
2025

CROP PROTECTION GUIDE

WINFIELD[®]
UNITED
Canada

TABLE OF CONTENTS



NEW!

LOOKING FOR OUR CROPLAN SEED PRODUCTS?

Check out our Seed
Guide online or at your
local independent retailer!

 WinFieldUnitedCanada

 WinFieldUnitedCanada

 @winfieldunitedcanada

[WINFIELDUNITED.CA](http://winfieldunited.ca)

WHO WE ARE	4
PARTNER WITH MASTERLOCK	6
 SPRAY CLINICS	8
 INNOVATION CENTER	9
 ADJUVANTS	10
 HERBICIDES & FUNGICIDES	26
 PLANT NUTRITION	42
 TANK OPTIMIZATION	50
BIOSOLUTIONS	56
PARTNER DIRECTORY	57

WHO WE ARE

THE PARTNER YOU NEED, NOT THE ONE YOU'RE USED TO.

At WinField® United Canada, we don't just supply your area, we're part of it. It's where we live, work and play, too. We're unapologetically committed to local farmers, independent retailers and CROPLAN® distributors. Because successful operations grow vibrant communities.

We were created to give farmers and retailers the upper hand – the products, services and knowledge of a large national network without sacrificing the values and purpose of local independence. Combining regional insight and world-class expertise, we proudly fight for the needs of local business owners and the farmers they support.

PART OF YOUR COMMUNITY

AG THRIVES ON THE SUPPORT OF GOOD NEIGHBOURS

We're proud to support local partners and farmers through our pillars of community investment: Mental Health, Hunger, Education and Community.

OUR INITIATIVES

Uplifting people and communities through volunteering and philanthropy is a fundamental part of how we operate every day. WinField United also undertakes two major community initiatives each year.



The Journey 5km by WinField United run/walk was created to support mental health and combat burnout heading into the busy growing season. Participants simply sign up, run/walk 5 km, have open discussions about mental health, and check in with family, friends and co-workers. Join us next spring!



JOURNEY 5KM

Use smartphone
camera to scan code



Raise the Barn brings together independent retailers and community organizations to make a lasting difference in the communities in which we live and work. Partners put their creativity and ingenuity to the test to come up with an impactful idea to address a local need in the areas of Mental Health, Hunger, Education or Community.



RAISE THE BARN

Use smartphone
camera to scan code

MASTERLOCK® MAXIMIZE YOUR FUNGICIDE APPLICATION AND BOOST YOUR YIELD



ENHANCED STICKING AND SPREADING

A key function of MasterLock is its ability to improve the sticking and spreading of fungicide droplets. The improved efficacy comes from ensuring that droplets land where they are supposed to—on the plant—without bouncing off. Once they land, MasterLock helps them stay in place, spreading evenly across the leaf surface for better coverage. The better the coverage, the more consistent the protection. This effective sticking and spreading gives you greater control over your fungicide application.



LOCKTECH™ TECHNOLOGY: REDUCING DRIFT AND IMPROVING CANOPY PENETRATION

MasterLock's LockTech technology solves the issue of driftable fines—tiny droplets that can easily drift away and be wasted. With LockTech, those fine droplets are transformed into a usable size that can hit the target. Not only does this mean more fungicide reaches the plant, but it also ensures better penetration into the crop canopy. This is particularly important because many diseases originate in the lower parts of the plant, where humidity is high and pathogens thrive. By getting the fungicide deep into the canopy MasterLock provides better protection, especially on lower leaves where diseases tend to start.



PROLONGED WETTING FOR MAXIMUM ABSORPTION

Once droplets dry on the leaf, they can no longer be absorbed by the plant. This is where MasterLock's humectant properties come in—it helps the droplets stay wet longer, allowing the plant more time to absorb the fungicide. This prolonged wetting increases the fungicide's effectiveness and overall performance.



YOUR PARTNER IN PROTECTION

Most fungicides are preventative, meaning that you need to protect the plant before a disease sets in. Whether you're managing ear molds in corn, Sclerotinia in canola, white mold in soybeans, or leaf diseases in wheat, MasterLock delivers improved coverage and protection, ensuring your fungicide performs at its best. Maximize your yield and hit plant disease where it hurts with improved accuracy and effectiveness using MasterLock.

When it comes to improving fungicide performance and increasing yields, MasterLock adjuvant is the partner you need. For any fungicide application requiring a non-ionic surfactant (NIS), MasterLock is designed to enhance the effectiveness of your fungicide, ensuring better results and healthier crops.



Darren McColm,
Technical
Product Manager
Eastern Canada

I think LockTech technology is crucial because it ensures we get the droplets exactly where they need to be. For effective coverage and application, especially with fungicides, you need even distribution throughout the canopy—LockTech delivers that. With millions of acres treated globally, we know it works. So, if you're looking to improve your spray application and boost your ROI, try LockTech technology to fine-tune your spray.



Martin Carr,
Agronomy Manager
Western Canada

What makes LockTech technology truly stand out is the deep research and development behind it. We've mastered when, how, and at what rates to use it, giving us the confidence that it delivers reliable results every time.

LOCKED ON TARGET

Strike weeds and disease with improved accuracy and effectiveness. **LockTech™** adjuvants feature best-in-class drift control and the optional added benefits of a non-ionic surfactant or methylated seed oil.



LEARN MORE
Use smartphone
camera to scan code

Available exclusively from your
local independent retailer.



**WINFIELD
UNITED**



GIVE YOUR CROPS THE EDGE THEY NEED

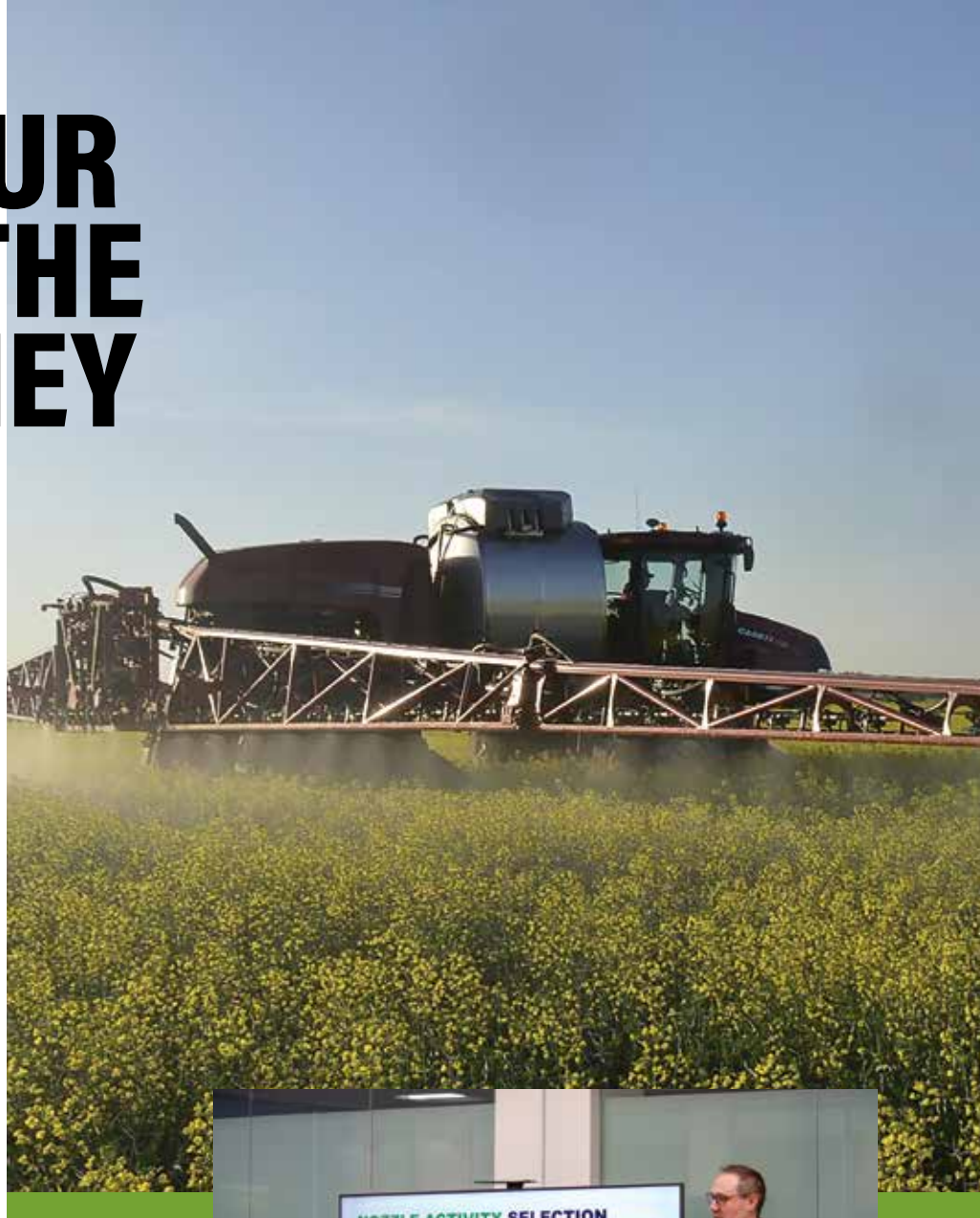
Find the perfect mix for your crops and conditions. WinField United not only offers crop protection and nutrient products, but the additives and adjuvants to help you maximize their effectiveness, too.

SPRAY CLINICS

Getting the most out of your crop protection and nutrient investment takes more than the right products. Our Spray Clinics help you gain advanced knowledge of the newest innovations in chemical selection and application with first-hand training and expertise. Learn practical tips, techniques and insights you can apply right away to improve your spray application. Talk to your WinField United Market Development Manager to book and learn more about our Basic, Intermediate and Advanced Spray Clinics today!

