















PRODUCT GUIDE 2022



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WHO IS WINFIELD UNITED?

At WinField United Canada, we love to get our hands dirty. Combining local understanding and world-class expertise, we provide independent ag retailers and their customers with products and services designed to fit their specific needs. We focus on delivering what Canadian operations need, and stand behind the independent local retailers that help them get there.



WE'RE MANUFACTURERS

WinField United manufactures a wide range of advanced crop protection products, as well as offering elite genetics and traits in a single seed brand.

WE'RE AGRONOMY NERDS

We love data. Our cutting-edge research facilities unearth the latest insights, while our spray and seed clinics offer hands-on education to help you farm smarter.

WE'RE DISTRIBUTORS

In addition to our own products, WinField United distributes some of the biggest brand names in agriculture, including ADAMA, Corteva, FMC, Nufarm and Syngenta.

WE'RE RETAIL PARTNERS

WinField United supports a growing network of independent local ag retailers across Canada. From distribution to marketing services, we're here to help your retail business grow.

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

ROOTED IN COMMUNITY

WinField United Canada was started with a purpose that still guides us today: work together to build strong, vibrant agricultural communities. It's been a whirlwind of change, but one that's only strengthened both our commitment to local, independent ag retailers and their customers, and the products and services we offer them.

FROM HUMBLE BEGINNINGS

Started in 2010 by a handful of independent ag retailers with a dream to grow millions more bushels, we were created to offer centralized business services and agronomy training and expertise that might otherwise be inaccessible to local businesses.

THE POWER OF PARTNERSHIP

Throughout the years, we've attracted some of the best independent ag retailers in the industry. Through those partnerships, WinField United Canada has expanded to become a leading retail-owned distribution and service company with a network that spans North America.





CROPLAN

By **WINFIELD
UNITED**

SEED DESIGNED FROM THE GROUND UP

CROPLAN® By WinField United represents the cutting edge in ag innovation. Through extensive research, testing and development, we've handpicked the industry's best genetics to bring you a broad selection of hybrids and varieties specially adapted to the unique and diverse conditions of farmers across Canada.



ALFA LFA

2022

Forage is in our DNA. Nothing's more important to milk production than quality feed. That's why we've developed the most advanced alfalfa genetics on the market today, to help you maximize performance and profit potential through increased forage utilization.



DAIRY. IT'S IN OUR DNA.



WinField United Canada is a division of Land O'Lakes Inc., a company that began as a farmer-owned dairy marketing cooperative 100 years ago. Forage isn't just something we do, it's part of who we are.

Alfalfa is one of the most important complete feeds available for milk production. Our line of high quality alfalfa genetics helps dairy farmers maximize performance with greater profit potential through increased forage utilization. Simply put, alfalfa makes milk.

INTRODUCING CROPLAN ALFALFA

Backed by dedicated facilities and a 30-member team of seed production and research professionals, our commitment to forage development has changed the game for alfalfa harvesting.

CONVENTIONAL VARIETIES WITH PROVEN BENEFITS

For more than three decades, our breeders have advanced forage quality through conventional selection. This includes traits that maximize winterhardiness, yield and digestibility with superior leaf retention and stem quality, as well as seed coatings and disease resistance packages. These conventional lines accommodate 3, 4 or 5-cut baled hay or haylage harvest, and heavy, wet problematic soils.

GENETICALLY ENHANCED HARVXTRA®

We are the leading developer of alfalfa biotechnology and marker-assisted breeding. Through gene suppression, we have been able to change both the lignin content and composition, while maintaining the high quality characteristics that matter most. HarvXtra is the most advanced alfalfa on the market today.

TRAIT SELECTION

CROPLAN alfalfa seed offers a variety of traits to fit your production needs.

HARVXTRA® ALFALFA



- The most advanced alfalfa today.
- Modifies lignin content beyond what is possible with conventional breeding.
- Maintain your current harvest schedule for improved quality or delay harvest for greater yield potential – the choice is yours.
- Includes Roundup Ready® Technology for improved weed control and excellent crop safety.
- Available in Eastern Canada only.

CONVENTIONAL ALFALFA

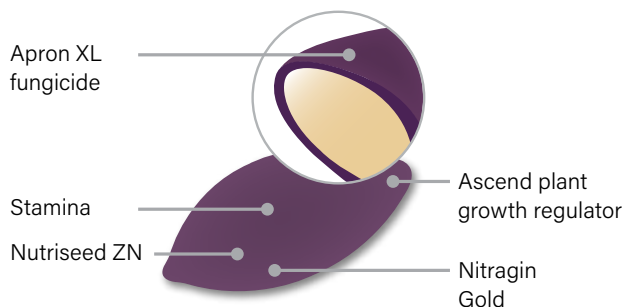


- Developed through conventional breeding – not the result of genetic engineering (non-GMO).
- Excellent alfalfa genetics for high forage quality and excellent yield potential.
- High resistance to several key insects and diseases.



