts.	Medium	
	2.0 pts.	Fine	

Corn Foliar Fungicides

PRODUCT	RATE PER ACRE	REMARKS
Bumper	2-4 oz.	Apply at a first sign of disease and repeat on a 7-14 day schedule. Do not apply more than 16 fl oz per season. Controls leaf blights, rusts, gray leaf spot and eye spot. May be applied by ground, air or chemigation. Do not apply within 30 day harvest for field corn, field corn grown for seed, or popcorn for forage. Do not apply to sweet corn within 14 days of harvest.
Headline	6-9 oz.	Apply prior to disease development or Mid-flag to Silking. Applications up to dough stage are recommended. Headline has a 7 day PHI. Apply by ground or air. Refer to label regarding adjuvants. Controls Rust spp., Grey leaf spot, Eye spot, Northern and southern corn leaf blight, Northern corn leaf spot, Brown spot, Eye spot, and Yellow leaf blight.
Quadris	6-15.5 oz.	Begin applications before disease development or mid-flag to silking. May be applied by ground, air or chemigation. Consult label regarding adjuvants. Controls Rust Spp., Grey Leaf Spot, Anthracnose, Eye Spot, Northern and Southern Corn Leaf Blight, Northern Corn Leaf Spot, Brown Spot, Eye Spot, and Yellow Leaf Blight
Quilt	14 oz.	Scout and spray when disease first appears. Begin applications at tassel emergence until 50% Brown Silk. May be applied by ground, air or chemigation. Do not apply before 30 days of harvest for forage, grain, or stover. Consult label regarding adjuvants. Controls Rust Spp., Grey Leaf Spot, Northern and Southern Corn Leaf Blight, Northern Corn Leaf Spot and Eye Spot.
Stratego	10 oz.	Scout and spray when disease first appears. Begin applications at tassel emergence until 50% Brown Silk. May be applied by ground, air or chemigation. Do not apply before 30 days of harvest for forage, grain, or stover. An adjuvant will increase coverage and droplet evaporation. Refer to label regarding adjuvants. Controls Rust Spp., Anthracnose, Eye Spot, Grey leaf spot, and Northern and Southern Leaf Blights.

