

INDUCE UNISON DOUBLEUP REQUEST WILDCARD BARRAGE HF

# HELENA POST SPRAY GUIDE - WHEAT & FALLOW

## 2008 - WHEAT - AERIAL APPLICATION

Product	Rate/Acre	Spray Adjuvants	Nitrogen Additive	Timing	Size	GPA	PSI	Remarks
<b>Phenoxy Compounds (Continued)</b>								
<b>UNISON™</b>	1-3.25 pts	None needed -including tank mixes with <b>UNISON</b> where surfactant is required.	None	Weeds - small active growth Crop - 1+ tillers and no flag leaf visible; then after hard dough		1-5		Acid formulation; no vapors; fully compatible with liquid fertilizer; can go up to 4.5 pts for emergency weed control, pre-harvest and post-harvest
<b>VISION™</b>	4-8 oz	<b>INDUCE 1 pt/100</b>	<b>QUEST/ReQUEST 3-4 pts/100</b>	Crop - prior to jointing Broadleaf small Weeds- actively growing		1-10		Rainfast 4 hours Higher preharvest & fallow rates allowed
<b>WILDCARD™</b>	1/2-3 pts	None needed *Including tank mixes w/ <b>WILDCARD*</b> where surfactant required	None needed	Crop - after 3-4 leaf stage up to early boot when weeds are young and actively growing		3-10		
<b>WILDCARD XTRA®</b>	1-2 pts; 3/4-1 1/2 pts with TM partner	None needed -including tank mixes with <b>WILDCARD XTRA</b> where surfactant is required.	None	Weeds - small active growth Crop - from 3 leaf up to before boot stage		min 3-5	40 max	Combination MCPA ester, bromoxynil and in-can surfactant system Good coverage important

## 2008 - FALLOW - AERIAL APPLICATION

Product	Rate/Acre	Spray Adjuvants	Nitrogen Additive	Timing	Size	GPA	PSI	Remarks
FallowMaster™ Broad Spectrum	32-52 oz	<b>AERO DYNE-AMIC 2 Qts/100; plus STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100</b> for drift	<b>QUEST/ReQUEST 3-4 pts/100 or ACCUQUEST WM 3-4 Qts/100</b> for N & drift	Weeds - up to 24" but prior to heading for grasses		3-5		Some counties excluded from use in KS, NE & SD Rainfast 6 hours 15 day preplant to wheat
Gramoxone™ Inteon	2-4 pts	<b>INDUCE 1 Qt/100 or AGRIDEX 1 pt/A</b>		Weeds - 1-6"		min 5		Rainfast 15-30 minutes Apply at least 45 days ahead of seeding
Landmaster® BW	40-54 oz	None unless tank mix partner requires plus <b>STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100</b> for drift	<b>QUEST/ReQUEST 3-4 pts/100 or ACCUQUEST WM 3-4 Qts/100</b> for N & drift	Weeds - 6-12"		3-5		For annual weeds allow 1 day before tillage Rainfast 6 hours
<b>LATIGO™</b>	1-3 2/3 pts	None	None	Weeds - annuals <6" tall; biennials in rosette; perennials in regrowth		3-10		Do not mix Latigo w/ any other 2, 4-D or dicamba containing product see crop plant - back times in label
<b>OUTLAW™</b>	1.5-6.0 pts	<b>INDUCE 1-2 Qts/100 or AGRIDEX 1 Qt/A</b>	Use of N solution (28-0-0 or 32-0-0) of at least 1/2 gal per acre shown to increase efficacy	Annual Weeds - <6" rosette Biennials - rosette Perennials - regrowth		3-10		Rainfast 4 hours Do not exceed 8 pts/A for total season
RT3™	11-32 oz	<b>INTERACTIVE 3 Qts/100</b> (for NIS & N) or <b>INDUCE 2 Qts/100</b>	<b>QUEST/ReQUEST 3-4 pts/100 or ACCUQUEST WM 2-4 Qts/100</b> for both N & drift	Weeds - up to 6-12"		3-15	VMD >400 VD (0.9) >200	Strikezone WDG 3 oz/100 Pointblank WM 2 oz/100 or Dropzone LC 1-2qt/100 for Drift only
Roundup® Brands	12-48 oz	<b>INTERACTIVE 2-4 Qts/100</b> (for NIS & N) or <b>OPTIMA 1-2 Qts/100 plus STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100</b> for drift	<b>QUEST/ReQUEST 3-4 pts/100 or ACCUQUEST WM 2-4 Qts/100</b> for both N & drift	Weeds - up to 6-12"		3-5		
Touchdown® Brands	1 1/2 pt	<b>INDUCE 1 Qt/100 or INTERACTIVE 2 Qts/100</b> (for NIS & N) if stress conditions plus <b>STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100</b> for drift	<b>QUEST/ReQUEST 3-4 pts/100 or ACCUQUEST WM 2-4 Qts/100</b> for both N & drift	Weeds - should have at least 2 leaves or be 2" tall		min 3	max 40	Rain-free period needed
Weedmaster®	1/2-6 pts	<b>AGRIDEX 1 Gal/100</b>	<b>QUEST/ReQUEST 3-4 pts/100 or ACCUQUEST WM 2-4 Qts/100</b> for both N & drift	Weeds - <6" tall		3-10		