**REQUEST A
SPRAY CLINIC**

Use smartphone
camera to scan code



WINFIELD UNITED CANADA AND THE US INNOVATION CENTER

We work closely with the team at the WinField United Innovation Center in River Falls, WI. This unit provides our team with the latest technology for all our crop protection products. The WinField United Innovation Center is the technological epicentre of WinField United product testing and development. It's an industry-leading research facility driving faster product development, more effective spray applications and greater profitability potential and efficiency for farmers. At the Innovation Center they have 30 full time scientists and staff who have conducted and developed:

- 250+ internal field trials annually
- 300,000+ tissue samples harvested/collected sampled since 2010
- 80,000+ spray analysis samples tested
- Many active patents globally

The Innovation Center has six research units that provide WinField United with the latest product information:

- Spray Technology & Wind Tunnels
- Chemistry Lab
- Seed Care and Plant Nutrition & Performance Lab
- Controlled Environment Lab
- Field Research Facility
- Plant Phenotyping Lab



©2017 WinField Solutions, LLC



ADJUVANTS

Specially formulated and rigorously tested, WinField United Canada adjuvants provide the ultimate control and customization over your spray mix. They'll help you tackle even the toughest conditions, from improving spray coverage and optimizing deposition to water conditioning and drift reduction.

ADJUVANT CHEAT SHEET

ADJUVANT
CHEAT SHEET

		RECOMMENDED ADJUVANT OPTIONS (V/V %)						
		Non-Ionic Surfactant			Methylated Seed Oil		Crop Oil Concentrate	
BRAND NAME	ACTIVE INGREDIENT	MasterLock [®] WinField United	HiActivate [®] WinField United	StrikeLock [®] WinField United	Journey HSOC [®] WinField United	Destination M50 [®] WinField United	Voyage LOC [®] WinField United	NOTES
ACCENT	Nicosulfuron	0.5	0.2					UAN may be added in some applications.
AIM EC	Carfentrazone	0.5	0.25	0.5	0.5	1		Requires a surfactant when used without glyphosate.
ALLY	Metsulfuron		0.2					Requires a surfactant when used without glyphosate.
AMITY WDG	Imazamox							Not registered with WinField United Adjuvants. Use Surjet at 0.5% v/v.
ANTLER 360 UNPACKED	Clethodim	0.5		0.5	0.5	0.5		
ARMORY 240	Diquat	0.3	0.1					
ARROW ALL IN	Clethodim	0.5	0.25	0.5	0.5	0.5		Additional adjuvant advised when used alone, under challenging environmental conditions, or extreme weed pressure.
AUDIBLE	Tribenuron Thiensulfuron Fluroxypyr		0.2					
AUTHORITY STRIKE	Carfentrazone Sulfentrazone	0.5	0.2					Requires a surfactant when used without glyphosate.
BARRICADE II	Thifensulfuron Tribenuron Fluroxypyr		0.2					
BATALIUM	Flucarbazone Fluroxypyr MCPA Bromoxynil	0.5	0.25					
BESERK	Bentazon							WinField United Canada adjuvants not yet registered. Use Assist or XA Oil Concentrate at 1% v/v. See label for additional details.
BIFECTA EZ	Metribuzin Flumioxazin	0.5	0.25				0.5-1 L/acre	For control of emerged weeds with additional tank mix partners, use a surfactant. Tank mixes with glyphosate or glufosinate do not require surfactant.
BISON 400 L	Tralkoxydim					0.5		
BOUNDARY	S-Metolachlor Metribuzin	0.3	0.1				1	For pre-plant and pre-emergent applications only.
BROADLOOM	Bentazon							Use Assist or XA Oil Concentrate at 1% v/v. Recommendations vary by crop type. See label for additional details.
CADILLAC UNPACKED	Clodinafop	0.5		0.5	0.5		1	
CALLISTO	Mesotrione	0.4	0.2					
CANVISTA	Imazamox	0.45	0.25	0.5	0.5	0.5		
CIRPREME XC	Florasulam Halauxifen Clopyralid	0.5	0.25	0.5				Not required if adding phenoxy.
CLASSIC	Chlorimuron	0.5	0.2					
CLEAT	Tribenuron	0.4	0.2					Use an adjuvant when applied alone.
COMMAND CHARGE	Clomazone Carfentrazone	0.5	0.25					Requires a surfactant when used without glyphosate.
CORAGEN MAX	Chlorantraniliprole					0.25		Does not require a surfactant for labeled insects.
CRAVEN	Diquat	0.3	0.1					
DAKOTA	Imazamox							WinField United adjuvants not yet registered. Use Merge at 0.5% v/v.



Brand Name		Active Ingredient		Recommended Adjuvant Options (V/V %)						Notes
				Non-Ionic Surfactant			Methylated Seed Oil		Crop Oil Concentrate	
				MasterLock [®] <small>WinField United</small>	HiActivate [®] <small>WinField United</small>	StrikeLock [®] <small>WinField United</small>	Journey HSOC [®] <small>WinField United</small>	Destination M50 [®] <small>WinField United</small>		
Brand Name	Active Ingredient								Notes	
DAVAI 80 SL	Imazamox	0.5	0.25	0.5	0.5	0.5				
DESICA	Diquat	0.3	0.1							
DESTRA IS	Rimsulfuron Mesotrione	0.5	0.2						Not required when tank mixed with glyphosate.	
DRAFT	Tribenuron Thiensulfuron		0.2							
DRIFAST	Diquat	0.3	0.1							
ENGARDE	Rimsulfuron Mesotrione	0.5	0.2							
EPIC	Pinoxaden	0.5			0.5					
EVEREST 3.0	Flucarbazone	0.5	0.25							
EXPRESS SG	Tribenuron	0.5	0.2						Requires an adjuvant when applied alone in ExpressSun sunflower.	
EXTINGUISH XL	Halauxifen Florasulam 2,4-D	0.5	0.25						Add an NIS for control of weed under stress, advanced growth stages, or heavy infestations.	
FIERCE	Flumioxazin Pyroxasulfone		0.25							
FIRSTRATE	Cloransulam	0.5	0.25						For post emergent applications when applied alone, add a non-ionic surfactant and liquid fertilizer (28-0-0 or 32-0-0) at 2.5% v/v.	
FLEXSTAR GT	Glyphosate Fomesafen								Under stressful conditions add an adjuvant. Do not add AMS.	
FOCUS	Carfentrazone Pyrazasulfone	0.5	0.25						Requires a surfactant when used without glyphosate.	
FOREMOST	Carfentrazone	0.5	0.25	0.5	0.5	1			Requires a surfactant when used without glyphosate.	
HALEX GT	Mesotrione S-Metolachlor Glyphosate	0.4	0.2							
HINGE	Rimsulfuron								WinField United adjuvants not yet registered. Use Agral 90 or Ag-Surf at 0.2% v/v.	
HOLDFAST	Prothioconazole	0.3	0.125							
HORNET	Tebuconazole	0.3	0.125							
HURRICANE	Bentazon Acifluorfen								Additive recommendations vary by crop type and tank mix. See label for full details.	
IDOL	Quizalofop	0.5			0.5				Research ongoing with WinField United Canada adjuvants. Use Merge or Sure-Mix at 0.5% v/v.	
INSIGHT	Tiafenacil			1		1				
INSTEP	Carfentrazone								WinField United adjuvants not yet registered. Use Agral 90 or Ag-Surf at 0.25% v/v.	
INVOLVE 50 WDG	Tribenuron								Requires an adjuvant if used alone. Use Agral 90 at 0.35% v/v.	
JOUST	Prothioconazole	0.3	0.125							
KOMODO	S-Metolachlor								Adjuvant recommendations vary by crop type and tank mix. See label for full details.	
LEOPARD	Quizalofop	0.5	0.25	0.5	0.5	0.5				
LIQUID ACHIEVE SC	Tralkoxydim					0.5				

		RECOMMENDED ADJUVANT OPTIONS (V/V %)						
		Non-Ionic Surfactant			Methylated Seed Oil		Crop Oil Concentrate	
		MasterLock [®] WinField United	HiActivate [®] WinField United	StrikeLock [®] WinField United	Journey HSOC [®] WinField United	Destination M50 [®] WinField United	Voyage COC [®] WinField United	
BRAND NAME	ACTIVE INGREDIENT							NOTES
MARSHALL UNPACKED	Quizalofop	0.5	0.25	0.5	0.5	1	1	
MIRAVIS ACE	Pydiflumetofen Propiconazole	0.325	0.125					
MIRAVIS BOLD	Pydiflumetofen	0.325	0.125					
MIRAVIS ERA	Pydiflumetofen Propiconazole	0.325	0.125					
MIRAVIS STAR	Pydiflumetofen Fludioxonil	0.325	0.125					
NELATIC	Imazamox Bentazon							Add Crimson at 0.81 L/acre for improved grassy weed control.
NUFARM TRALKOXYDIM	Tralkoxydim					0.5		
ONDECK	Bromoxynil Tolpyralate			0.5	0.5	1	1	
ORIUS 430 SC	Tebuconazole	0.3	0.125					Additional adjuvant advised under significant disease pressure or environmental conditions that favour disease development.
PARADIGM PRE	Halauxifen Florasulam	0.5	0.25					Not required when tank mixed with glyphosate.
PAVISE 480SC	Prothioconazole	0.3	0.125					
PEAK	Prosulfuron		0.2				1	Do not use crop oil concentrates when tank mixing with Ultim or Accent.
PERMIT	Halosulfuron		0.25				1	Use Voyage COC when tank mixes are used. Do not use a COC in Dry Bean applications.
PHANTOM 240 SL	Imazethapyr		0.25					
PINNACLE SG TOSS-N-GO	Thifensulfuron	0.3	0.1					
PLOTTER	Metsulfuron Methyl							WinField United adjuvants not yet registered. Use Agral 90 or Ag-Surf at 0.2% v/v.
PRECISIONPAC	PP-2525 PP-23235 PP-3317 DB-6645	0.5	0.2					
	CS-100-2525 CS-75-2525 CS-100-23235 CS-75-23235	0.5	0.25					
	DB-8454							Requires a surfactant. Use Agral 90, Ag-Surf or Citowett Plus at 0.2% v/v.
PRIMEXTRA II MAGNUM	S-Metolachlor Atrazine		0.3					With glyphosate tank mix.
PRISM SG	Rimsulfuron	0.5	0.2					
PYTHON	Imazamox Bentazon	0.5	0.25	0.5	0.5	0.5		Add Crimson NG at 0.81 L/acre for improved grassy weed control.
QUASAR	Imazamox Imazethapyr	0.5	0.25	0.5	0.5	0.5		
RANSACK	Imazomox Bentazon							Add Crimson NG at 0.81 L/acre for improved grassy weed control.
REFINE SG	Thifensulfuron Tribenuron		0.2			0.25		
REFLEX	Fomesafen							Surfactant required. Rates vary by adjuvant and crop type.
REGLONE	Diquat	0.3	0.1					
ROXAR	Tetraconazole	0.3	0.25					Use 0.2% v/v in corn applications.