USE COATED SEED

The most critical time for long-term stand productivity occurs within 30 days after seeding. CROPLAN alfalfa seed is coated to help produce strong, healthy seedlings for high yielding alfalfa stands.



Apron XL® fungicide: Helps protect seedlings from root diseases during establishment.

Stamina® fungicide: Additional protection from multiple races of aphanomyces root rot disease.

Nutriseed® ZN: Activates genes and mobilizes enzymes involved in germination.

Ascend® Plant Growth Regulator: Promotes early seedling growth.

Nitragin® Gold: Pre-inoculant that improves nitrogen fixation for maximum yield potential.

PRACTICE GOOD IN-SEASON MANAGEMENT

STAND ESTABLISHMENT

- Plant into a firm seedbed to control seed depth. Planting into a loose seedbed often allows seeds to end up at varying depths, resulting in uneven stands. Avoid surface application unless follow-up packing is performed.
- Planting rates do not need to be adjusted for coated seed. The planting rate for alfalfa varies from region to region, but generally 18 to 20 pounds per acre is recommended.
- Seed-to-soil contact is crucial. Water must leave the soil particle and enter the seed coat before the tiny seed can germinate. Press wheel drills, cultipackers or other roller-type devices help improve seed-to-soil contact and increase the number of seedlings that germinate and become established plants.

SEEDING DEPTH

Soil Type	Ideal Seeding Depth
Clay	1/4 to 1/2 in.
Loam	1/4 to 1/2 in.
Sand	1/2 to 1 in.

WEED CONTROL

To ensure good stand establishment, control weeds early and according to the label. Consider the added benefits of Roundup Ready® alfalfa, available in Eastern Canada, which provides farmers with more flexible management strategies including:

- Flexible direct seeding in the spring, summer or early fall.
- Spring seed following overwinter cover crop.
- Use glyphosate for excellent weed control and crop safety throughout stand life.

INSECT AND DISEASE MANAGEMENT

Control insects, such as aphids (spotted, blue, pea, cowpea), alfalfa weevils and leafhoppers, when agronomic thresholds have been reached. Manage foliar diseases and, when applicable, choose an alfalfa variety with built in resistance for common diseases such as aphanomyces root rot, anthracnose and fusarium wilt.

NUTRIENT MANAGEMENT

Alfalfa requires a neutral soil pH for high production. Take soil and plant tissue tests to monitor macronutrients and micronutrients.

HEALTHY ALFALFA PLANT

High response or luxury supply of potassium (K), boron (B), sulfur (S) and phosphorus (P)

- Potassium (potash or K) soil test = 300 lbs or 150 ppm
- Phosphorus (P) soil test = 50 lbs or 25 ppm

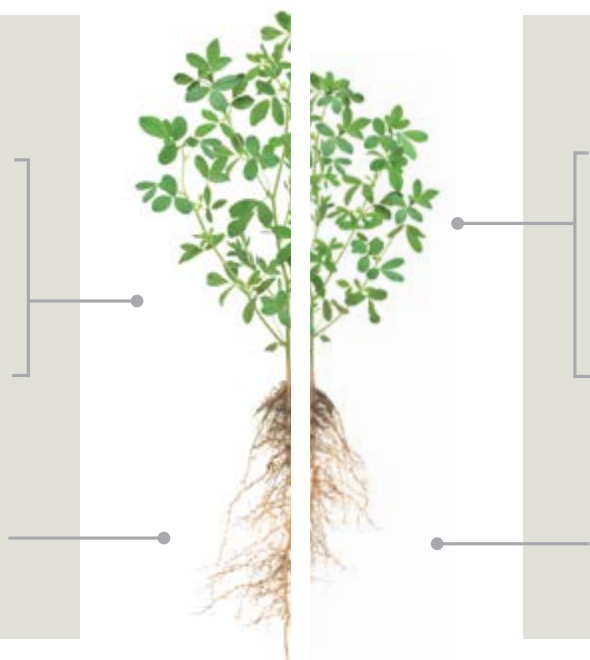
Optimum soil pH is 6.8 to 7.2

STRESSED ALFALFA PLANT

High soil pH of >7.6 can cause nutrient deficiencies, including phosphorus (P), manganese (Mn), zinc (Zn) and copper (Cu)

Low soil pH of <6.0 can result in poor growth, limit nodulation and require lime

Poorly drained, compacted soils that contain rock layers or hard pans can cause restricted root growth