GENERAL

CORN

SORGHUM

SOYBEANS

COTTON

RICE

FORAGES

SMALL GRAINS

LAWN & GARDEN

SEED

FERTILIZER

Corn Insecticides

PEST	PRODUCT	RATE/ACRE	REMARKS
CHINCH BUG	Asana XL	5.8-9.6 oz.	Use as a directed spray. Harvest interval 21 days.
	Baythroid XL	1.6-2.8 oz.	Use as a directed spray. Harvest interval 21 days.
	Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.
	Cobalt	38-42 oz	Use minimum 20 GPA. Harvest interval 21 days. Can be chemigated.
	Furadan 4F	1 pt.	Use as a directed spray. 24C label in Missouri. Spray by ground only.
	Hero	4-10.3 oz.	Use as needed. 30 Day PHI.
	Lorsban 4E/others	1-2 pts.	Use as a directed spray. See label for harvest restrictions.
	Mustang Max EC	3.2-4.0 oz.	Scout corn fields and make applications when bugs migrate from small grains or wild grasses to small corn. Direct spray to the base of plant. Repeat application at 3 to 5 days intervals if needed.
	Respect	3.2-4.0 oz.	Scout corn fields and make applications when bugs migrate from small grains or wild grasses to small corn. Direct spray to the base of plant. Repeat application at 3 to 5 days intervals if needed.
	Silencer/Lambda Star	3.84 oz.	Use as a directed spray. Repeat applications may be needed. May only suppress heavy infestations or subsequent migrations.
CORN FLEA BEETLE	Warrior II	1.92 oz	Use as a directed spray. Repeat applications may be needed. May only suppress heavy infestations or subsequent migrations.
	Asana XL	5.8-9.6 oz.	Use as a direct spray over young corn, as needed. More than one application may be necessary.
	Baythroid XL	1.6-2.8 oz.	Use as a directed spray. Harvest interval 21 days.
	Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.
	Cobalt	13-26 oz.	Use minimum 20 GPA. Harvest interval 21 days. Can be chemigated.
	Hero	4-10.3 oz.	Use as needed. 30 Day PHI.
	Lannate L	1-2 pts.	Use as a directed spray over young corn, as needed. Harvest interval 0 days for grain.
	Lorsban 4E/others	1-2 pts.	Use as a directed spray over young corn, as needed. See label for harvest restrictions.
	Mustang Max EC	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.
	Permethrin	4-8 oz.	Observe 30 day harvest interval.
CORN LEAF APHID	Respect	3.2-4.0 oz.	Scout corn fields and make applications when bugs migrate from small grains or wild grasses to small corn. Direct spray to the base of plant. Repeat application at 3 to 5 days intervals if needed.
	Silencer/Lambda Star	2.56-3.84 oz.	Use as a direct spray over young corn. 1 day PHI for forage, 21 day PHI for silage.
	Warrior II	1.28 - 1.92 oz	Use as a direct spray over young corn. 1 day PHI for forage, 21 day PHI for silage.
	Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.
	Cobalt	13-26 oz.	Use minimum 20 GPA. Harvest interval 21 days. Can be chemigated.
	Hero	4-10.3 oz.	Use as needed. 30 Day PHI.
	Lannate L	1-2 pts.	Apply into whorl, before tassels emerge. Harvest interval is 0 days for grain.
	Lorsban 4E/others	1-2 pts.	Apply in sufficient water to ensure thorough coverage of treated plants. See label for harvest restrictions.
	Malathion	1.5 pts.	Apply 15-20 gallons of water per acre into the whorl, before tassels emerge.
	Mustang Max EC	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.
SEED SUPPRESSION	Respect	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.
	Silencer/Lambda Star	2.56-3.84 oz.	Suppression only.
	Warrior II	1.28 - 1.92 oz	Suppression only.
	Asana XL	5.8-9.6 oz.	Use as a direct spray over young corn, as needed. More than one application may be necessary.
	Baythroid XL	1.6-2.8 oz.	Use as a directed spray. Harvest interval 21 days.
	Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.
	Cobalt	13-26 oz.	Use minimum 20 GPA. Harvest interval 21 days. Can be chemigated.
	Hero	4-10.3 oz.	Use as needed. 30 Day PHI.
	Lannate L	1-2 pts.	Use as a directed spray over young corn, as needed. Harvest interval 0 days for grain.
	Lorsban 4E/others	1-2 pts.	Use as a directed spray over young corn, as needed. See label for harvest restrictions.