				RECOMMENDED ADJUVANT OPTIONS (V/V %)					
				Non-Ionic Surfactant			Methylated Seed Oil		Crop Oil Concentrate
				MasterLock [®] WinField United	HiActivate [®] WinField United	StrikeLock [®] WinField United	Journey HSOC [®] WinField United	Destination M50 [®] WinField United	Voyage COC [®] WinField United
BRAND NAME	ACTIVE INGREDIENT	NOTES							
SANDEA	Halosulfuron		0.25				1	Use Voyage COC when tank mixes are used.	
SHIELDEX	Tolpyralate					1			
SIERRA 3.0 AG	Flucarbazone	0.45	0.25						
SIGNAL UNPACKED	Clodinafop	0.5		0.5	0.5				
SIMPLICITY GODRI	Pyroxsulam	0.5	0.25					Always add Bindem when using MasterLock or HiActivate.	
SORADUO	Tebuconazole Prothioconazole	0.3	0.125					Additional adjuvant advised under significant disease pressure or environmental conditions that favour disease development.	
SORTAN IS	Rimsulfuron	0.5	0.2					Not required when tank mixed with glyphosate.	
SQUADRON	Metribuzin	0.3	0.1				1	PRE seed only. Do not add surfactants in post emergent applications.	
SQUADRON II	Metribuzin	0.3	0.1				1	PRE seed only. Do not add surfactants in post emergent applications.	
STATUE	Clethodim							Research ongoing with WinField United Canada adjuvants. Use Carrier at 0.5% v/v.	
STEADFAST IS	Rimsulfuron Nicosulfuron	0.5	0.2					Not required when tank mixed with glyphosate.	
STRIM MTZ	Metribuzin S-Metolachlor		0.1				1	PRE seed only.	
TRIACTOR EZ	Imazethapyr Metribuzin Flumioxazin	0.5	0.25					If applied alone to actively growing weeds.	
ULTIM	Rimsulfuron Nicosulfuron	0.5	0.2						
ULTRA BLAZER	Acifluorfen							Adjuvant only required with 0.5 L/ac rate of Ultra Blazer applied alone. Use Assist Oil Concentrate at 0.5% v/v.	
UPBEET	Triflusulfuron		0.25					Adjuvant required when applied alone.	
VENIM	Imazamox							Research ongoing with WinField United Canada adjuvants. Use Carrier at 0.5% v/v.	
VOLTA	Thifensulfuron		0.2						
YUMA	Quizalofop	0.5	0.25-0.5	0.5	0.5	0.5-1	0.5-1		
Zolera FX	Tetraconazole Fluoxastrobin	0.3	0.25					Use 0.2% v/v in corn applications.	

Crimson® NG

By WINFIELD UNITED

Crimson® NG is a convenient liquid premix of ammonium sulfate (AMS) and a proprietary blend of water conditioning, coupling and antifoam agents. An AMS water conditioner that provides exceptional water conditioning, Crimson NG is designed for use with pesticides that may be affected by hard water or challenging application conditions. Crimson NG may also be used in other spray applications when the herbicide necessitates AMS additives.

FEATURES & BENEFITS

- Prevents herbicide antagonism for optimum performance.
- Enhanced formulation now contains antifoam for added convenience.
- Pre-dissolved to alleviate sedimentation and nozzle plugging.

Application Rates

Crimson NG rates are best determined from water test results.

Use 1-1.5% v/v for standard use and 2-2.5% v/v under extreme environmental conditions or when tank mixing with foliar micronutrients.

HELP PREVENT HERBICIDE ANTAGONISM

Many spray waters contain positively charged cations such as calcium, iron, magnesium, potassium and sodium that tie up (antagonize) pesticides such as glyphosate and glufosinate. Crimson NG conditions the water to prevent antagonism from hard water or when tank mixing with foliar micronutrients, both of which can impact the performance of the spray application.



COMMON USE RATE

1-2.5% v/v



APPLICATION GUIDE

Add and agitate spray solution prior to adding glyphosate or other herbicides¹



PACKAGING

2 x 10 L jugs/case
450 L tote
1000 L tote



ACTIVE INGREDIENT

AMS (34%) and a proprietary blend of water conditioning, coupling and antifoam agents



PRODUCT GROUP

Utility modifier
– water conditioner

Water quality can affect Groups 1, 9, 10 and 27. Test your water and add Crimson NG for optimum performance.

¹ Always refer to product label for specific tank mix instructions.

Destination® MSO

By WINFIELD UNITED

Destination® MSO contains methylated seed oil (MSO) and emulsifiers to help break down waxy leaf surfaces for improved herbicide performance.

FEATURES & BENEFITS

- Allows greater pesticide uptake by breaking down waxy leaf surfaces.
- Improves adhesion and adsorption of pesticides onto and into plant tissue.
- Use Destination MSO where oil adjuvants are required.
- PMRA approved activator adjuvant.

Application Rates

0.5-1.0% v/v. Always consult product labels for recommended oil adjuvant rates. Adjuvant rates typically vary by product. Higher registered rates are typically recommended under adverse conditions such as dense weed population, late weed growth stage, or poor environmental conditions.



COMMON USE RATE

1% v/v



PACKAGING

2 x 10 L jugs/case



ACTIVE INGREDIENT

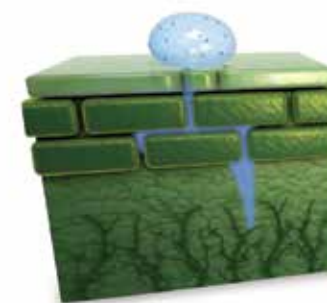
Blend of methylated soybean oil and emulsifiers



PRODUCT GROUP

Methylated seed oil

OIL ADJUVANTS HELP PESTICIDES TO PENETRATE INTO THE LEAF SURFACE



—
ADJUVANT



+
ADJUVANT
(DESTINATION MSO, JOURNEY® HSOC,
VOYAGE™ COC OR STRIKELOCK™)

HiActivate®

By WINFIELD UNITED

HiActivate® is a non-ionic surfactant registered for use with many crop protection products to optimize efficacy. Use HiActivate wherever a non-ionic surfactant is required on label.

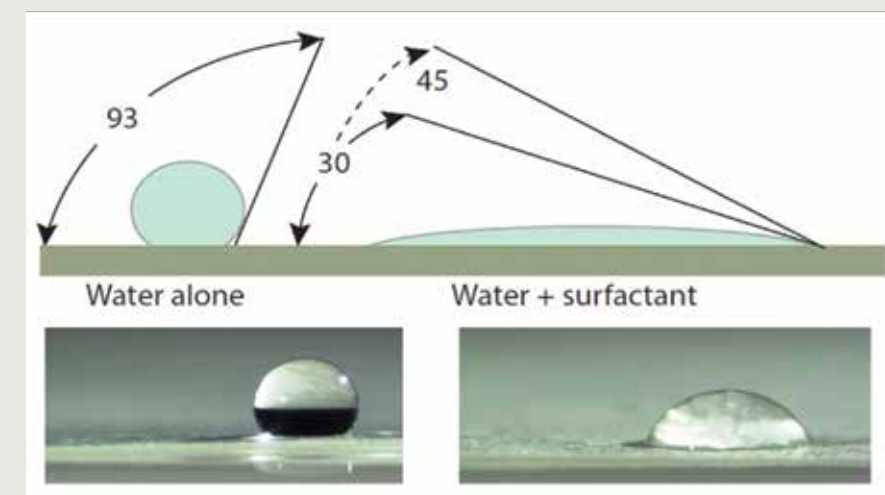
FEATURES & BENEFITS

- HiActivate improves pesticide performance by reducing surface tension, and improving wetting, spreading and dispersing characteristics of the spray solution.
- Reduced surface tension allows droplets to spread out over a larger area of leaf surface for improved coverage and uptake.
- HiActivate improves adhesion of the spray droplet to the plant's leaf surface, slows evaporation and enhances pesticide uptake for maximum absorption and efficacy.
- A non-ionic surfactant such as HiActivate is a critical addition to certain crop protection products. If an adjuvant is required, and not included in the tank mix, it may lead to product failure. Add HiActivate for maximum pesticide effectiveness.
- Our proprietary surfactant components improve mixability and humectancy, even in cold water.

