



CHEMICAL WEED CONTROL FOR FIELD CROPS

Hard Red Spring and Durum Wheat, Winter Wheat and Barley

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
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Refer to page 6 for additional Fall, Early Preplant, and PRE Herbicides.

Soil-Applied Herbicides

Far-Go (triallate) 	HRSW & DURUM. 1 qt / 10 lb 10G (1 lb) BARLEY: 1.25 qt/12.5 lb 10G (1.25 lb)	Wild oat.	Spring: HRSW, Durum and Barley. Apply before or after seeding. PPI 3 or more days before seeding.	Application before seeding: PPI with field cultivator set at 4 inches deep. Two pass incorporation is recommended. Application after seeding: Apply before kernel sprouts exceed 0.5 inch in length and incorporate with harrows set more shallow than seed. A1 B1 C13 S6
Buckle (triallate & trifluralin) 	DURUM & BARLEY. 10 to 12.5 lb G (1 to 1.25 lb & 0.3 to 0.4 lb)	Wild oat and foxtails.	Fall: Apply within 3 weeks of freeze up. Spring: Barley only. Prior to seeding.	Do not apply to HRSW. Incorporate within 24 hours after application. Set 2 nd incorporation more shallow than first. Stand reduction may occur. Do not apply on soil treated with trifluralin the previous year. A1 B1 C13 C20 S2 S6 Y14 X1
	HRWW. Fall: 12.5 to 15 lbG HRSW. Spring: 10 lb G (1 lb & 0.3 lb)		HRWW: Fall. HRSW: Spring PPI only.	Use only in designated counties in North Dakota. Apply only to fields fallowed the previous year. Do not apply to soil treated with trifluralin the previous year. A1 B1 C13 C20 S6
Treflan / generic trifluralin Not for Winter Wheat	1 pt 4E 5 lb 10G (0.5 lb)	Foxtail.	Spring: PPI.	FOR BARLEY ONLY. Incorporate twice 2 to 3 inches deep. A1 B1 Pages: 104-105, 108-110
	4 lb 10G (0.4 lb)			FOR DURUM WHEAT ONLY. For foxtail suppression only. A1 B1 C20 S2 Y14 X1. Pages: 104-105, 108-110
	3.5 to 4 lb 10G (0.35 to 0.4 lb)			FOR HRSW ONLY. For suppression of foxtail only. Use west of Hwy 3 only. B1 C20 S2 Pages: 104-105, 108-110
	1 pt 4E (0.5 lb)		Spring: After seeding.	Plant 2 to 2.5 inches deep. Incorporate shallow twice with flex-tyne or diamond harrow 1 to 1.5 inches deep. A1 B1 C20 S2 Y14 X1 Pages: 104-105, 108-110
	1 pt 4E 5 lb 10G (0.5 lb)		Fall: After September 1 until freeze-up.	Incorporate once in fall within 24 hours after application. Keep spring incorporation depth more shallow than fall. Stand reduction may occur. A1 B1 C20 S2 X1 Y14 Pages: 104-105, 108-110
	3.5 to 5 lb 10G (0.35 to 0.5 lb)			FOR HRSW AND DURUM ONLY. For foxtail suppression only. B1 C20 S2 Pages: 104-105, 108-110
Olympus (propoxy-carbazone) Not for durum and barley Very Long Residual Registration Pending	HRWW. 0.6 oz WDG (0.42 oz) HRSW. 0.2 oz WDG (0.14 oz)	Japanese and downy brome, mustard and pigweed species.	PRE.	Add NIS at 0.25% v/v for control of emerged species. A maximum of 1.2 oz/A or equivalent in combined products is allowed per crop. A3 C18 S2 S6 X1 Y2 Y4 Pages: 102-103, 108-110.

Pages 102-103 = Herbicide resistance, Pages 104-105 = Generic and commercial names, Pages 108-110 = Crop rotation restrictions.