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Corn Insecticides

PEST	PRODUCT	RATE/ACRE	REMARKS			
CORN	Corn rootworm adults	Asana XL	5.8-9.6 oz.	Apply at first sign of silk feeding. 21 day harvest interval.		
		Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.		
		Cobalt	13-26 oz.	Harvest interval 21 days. Use this rate to control silk clipping. No more than 3 applications per year. Can be chemigated.		
	SORGHUM		Baythroid XL	1.6-2.8 oz.	Spray by air or high clearance tractor. Rate of application is variable according to pest pressure and timing of spray. Harvest interval 21 days.	
			Hero	4-10.3 oz.	Use as needed. 30 Day PHI.	
			Lannate L	1-2 pts.	Spray by air or high clearance tractor. Harvest interval 0 days for grain.	
			Lorsban 4E/others	1-2 pts.	Spray by air or high clearance tractor. See label for harvest restrictions.	
		SOYBEANS		Mustang Max EC	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.
				Permethrin	4-8 oz.	Spray by air or high clearance tractor. Observe 30 day preharvest interval.
			Respect	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.	
			Silencer/Lambda Star	2.56-3.84 oz.	1 day PHI for forage, 21 day PHI for silage. Do not apply more than 3.84 oz. after corn has reached the milk stage.	
	COTTON		Warrior II	1.26 - 1.92 oz	2 day PHI for forage, 21 day PHI for silage. Do not apply more than 3.84 oz. after corn has reached the milk stage.	
Cutworms		Asana XL	5.8-9.6 oz.	Treat when 6-8% plants are cut above ground or 2-3% below ground. Harvest interval 21 days.		
RICE		Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.		
		Cobalt	13-26 oz.	Harvest interval 21 days. Can be chemigated.		
		Hero	4-10.3 oz.	Use as needed. 30 Day PHI.		
		Lorsban 4E/others	1-2 pts.	Treat when 6-8% plants are cut above ground or 2-3% below ground. Apply broadcast. Cultivate in under dry conditions.		
	FORAGES		Mustang Max EC	1.28-2.8 oz.	Make applications when insect populations reach economic thresholds.	
			Permethrin	4-8 oz.	Treat when 6-8% plants are cut above ground or 2-3% below ground.	
			Respect	1.28-2.8 oz.	Make applications when insect populations reach economic thresholds.	
		Silencer/Lambda Star	1.92-3.20 oz.	Treat when 6-8% plants are cut above ground or 2-3% below ground.		
SMALL GRAINS		Warrior II	1 - 1.6 oz.	Treat when 6-8% plants are cut above ground or 2-3% below ground.		
	European corn borer (corn more than 36" extended leaf)		Asana XL	5.8-9.6 oz.	Spray in the leaf whorls when 75% of plants show leaf feeding scars.	
			Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray. Observe 30 day pre-harvest interval.	
			Cobalt	19-38 oz.	Harvest interval 21 days. Direct application into whorl. Can use 19 oz on 1st generation and higher rate on 2nd generation brood.	
			Intrepid 2F	4-8 oz.	Field, seed and sweet corn. Use higher rate for greater residual on second generation.	
			Furadan 4F	1.5-2 pts.	Spray in whorls when 75% of plants show feeding scars. Harvest interval 30 days.	
		LAWN & GARDEN		Hero	4-10.3 oz.	Use as needed. 30 Day PHI.
				Lorsban 15G	5-6.5 lbs.	Use 6.5 lbs. for 2nd generation. Can apply in a band over the row at 3.5-8 oz. per 1000 ft. of row for 1st generation. See label for harvest restrictions.
				Lorsban 4E/others	1-2 pts.	1st and 2nd generation. See label for harvest restrictions.
		SEED		Mustang Max EC	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.
				Permethrin	4-8 oz.	Spray in the leaf whorls when 75% of plants show leaf feeding scars.
				Respect	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.
				Silencer/Lambda Star	2.56-3.84 oz.	For control before the larva bores into the plant stalk or ear. Spray in leaf whorls when 75% of plants show leaf feeding scars.
				Tracer 4SC	1-3 oz.	Field, seed and popcorn. Apply to coincide with peak egg hatch. One day PHI for seed corn.
			FERTILIZER		Warrior II	1.26-1.92 oz.