Application Rates

0.1-0.25% v/v. Always consult product labels for recommended surfactant rates. Surfactant rates typically vary by product.

HI-ACTIVATE REDUCES SURFACE TENSION FOR MAXIMUM EFFICACY



COMMON USE RATE
0.1-0.25% v/v



PACKAGING
2 x 10 L jugs/case



ACTIVE INGREDIENT
90/10 Alkylaryl polyoxyethylene glycols, free fatty acids and IPA



PRODUCT GROUP
Non-ionic surfactant

Surfactants are typically added to the spray mix last.

InterLock®

By WINFIELD UNITED

InterLock®, a utility modifier adjuvant, is a drift control agent that improves spray pattern and reduces spray drift. InterLock works effectively with herbicides, fungicides, insecticides and desiccants.

FEATURES & BENEFITS

- Contains technology exclusive to WinField United and is protected by three US patents.
- Reduces fine particles in spray pattern without thickening the spray or increasing the number of large undesirable sized droplets.
- Improves spray droplet sizing and reduces drift.
- For use with both ground and aerial applications.

Application Rates

Use InterLock at 0.15% v/v for drift reduction purposes. Always add InterLock to the spray tank last. InterLock should be used in conjunction with proper application procedures including boom height, nozzle type, size and pressure.



COMMON USE RATE
0.15% v/v



APPLICATION GUIDE
Multiple crop stages

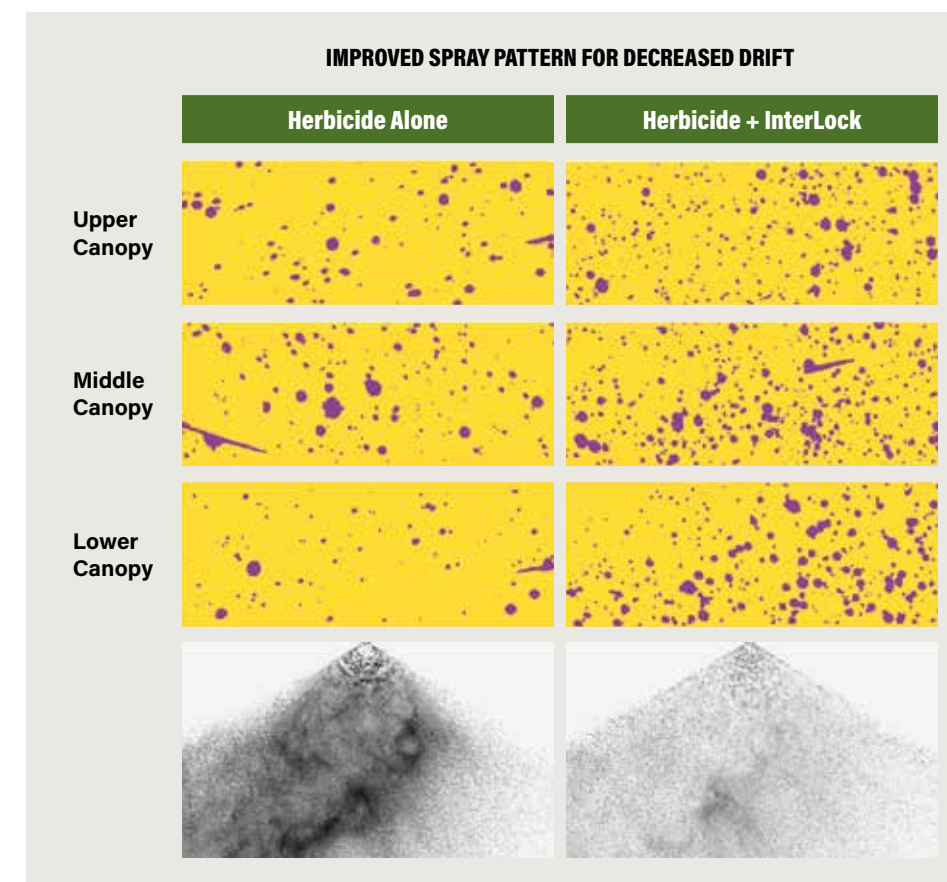


PACKAGING
2 x 10 L jugs/case
450 L tote



PRODUCT GROUP
Utility modifier
– drift control

InterLock is proven to decrease driftable fines by 50-70% across all nozzle types.



Journey® HSOC

By WINFIELD UNITED

Journey® HSOC adjuvant is a methylated seed oil (MSO) based surfactant blend that includes proprietary MAX-IN® Technology. This unique combination allows for increased pesticide uptake and effectiveness.

HSOCs (High Surfactant Oil Concentrates) are an evolution of oil adjuvant technology. Journey HSOC is an MSO based oil adjuvant, with differentiated performance when compared to a standard MSO.

Journey has three key features:

1. **MSO** to breakdown waxy surfaces to let herbicides penetrate the leaf.
2. **MAX-IN Technology** to keep droplets wetter longer, improving humectancy.
3. **MAX-IN Technology** for increased droplet coverage and spread.

FEATURES & BENEFITS

- Journey HSOC actively dissolves the waxy cuticle on weeds allowing for quicker and more complete active ingredient uptake and absorption into weeds.
- Contains MAX-IN Technology, which is proven to increase humectancy for droplet retention leading to improved uptake of herbicides for better performance and less herbicide loss to environmental factors like evaporation.
- Aggressively aids herbicide performance, especially on large weeds and under stressful, hot, dry conditions.
- Helps improve the performance of active ingredients that target grassy weeds and weeds with waxy leaf surfaces.
- Designed to be compatible with glyphosate tank mix partners requiring an oil adjuvant.
- Use Journey HSOC where MSOs are required.
- PMRA approved activator adjuvant.

Application Rates

0.5% v/v. Always consult product labels for recommended oil adjuvant rates. Adjuvant rates typically vary by product. When using spray volumes less than 10 US gal/acre do not apply Journey HSOC at less than 0.19 L/acre.



COMMON USE RATE
0.5% v/v



PACKAGING
2 x 10 L jugs/case
450 L tote



ACTIVE INGREDIENT
50% MSO, 50%
Surfactant blend



PRODUCT GROUP
Methylated seed oil

MAX-IN Technology is a key component of Journey HSOC providing improved humectancy, droplet coverage and spread.

MasterLock®

By WINFIELD UNITED

MasterLock® is a non-ionic surfactant (NIS) combining new DropTight® surfactant technology with the proven drift control of LockTech™. This all-in-one NIS, deposition aid and drift control agent is designed to maximize pesticide performance. MasterLock meets your NIS requirements and helps to reduce spray drift.

FEATURES & BENEFITS

- MasterLock adjuvant with DropTight technology helps optimize droplet adhesion, which reduces bounce and increases droplet sticking and spreading for improved contact and coverage. Delivering more active ingredient to the leaf surface.
- MasterLock improves deposition of the spray droplets onto the intended target and improves canopy penetration.
- Reduces spray drift and evaporation of pesticides.
- NPE-free formulations should not contribute to arrested ear in corn.
- PMRA registered activator adjuvant.

Application Rates

0.3-0.5% v/v. This equates to 114-190 mL/acre in 10 US gal. Always consult product labels for recommended surfactant rates. MasterLock rates include both non-ionic surfactant and drift reduction technology.



COMMON USE RATE
0.3-0.5% v/v ground
and aerial applications



PACKAGING
2 x 10 L jugs/case
450 L tote



ACTIVE INGREDIENT
100% Surfactant blend

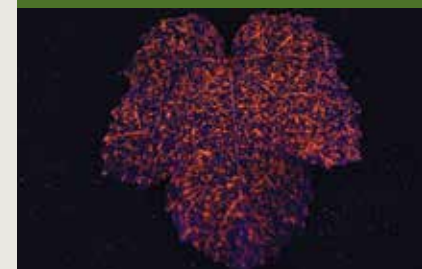


PRODUCT GROUP
Non-ionic surfactant
and deposition agent
plus drift control

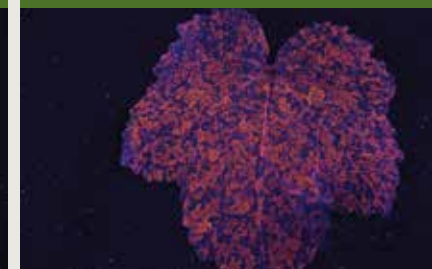
Data from WinField® United US Answer Plot® trials suggests that fungicides applied in combination with MasterLock can increase corn yield by 5.7 bu/acre, and wheat yield by 3.7 bu/acre.

IMPROVED DEPOSITION AND SPREAD

Without MasterLock = 38% Coverage



With MasterLock = 70% Coverage



1.8x increase in coverage

Without MasterLock = 38% Coverage



With MasterLock = 91% Coverage



2.4x increase in coverage

StrikeLock™

By WINFIELD UNITED

StrikeLock™ is a methylated seed oil (MSO) based high surfactant oil concentrate adjuvant (HSOC) with the proven drift control of LockTech™. This proprietary all-in-one formulation of oil adjuvant and drift control is designed to maximize pesticide performance of oil loving herbicides. StrikeLock meets your oil adjuvant requirements and helps reduce spray drift.

FEATURES & BENEFITS

- Designed for oil-loving herbicides - providing improved coverage and activity from the proprietary formulation of oil adjuvant and drift reduction technology.
- Allows greater pesticide uptake by effectively breaking down waxy leaf surfaces, improving cuticle penetration.
- Showcases improved depth of canopy deposition and coverage to support uptake of herbicides.
- Exceptional drift reduction that you've come to expect from LockTech technology.

Application Rates

0.5% v/v. This equates to 190 mL/acre in 10 US gal. Always consult product labels for recommended surfactant rates. Results may vary by product.