Hard Red Spring and Durum Wheat, Winter Wheat and Barley

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
POST-Applied Herbicides				
Prowl H20 (pendimethalin) Not for Barley	1.5 to 3 pt (0.7 to 1.4 lb)	Foxtail and some small-seeded broadleaf weeds.	Wheat: 1- to 3-leaf.	Soil residue provides PRE control of weeds. Does not control emerged weeds. Adjust rate for soil type. Allow a 60 day PHI. Refer to label for tank-mixtures. B1 C20 E10 Pages: 104-105, 108-110
MCPA amine MCPA ester	0.5 to 1.33 pt 4SL 0.5 to 1.33 pt 4EC (0.25 to 0.66 lb ae)	Broadleaf weeds.	Crop: Emergence until prior to boot. Winter wheat: In spring from 4-leaf until prior to boot.	Apply 0.5 to 1 pt/A from emergence to tiller stage. Use high rate for large or perennial weeds. A3 A6 C1-2 S3-5 Pages: 102-103, 104-105
2,4-D amine 2,4-D ester	0.5 to 1 pt 4SL 0.5 to 1 pt 4EC (0.25 to 0.5 lb ae)		Crop: 3-leaf until prior to boot. Winter wheat: Well tillered until prior to boot.	Follow label directions as 2,4-D labels vary on application timing. Do not apply from early boot to dough stage. Do not apply to winter wheat in fall. A3 A6 B3 C1-2 S3-5 Pages: 102-103, 104-105
Banvel / generic dicamba	2 to 4 fl oz (1 to 2 oz) Barley: 2 to 3 fl oz (1 to 1.5 oz ae)	Broadleaf weeds including wild buckwheat, sunflower, Russian thistle and kochia.	HRSW/Durum: Up to 5-leaf. Barley: Up to 4-leaf. HRWW: Pre-joint.	Apply at proper crop stage to avoid injury. Dicamba must be applied before 6-leaf stage. Use low dicamba rate and high MCPA rate on 4-leaf HRSW or durum. Barley is relatively susceptible to injury from dicamba. Do not apply dicamba with 2,4-D to barley. A3 A6 B5 C1-2 C8 S1 S3-5 X1 Y10 Pages: 102-103, 104-105
Pulsar (dicamba & fluroxypyr)	8.3 - 12.5 fl oz (0.75 to 1.1 oz & 1 to 1.5 oz ae)	Broadleaf weeds.	Wheat: Up to 5-leaf stage. Barley: Up to 4-leaf stage.	Add NIS at 0.125 to 0.25% v/v. No adjuvant is required if tank mix partner has surfactant in the formulation. May be mixed with several broadleaf and grass herbicides. Allow a 40 day PHI. A3 C8-9 S3 Pages: 102-103, 104-105
Starane / generic fluroxypyr	0.5 - 0.67 pt 1.5EC 0.25-0.35 pt 2.8EC 3.75 - 5 oz 40WDG (1.5 to 2 oz ae)	Kochia, volunteer flax, and few other broadleaf weeds.	Crop: 2-leaf through flag leaf emergence. Weeds: Small.	Refer to label for weeds controlled, registered tank-mix options, and rates. Commercial mixture with MCPA ester available as Hat Trick. A3 C9 S3 Pages: 102-103, 104-105
Curtail M / generic clopyralid & MCPA	1.75 to 2.33 pt (0.09 to 0.12 lb ae & 0.5 to 0.68 lb ae)	Broadleaf weeds and Canada thistle.	Crop: 3-leaf until prior to boot.	Apply to Canada thistle at rosette to early bolting stage. Do not harvest hay from treated fields. A3 C9 S1 T2 T6 Pages: 102-103, 104-105, 108-110
Curtail / generic clopyralid & 2,4-D	2 to 2.67 pt (0.09 to 0.13 lb ae & 0.5 to 0.67 lb ae)		Crop: 4-leaf until prior to boot.	
WideMatch / generic clopyralid & fluroxypyr	1 to 1.33 pt (0.09 to 0.125 & 0.09 to 0.125 lb ae)	Broadleaf weeds including kochia, wild buckwheat, vol. flax, and Canada thistle.	Crop: 3-leaf through flag leaf emergence. Weeds: Up to 4 inches tall or vining.	An economical formulation of clopyralid. Apply with 2,4-D, MCPA, or thifensulfuron to increase spectrum of broadleaf weed control. Does not antagonize POST grass herbicides labeled in small grains. Commercial mixture with MCPA ester available as Hat Trick. Refer to label for application information. A3 C9 S1 S3 T2 T6 Pages: 102-103, 104-105, 108-110

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Hard Red Spring and Durum Wheat, Winter Wheat and Barley