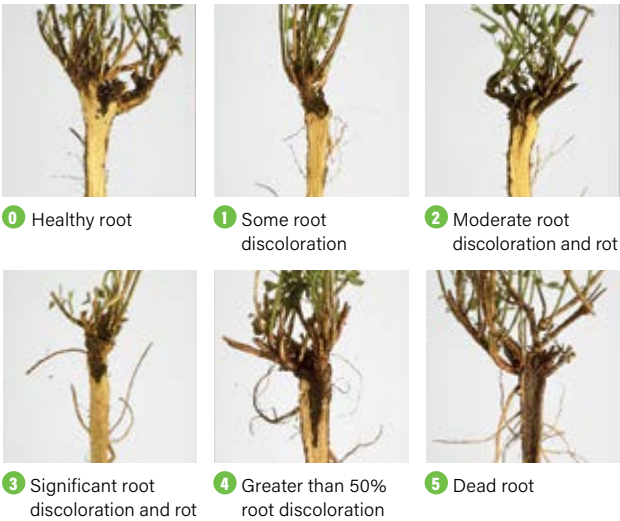
READING THE STAND

Evaluate alfalfa stem density to determine current productivity potential and root health to determine future yield potential. Dig up several plants from different field locations, cut into the taproot and visually assess the plant according to the photo chart below.

STEM DENSITY	
Stand Density (stems/sq. ft.)	Suggested Action
>55	Stem density not limiting yield
40–55	Expect some yield reduction
<39	Consider replacing stand

PLANT DENSITY	
Period	Plants/sq. ft.
Within 30 days of seeding	25–30
Fall of seeding year	15–25
1st production year	10–15
2nd production year	6–10
3rd production year	4–6

PLANT HEALTH	
Average Root Score	Suggested Action
0–2	Keep stand in production
2–3	Consider replacing stand
3–5	Rotate stand out of production



Source: Alfalfa Management Guide, p. 43. © 2000 by the American Society of Agronomy, Inc.; Crop Science Society of America, Inc.; and Soil Science Society of America, Inc.

TIPS FOR HARVEST & PROPER STORAGE

Wheel traffic and compacted soil can reduce yields. Minimize leaf loss from field to storage and minimize shrinkage from storage to feedout. Up to 28 percent of yield can be lost during the harvesting process.¹ Damage resulting from harvest traffic reduces crop regrowth and can cause yield loss.

- Leaves are typically greater than 400 Relative Forage Quality (RFQ) and stems can be less than 100 RFQ.
- Mechanically condition stems and use a wide swath.
- Use a forage inoculant for silage and a preservative acid for dry baled hay.
- Minimize ash content at harvest. Ash provides no nutritional value and can negatively impact fiber digestibility.

¹ Undersander D. Managing Equipment During Harvest to Minimize Leaf and Yield Loss. In: Proceedings of the 2017 Wisconsin Agribusiness Classic; Jan 10–12, 2017; p 53–55.



HARVXTRA ALFALFA CHANGES THE GAME.¹

HarvXtra alfalfa with Roundup Ready Technology is the first genetically enhanced alfalfa trait developed to maximize quality by reducing lignin when compared to conventional breeding.

TO BE PLANTED IN EASTERN CANADA ONLY.

HARVXTRA
with Roundup
Ready® Technology

When compared to conventional alfalfa at the same stage of maturity, HarvXtra alfalfa provides

12-20%
LESS ACID DETERGENT LIGNIN

giving you the freedom to choose between

14-18%
HIGHER NDFD BY
MAINTAINING A NORMAL
HARVEST SCHEDULE

or

20%
HIGHER YIELD
POTENTIAL WITH
DELAYED HARVEST²

¹ Data comes from FGI trials comparing HarvXtra® alfalfa with Roundup Ready® Technology 2017 FD4 commercial varieties to commercial checks. Trials were seeded in 2013 and harvested in 2014 and 2015 from Nampa, Idaho; Touchet, Wash.; Boone, Iowa; West Salem, Wis.; and Mt. Joy, Pa. Yield increase is directly correlated to the ability to delay harvest.

² Can provide more than 20 percent higher yield potential over the life of the stand with delayed harvest.

FORAGE QUALITY ADVANTAGE

- Maintain current harvest schedules to obtain higher forage quality potential.
- Provide feed that is 14 to 18 percent higher in NDFD or RFQ.
- For the dairy or livestock producer: Increased forage digestibility may support increased dry matter intake and promote more milk production or weight gain.

HARVEST FLEXIBILITY

- Increased flexibility in harvest timing to avoid weather delays and equipment breakdowns.
- Maximize the growing season and value potential of each harvest to help meet farm goals.
- Potential for increased yield with more consistent forage quality across cuttings with delayed harvest.

DELAYED HARVEST

- Reduce harvest frequency and possibly eliminate a cutting each year.
- Can provide more than 20 percent higher yield potential over the life of the stand.
- Cutting at greater than 30-day intervals is less stressful on stands and may provide additional plant health and stand persistence.