COMMON USE RATE
0.5% v/v



PACKAGING
2 x 10 L jugs/case
450 L tote



ACTIVE INGREDIENT
100% Surfactant blend



PRODUCT GROUP
Methylated seed oil and deposition agent plus drift control

STRIKELock HELPS ENABLE LEAF PENETRATION

FLUORESCENT DYE ALONE



Leaf surface (cuticle)

FLUORESCENT DYE WITH 0.5% V/V STRIKELock



Leaf surface (cuticle)
Epidermis
Mesophyll

WinField United, 2017

Research at University of Guelph shows exceptional control of volunteer corn with the addition of StrikeLock adjuvant to clethodim*.

*Soltani, N., Shropshire, C., and Sikkema, P.H. (2023). Control of Volunteer Glyphosate-Resistant Corn in Soybean with Clethodim Plus Adjuvants. Journal of Agricultural Science.

Voyage™ COC

By WINFIELD UNITED

Voyage™ COC contains crop oil concentrates (COC) and emulsifiers to assist in pesticide uptake and effectiveness. Voyage COC is used to help break down waxy leaf surfaces to allow for pesticide uptake.

FEATURES & BENEFITS

- Voyage COC is used to assist breakdown of waxy leaf cuticles and allow better pesticide uptake.
- Helps adhesion and adsorption of pesticides onto and into plant tissue.
- Use Voyage COC where oil adjuvants or crop oil concentrates are required by label.
- PMRA approved activator adjuvant.

Application Rates

0.8-1% v/v. Always consult product labels for recommended oil adjuvant rates. Adjuvant rates typically vary by product. Higher registered rates are typically recommended under adverse conditions such as dense weed population, late weed growth stage, or poor environmental conditions.



COMMON USE RATE
1% v/v



PACKAGING
2 x 10 L jugs/case



ACTIVE INGREDIENT
83% Paraffin base petroleum oil, 17% Surfactant blend



PRODUCT GROUP
Crop oil concentrate



**RECOMMENDED
PRODUCT:**



FEATURES: _____

PARTNERS (SEED OR CP): _____

**RECOMMENDED
PRODUCT:**



FEATURES: _____

PARTNERS (SEED OR CP): _____

NOTES: _____

**RECOMMENDED
PRODUCT:**



FEATURES: _____

PARTNERS (SEED OR CP): _____

**RECOMMENDED
PRODUCT:**



FEATURES: _____

PARTNERS (SEED OR CP): _____

NOTES: _____

HERBICIDES & FUNGICIDES

Give your crops the edge they need over weeds with WinField United Canada's extensive portfolio of herbicides. Backed by rigorous testing, reliable data and local agronomic support, we'll help you build a weed management plan for a cleaner field all season long. Plus, the additional protection of fungicide helps preserve your yields (and your bottom line).

Antler® 360 UNPACKED

By WINFIELD UNITED

ACTIVE Clethodim

Antler® 360 Unpacked provides the high-performance grass control you expect from a clethodim formulation, but with 50% more active ingredient per litre compared to a standard clethodim formulation.

Adjuvant sold separately.

FEATURES & BENEFITS

- One of the most unique clethodim formulations on the market! This new formulation offers less storage and handling through the year while maintaining the same great grassy weed control. **One case treats 320 acres.**
- Antler 360 Unpacked requires an adjuvant for maximum effectiveness.** ALWAYS tank mix with an approved oil based adjuvant such as Journey® HSOC at 0.5% v/v for suitable performance.
- Fast control of a broad spectrum of emerged annual and perennial grass weeds including wild oats, volunteer corn and volunteer cereals.



FOR USE ON

Most broadleaf crops including canola, pulse crops, soybean and more



COMMON USE RATE

80 acres/jug
320 acres/case



RECOMMENDED ADJUVANT

Journey HSOC - 0.5% v/v



PACKAGING

4 x 4 L jugs/case



ACTIVE INGREDIENT

Clethodim 360 g/L



HERBICIDE GROUP

Group 1



DROPLET SIZE

Medium - Coarse



PREHARVEST INTERVAL (PHI)

Peas, soybeans - 75 days

Sunflowers - 72 days

Canola, chickpeas, dry beans, faba beans, flax, lentils, mustard, potatoes - 60 days

Alfalfa - 30 days



WEEDS CONTROLLED

Key Weeds	Leaf Stage	Rate	Comments
Wild oats, volunteer cereals (wheat, barley, oats), green and yellow foxtail	2-4 leaf	33 mL/acre (120 acres/jug) + adjuvant	Use only in absence of stress do not tank mix with other pesticides
Volunteer corn, barnyard grass, fall panicum, witchgrass, proso millet, volunteer canary grass	2-6 leaf		
Wild oats, volunteer cereals (wheat, barley, oats), green and yellow foxtail, volunteer corn, barnyard grass, fall panicum, witchgrass, proso millet, volunteer canary grass, Persian darnel, crabgrass (smooth and large). Quackgrass (supression only)	2-6 leaf	50 mL/acre (80 acres/jug) + adjuvant	Registered for tank mix applications with glufosinate 150 at 1.35 L/acre and 1.62 L/acre
Quackgrass	2-6 leaf	100 mL/acre (40 acres/jug) + adjuvant	Rate not registered in chickpea or common bean

How does the Antler 360 Unpacked application rate compare to other clethodim based products?

Clethodim herbicides are available in different formulations and amount of active ingredient per litre. Antler 360 Unpacked has 360 grams of clethodim per litre. Antler® 240 and most other clethodim products contain 240 grams of clethodim per litre.

The table to the right displays the application rate in acres per smallest saleable unit that would apply the equivalent amount of clethodim active ingredient per acre. Note that Antler 240 is sold by the case. Antler 360 Unpacked is sold by the jug, with adjuvant sold separately.

Antler 360 Unpacked		Antler 240		Select®
mL per acre*				
33	=	50	=	50
50	=	75	=	75
100	=	150	=	150

*Use rates are generally rounded. Always read and follow label directions.

Antler 360 Unpacked		Antler 240		Select
acres per jug		acres per case		acres per case
120	=	60	=	60
80	=	40	=	40
40	=	20	=	20

*Use rates are generally rounded. Always read and follow label directions.

Clethodim can be antagonized by hard water. Test your water and add Crimson® NG water conditioner for optimum performance.

Antler® 240

By WINFIELD UNITED

ACTIVE Clethodim

Antler® 240 contains clethodim plus Journey® HSOC adjuvant all in one case for convenient post-emergent grassy weed control in a variety of crops.

FEATURES & BENEFITS

- Fast control of a broad spectrum of emerged annual and perennial grass weeds including wild oats, volunteer corn and volunteer cereals.
- Antler 240 can be tank mixed with a wide range of broadleaf tank mix options, including Liberty® and glufosinate to provide broad spectrum weed control.



FOR USE ON

Most broadleaf crops including canola, pulse crops, soybean and more



COMMON USE RATE

40 acres/case



RECOMMENDED ADJUVANT

Journey HSOC included in case



PACKAGING

3 L + 7.57 L jugs/case



ACTIVE INGREDIENT

Clethodim 240 g/L



HERBICIDE GROUP

Group 1



DROPLET SIZE

Medium - Coarse



PREHARVEST INTERVAL (PHI)

Peas, soybeans - 75 days

Sunflowers - 72 days

Canola, chickpeas, dry beans, faba beans, flax, lentils, mustard, potatoes - 60 days

Alfalfa - 30 days

RECOMMENDED PRODUCT:



FEATURES:

PARTNERS (SEED OR CP):

RECOMMENDED PRODUCT:



FEATURES:

PARTNERS (SEED OR CP):

NOTES:

Grassy weeds typically have a waxy cuticle that gets thicker as weeds mature. Using a high quality oil adjuvant like Journey HSOC will maximize your herbicide performance.

CROP PROTECTION PRODUCTS | HERBICIDES

AVAILABILITY WEST EAST

Cadillac One™

By WINFIELD UNITED

ACTIVE Clodinafop

Cadillac™ One delivers trusted crop safety while providing exceptional control of wild oats, with pre-mixed adjuvant built into the formulation.

FEATURES & BENEFITS

- Group 1 grass weed herbicide in wheat with proven crop safety and tank mix flexibility.
- Compatible with a wide range of broadleaf tank mix options for broad spectrum weed control.
- Convenient bulk packaging treats 320 acres per drum.

WEEDS CONTROLLED

Key Weeds	Leaf Stage	Rate
Wild oats	1-6 leaf prior to emergence of 4 th tiller	283 mL/acre (40 acres/jug) (320 acres/ drum)
Volunteer oats	3-6 leaf prior to emergence of 4 th tiller	
Green and yellow foxtail, barnyard grass	1-5 leaf	
Volunteer canary seed	1-6 leaf	324 mL/acre (32 acres/jug) (256 acres/ drum)
Persian dandel	1-5 leaf prior to tillering	

Application Rates

Use Cadillac One at 283 mL/acre
1 jug treats 40 acres | 1 case treats 80 acres

Adjuvant Rates

- Adjuvant included in formulation
- InterLock® for drift control

Minimum Water Volume

Rainfast

- Ground application 5 US gal/acre
- Aerial application 3 US gal/acre
- 30 minutes, rainfast is typically limited by tank mix partners

As of September 2020, the Pest Management Regulatory Agency (PMRA) requires the use of closed transfer and systems for clodinafop-propargyl products if mixing and loading more than 15 kg a.i. in one day. Direct transfer of Cadillac One from 90.6 L drums to the chemical handler and/or sprayer tank will require dry poppet connections. Equipping your spray operation with dry poppet connections from the drum to the tank meets the closed-system transfer requirement. Please refer to the current label for full product-use details.