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Buctril / generic bromoxynil	1 to 2 pt (0.25 to 0.5 lb)	Small broadleaf weeds including small kochia.	Crop: Emergence until prior to boot.	Contact, non-residual herbicide requiring thorough coverage. Most active in hot and sunny conditions. Refer to label for tank-mix options.
Bronate / generic bromoxynil&MCPA	1 to 2 pt 4EC 0.8 to 1.6 pt 5EC (0.25 to 0.5 lb ae & 0.25 to 0.5 lb ae)	Small broadleaf weeds including wild buckwheat, sunflower, Russian thistle and kochia.	Crop: 3-leaf stage until prior to boot.	A3 C1-2 S1 S3 S4 X1 Pages: 104-105
WECO Max / generic bromoxynil & 2,4-D	0.75 to 1.5 pt (0.18 to 0.38 lb ae & 0.25 to 0.5 lb ae) Rates vary by label.			A3 C1-2 S1 S3 X1 Pages: 104-105
Starane NXT / generic bromoxynil & fluroxypyr	14 to 21 fl oz (4 to 6 oz & 1 to 1.5 oz)		Crop: 3-leaf to flag leaf emergence.	Higher rates or a tank-mix partner may be required for high weed populations and weeds greater than 4 inches tall. A3 C1-2 C9 S1 S3 X1
Aim (carfentrazone)	0.5 fl oz EC (0.128 oz)	Small broadleaf weeds including pigweed and kochia.	Crop: Up to jointing stage. Weeds: Small. Up to 2 inches tall.	Contact, non-residual herbicide requiring thorough coverage. May cause cosmetic speckling on wheat leaves. Add NIS at 0.25% v/v. Refer to label for tank- mix options and application information. A3 B4 C4 S1 S3 S5 X1
Huskie Complete (bromoxynil & pyrasulfotole & thiencarbazone & mefenpyr safener) Not for Barley Registration Pending	13.7 fl oz EC	Wild oat, foxtails, barnyardgrass, Persian darnel, and most annual broadleaf weeds including resistant weeds.	Wheat: Up to jointing. Grass weeds: Up to 2 tillers. Broadleaf weeds: Up to 4 inches tall.	Do not apply to barley. Will control many ACC-ase resistant grass biotypes. Refer to label for crop rotation restrictions, tank-mix options, and application information. C16 S1 S3-5 S7 X1 Pages: 102-103, 108-110
Huskie (bromoxynil & pyrasulfotole & mefenpyr safener)	11 to 15 fl oz EC (0.16 to 0.2 lb & 0.027 to 0.037 lb)	Most annual broadleaf weeds including resistant weeds.	Crop: Up to flag leaf emergence. Weeds: Up to 4 inches tall.	Most crops can be planted the year following application. Do not plant lentil for 18 months after application. Refer to label for tank-mix options and application information. C16 S1 S3-5 S7 X1
Wolverine (fenoxaprop & bromoxynil & pyrasulfotole & mefenpyr safener)	1.7 pt EC (0.08 lb & 0.125 lb & 0.036 lb)	Annual grass and broadleaf weeds.	Wheat: Emergence to 60 days PHI. Barley: Emergence to 5-leaf. Grass weeds: 1-leaf to 2-tiller.	A3 C14 C16 Pages: 102-103

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Hard Red Spring and Durum Wheat, Winter Wheat and Barley