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Product	Rate/Acre	Spray Adjuvants	Nitrogen Additive	Timing	Size	GPA	PSI	Remarks
Achieve® Liquid	6.9 oz	Supercharge® co-packed adjuvant <b>2 Qts/100</b>	<b>QUEST/ReQUEST 3-4 pts/100</b>	Small crop & weeds to ensure coverage Wild Oats - 1-6 leaves Green & Yellow Foxtail - 1-5 leaves Optimum Timing - 1-4 leaves		3-5		Rainfast 1 hour Geographic restrictions
Aim™ EC	0.5-2.0 fl oz	<b>INDUCE 1 Qt/100</b>	<b>QUEST/ReQUEST 3-4 pts/100</b>	Up to jointing stage of wheat Weeds - 1-4" Rosettes - <3" across		min 3		Rainfast 1 hour Spray pH must be between 5 & 8 No more than 2.0 oz/year
Axial™	8.2 oz	Adigor <b>9.6 oz/A</b>	None	Crop - 2 leaf to preboot Grass Weeds - 1-6 leaf		5	40 max	Rotation restrictions Rainfast 30 minutes
Clean Wave™	14 oz	<b>INDUCE 1 Qt/100</b>	None	Crop - 3 leaf to early joint Broadleaf Weeds - <8"		3 or more	30 max	Western Great Plains, MT & SD west of MO River & WY Rotation restrictions Rainfast 1 hour
Discover™ NG	12.8-16 oz	<b>MSO 1 Qt/100</b>	None	Wild Oats - 1-6 leaf Foxtail - 1-5 leaf Wheat - 2 leaf to 4th tiller emergence		3-5	40 max	Rainfast 30 minutes Only MN, ND & SD labels
Huskie™	11-15 oz	<b>INDUCE 1-2 Qt/100</b>	<b>ReQUEST 3-4 pts/100</b>	Crop - 1 leaf up to flag leaf emergence Weeds - generally 1-6 leaf		min 5		Rainfast 1 hour
Olympus™ 70% WDG	0.6-0.9 oz	<b>INDUCE 2 Qts/100</b>	<b>ReQUEST 3-4 pts/100</b>	Wheat - majority emerged to before jointing Grasses & Broadleaf weeds		min 5		Do not use raindrop nozzles. Rainfast 4 hours. See label restrictions.
Olympus™ Flex	3 oz (3.5 oz)	<b>INDUCE 2 Qts/100</b> or premium MSO 1.3-1.5 pt/A or <b>TRANSACTIVE 1 gal/100</b>	<b>ReQUEST 3-4 pts/100</b>	Crop - 1 leaf to jointing Weeds - 1 leaf to 2 tiller Broadleaf - <2"		min 5	40 max	Winter wheat only Rotation restrictions Rainfast 4 hours 71 day pH for grain
Puma™ 1EC	0.33-0.66 pts	None	None	Crop - 2-6 leaf Grass Weeds - 2 leaf-2 tiller		min 10	40+	200-350 micron droplets Rainfast 1 hour
Rimfire™	1.75-2.25 oz	<b>INDUCE 2 Qts/100</b> or premium MSO 1.3-1.5 pt/A or <b>TRANSACTIVE 1-1.25 gal/100</b>	<b>QUEST/ReQUEST 3-4 pts/100</b>	Crop - 1 leaf to flag leaf emergence Weeds - 1 leaf to 2 tiller Broadleaf - <2"		min 5		Winter wheat only Rotation restrictions Rainfast 4 hours 71 day pH for grain
Starane® NXTcp (multi-pack) or Starane® NXT	20-40 acres per case 14-27.4 oz	<b>INDUCE 1 Qt/100</b>	<b>QUEST/ReQUEST 3-4 pts/100</b>	Crop - 3 leaf to flag leaf emergence Weeds - 2" or 4 leaf to 8" max or 1" rosette		min 3	40 max	Rainfast 1 hour 40 day pH for grain
Starane® Ultra	0.3-0.7 pt	<b>INDUCE 1 Qt/100</b>	None	Crop - 2 leaf to flag leaf emergence (Z39) Weeds - before 8" tall or vining		min 3	30 max	Rotation restrictions Rainfast 1 hour Optimum temp 55-75° F
<b>Sulfonylureas</b>								
Affinity™ Broadspec	0.4-1.0 oz	<b>INDUCE 1-2 Qts/100</b>	<b>ReQUEST 3-4 pts/100</b>	Crop - 2 leaf before flag leaf Broadleaf after cotyledon Weeds - but before 4"		2-5		Rainfast several hours
Affinity™ Tank Mix	0.6-1.0 oz	<b>INDUCE 1-2 Qts/100 or AGRIDEX 1-2 gal/100 or MSO 2 Qts/100</b>	<b>ReQUEST 3-4 pts/100</b>	Post Emergent Wheat - 2 leaf but, before flag leaf visible For preplant - 1/2 post harvest use also		2-5		Do not alter pH of spray solution to <6 <b>DOUBLEUP™ B+D, WILDCARD* EXTRA®, BARRAGE HF*</b> are excellent tank mixes
Agility™ SG w/ TotalSol®	1.6-3.2 oz	<b>INDUCE 1-2 Qt/100 or AGRIDEX 1-2 gal/100</b> if droughty	<b>ReQUEST 3-4 pts/100</b>	Crop - (F) 2 leaf, but before jointing (S) 2 leaf, but before 6 leaf		1-5		Do not use in San Luis Valley of CO Rainfast 6 hours Do not use where soil pH > 7.9 Rotation restrictions
Ally® Extra SG w/ TotalSol®	0.3-0.5 oz	<b>INDUCE 1 Qt/100 or AGRIDEX 1-2 gal/100</b> if droughty	<b>ReQUEST 3-4 pts/100</b>	After crop in 2 leaf stage, but before flag leaf visible		1-5		Rainfast 6 hours Do not use on soils > 7.9 pH Do not use in San Luis Valley of CO
Ally® XP	0.1 oz	<b>INDUCE 1-2 Qts/100</b>	<b>ReQUEST 3-4 pts/100</b>	Dryland Wheat - 2 leaf to before boot Irrigated Wheat - after tiller but, before boot Weeds - <4"		1-5		Rainfast 4 hours Do not use on soils with pH > 7.9