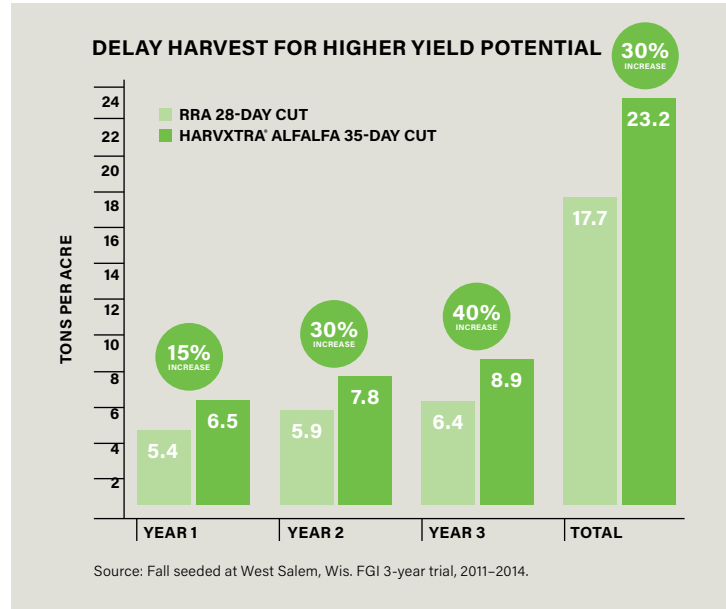
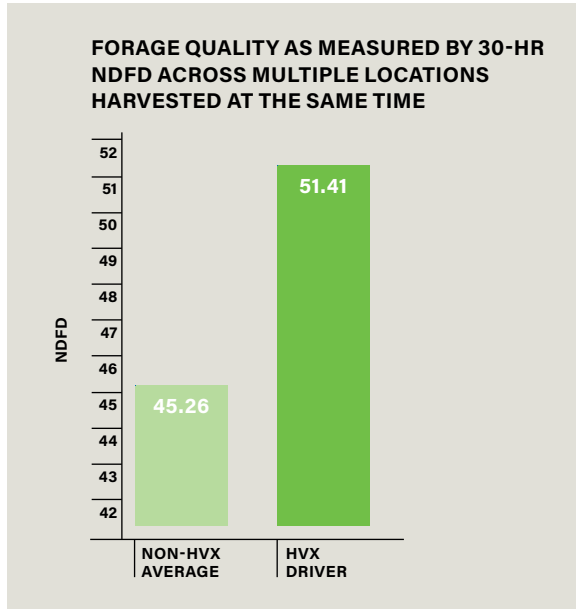
Use Limitations for HarvXtra® Alfalfa with Roundup Ready® Technology. HarvXtra® Alfalfa with Roundup Ready® Technology hay or hay products must be directed only to Canadian or U.S. domestic uses. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their product purchaser to confirm their buying position for this product. This technology may be sold and planted only in the provinces of Ontario, Quebec, New Brunswick, Nova Scotia, Prince Edward Island and Newfoundland. Please contact Forage Genetics International at 855-237-9897 or refer to the Technology Use Guide for additional information.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate.

Roundup Ready® and Roundup® are registered trademarks of Monsanto Technology LLC, Monsanto Canada, Inc., used under license by Forage Genetics International, LLC. HarvXtra® is a registered trademark of Forage Genetics International, LLC.

BENEFITS OF CROPLAN HARVXTRA ALFALFA

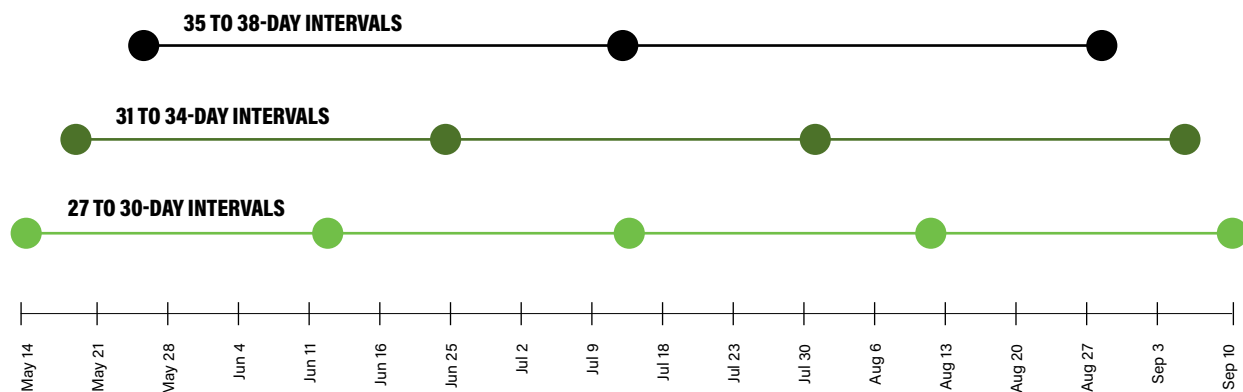
A flexible cutting window helps you meet your operational goals, leading to increased ROI potential. The option to delay harvest 7 to 10 days lets you choose between higher quality potential or higher yield potential.



HARVEST FLEXIBILITY HAS NEVER BEEN EASIER

With unpredictable weather patterns, you need the ability to alter your cutting plans quickly. HarvXtra alfalfa lets you maximize your growing season by providing the flexibility to space out cutting so that each harvest optimizes ROI and yield potential.