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Short Residual ALS Herbicides				
Orion (florasulam & MCPA ester)	17 fl oz (0.07 oz & 0.31 lb)	Some broadleaf weeds.	Crop: 3-leaf to jointing. Weeds: Small.	Add NIS at 0.25% v/v. May be tank-mixed with grass herbicides. Allow a 60 day PHI. Commercial mixture with Axial XL available as Axial TBC. Refer to label for application information. A3 C2 X1
Starane Flex (florasulam & fluroxypyr)	13.5 fl oz (0.07 oz & 1.4 oz)	Some broadleaf weeds.	Crop: 3-leaf to flag leaf emergence. Weeds: Small.	May be tank-mixed with most POST grass herbicides. Allow a 60 day PHI. Has shorter crop rotation restrictions than WideMatch. A3 C9 X1
Harmony / generic thifensulfuron	0.3 to 0.6 oz DF 0.45 to 0.9 oz SG (0.225 to 0.45 oz)	Mustards, redroot pigweed, lambsquarters, wild buckwheat, smartweed, and sunflower.	Crop: 2-leaf until prior to flag leaf emergence.	Do not apply higher tribenuron rates with POST grass herbicides. Addition of MCPA ester or 2,4-D ester improves broadleaf weed control and crop safety. Add NIS at 0.125% v/v except when adding 2,4-D or MCPA at 0.75 pt/A.
Express / generic tribenuron	0.17 to 0.33 oz DF 0.25 to 0.5 oz SG (0.125 to 0.25 oz)	Mustards, marshelder, prickly lettuce, Russian thistle, Canada thistle.		Apply with a broadleaf herbicide with a different mode of action to delay weed resistance. No crop rotation restrictions the following year. Refer to label for list of registered tank-mixes. A3 A5 C3 S1 S3 S5 X1 Y1 Y3 Pages: 102-103, 104-105
thifen & tribenuron 4:1 ratio 75DF Affinity T/M 50SG 3:1 Audit 75DF 2:1 ratio 75DF 1:1 ratio 75DF Affinity B/S 50SG	0.4 to 0.67 oz DF 0.6 to 1 oz SG 0.3 to 0.5 oz DF 0.3 to 0.66 oz DF 0.25 to 0.5 oz DF 0.4 to 0.8 oz SG	Provides a broader spectrum of control than either a.i. alone. Choose ratio based on prevalent weeds.		
Supremacy (fluroxypyr & thifensulfuron & tribenuron) Registration Pending	4 to 6 oz (1 to 1.5 oz ae & 0.18 to 0.27 oz ai & 0.06 to 0.09 oz ai)	Broadleaf weeds including pigweed, buckwheat, Kochia, mustard, flax, and Canada thistle.	Wheat: 2-leaf through flag leaf emergence.	Add NIS at 0.25 to 0.5% v/v except when adding an EC or ester formulated herbicide. Use higher rates for larger weeds. A3 C3 C9 S2 S6 X1 Pages: 102-103
Long Residual ALS Herbicides				
Ally / generic metsulfuron	0.1 oz XP (0.06 oz)	Broadleaf weeds including perennial sowthistle. Partial control of wild buckwheat.	Crop: 2-leaf until prior to boot.	Addition of 2,4-D ester or MCPA ester improves broadleaf weed control and crop safety. Add NIS at 0.125% except when adding 2,4-D or MCPA at 0.75 pt/A. Refer to label for crop rotation restrictions. Apply with a broadleaf herbicide with a different mode of action to delay weed resistance. Do not apply within 22 months of last metsulfuron treatment. Do not apply to soils above pH 7.9. A3 A5 C5 S1 X1 Y13 Y36 Y6 Pages: 102-103, 104-105, 108-110
Ally Extra / generic metsulfuron & thifensulfuron & tribenuron	0.2 to 0.4 oz DF (0.116 to 0.231 oz)	Broadleaf weeds including perennial sowthistle. Improved control of wild buckwheat.	Crop: 2-leaf until prior to flag leaf emergence.	
Peak (prosulfuron)	0.38 to 0.5 oz DF (0.22 to 0.29 oz)	Broadleaf weeds.	Crop: 3-leaf until 2nd node.	A3 C19 X1 Y1 Y3 Pages: 102-103, 108-110
Very Long Residual ALS Herbicides				
Amber / generic triasulfuron	0.28 to 0.56 oz DF (0.21 to 0.42 oz)	Broadleaf weeds.	Crop: 2-leaf until prior to boot stage.	Add NIS at 0.125 to 0.25%v/v. A3 A5 C6 X1 Y1 Y3 Y6 Pages: 102-103, 108-110
Glean / generic chlorsulfuron	1.67 to 0.33 oz DF (0.125 to 0.25 oz)	Broadleaf weeds and suppression of foxtail and Canada thistle.	Crop: 2-leaf until prior to flag leaf emergence.	Add NIS at 0.125% v/v except when adding 2,4-D ester or MCPA ester at 0.75 pt/A. Refer to label for application timings, tank-mix options, weeds controlled, and soil pH restrictions. A3 A5 C6 X1 Y1 Y3 Y6 Pages: 102-103, 104-105, 108-110
Finesse / generic chlorsulfuron & metsulfuron	0.2 to 0.4 oz DF (0.15 to 0.3 oz)			