FOR USE ON

Spring wheat and durum



CROP STAGING

Prior to the emergence of the fourth tiller



COMMON USE RATE

40 acres/jug
80 acres/case
320 acres/drum



PACKAGING

2 x 11.3 L jugs/case
90.6 L drum



ACTIVE INGREDIENT

Clodinafop 80 g/L



HERBICIDE GROUP

Group 1



DROPLET SIZE

Medium - Coarse



PREHARVEST INTERVAL (PHI)

60 days

Group 1 herbicides cause meristem damage to target weeds. The newest leaf of affected grasses can be easily pulled from the crown.

CROP PROTECTION PRODUCTS | HERBICIDES

AVAILABILITY WEST EAST

Cadillac UNPACKED™

By WINFIELD UNITED

ACTIVE Clodinafop

Cadillac™ Unpacked provides the high-performance grass control you expect from clodinafop.

Adjuvant sold separately.

FEATURES & BENEFITS

- This unique clodinafop package offers a convenient amount of active ingredient, with adjuvant selection based on water volume. No left-over adjuvant! **One case treats 160 acres.**
- **Cadillac Unpacked requires an adjuvant for maximum effectiveness.** ALWAYS tank mix with an approved oil-based adjuvant such as Journey® HSOC for suitable performance.
- Compatible with a wide range of broadleaf tank mix options for broad spectrum weed control.
- Group 1 herbicides can be antagonized by hard water. Test your water and add Crimson® NG water conditioner for optimum performance.

WEEDS CONTROLLED

Key Weeds	Leaf Stage	Rate
Wild oats	1-6 leaf prior to emergence of 4 th tiller	92 mL/acre (80 acres/jug) + adjuvant
Volunteer oats	3-6 leaf prior to emergence of 4 th tiller	
Green and yellow foxtail, barnyard grass	1-5 leaf	
Volunteer canary seed	1-6 leaf	117 mL/acre (63 acres/jug) + adjuvant
Persian dandel	1-5 leaf prior to tillering	

Application Rates

Use Cadillac Unpacked at 92 mL/acre
1 jug treats 80 acres | 1 case treats 160 acres | add Journey HSOC at 0.5% v/v

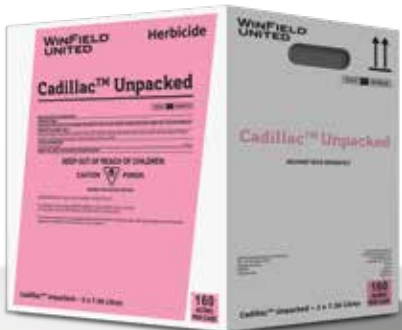
Adjuvant Rates (select one of the following)

- Journey HSOC - 0.5% v/v
- HiActivate® - 0.32% v/v
- Voyage™ COC - 1% v/v
- StrikeLock™ - 0.5% v/v

Minimum Water Volume

Rainfast

- Ground application 5 US gal/acre
- Aerial application 3 US gal/acre
- 30 minutes, rainfast is typically limited by tank mix partners



FOR USE ON

Spring wheat and durum



CROP STAGING

Prior to the emergence of the fourth tiller



COMMON USE RATE

80 acres/jug
160 acres/case



RECOMMENDED ADJUVANT

Journey HSOC - 0.5% v/v



PACKAGING

2 x 7.36 L jugs/case



ACTIVE INGREDIENT

Clodinafop 240 g/L



HERBICIDE GROUP

Group 1



DROPLET SIZE

Medium - Coarse



PREHARVEST INTERVAL (PHI)

60 days

Group 1 herbicides cause meristem damage to target weeds. The newest leaf of affected grasses can be easily pulled from the crown.

Cavalier® 333

By WINFIELD UNITED

ACTIVE Fluroxypyr

A flexible tank mix option to tackle hard to kill weeds including cleavers, Group 2+9 resistant kochia, round-leaved mallow and chickweed.

FEATURES & BENEFITS

- Cavalier® creates unique tank mix options for optimum control of local weed populations at an attractive cost.
- Highly compatible formulation for optimal tank mix flexibility giving you the weed control you require – including Group 2 resistant kochia.
- Cavalier works by binding to auxin receptors. Add Cavalier to the tank mix to aid in herbicide resistance management when mixed with additional effective sites of action.



FOR USE ON
Spring wheat, winter wheat, durum, barley and oats



COMMON USE RATE
60-80 acres/jug
120-160 acres/case



PACKAGING
2 x 10 L jugs/case



ACTIVE INGREDIENT
Fluroxypyr 333 g/L



HERBICIDE GROUP
Group 4



DROPLET SIZE
Coarse



PREHARVEST INTERVAL (PHI)
60 days

Fluroxypyr activity is influenced by weather conditions. The temperature range for optimum activity is 12°C to 24°C.

Foremost®

By WINFIELD UNITED

ACTIVE Carfentrazone

Be at the forefront of resistance management with Foremost® herbicide. This Group 14 mode of action controls resistant broadleaf weeds in a pre-seed burndown application with flexible cropping options.



FOR USE ON
Pre-seed applications



COMMON USE RATE
80-160 acres/jug
320-640 acres/case



PACKAGING
4 x 2.4 L jugs/case



ACTIVE INGREDIENT
Carfentrazone 240 g/L



HERBICIDE GROUP
Group 14



DROPLET SIZE
Medium - Coarse



PREHARVEST INTERVAL (PHI)
All crops registered for harvest aid use - 3 days
Potatoes - 7 days

Did you know Foremost is a Group 14 contact herbicide? Coverage is essential for good control. Use high water volumes and add a deposition aid to your tank.

Application Timing

For pre-seed application prior to seeding: canola, corn, soybean, pulses (including lentil and chickpea), wheat, barley, oats, rye, sunflower, potato and more.

Application Rates	Product Rate	Acres/jug
Standard burn-off or when tank mixing with an additional glyphosate add-in	15 mL/acre	160
Use when weed spectrum includes moderate pressure or larger weeds	24 mL/acre	100
Glyphosate resistant weeds (kochia, volunteer canola) Large overwintering cleavers Heavy weed pressure of large weeds	30 mL/acre	80

Adjuvant Rates

- When using Foremost alone, add an adjuvant.
- HiActivate® - 0.25% v/v
- Destination® MSO - 1% v/v
- Journey® HSOC - 0.5% v/v

Minimum Water Volume	Rainfast
• Ground application 10 US gal/acre	• 6-8 hours

Marshall[®] UNPACKED

By WINFIELD UNITED

ACTIVE Quizalofop

Marshall[®] Unpacked controls a wide range of grassy weeds including wild oats and volunteer corn in pulse and oilseed crops, with flexible adjuvant selection based on environmental conditions. **Adjuvant sold separately.**

FEATURES & BENEFITS

- This reliable Group 1 herbicide can be tank mixed with glufosinate in LibertyLink[®] canola or with Stonewall[®] 540 in Roundup Ready[®] canola and soybean.
- Marshall Unpacked requires an adjuvant for maximum effectiveness.** ALWAYS tank mix with an approved adjuvant such as Journey[®] HSOC for top performance.
- Compatible with a wide range of broadleaf tank mix options for broad spectrum weed control.



FOR USE ON

Most broadleaf crops including canola, pulse crops, soybean, flax and more



COMMON USE RATE

50 acres/jug
100 acres/case



RECOMMENDED ADJUVANT

Journey HSOC - 0.5% v/v



PACKAGING

2 x 10 L jugs/case



ACTIVE INGREDIENT

Quizalofop 96 g/L



HERBICIDE GROUP

Group 1



DROPLET SIZE

Medium - Coarse



PREHARVEST INTERVAL (PHI)

Dry bean - 30 days
Sunflower - 60 days
Canola, mustard - 64 days
Peas, lentils - 65 days
Soybean - 80 days
Flax - 82 days
Chickpeas - 85 days

Stellar[™] UNPACKED

HERBICIDE

ACTIVE Florasulam + Fluroxypyr

The stellar weed control you expect, now with the ability to choose the phenoxy and rate that fits your weed spectrum. **Phenoxy sold separately.**

FEATURES & BENEFITS

- This unique formulation is designed to be tank mixed with your phenoxy of choice.
- Stellar[™] Unpacked gives you the flexibility to choose your phenoxy and rate based on your local weed spectrum. Design your perfect tank mix. **Always tank mix with a phenoxy.**
- Add 2,4-D to Stellar Unpacked for a unique brown soil zone application.



FOR USE ON

Spring wheat, durum, barley and oat



COMMON USE RATE

20 acres/jug
40 acres/case
240 acres/drum



PACKAGING

2 x 8.1 L jugs/case
97.1 L drum



ACTIVE INGREDIENT

Florasulam 2.5 g/L
Fluroxypyr 100 g/L



HERBICIDE GROUP

Group 2 + 4



DROPLET SIZE

Coarse



PREHARVEST INTERVAL (PHI)

60 days

Application Timing

Apply to actively growing wheat, barley and oat from the 2-leaf expanded to 6-leaf stage.

WEEDS CONTROLLED

Stellar Unpacked at 405 mL/acre + Tank Mix Partner	Rate	Key weeds
2,4-D Ester 700	172 mL/acre (4 oz rate)	Cleavers, chickweed, kochia ¹ , lamb's-quarters, volunteer canola ² , volunteer flax, wild buckwheat
	215-258 mL/acre (5-6 oz rate)	Weeds listed above plus: Flixweed, redroot pigweed, shepherd's purse, stinkweed, stork's-bill, wild mustard
MCPA Ester 600	189 mL/acre (4 oz rate)	Cleavers, chickweed, kochia ¹ , lamb's-quarters, volunteer canola ² , volunteer flax, wild buckwheat
	236 mL/acre (5 oz rate)	Weeds listed above plus: Flixweed, hempnettle, redroot pigweed, shepherd's purse, smartweed, stork's-bill ³ , wild mustard

¹ Including Group 2 resistant biotypes

² Including imidazolinone tolerant volunteer canola

³ Suppression only

Application Rates

For best results use Stellar Unpacked at 405 mL/acre

1 jug treats 20 acres | 1 drum treats 240 acres

Do not apply Stellar Unpacked alone. Always tank mix Stellar Unpacked with a phenoxy. Partner with an appropriate graminicide, do not tank mix with clodinafop.