HARVXTRA CUTTING SCHEDULE



1. Alfalfa and Red Clover Stand Establishment Forage Management Day at Feldun-Purdue Agricultural Center, August 9, 2018. Seeding Date: May 2, 2018. Varieties: Magnum 7 for alfalfa and Durango for red clover, uncoated alfalfa seed, coated alfalfa seed, 2/3 rate uncoated, 2/3 rate coated, 4 reps with plots 2.5 by 20 feet. Counted on June 29, 2018.

2. Data from FGI trials in West Salem, Wis., 2018. 3. Data from FGI trials comparing HarvXtra® Alfalfa with Roundup Ready® Technology 2017 FD4 commercial varieties to FD4 commercial checks. Trials were seeded in 2013 and harvested in 2014, 2015 and 2016 in Boone, Iowa; Mt. Joy, Pa; Nampa, Idaho; Touchet, Wash.; and West Salem, Wis. Yield increase is directly correlated to the ability to delay harvest. 4. Data from an FGI trial in West Salem, Wis., comparing three cuttings at 35-day intervals to four cuttings at 28-day intervals, with the three-cut system yielding 26% more over the life of the stand. Trials were seeded in 2013 and harvested in 2014, 2015 and 2016. Yield increase is directly correlated to the ability to delay harvest.

FAST REGROWTH, HIGH YIELD POTENTIAL



HVX MEGATRON NEW

Fall Dormancy: 4.2
Winterhardness: 1.7

WEST EAST



Characteristics

Yield

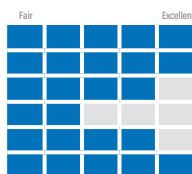
Persistence Index

Feed Quality ¹

Grazing Tolerance

Baled Hay (Drydown)

Haylage (Regrowth)



- NEW to the CROPLAN lineup, **HVX MegaTron replaces HVX Driver.**
- H2 feed quality rating; exceptional soil disease resistance to help improve root and plant health.
- Highest resistance (HR+) rating to Multi-Race Aphanomyces Root Rot disease (Races 1, 2 and EMR); resistant (R) to Multi-Race Anthracnose (including new Race 5).
- Excellent quality and yield potential with a 3 to 5-cut flexible harvest system based on geography.



FALL DORMANCY/WINTERHARDINESS

- Fall dormancy (FD) and winterhardness (WH) are important considerations for alfalfa seed selection.
- A higher FD number = higher yield potential.
- A lower WH number = more cold tolerance and stand persistence.
- Breeding and selecting for highest yield potential and persistence provides highly productive stands year after year.

HARVXTRA WITH ROUNDUP READY TECHNOLOGY

HARVXTRA WITH ROUNDUP READY TECHNOLOGY	Fall Dormancy	Winterhardness	Yield Index	Feed Quality Index	Grazing Tolerance	Baled Hay (Drydown)	Haylage (Regrowth)	Phytophthora Root Rot	Aphanomyces Race 1	Aphanomyces Race 2	Aphanomyces Enhanced Multi-Race	Bacterial Wilt	Anthracnose	Fusarium Wilt	Verticillium Wilt	Spotted Alfalfa Aphid	Pea Aphid	Salt Germination Tolerance	
					1													2	
HVX MEGATRON NEW	4.2	1.7	1	1	H2	4	2	1	HR	HR+	HR+	HR+	HR	HR+	HR	HR	-	R	G

KEY

Scale

- 1 = Excellent
2 = Above Average
3 = Average
4 = Below Average
5 = Fair

Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

Resistance Ratings

- S** = Susceptible (0–5%)
LR = Low Resistance (6–14%)
MR = Moderate Resistance (15–30%)
R = Resistance (31–51%)
HR = High Resistance (>50%)
HR+ = Highest Resistance Available on the Market (>50%)

¹ Feed Quality Index

Feed quality ratings for HarvXtra® are represented on a separate scale than Roundup Ready® and conventional alfalfa varieties and are signified with an "H." Because there is a significant improvement in forage quality, HarvXtra® alfalfa products can only be compared to other HarvXtra® alfalfa products.

² Salt Germination Tolerance

- G** = Variety tolerance for germination under high saline conditions in petri dish tests
F = Variety tolerance for forage growth under high saline conditions as a potted plant in the greenhouse

Note: Field tests are currently being used to select and validate true salt-tolerant varieties. Many soils that are high in salinity also have other problematic conditions. Therefore, germination and forage salt-tolerant ratings may not predict field performance.

HIGH-QUALITY, BALED HAY



LEGENDAIRY XHD

Fall Dormancy: 3.2
Winterhardness: 1.2



Characteristics

	Fair	Excellent
Yield	■	■
Persistence Index	■	■
Feed Quality	■	■
Grazing Tolerance	■	■
Baled Hay (Drydown)	■	■
Haylage (Regrowth)	■	■

- The Legendairy line has improved forage quality through three decades of conventional breeding selection.
- Winterhardness is second to none; great choice for northern growing regions, works well east to west.
- Excellent yield and high digestibility (XHD) with leaf retention and stem quality; ideally suited for 3 to 4-cut baled hay or haylage harvest systems.
- Great choice for producers who prefer mixed alfalfa-grass stands.
- Available in seed coating to provide additional early plant health.