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Hard Red Spring and Durum Wheat, Winter Wheat and Barley

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
POST-Applied Grass Herbicides				
Axial XL (pinoxaden & cloquintocet safener) Not for Durum	16.4 fl oz (0.86 oz)	Foxtail, wild and volunteer oat, Persian darnel, and annual ryegrass	Crop: 2-leaf to boot. Grasses: 1-leaf to 6-leaf + 3 tillers.	Axial XL and Axial Star is formulated with Adigor adjuvant. Axial TBC requires addition of Adigor adjuvant at 9.6 fl oz/A. May be tank-mixed with most broadleaf herbicides. Refer to label for tank-mix information, and restrictions.
Axial TBC (pinoxaden & florasulam & safener) Not for Durum	8.85 fl oz (0.93 oz)	and some broadleaf weeds.	Crop: 3-leaf to prior to boot. Grasses: 1-leaf to 6-leaf + 3 tillers.	A3 C7 S2 S6 X1 Pages: 102-103
Axial Star (pinoxaden & fluroxypyr) Not for Durum	16.4 fl oz (0.053 lb & 0.094 lb)	and kochia with partial control of annual broadleaf weeds.	Crop: 2-leaf until prior to boot. Foxtail: 1- to 3-leaf. Wild oat: 1- to 6-leaf.	
Discover NG (clodinafop & cloquintocet safener) Not For Barley	12.8 to 16 fl oz (0.05 to 0.06 lb)	Oat, green and yellow foxtail, barnyardgrass, Persian darnel, and annual ryegrass.	Wheat: 2-leaf until prior to boot. Wild oat: 1- to 6-leaf. Foxtails: 1- to 5-leaf.	
Fenoxaprop & mefenpyr safener	0.33 to 0.66 pt (0.04 to 0.08 lb)	Wild oat, green and yellow foxtail, millets, corn, and barnyardgrass.	Wheat: Emergence to 60 days PHI. Barley: 1-leaf to 4-leaf. Grass weeds: 1-leaf to 2-tiller.	Apply 0.33 pt/A for green foxtail, corn and millet. Apply 0.4 pt/A for yellow foxtail and proso millet. Apply 0.66 pt/A for barnyardgrass and wild oat. Refer to label for tank-mix options. A3 A6 C14 S2 S6 X1 Pages: 102-103
Wolverine (fenoxaprop & bromoxynil & pyrasulfotole & mefenpyr safener)	1.7 pt EC (0.08 lb & 0.125 lb & 0.036 lb)	Annual grass and broadleaf weeds.	Wheat: Emergence to 60 days PHI. Barley: Emergence to 5-leaf. Grass weeds: 1-leaf to 2-tiller.	Most crops can be planted the year following application. Do not plant lentil for 18 months after application. A3 C14 C16 S1 S3-5 X1 Pages: 102-103
Assert (imazamethabenz) Long Residual	1 to 1.5 pt (0.31 to 0.47 lb)	Wild oat, wild mustard, and other mustard species.	Crop: 2-leaf to jointing. Wild oat: 1- to 4-leaf.	Do not tank-mix with dicamba, or amine phenoxy. Add MSO-type adjuvants. Refer to label for tank-mix options and adjuvant information. A3 S6 Y2 Y6 Pages: 102-103, 108-110
Everest 2.0 Sierra (flucarbazone & safener) Not for Barley Short to Long Residual	0.5 to 1 fl oz (0.224 to 0.432 oz)	Wild oat, green foxtail, mustards, and pigweed. Partial control of yellow foxtail, barnyardgrass, downy brome, Japanese brome and Persian darnel	Wheat: 1-leaf to prior to jointing. Grass weeds: Up to 4 leaves.	Add basic pH blend adjuvant at 0.5 to 1% v/v or NIS at 0.25% v/v + AMS. Apply 0.5 fl oz/A for green foxtail or sequentially after Pre-Pare. Do not apply more than a total of 0.432 oz ai/A flucarbazone to the crop. Apply 0.75 to 1 fl oz/A for wild oat and other grasses. Tankmixes with tribenuron improve grass control. A3 C11 S2 S6 X1 Pages: 102-103, 108-110
Raze (flucarbazone & fluroxypyr & safener) Registration Pending Not for Barley	5 to 9 fl oz (0.2 to 0.37 oz ai & 1.06 to 1.9 oz ae)	Wild oat, foxtail, kochia, mustards, pigweed, flax, and bedstraw.	Wheat: 2-leaf to prior to jointing. Grass weeds: 1 to 4 leaves. Broadleaf weeds: 2 to 4 inches.	Add basic pH blend adjuvant at 0.5 to 1% v/v or NIS at 0.25% v/v + AMS. Apply 5 fl oz/A for green foxtail or sequentially after Pre-Pare. Apply 7 to 9 fl oz/A for wild oat, other grasses, and kochia. Tankmixes with SU broadleaf herbicides will improve grass control and expand spectrum of grasses controlled. A3 C11 S2 S6 X1 Pages: 102-103, 108-110