Corn Insecticides

PEST	PRODUCT	RATE/ACRE	REMARKS
Fall armyworm	Baythroid XL	2.8 oz.	For control before the larvee boares into the plant or ear.
	Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.
	Cobalt	13-26 oz.	Harvest interval 21 days. Can be chemigated.
	Intrepid 2F	4-8 oz.	Label for True Armyworm.
	Hero	4-10.3 oz.	Use as needed. 30 Day PHI.
	Lannate L	1-2 pts.	Apply into the whorl. Harvest interval is 0 days for grain.
	Lorsban 4E	1-2 pts.	See label for harvest restrictions.
	Mustang Max EC	3.2-4.0 oz.	Make applications when insect populations reach economic thresholds.
	Permethrin	4-8 oz.	Apply into the whorl. Observe 30 day preharvest interval.
	Respect	3.2-4.0 oz.	Make applications when insect populations reach economic thresholds.
	Silencer/Lambda Star	2.56-3.84 oz.	For control of first and second instar only. 1 day PHI for forage, 21 day PHI for silage.
	Tracer 4SC	1-3 oz.	Apply by ground, air or through chemigation.
	Warrior II	1.26-1.92 oz.	For control of first and second instar only. 1 day PHI for forage, 21 day PHI for silage.
Grasshoppers	Asana XL	5.8-9.6 oz.	Spray outside of field margin before crop injury. Harvest interval 21 days.
	Baythroid XL	1.6-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Spray outside of field margin before crop injury. Harvest interval 21 days.
	Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.
	Cobalt	7-13 oz.	Harvest interval 21 days. Can be chemigated.
	Dimethoate	1 pt.	Spray outside of field margin before crop injury.
	Furadan 4F	.25-.5 pt.	Spray outside of field margin before crop injury. Harvest interval 30 days.
	Hero	4-10.3 oz.	Use as needed. 30 Day PHI.
	Lorsban 4E	.5-1 pt.	Spray outside of field margin before crop injury. See label for harvest restrictions.
	Malathion	1.5 pts.	Spray outside of field margin before crop injury. Harvest interval 7 days.
	Mustang Max EC	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.
	Respect	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.
	Silencer/Lambda Star	2.56-3.84 oz.	Spray outside of field margin before crop injury. 1 day PHI for forage, 21 days for silage.
	Warrior II	1.26-1.92 oz.	Spray outside of field margin before crop injury. 1 day PHI for forage, 21 days for silage.
Southern Corn Leaf Beetle	Baythroid XL	2.8 oz.	Use at least 20 gallons of water per acre. The addition of Lorsban at 4 oz. will improve control.
	Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.
	Cobalt	13-26 oz.	Harvest interval 21 days. Can be chemigated.
	Hero	4-10.3 oz.	Use as needed. 30 Day PHI.
	Lorsban 4E/others	1-2 pts.	Use in sufficient spray to provide adequate coverage.
	Mustang Max EC	2.9-4.3 oz.	Make applications when insect populations reach economic thresholds.
	Respect	2.9-4.3 oz.	Make applications when insect populations reach economic thresholds.

GENERAL

CORN

SORGHUM

SOYBEANS

COTTON

RICE

FORAGES

SMALL GRAINS

LAWN & GARDEN

SEED

FERTILIZER

Corn Insecticides

PEST	PRODUCT	RATE/ACRE	REMARKS
Southwestern corn borer	Asana XL	5.8-9.6 oz.	Harvest interval 21 days.
	Baythroid XL	1.6-2.8 oz.	For control before the larvae bores into the plant stalk or ear. Harvest interval 21 days.
	Brigade	2.1-6.4 oz.	Rate of application is variable according to pest pressure and timing of spray.
	Cobalt	19-38 oz.	Harvest interval 21 days. Can be chemigated.
	Hero	4-10.3 oz.	Use as needed. 30 Day PHI.
	Intrepid 2F	4-8 oz.	Apply at least 5 GPA by air for field and popcorn. 10 GPA for sweet corn.
	Lorsban 4E/others	1.5-2.0 pts.	See label for harvest restrictions.
	Mustang Max EC	2.9-4.3 oz.	Make applications when insect populations reach economic thresholds.
	Respect	2.9-4.3 oz.	Make applications when insect populations reach economic thresholds.
	Silencer/Lambda Star	2.56-3.84 oz.	For control before the larvae bores into the plant or ear.
	Tracer 4SC	1-4 oz.	Apply by ground, air or through chemigation.
	Warrior II	1.26-1.92 oz.	For control before the larvae bores into the plant or ear.
Stink Bugs	Baythroid XL	1.6-2.8 oz.	Spray when needed. PHI 21 days.
	Brigade	2.1-6.8 oz.	Spray when needed. PHI 30 days.
	Cobalt	19-38 oz.	Spray when needed. PHI 21 days. Do not apply with tank mixes with Steadfast or Lightning Herbicides.
	Mustang Max EC	2.72-4.0 oz.	Make applications when insect populations reach economic thresholds.
	Silencer/Lambda Star	2.56-3.84 oz.	Make applications when insect populations reach economic thresholds.
	Warrior II	1.28-1.92 oz.	Make applications when insect populations reach economic thresholds.



Count on DuPont for cutting edge weed control

When weeds threaten to take over your corn fields, win the battle with the high-tech performance of new DuPont™ Resolve® Q herbicide. Along with contact plus residual control of tough broadleaf weeds and grasses, Resolve® Q provides improved control of many weeds that glyphosate alone struggles with, including morningglory, common lambsquarters and velvetleaf. Plus, it comes with a built-in safener to provide you the flexibility to confidently apply Resolve® Q under more diverse weather conditions, across more hybrids and with a wider range of adjuvants.