UNMATCHED DISEASE RESISTANCE



REBOUND 6XT

Fall Dormancy: 4.3
Winterhardness: 1.5



Characteristics

	Fair	Excellent
Yield	■	■
Persistence Index	■	■
Feed Quality	■	■
Grazing Tolerance	■	■
Baled Hay (Drydown)	■	■
Haylage (Regrowth)	■	■

- Defensive disease resistance package; high resistance to Aphanomyces Root Rot Race 1 and 2, resistant to Race 3.
- The preferred conventional product on heavy, wet, problematic soils.
- Growth starts very early in the spring; rapid regrowth after each cutting with superior stand persistence.
- Best suited for 4 to 5-cut haylage or aggressive hay management systems.
- Available in seed coating to provide additional early plant health.



CONVENTIONAL BREEDING FOR FORAGE QUALITY

- For decades, conventional alfalfa breeding techniques have been used to select for improved forage quality. Legendairy was developed using this method.
- These varieties show an incremental improvement in forage quality compared to non-selected varieties.
- Independent of breeding efforts, fall dormancy (FD) significantly impacts forage quality.
- More dormant cultivars are higher in forage quality. For example, FD3 > FD5.
- It is important to compare forage quality between varieties of similar fall dormancy.

CONVENTIONAL ALFALFA

	Fall Dormancy	Winterhardness	Yield Index	Persistence Index	Feed Quality Index	Grazing Tolerance	Baled Hay (Drydown)	Haylage (Regrowth)	Phytophthora Root Rot	Aphanomyces Race 1	Aphanomyces Race 2	Aphanomyces Enhanced Multi-Race	Bacterial Wilt	Anthracnose	Fusarium Wilt	Verticillium Wilt	Spotted Alfalfa Aphid	Pea Aphid	Salt Germination Tolerance
LEGENDAIRY XHD	3.2	1.2	2	1	1	3	1	2	HR	HR	-	-	HR	HR	HR	HR	R	HR	G
REBOUND 6XT	4.3	1.5	1	1	2	2	1	1	HR	HR	HR	R	HR	HR	HR	HR	R	HR	-



CANOLA

2022

Superior disease protection, excellent pod integrity and optimal yield potential, adapted for your region. CROPLAN canola hybrids are hand-picked from the industry's best genetics to provide the high performance Canadian farmers demand.



YOUR CHOICE FOR SUCCESS



CROPLAN canola offers the power to choose the perfect blend of traits and genetics for your area and operation. Selecting more than one canola hybrid to plant is a strong risk management strategy. When you choose more than one hybrid with differing maturities, you decrease your exposure to environmental risk factors and reduce the potential of having all your acres ready to swath or harvest at the same time.

MANAGE DISEASE

Optimizing canola performance includes evaluating cropping system elements such as disease environment, crop rotation and other production practices. The CROPLAN canola line has been selected to offer hybrids with industry-leading clubroot protection and resistance to blackleg.

CLUBROOT

Clubroot affects plant root development, restricting the flow of water and nutrients in the plant. Above ground symptoms like stunting and wilting can be mistaken for other diseases such as sclerotinia, blackleg or verticillium, so it is critical to dig up affected plants and closely examine the root for gall formation. It is more difficult for clubroot to thrive in soils with a pH above 7.0, but the disease has been found in fields with high pH.

Taking these steps can help delay the progression of clubroot:

- Rotation is very important to keep pathogen levels low. Increase the number of years between canola crops, maintaining a minimum break of 2 years.
- Scout all canola fields for clubroot.
- Minimize soil movement.
- Use clubroot resistant hybrids like CP19R1C, CP20R3C and CP21L3C.
- Control Brassica weeds and canola volunteers that serve as hosts for clubroot within 3 weeks of emergence.
- Practice patch management strategies in infested areas.

BLACKLEG

Blackleg is a serious threat to canola production. Identifying the disease in the year of canola production won't help save that crop, but recognizing the fields with blackleg present is critical when planning for the next canola crop.

Use the following practices to help manage blackleg on your farm:

- Select hybrids that are rated resistant "R" and rotate resistance genetics.
- Rotation is very important to keep disease inoculum levels low. Increase the number of years between canola crops, maintaining a minimum break of 2 years.
- Control Brassica weeds and canola volunteers that serve as hosts for the blackleg pathogen.
- Use a fungicide seed treatment or early season fungicide application at the cotyledon to two-leaf stage to prevent yield loss due to blackleg.