ACCUQUEST WM at 3-4 Qts/100 or INTERACTIVE at 2-4 Qts/100 or ReQUEST/QUEST at 3-4 pts/gal replaces 8 1/2-17 lbs/100 of AMS.  
 ACCUQUEST WM, AGRIDEX, BARRAGE HF, DOUBLEUP B + D, DROPZONE LC, DYNE-AMIC, INDUCE, INTERACTIVE OPTIMA, OPTIAMINE,  
 POINT BLANK WM, QUEST, ReQUEST, TRANSACTIVE HC, UNISON, WILDCARD, WILDCARD XTRA are trademarks of Helena Holding Co.  
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INDUCE UNISON DOUBLEUP REQUEST WILDCARD BARRAGE HF

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2008 – WHEAT – AERIAL APPLICATION

Product	Rate/Acre	Spray Adjuvants	Nitrogen Additive	Timing	Size	GPA	PSI	Remarks
<b>Sulfonylureas (Continued)</b>								
Amber® CustomPak™	0.28-0.56 oz (Accu-Pak® is 1.4 oz total)	<b>INDUCE 1 Qt/100</b>	<b>ReQUEST 3-4 pts/100</b>	Crop - any stage up to pre-boot Weeds - 2-6"		2-5	40 max	Do not use in San Luis Valley of CO Rainfast 4 hours
Beyond™	4 oz	<b>INDUCE 1 Qt/100</b>	<b>QUEST/ReQUEST 3-4 pts/100</b>	Crop - after 3rd leaf to jointing Weeds - BL up to 3" Grass 1-4"		5 min	40 max	<b>For use with CLEARFIELD* (IMI tolerant) wheat only</b> Rainfast 1 hour Rotation/Geographic Restrictions
Everest™	0.4-0.6 oz	<b>INDUCE 1 Qt/100</b>	<b>ReQUEST 3-4 pts/100</b>	Wild Oats - 1-6 leaf Green Foxtail - 1-6 leaf Yellow Foxtail - 1-6 leaf Winter Wheat - 1-6 leaf Spring Wheat - 1-4 leaf		3-5	40 max	Rainfast 1 hour
Express® w/ TotalSol®	0.25-0.5 oz	<b>INDUCE 1 Qt/100</b>	<b>ReQUEST 3-4 pts/100</b>	Crop - after 2 leaves but before flag leaf visible Weeds - <4" Wild Garlic - <12"		2-5		Do not use in San Luis Valley of CO pH=45 days Tank mix w/ <b>BARRAGE HF*</b> or <b>WILDCARD*</b> in tillering stage. Rainfast several hours.
Finesse®	0.2-0.5 oz	<b>INDUCE 1 Qt/100</b>	<b>ReQUEST 3-4 pts/100</b>	Crop - any time after leaf, but before boot stage		1-5		Do not use in San Luis Valley of CO Tank mix w/ <b>BARRAGE HF*</b> or <b>WILDCARD*</b> Do not apply during boot or early heading No grazing restriction
Glean® FC	1/6-1/3 oz	<b>INDUCE 1 Qt/100</b>	<b>ReQUEST 3-4 pts/100</b>	Crop - after 2 leaves but before boot		1-5		Tank mix w/ <b>BARRAGE HF*</b> or <b>WILDCARD*</b>