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Hard Red Spring and Durum Wheat, Winter Wheat and Barley

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Maverick (sulfosulfuron) Not For Barley Very Long Residual	0.67 oz DF (0.5 oz)	Downy brome, Japanese brome, quackgrass, mustard species and volunteer sunflower.	Wheat: Emergence to prior to jointing. Bromes: 2- to 3- tillers. Wild oat: 1- to 4-leaf.	Add NIS at 0.5%v/v. Fall applications provide greater brome and cheatgrass control than spring applications. Spring applications may control wild oat. Refer to label for tank-mix options. A3 A5 C17 X1 Y3 Y6 Pages: 102-103, 108-110
Olympus (propoxy-carbazone) Not For Barley Very Long Residual	0.6 to 0.9 oz WDG (0.42 to 0.63 oz)	Quackgrass, downy brome, Japanese brome, foxtail barley and mustard species.	Wheat: 2-leaf to jointing. Grasses: 2-leaf to 2-tiller. Broadleaf weeds: Less than 2 inches tall or in diameter.	Application to spring wheat may cause injury. Do not apply after jointing begins. Add NIS at 0.25 to 0.5% v/v. May be applied with liquid fertilizer. Use high rate for wild oat and brome species. Allow a 71 day PHI. Refer to label for tank-mix options. A3 C18 S2 S6 X1 Y2 Y4 Pages: 102-103, 108-110
Osprey (mesosulfuron & mefenpyr safener) Winter wheat only Short Residual	3.2 to 4.75 oz WDG (0.14 to 0.21 oz)	Wild oat, Persian darnel, and mustard species.	Wheat: Up to jointing. Grasses: Up to 1-tiller. Broadleaf weeds: Less than 2 inches tall or in diameter.	Application to spring wheat may cause injury. Add MSO adjuvant at 1.5 pt/A. Will control ACC-ase resistant wild oat. Refer to label for tank-mix options. A3 C18 S2 S6 X1 Y2 Y4 Pages: 102-103, 108-110
Rimfire Max (mesosulfuron & propoxycarbazone & mefenpyr safener) Not For Barley Short to Long Residual	3 oz WG (0.057 oz & 0.143 oz)	Wild oat, barnyardgrass, seedling foxtail barley, bromus grass species, and mustard species. Rimfire Max improves Persian darnel control.	Wheat. Spring: 1-leaf to flag leaf emergence. Grasses: 1-leaf to 2-tiller. Broadleaf weeds: Less than 2 inches tall.	Add MSO adjuvant at 1.25 pt/A, or NIS at 0.5% v/v + 28% UAN at 1 to 2 qt/A, or basic pH blend adjuvant at 1% v/v (0.8 to 1.6 pt/A). Do not use petroleum oil or adjuvants containing organosilicone because wild oat control will be reduced. Refer to label for tank-mix options. A3 C18 S2 S6 X1 Y2 Y6 Pages: 102-103, 108-110
PowerFlex (pyroxsulam + cloquintocet safener) Only for Winter Wheat Short Residual	3.5 oz WDG (0.26 oz)	Wild oat, downy brome and suppression of green foxtail.	Wheat: 3-leaf to prior to jointing. Grass weeds: 2- to 4-leaf. Broadleaf weeds: Less than 3 inches tall.	Do not apply after jointing begins. Will control ACC-ase resistant wild oat. Allow a 60 day PHI. For PowerFlex: Add NIS at 0.25 to 0.5% v/v + AMS at 1.5 lb/A or PO at 0.8% v/v. May be applied with 50% N spray solution.
GoldSky (pyroxsulam + florasulam + fluroxypyr + cloquintocet safener) Not for Barley Short Residual	1 pt (0.21 oz & 0.04 oz & 1.42 oz)	Wild oat, downy brome, green foxtail, kochia, wild mustard, and wild buckwheat.		For GoldSky: Add NIS at 0.25 to 0.5% v/v + AMS at 1.5 lb/A. Do not add NIS with tank-mix of EC herbicides. Refer to label for tank-mix information and restrictions. A3 C9 C15 X1
Huskie Complete (bromoxynil & pyrasulfotole & thiencazabone & mefenpyr safener) Not for Barley Registration Pending	13.7 fl oz EC	Wild oat, foxtails, barnyardgrass, Persian darnel, and most annual broadleaf weeds including resistant weeds.	Wheat: Up to jointing. Grass weeds: Up to 2 tillers. Broadleaf weeds: Up to 4 inches tall.	Do not apply to barley. Will control many ACC-ase resistant grass biotypes. Refer to label for crop rotation restrictions, tank-mix options, and application information. C16 S1 S3-5 S7 X1 Pages: 102-103, 108-110