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The miracles of science™

Corn Insecticides for Soil

PEST	PRODUCT	RATE/ACRE	REMARKS	
CORN	Cutworms	Asana XL	5.8-9.6 oz.	Use as pre-emergent, pre-plant incorporated, or rescue. May be tank mixed with herbicides. Controls true armyworm.
		Aztec	7.3 lbs.	Apply in a band or in furrow. Use 6.7 oz. per 1000 feet of row.
		Baythroid XL	1.2-1.6 oz.	Use as pre-emergent, pre-plant incorporated, or rescue. may be tank mixed with herbicides.
		Brigade	2.56-5.2 oz.	Apply in-furrow or T-band (may be tank mixed with fertilizer).
		Capture LFR	3.4-6.8 oz.	Apply in-furrow or T-band (may be tank mixed with fertilizer).
		Cobalt	19-38 oz.	Preharvest interval 21 days. Can be chemigated. May apply 33 oz per acre in T-Band (1.89 oz/1000 ft. of row.
		Force 3G	4.4 lbs.	For cutworms apply in a T-band at 4 oz. per 1000 ft. row at planting.
		Force CS	8 fl. oz.	Use 0.46 fl. Oz./1000 ft. of row.
		Lorsban 15G	6.5-8.7 lbs.	Use 8 oz. per 1000 ft. of row. For best control apply in-furrow.
		Lorsban 4E/others	2-4 pts.	Pre-plant or pre-emergence to prevent cutworms. Do not expect rootworm control.
		Mustang Max EC	3.08 oz.	Use 0.16 fluid ounces per 1000 linear feet of row which equals 3.08 oz. per acre on 30" rows. Apply as an in-furrow, band or T-band treatment using a minimum 4" band.
		Permethrin	4-8 oz.	Use as pre-emergent, pre-plant incorporated, or rescue. May also be applied preemergence before or at planting. May be tank mixed with herbicides. Controls true armyworm.
		Silencer/Lambda Star	1.92-3.2 oz.	May be applied before, during, or after planting.
		Warrior II	1-1.26 oz.	May be applied before, during, or after planting.
SORGHUM	European corn borer	Furadan 4F	2.0-2.6 pts.	Use in furrow at planting at 2.5 oz. per 1000 ft. of row. Aids in control of 1st generation corn borer.
		Regent 4SC	4.2 oz.	50-80% control of first generation. Mix with 1 gal. of water or liquid pop-up fertilizer.
SOYBEANS	Seed corn beetle, maggot	Aztec	7.3 lbs.	Apply in a band or in furrow. Use 6.7 oz. per 1000 ft. of row.
		Baythroid XL	2.8 oz.	Apply in-furrow. May be used with liquid fertilizer.
COTTON		Capture LFR	3.4-6.8 oz.	Apply in-furrow or T-band (may be tank mixed with fertilizer).
		Cobalt	2.87 oz 1000 ft. of row	Apply in 5-6" T-Band.
RICE		Force 3G	4.4-5.5 lbs.	Use in furrow. Use 4-5 oz. per 1000 ft. of row.
		Force CS	8-10 fl. oz.	Use 0.46-0.57 fl.oz./1000 feet of row
FORAGES		Furadan 4F	2.0-2.6 pts.	Use in furrow at planting at 2.5 oz. per 1000 ft. of row.
		Kernel Guard Supreme	1.5 oz / 42 lbs. of seed	Seed box treatment. Aids in control of wireworms. Added protection against seed decay. Contains vitavax and permethrin.
SMALL GRAINS		Latitude	1 pouch/ 42 lbs. of seed (1.5 oz./ 42 lbs. of seed)	Seed box treatment. Aids in control of wireworms, grubs and seed corn maggots. Added protection against seed decay. Contains gaucho.
		Lorsban 15G	6.5-8.7 lbs.	Use 8 oz. per 1000 ft. of row in T-band or in-furrow.
LAWN & GARDEN		Lorsban 4E/others	2.4 oz./ 1000 ft. of rows	Apply in a T-Band at plant with a minimum carrier volume of 5 GPA.
		Regent 4SC	4.2 oz.	Use in furrow. Mix with 1 gal. water or liquid pop-up fertilizer.
SEED		Thimet 20G	6.5 lbs.	Banded at planting. Do not use in furrow application. Use 6 oz. per 1000 ft. of row. Can follow with Accent or Beacon post-emergent.
	FERTILIZER			