Harmony® Extra w/ TotalSol®	0.45-0.9 oz	<b>INDUCE 1 Qt/100</b> if tank mixed w/ 2, 4-D 1 pt/100	<b>ReQUEST 3-4 pts/100</b>	Crop - > 2 leaf but before flag leaf visible Weeds - > cotyledon but <4" Wild Garlic - <12"		2-5		Tank mix w/ <b>BARRAGE HF*</b> or <b>WILDCARD*</b> Several hours rainfast
Harmony® SG w/ TotalSol®	0.45-0.9 oz	<b>INDUCE 1 Qt/100</b> if tank mixed w/ 2, 4-D 1 pt/100	<b>ReQUEST 3-4 pts/100</b>	Crop - > 2 leaf but before flag leaf visible		2-5		Tank mix w/ <b>BARRAGE HF*</b> or <b>WILDCARD*</b> Rainfast several hours
Maverick™	2/3 oz	<b>INDUCE 2 Qts/100</b>	<b>ReQUEST 3-4 pts/100</b>	Brome - 2-3 leaf - fall (Downy, Cheat) Winter Wheat - 5 tiller - spring Spring Wheat - See Label Wild Oat - 1-4 leaf		5-15		Apply within 24 hrs of mixing Spray solutions pH 6-8 optimum
Osprey™	4.75 oz	<b>MSO 1.5pt/A or TRANSACTIVE HC 0.8-1.6 pt/A or INDUCE 2 Qts/100</b>	<b>ReQUEST 3-4 pts/100</b>	Wheat - emergence to jointing Ann Grass 1/2 BL Weeds - 1-2"		min 5	200-350 microns max 40	Rainfast 4 hours
Peak® CustomPak™	0.38-0.5 0.25-0.5 in some tank mixes	<b>INDUCE 1 Qt/100</b>	<b>ReQUEST 3-4 pts/100</b>	Crop - 3 leaf to before 2nd node in stem elongation Weeds - 1-6"		min 2	max 40	Do not use in San Luis Valley of CO Rainfast 4 hours TM w/ <b>BARRAGE HF*</b> or <b>WILDCARD*</b>
RAVE™	2-4 oz	<b>INDUCE 1 Qt/100 plus STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100 for drift</b>	<b>ReQUEST 2-4 pts/100 or ACCUQUEST WM 3-4 Qts/100 for N &amp; drift</b>	Crop - Spring Wheat - up to 6 leaf Winter Wheat - up to jointing Weeds - gen 1-4" Mustards - to 14"		5-20	FF tip	Do not use in San Luis Valley of CO Use only in CO, MN, MT, NE & SD Rainfast 4 hours Max 4 oz/yr & one app/yr May tank mix <b>BARRAGE HF*</b> or <b>WILDCARD*</b>
Silverado™ Wild Oat Herbicide	1.75-2.25 oz	<b>MSO 1.5pt/A or TRANSACTIVE HC 0.8-1.6 pt/A</b>	<b>ReQUEST 3-4 pts/100</b>	Wild Oat - 1 leaf-2 tiller Wild Mustard - 1-2"		min 5	200-350 micros max 40	Rainfast 4 hours