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HERBICIDE RESISTANT WHEAT

Clearfield Wheat

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Beyond (imazamox)	4 fl oz (0.5 oz)	Annual grass and broadleaf weeds including wild oat, green and yellow foxtail, Japanese and downy brome, and Persian darnel.	Wheat: 4-leaf to prior to jointing.	Apply only to Clearfield wheat varieties. A higher rate of 4 to 6 fl oz/A may be used on winter wheat and 2 resistant-gene spring wheat. Add NIS at 0.25% v/v + UAN at 1 to 2 qt/A. Will not control ALS-resistant kochia and wild oat. Refer to label for tank-mix options and application information. Will suppress feral rye. A3 A5-7 C23 X1 Y2 Pages: 102-103, 108-110
Long Residual			Weeds: 1 to 3 inches tall.	
ClearMax (imazamox & MCPA)	4 + 8 fl oz (0.5 oz & 4 oz) Winter wheat: Up to 18 fl oz.			

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Grass weed control from postemergence applications.

POST GRASS HERBICIDES	Wild oat	Foxtail, Green	Foxtail, Yellow	Barley, Volunteer	Barnyardgrass	Corn, Volunteer	Brome, Downy*	Brome, Japanese*	Persian darnel	Ryegrass, Annual	Quackgrass	Foxtail barley
Assert	F-G	P	P	N	P	-	-	-	-	-	N	N
Axial XL/TBC/Star	E	G-E	G-E	N	G-E	N	N	N	E	E	N	N
Beyond/ClearMax	E	E	G-E	E	E	G-E	G-E	E	E	G-E	F	-
Discover NG	E	E	G-E	P-G	E	E	N	N	G-E	G-E	-	N
Everest 2.0 / Sierra	G-E	E	P-G	P-F	P	E	P-F	G-E	F-G	P-F	P-F	F
Fenoxaprop	E	E	E	N	E	E	N	N	-	-	N	N
GoldSky	G-E	F	F-G	N	F-G	-	F-G	G-E	G	G-E	F	F
Huskie Complete	G	G-E	G-E	-	-	-	-	-	-	-	-	-
Maverick**	E	P-F	P-F	-	P	-	F-G	G	-	P-F	G	-
Olympus	G-E	P-F	P-F	F-G	G	-	F-G	E	N	-	F-G	G
PowerFlex	G-E	F	F-G	-	F-G	-	F-G	G-E	-	G-E	F	F
Rimfire Max	G-E	P-F	P-F	P-F	G	F-G	P-F	G	G	-	F	F-G
Wolverine	E	G-E	G-E	N	E	-	N	N	-	-	N	N

*Early fall applications provide better control than late fall or spring. Earlier spring application are more effective than late spring or mid-season application.

**Suggested for use only in continuous wheat because of crop rotation restrictions.

Weed control ratings are based on the following scale:

- E = Excellent = 90 to 99% control
- G = Good = 80 to 90% control
- F = Fair = 65 to 80% control
- P = Poor = 40 to 65% control
- N = None = No control
- "-" = insufficient information