Corn Insecticides for Soil

PEST	PRODUCT	RATE/ACRE	REMARKS
Western Corn Rootworm Larvae	Aztec	7.3 lbs.	Apply in a band or in furrow. Use 6.7 oz. per 1000 ft. of row.
	Capture LFR	6.8-8.0 oz.	Apply as a T-Band in furrow.
	Crop Rotations		This is our best recommendation. Crops preceding corn must be nearly free of weeds, especially foxtail species of grass. Damage has been known on first year corn when planted to fields that were weedy in the preceding year.
	Force 3G	4.4-5.5 lbs.	Use at planting. Use 4-5 oz. per 1000 ft. of row.
	Force CS	8-10 fl. oz.	Use 0.46-0.57 fl.oz./1000 feet of row
	Furadan 4F	2.0 pts.	Apply as a broadcast or banded spray alone or in combination with postemergent herbicides.
	Lorsban 4E	2.4 oz/1000 ft. of row	Apply in a T-Band at plant with a minimum carrier volume of 5 GPA.
	Lorsban 15G	6.5-8.7 lbs.	Use at planting. Use 8 oz. per 1000 ft. of row on 6-8" T-band or in-furrow.
	Regent 4SC	4.2 oz.	Mix with 1 gal. water or liquid pop-up fertilizer.
White grubs	Thimet 20G	6.5 lbs.	Banded at planting or applied to base of plants prior to cultivation. Do not use in furrow application. Use 6 oz./1000 ft. of row. Can follow with Accent or Beacon post-emergent.
	Aztec	7.3 lbs.	Apply in T-band or in-furrow for the best control.
	Baythroid XL	2.8 oz.	Apply in-furrow. May only suppress heavy infestation. May be used with liquid fertilizer.
	Capture LFR	3.4-6.8 oz.	Apply in-furrow or T-band (may be tank mixed with fertilizer).
	Cobalt	2.87 oz 1000 ft. of row	Apply in 5-6" T-Band.
	Force 3G	4.4-5.5 lbs.	Use 4-5 oz./1000 feet of row. Apply the granules as an in-furrow treatment.
	Force CS	8-10 fl. oz.	Use 0.46-0.57 fl.oz./1000 feet of row
	Lorsban 4E	2.4 oz/1000 ft. of row	Apply in a T-Band at plant with a minimum carrier volume of 5 GPA.
	Lorsban 15G	6.5-8.7 lbs.	For best control apply in-furrow.
Wireworms	Regent 4SC	4.2 oz.	Excellent for white grubs. Apply in-furrow mixed with 2.5 gallons of water or liquid pop-up fertilizer. Controls grape colapsis.
	Aztec	7.3 lbs.	Apply in T-band or in-furrow for the best control.
	Baythroid XL	1.6-2.8 oz.	Apply in-furrow. May be used with liquid fertilizer.
	Capture LFR	2.56-5.2 oz.	Apply in furrow or T-band (may be tank mixed with fertilizer).
	Cobalt	2.87 oz 1000 ft. of row	Apply in 5-6" T-Band.
	Force 3G	4.4-5.5 lbs.	Use 4-5 oz./1000 feet of row. Apply the granules as an in-furrow treatment.
	Force CS	8-10 fl. oz.	Use 0.46-0.57 fl.oz./1000 feet of row.
	Furadan 4F	2.0-2.6 pts.	Use in furrow at planting at 2.5 oz. per 1000 ft. of row.
	Lorsban 15 G	6.5-8.7 lbs.	For best control apply in-furrow.
Wireworms	Regent 4SC	4.2 oz.	Excellent for wireworm. Apply in-furrow mixed with 2-5 gallons of water or liquid pop-up fertilizer.
	Thimet 20G	6.5 lbs.	Banded at planting. Do not use in-furrow application. Use 6 oz. per 1000 ft. of row. Can follow with Accent or Beacon post-emergent.