UNDERSTANDING THE CROPLAN CANOLA HYBRID NAMING SYSTEM

EXAMPLE CP21L3C

CP	The brand prefix for CROPLAN.
21	The year the hybrid was first introduced. Allows you to quickly identify how long the hybrid has been in market.
L	The herbicide/trait system. (R = Roundup Ready® T = TruFlex™ Canola L = LibertyLink®)
3	Maturity rating (1 = Early 3 = Mid 5 = Long)
C	Specific agronomic characteristics the hybrid represents. The hybrid may have several agronomic traits, however this letter highlights the key attribute. (C = Clubroot Resistant P = Pod Integrity)



LIBERTYLINK® CANOLA

- High yield potential.
- Glufosinate tackles tough weeds.
- Fast-acting weed control.
- Group 10 chemistry helps manage weed resistance.

CROPLAN

CP21L3C NEW

Canola

LIBERTY LINK

Characteristics

	Fair	Excellent
Yield		
Clubroot Resistance		
Blackleg Resistance		
Standability		
Straight Cutting		

- LibertyLink canola hybrid designed for application of Justice™ glufosinate + Antler® brand herbicides.
- Excellent disease packed with R rating to blackleg and clubroot.
- Clubroot resistance to pathotypes 2F, 3H, 5I, 6M and 8N.
- Mid maturity hybrid with strong yield potential and very good lodging score.



TRUFLEX™ CANOLA WITH ROUNDUP READY® TECHNOLOGY

- Spray up to first flower.
- Manage both annual and tough-to-control perennial weeds.
- Flexible with Roundup Transorb® or Stonewall® 540 herbicide application rate.
- Better weed control and crop safety than Roundup Ready® canola.

CROPLAN CP21T3P
Canola



Characteristics	Fair	Excellent
Yield		
Clubroot Resistance	N/A	
Blackleg Resistance		
Standability		
Straight Cutting		

- Industry leading option for straight-cutting or late swathing in the glyphosate tolerant system.
- TruFlex Canola for improved control of tough weeds plus extended window of application.
- Excellent yield potential.
- Enhanced multigenic blackleg resistance.



ROUNDUP READY® CANOLA

- Stonewall 540 provides excellent weed control.
- Excellent crop safety.
- Effectiveness on grasses.
- Broad application flexibility.
- Easy management.

CROPLAN CP20R3C
Canola



Characteristics	Fair	Excellent
Yield		
Clubroot Resistance		
Blackleg Resistance		
Standability		
Straight Cutting		

- Impressive clubroot resistance from multiple genetic sources.
- Fantastic disease package including enhanced clubroot and blackleg resistance.
- Strong vigour; for tough spring conditions.
- High yielding with significant response to fertility.

CROPLAN CP19R1C
Canola



Characteristics	Fair	Excellent
Yield		
Clubroot Resistance		
Blackleg Resistance		
Standability		
Straight Cutting		

- Earliest product in the CROPLAN lineup.
- First clubroot-resistant CROPLAN hybrid.
- Early maturity; for staggered harvest dates and short season zones.



LIBERTYLINK [®] CANOLA											
Herbicide Tolerance Trait	Type	Maturity 1	Height 2	Blackleg 3	Resistance Group	Major Resistance Gene(s)	Clubroot 4	Standability	Pod Integrity	Vigour	
CP21L3C NEW	LIBERTYLINK	HYBRID	M	M-T	R	-	-	R - 2F, 3H, 5I, 5L, 6M, 8N	1	1	3

TRUFLEX™ CANOLA											
Herbicide Tolerance Trait	Type	Maturity 1	Height 2	Blackleg 3	Resistance Group	Major Resistance Gene(s)	Clubroot 4	Standability	Pod Integrity	Vigour	
CP21T3P	TRUFLEX	HYBRID	M	M	R	AG	LepR3, RlmS	S	1	2	1

ROUNDUP READY [®] CANOLA	Herbicide Tolerance Trait	Type	Maturity 1	Height 2	Blackleg 3	Resistance Group	Major Resistance Gene(s)	Clubroot 4	Standability	Pod Integrity	Vigour
CP20R3C	ROUNDUP READY	HYBRID	M-L	M-T	R	CX	Rlm3, RlmX	R - 2F, 3H, 5I, 6M, 8N, 5X, 3A, 3D	1	1	5
CP19R1C	ROUNDUP READY	HYBRID	E	S	R	C	Rlm3	R - 2F, 3H, 5I, 5L, 6M, 8N	2	3	4

KEY

Scale

1 = Excellent
2 = Above Average
3 = Average
4 = Below Average
5 = Fair

Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

1 Maturity

L = Long
M = Mid
E = Early

2 Height

T = Tall
M = Medium
S = Short








3 Blackleg

R = Resistant
MR = Moderately Resistant
MS = Moderately Susceptible
S = Susceptible