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Product	Rate/Acre	Spray Adjuvants	Nitrogen Additive	Timing	Size	GPA	PSI	Remarks
<b>Phenoxy Compounds</b>								
2, 4-D Low Volatile 4# Ester	1/2-2 pts	<b>INDUCE 1 Qt/100 plus STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100 for drift</b>	None needed	Crop - after fully tillered but not forming joints in stem		1 or more		Do not mix w/ oil
2, 4-D Low Volatile 6# Ester	1/3-1 1/3 pts	<b>INDUCE 1 Qt/100 plus STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100 for drift</b>	None needed	Crop - After fully tillered but not forming joints in stem. Do not spray in boot to dough stage.		1 or more		Do not mix w/ oil
Banvel®	2-4 oz	<b>INDUCE 1 Qt/100 STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100 for drift</b>	<b>QUEST/ReQUEST 3-4 pts/100 or ACCUQUEST WM 3-4 Qts/100 for N &amp; drift</b>	Crop - fall seeded prior to jointing, spring seeded <5 leaves Weeds - 2-3 leaf stage or Rosettes - <2"		1-10 2-20 for pre-harvest	lower better	
<b>BARRAGE® HF</b>	7-10 oz	None needed *Including tank mixes w/ <b>BARRAGE® HF</b> where surfactant is required	None needed	Crop - fall planted before boot stage Spring - seeded after tillering but not between boot & dough Weeds - small		1-10		
Bronate Advanced™	9.6-25.6 oz	None	None	Crop - 3 leaf boot Weeds - 4-8 leaf or 2-4" Rosettes - 1-2" diameter		3-5	40 max	Inadequate coverage, cool or dry conditions can reduce weed control
Clarity®	2-4 oz	<b>INDUCE 1 Qt/100 plus STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100 for drift</b>	<b>QUEST/ReQUEST 3-4 pts/100 or ACCUQUEST WM 3-4 Qts/100 for N &amp; drift</b>	Weeds - 2-3 leaf stage or Rosettes - <2"		min 2	lower better	
<b>DOUBLEUP™ B + D</b>	3/4 - 1 pint	None needed - including tank mixes with <b>DOUBLEUP B + D</b> where surfactant is required	None	Weeds - small; active growth up to 4 leaf or 2" Crop - fully tillered to just before jointing		min 5	40 max	Good coverage important Combination of LV ester, bromoxynil and in-can surfactant system
<b>LATIGO™</b>	1 pt P.H. up to 1 1/4 pt	None	None	Crop - (S) after tillering, but before 6 leaf stage (F) after tillering, but before jointing (P.H.) hard dough and green color gone at nodes; grain not used for seed		3-10		Do not mix Latigo w/ any other 2, 4-D or dicamba containing product
MCPA amine	1/2-2 pts	<b>STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100 for drift</b>	<b>QUEST/ReQUEST 3-4 pts/100 or ACCUQUEST WM 3-4 Qts/100 for N &amp; drift</b>	Crop - After 4 leaf but not jointing. Do not spray from boot to dough.		min 1		
MCPA ester	1/2-1 1/2 pts	<b>STRIKE ZONE WDG 4 oz/100 or POINT BLANK WM 3 oz/100 or DROPZONE LC 1-2 Qts/100 for drift</b>	None needed	Crop - After 3-4 leaves but not jointing. Do not spray from boot to dough stage.		min 1		
<b>OPTIAMINE™</b>	2/3-2 pts	None	<b>QUEST 2-3 pts/100</b> if hard water or stress conditions	Crop - After tillering but before boot stage. Do not spray in boot to dough stage.		1-5		Preharvest 1-3 pts dough stage
<b>OUTLAW™</b>	1.5 pts; up to 1.33 pts with TM partners; up to 7.25 pts between crop	None needed -including tank mixes with Outlaw where surfactant is required.	None	Weeds - small active growth In-Crop - see label and supplemental bulletin		3-10		<b>For use only in fall seeded wheat from after tillering to just prior to jointing</b> All types wheat okay for pre and post-harvest (between crop)