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ROOTWORM INSECTICIDE CONVERSION RATES FOR USE ON DIFFERENT ROW WIDTHS

Convert label instructions that have pounds per acre on 30" rows to the row width you are using

30" row	40.0 lbs.	26.7 lbs.	13.3 lbs.	10.0 lbs.	9.3 lbs.	8.9 lbs.	8.7 lbs.	6.7 lbs.	5.0 lbs.
40" row	30.0 lbs.	20.0 lbs.	10.0 lbs.	7.5 lbs.	7.0 lbs.	6.7 lbs.	6.5 lbs.	5.0 lbs.	3.8 lbs.
38" row	31.6 lbs.	21.1 lbs.	10.5 lbs.	7.9 lbs.	7.3 lbs.	7.0 lbs.	6.9 lbs.	5.3 lbs.	3.9 lbs.
36" row	33.3 lbs.	22.3 lbs.	11.1 lbs.	8.3 lbs.	7.8 lbs.	7.4 lbs.	7.3 lbs.	5.6 lbs.	4.2 lbs.
34" row	35.3 lbs.	23.6 lbs.	11.7 lbs.	8.8 lbs.	8.2 lbs.	7.9 lbs.	7.7 lbs.	5.9 lbs.	4.4 lbs.
32" row	37.5 lbs.	25.0 lbs.	12.5 lbs.	9.4 lbs.	8.7 lbs.	8.3 lbs.	8.2 lbs.	6.3 lbs.	4.7 lbs.
20" row	60.0 lbs.	40.0 lbs.	20.0 lbs.	15.0 lbs.	14.0 lbs.	13.4 lbs.	13.1 lbs.	10.1 lbs.	7.5 lbs.
1000' row	36.7 oz.	24.5 oz.	12.2 oz.	9.2 oz.	8.5 oz.	8.2 oz.	8.0 oz.	6.2 oz.	4.6 oz.

INSECT THRESHOLDS

Aphids

Treat when 50% of the corn plants have infestations in the whorl prior to tassel emergence during drought conditions.

Amyworm

Treat when 25% or more plants have an average of two larvae per plant or 75% have an average of one larvae per plant.

Cutworms

Treat when 2-4% or more of plants are cut and larvae are present. Use lower percentage for lower plant population.

European Corn Borer

First generation, treat when 35-50% of plants show shot holes in the leaves. Second generation, treat when 50% of plants have newly hatched larvae present.

Fall amyworm

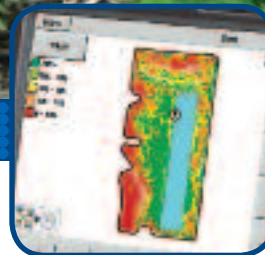
Treat when 20% or more plants that are less than two feet in height show leaf or whorl feeding.

Rootworm beetles

Treat at five or more beetles per silk mass when corn has less than 50% brown silks and silk damage has occurred.

Precision Tools

For Your Bottom Line



SeedCommand™

SeedCommand provides complete control over planting operations - from seeding populations that vary based on planting prescriptions to the AutoSwath feature that automatically turns planter sections on/off based on field maps and already planted areas.

DirectCommand™

DirectCommand offers complete control over liquid or granular application, allowing you to vary application rate based on your field map, log data and map your application operations in real time. The AutoSwath feature automatically turns the applicator on/off based on your field map and already applied areas, helping save on input costs.

Yield Monitoring

The most widely-used grain yield monitoring technology in the world, our displays let you create and view yield and moisture maps on-the-go while harvesting.

SMS Software

SMS Software is the most powerful, user-friendly precision farming software available. It gives you analysis and planning tools that can help with hybrid/variety selection, guidance planning, prescription application mapping and more.

The Complete Precision Package - from the Precision Farming Specialists.

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