Minimum Water Volume	Rainfast
Ground application 10 US gal/acre	Rainfast is typically limited by tank mix partners

Stellar Unpacked is exclusively distributed by WinField[®] United Canada to independent ag retails. It is a proud partnership between Corteva[™] and WinField United.

Confine® Extra

By WINFIELD UNITED

Confine® Extra is a concentrated, phosphite-based fungicide that is used to suppress downy mildew and Phytophthora diseases in-crop on potatoes. For years, producers across Canada have also trusted Confine Extra to bring phenomenal protection to their stored potatoes when used as a post-harvest treatment to protect against silver scurf, late blight and pink rot.

APPLICATION INFORMATION

Depending on the crop, Confine Extra fungicide may be applied by a variety of methods, including:

- Foliar spray
- Soil drench
- Soil incorporation

In potatoes, Confine Extra fungicide may be applied post-harvest to inhibit fungal growth. Apply to Russet-skinned potatoes and processing potatoes.

APPLICATION GUIDE

Begin applications when conditions are favourable for disease and continue on a 7-14 day interval.



FOR USE ON
Potato and many other specialty crops



COMMON USE RATE
2-4 L/acre



PACKAGING
2 x 10 L jugs/case
1000 L tote



ACTIVE INGREDIENT
53% Mono- and di-potassium salts of phosphorus acid and 47% other ingredients



FUNGICIDE GROUP
Group 33



RECOMMENDED PRODUCT:



FEATURES:

PARTNERS (SEED OR CP):

RECOMMENDED PRODUCT:



FEATURES:

PARTNERS (SEED OR CP):

NOTES:

PLANT NUTRITION

Maintain the health and yield potential of your crops. Versatile and rigorously tested, our crop nutrition products are specially formulated to meet the nutritional needs of crops across a broad range of soil conditions, fertility programs and tillage practices.


Liquid Boron 10%

By WINFIELD UNITED

Liquid Boron 10% is effective as a readily available source of boron for application at seeding. The easy-to-use formulation can be mixed with many other liquid fertilizers and performs well across a broad range of soil conditions, fertility programs and application technologies.




 **COMMON USE RATE**
1-2 L/acre

 **PACKAGING**
2 x 10 L jugs/case
450 L tote

 **APPLICATION GUIDE**
Soil application
at seeding

 **ACTIVE INGREDIENT**
10% Boron

Liquid Boron 10% provides a cost-effective option for soil-applied liquid boron.

 Always read and follow label directions.

RECOMMENDED PRODUCT:



FEATURES:	PARTNERS (SEED OR CP):

NOTES:

RECOMMENDED PRODUCT:



FEATURES:	PARTNERS (SEED OR CP):

RECOMMENDED PRODUCT:



FEATURES:	PARTNERS (SEED OR CP):

NOTES:

MAX-IN®

By WINFIELD UNITED

Foliar Micronutrients with MAX-IN® Technology

MAX-IN products are foliar-applied micronutrients that supply source nutrients that are vital for plant health and growth. MAX-IN products contain MAX-IN Technology to greatly increase the movement of micronutrients through the leaf cuticle and into internal structures.

FEATURES & BENEFITS

- Contains MAX-IN Technology, designed to increase humectancy to make more of the applied nutrient available for plants.
- Can be used in a broad spectrum of crops, and is easily mixed with most other crop nutrients and crop protection products.

COMPATIBILITY





- MAX-IN micronutrients easily mix with other plant nutrients and most crop protection products, including glyphosate-based herbicides.
- When MAX-IN micronutrients are tank-mixed with glyphosate, an AMS source such as Crimson® NG should always be used.



MAX-IN® Boron

By WINFIELD UNITED

MAX-IN® Boron is an effective foliar-applied source of boron that is specially formulated to increase the movement of micronutrients through the leaf cuticle and into internal structures.





	COMMON USE RATE Most crops: 0.35-0.71 L/acre		PACKAGING 2 x 10 L jugs/case 450 L tote
	APPLICATION GUIDE Foliar Corn: V3-V9 Canola: 5 leaf-30% bloom Cereals: GS 21-GS 33 Soybean: V3-R1		ACTIVE INGREDIENT 8.0% Boron



MAX-IN® Copper

By WINFIELD UNITED

MAX-IN® Copper is an effective foliar-applied source of copper. Copper helps activate several enzyme systems. It is involved in cell wall formation and is necessary for protein synthesis. Copper deficiency causes a buildup of soluble nitrogen compounds. Copper also plays a key role in the plant immune system and plant health.





	COMMON USE RATE Most crops: 0.24-0.3* L/acre		PACKAGING 2 x 10 L jugs/case 450 L tote
	APPLICATION GUIDE Foliar Cereals: GS 21-GS 33 Corn: V3-V8		ACTIVE INGREDIENT 5.0% Copper



MAX-IN® Ultra Manganese

By WINFIELD UNITED

MAX-IN® Ultra Manganese is an effective foliar-applied source of manganese. Manganese is essential for photosynthesis in all plants and is especially important in legumes. It increases nitrogen metabolism and carbohydrate utilization. Manganese plays a key role in plant immune systems to increase resistance or tolerance to plant diseases.

	COMMON USE RATE Most crops: 1-2* L/acre		PACKAGING 2 x 10 L jugs/case 450 L tote
	APPLICATION GUIDE Foliar Soybeans: V3-V5		ACTIVE INGREDIENT 5.0% Manganese





 **RECOMMENDED ADJUVANT**
Add Crimson® NG when tank mixed with glyphosate



MAX-IN® Ultra ZMB®

By WINFIELD UNITED

MAX-IN® Ultra ZMB® combines zinc, manganese and boron into one convenient and effective foliar micronutrient product. Zinc is part of auxin, a well-known plant growth hormone, and aids in leaf growth. Manganese is essential for photosynthesis in all plants, and plays a key role in resistance of plant diseases. Boron influences cell development and is essential during reproductive stages.

	COMMON USE RATE Most crops: 1-2 L/acre		PACKAGING 2 x 10 L jugs/case 450 L tote
	APPLICATION GUIDE Foliar Corn: V3-V8 Canola: 5 leaves-30% bloom Cereals: GS 21-GS 33 Soybean: V3-R1		ACTIVE INGREDIENTS 4.0% Zinc 3.0% Manganese 0.12% Boron 3.6% Sulphur

 **RECOMMENDED ADJUVANT**
Add Crimson NG when tank mixed with glyphosate



*A second application may be needed. See label for other listed crops and rates of application.

Ultra-Che®

By WINFIELD UNITED

Soil Applied Micronutrients Protected by EDTA Chelation

The Ultra-Che® line of micronutrients are the only 100% EDTA chelated products for reduced nutrient tie-up in the soil and therefore increased nutrient efficiency and availability to plants. The chelators in Ultra-Che micronutrients provide the strongest and most reliable protection against micronutrient deactivation.

FEATURES & BENEFITS

Chelating agents in Ultra-Che micronutrients:

- Provide strong protection against immobilization of metal ion micronutrients to help keep products stable and plant-available.
- Help supply nutrients more efficiently.
- Help increase compatibility of Ultra-Che micronutrients with other products.

USES & COMPATIBILITY

Ultra-Che micronutrients can be used on a variety of crops with flexible timing, including pre-plant, starter, side-dress or fertigation. Ultra-Che micronutrients are generally compatible with pesticides and easily mix with starter or pop-up fertilizers for optimum early-season nutrition for your crops.

Ultra-Che micronutrients are specifically designed for in-furrow applications.



Ultra-Che® Copper



Ultra-Che® Manganese



Ultra-Che[®] Zinc
By WINFIELD UNITED

RECOMMENDED PRODUCT:



FEATURES: _____

PARTNERS (SEED OR CP): _____

**RECOMMENDED
PRODUCT:**



FEATURES: _____

PARTNERS (SEED OR CP): _____

NOTES:

PRODUCT LINE				
Products	Formulation	Application Guide	Rate	Packaging
Ultra-Che Copper 7.5% EDTA	7.5% Chelated Copper 7.0% Nitrogen	Pre-plant Starter Side-dress	0.5-4 L/acre	2 x 10 L jugs/case 1000 L tote
Ultra-Che Manganese 6% EDTA	6.0% Chelated Manganese 3.0% Nitrogen	Pre-plant Starter Side-dress	0.5-4 L/acre	2 x 10 L jugs/case 1000 L tote
Ultra-Che Zinc 9% EDTA	9.0% Chelated Zinc 7.0% Nitrogen	Pre-plant Starter Side-dress	1-6 L/acre	2 x 10 L jugs/case 1000 L tote

TANK OPTIMIZATION

Don't forget the little things. Antifoam and tank cleaners can make a big difference. Check out what WinField United Canada has to offer.

Fast Break®

By WINFIELD UNITED

Decrease spray-tank mixing and filling time with aggressive foam-preventing activity. A highly effective silicone emulsion. Fast Break® is an easy-to-use liquid antifoam agent that prevents excessive foaming without interaction with spray mixture active ingredients.

FEATURES & BENEFITS

APPLICATION INFORMATION

- Fast Break is formulated to prevent foaming when mixing spray solutions.
- Add Fast Break to the spray water before adding crop protection products.
- Use Fast Break at the rate of 30 mL (1 oz) per 100 US gals of solution.

Water hardness, temperature and individual spray-tank mixtures may affect the amount of Fast Break needed. Adjust use rate to achieve desired foam control.



COMMON USE RATE

30 mL (1 oz) per 100 US gals of spray solution



PACKAGING

12 x 473 mL jugs/case



ACTIVE INGREDIENTS

Dimethylpolysiloxane, methylated silicon and inert ingredients



PRODUCT GROUP

Utility modifier



Water + Pesticide



No Fast Break



Foaming Observed



Water + Fast Break + Pesticide



With Fast Break



Foaming Prevented

ProTank® Cleaner

By WINFIELD UNITED

Looking for the easy button? This commercial tank cleaner has all the benefits of an ammonia-based spray tank cleaner plus acts as a detergent. ProTank® helps remove pesticide and fertilizer residues as part of a sprayer cleaning protocol. Choose ProTank Cleaner for effective tank cleanout in most situations including unique tank mixes. Always read and follow label directions.



FEATURES & BENEFITS

- ProTank Cleaner is a pre-dissolved, non-ammonia based, sprayer tank cleaner that neutralizes acidic-type chemicals.
- Contains a proprietary blend of salts, sequestering agents, surfactants and solvents and should be used as part of a triple-rinse spray clean out protocol.
- Helps remove pesticide and fertilizer residues while cleaning pumps, valves, strainers, tanks, nozzles and hoses. ProTank Cleaner also helps reduce metal corrosion and the deterioration of rubber seals, diaphragms and hoses, helping to prolong the life of equipment.
- Always read and follow label directions for appropriate tank cleanout procedures. Products with a high risk of crop damage as a result of very low-level contamination of the spray solution, will have specific tank cleanout measures indicated.



COMMON USE RATE

1 L per 100 US gal of water



PACKAGING

12 x 1 L jugs/case



ACTIVE INGREDIENTS

Proprietary blend of phosphate and carbonate salts, sequestering agents, surfactants and solvents

Recent research shows three smaller rinses are more effective than one large volume rinse. Think 3 x 400 gallon rinses vs 1 x 1,200 gallon rinse!

Application Rates

1 jug treats 100 US gal

General Recommendations*

- Drain tank
- Rinse inside and outside of tank
- Fill tank 1/3 - 1/2 full of clean water; add ProTank Cleaner
- Agitate 15-20 minutes
- Let stand for time recommended on label
- Run solution through nozzles for minimum 5 minutes
- Triple rinse with clean water
- Spray rinsate through booms
- Clean screens, nozzles and inductor cones
- Don't let product sit in the boom
- Inspect the inside of the spray tank carefully to ensure all residue has been removed

*Always read and follow label directions.

**RECOMMENDED
PRODUCT:**



FEATURES: _____

PARTNERS (SEED OR CP): _____

NOTES: _____

RECOMMENDED PRODUCT:



FEATURES: _____

PARTNERS (SEED OR CP): _____

NOTES: _____

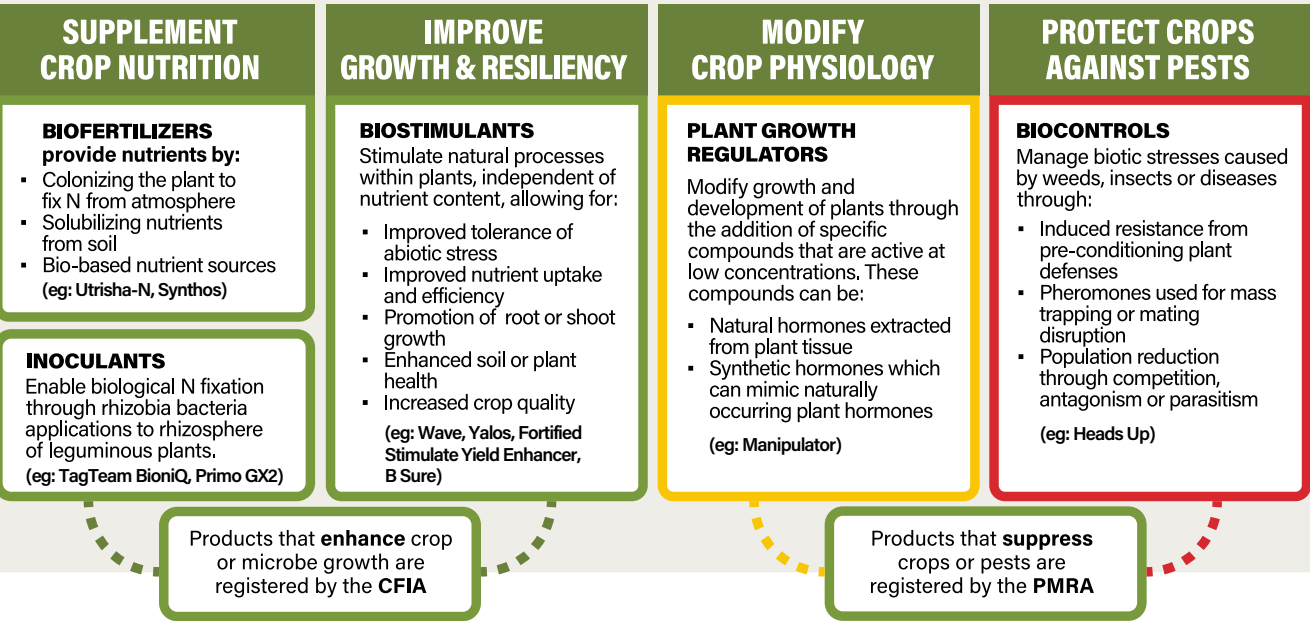
SEARCHING FOR SOLUTIONS IN A CONFUSING BIOLOGICAL SITUATION

THE BIOLOGICALS MARKET IS A CROWDED, AMBIGUOUS SPACE

With so many products and little consensus on how they work, what they do and what to call them, retailers don't know which products to trust and how to help growers make the right selection. WinField United Canada is laying the foundation with biosolutions categories, so our retailers can navigate this space with confidence. Along with our Answer Plot approach, we're working with our manufacturers and retail partners to ensure independent retailers remain industry leaders.

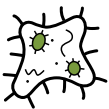


BIOSOLUTIONS



FOCUS ON THE PRODUCT SOLUTION

Many biosolution ingredients perform more than one function and may belong to multiple categories. Consider its agronomic impact and how it is registered.



NOT ALL BIOSOLUTIONS ARE BIOLOGICAL

Biological products contain living ingredients. The term is often used to broadly define any product derived from natural origin, but knowing if a bio-based ingredient is alive (biological) or dead (bioproduct) provides important insights:

- Shelf life and stability
- Ease of handling
- Tank-mix Compatibility
- Environmental Response
- Registration Requirements



FIND YOUR CROPLAN DISTRIBUTION PARTNER

Make better decisions for your operation all season long with the help of your local WinField United partner. They combine powerful data, localized insights and unprecedented experience to help you win in the field.



YOUR LOCAL WINFIELD UNITED PARTNER CAN HELP:

- Give you direct access to the latest crop protection products
- Determine the best crop protection and adjuvant combinations for your location and conditions
- Offer personalized support based on the unique challenges facing your region
- Share agronomic insights development through our state of the art research and field trials programs
- Connect you to professional development and training opportunities like Spray Clinics

FIND THE PARTNER NEAREST YOU



Use smartphone
camera to scan code

NOTES:

© 2024 WinField United Canada.

Cadillac™ One, Cadillac™ Unpacked, LockTech™, StrikeLock™ and Voyage™ COC are trademarks of WinField United. Answer Plot®, Antler® 240, Antler® 360 Unpacked, Cavalier®, Confine® Extra, Crimson® NG, CROPLAN®, Destination® MSO, DropTight®, Fast Break®, Foremost®, HiActivate®, InterLock®, Journey® HSOC, Marshall® Unpacked, MasterLock®, MAX-IN®, ProTank® Cleaner, Stonewall® 540, Ultra-Che®, WinField® and ZMB® are registered trademarks of WinField United. Stellar™ Unpacked is a trademark of Corteva™ Agriscience. All other trademarks are the property of their respective owners.

Important: Before use always read and follow label instructions. Crop performance is dependent on several factors beyond the control of WinField United, including without limitation, soil type, pest pressures, agronomic practices and weather conditions. Growers are encouraged to consider data from multiple locations, over multiple years, and be mindful of how such agronomic conditions could impact results.

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer’s Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. These products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from these products can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for these products. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of violation of federal law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with products with Roundup Ready 2 Xtend® soybeans. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED AND APPROVED FOR SUCH USES. Contact the Pest Management Regulatory Agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology.

Roundup Ready® Technology contains genes that confer tolerance to glyphosate. Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Roundup Ready 2 Xtend® soybeans contains genes that confer tolerance to glyphosate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your Bayer retailer, refer to the Bayer Technology Use Guide, or call the technical support line at 1-800-667-4944 for recommended Roundup Ready® Xtend Crop System weed control programs.

Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready®, Roundup®, SmartStax®, Trecepta®, TruFlex®, VT Double PRO® and XtendFlex® are registered trademarks of Bayer Group. Used under license. Liberty®, LibertyLink® and LibertyLink logo® are registered trademarks of BASF. Used under license. Agrisure Viptera® is a registered trademark of a Syngenta group company. Used under license. LibertyLink® and the LibertyLink® logo are registered trademarks of BASF. Used under license. Herculex® is a registered trademark of Dow AgroSciences LLC. Used under license. Bayer CropScience Inc. is a member of CropLife Canada.





winfieldunited.ca