4 Clubroot

R = Resistant
I = Intermediate
S = Susceptible

FACTORS AND TIPS FOR STRAIGHT-CUTTING SUCCESS

-  **Start Strong.** Pick a variety with increased shatter tolerance and lodging resistance. For example, CP21T3P has excellent pod integrity for straight cutting.
-  **Knitted crop.** The crop should be well knitted and slightly lodged to reduce potential seed loss through pod shelling and drop. If a large proportion of the plants appear to move independently in the wind, they will be at higher risk for shatter loss as the plants senesce and drydown.
-  **Pod integrity.** If a lot of pods have been damaged by frost, drought, hail or insects, this may not be a good candidate field for straight combining. Hail will typically cause more damage to a standing crop than a swathed crop.
-  **Uniform growth stage.** A uniform crop with all plants drying down at the same rate makes straight combining easier to time.
-  **Minimal green weed growth.** Weeds may stay green longer and make straight combining much more onerous on the combine. Green material may also end up in the hopper, increasing the storage risk.
-  **Low disease.** The crop should be relatively free from blackleg, verticillium, sclerotinia stem rot, clubroot and alternaria, as these diseases can result in premature ripening, which increases shatter losses.
-  **Low frost risk.** Canola seed is at significant risk for fall frost damage until seed moisture drops below 20%. This moisture drop will take much longer in a standing crop and, as such, late maturing crops are poor candidates for straight cutting. They will be much more vulnerable to yield loss and downgrading from frost damage when standing.



ADDITIONAL CONSIDERATIONS TO REDUCE THE RISK OF STRAIGHT COMBINING

Short, severely lodged, or excessively branched canopies may be candidates for straight combining as swathing would result in small windrows with minimal stubble to anchor them in high winds. In this situation, farmers should consider the potential for wind damage to the swath relative to shattering risk if left standing.



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FLEA BEETLE & CUTWORM CONTROL MADE SIMPLE.



 **Fortenza® Advanced**

syngenta®

DAY 27 OF 106

You just can't rely on Mother Nature's cooperation.

Since you'll only get one shot at this, better go with a powerful option. Choose TruFlex™ canola with Roundup Ready® Technology for the ability to spray later weed staging at the rate you need.

TruFlex™
CANOLA with Roundup Ready®
Technology

**SUPERIOR WEED CONTROL
FOR HIGHER YIELD POTENTIAL**

traits.bayer.ca



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CORN

2022

Find the perfect fit for your field. Using the latest technology, WinField United can help determine which hybrids, nutrients and crop protection products are right for your acres. With dozens of corn hybrids to choose from, you'll get the characteristics you need to succeed.



LEAVE AVERAGE IN THE DUST



CROPLAN seed uses the latest data to recommend which hybrids to choose and where to place them to get optimal bang for your buck.

GET AN EARLY-SEASON EDGE WITH ZINC

CROPLAN is the only seed brand to offer zinc as a standard treatment on all commercial hybrids to promote early-season growth and root development. Applied on-seed, zinc naturally enhances corn seeds by improving early seedling vigour and growth. Zinc seed treatment helps promote quicker emergence — even in cool, wet conditions — to help establish strong, healthy stands.



RESPONSE TO SCORES

Get the right tools to make the best agronomic decisions for your corn crop. We use the latest technology, including satellite imagery, to help determine which nutrients and crop protection products make the most sense for your acres and hybrids.

Our Response To Score ratings provide an analytical response to variables that a farmer can influence. These ratings provide an understanding supported by data and analytics of how each hybrid responds to these key variables:



Plant Population



Continuous Cropping



Nitrogen Management



Fungicide Usage

PLANT POPULATION

RESPONSE-TO-POPULATION RANGE:
0.15 TO 20.3 BUSHELS ¹

HYBRID PERFORMANCE AT DIFFERENT POPULATIONS

Response to population (RTP) is really a response to stress. Root, stalk and ear flex are major factors. The higher the population, however, the more stress there is due to competition for nutrients, moisture, light, etc.

HYBRID POPULATION COMPARISON

Planting each hybrid at the right population is key to optimizing its performance potential. In this example, note the ear flex and decrease in root size and stalk diameter when the hybrid has a low RTP. With the higher RTP characteristics and more fixed-ear hybrids, the hybrid with a high RTP maintains root diameter at higher plant densities.

HIGH RTP SCORE

- Hybrid shows a potential yield gain with increasing populations
- Can be fixed-ear type hybrid
- Good plant integrity
- Strong pollinators, strong grain fill
- Overall good stress tolerance (nutrients and/or moisture) at high populations

MEDIUM RTP SCORE

- Hybrid is able to achieve high yields at moderately high populations
- Maintains yield at moderately low populations

LOW RTP SCORE

- Flex-ear-type hybrid with acceptable yield potential, even at low populations for a particular area
- Could be driven by low moisture or low nutrient stress tolerance at high populations
- Root and plant size decrease as population increases
- Development of smaller ears to ensure good grain fill
- May not tolerate increased stress at higher populations



LOW RTP HYBRID



24,000

30,000

36,000

42,000



HIGH RTP HYBRID



24,000

30,000

36,000

42,000

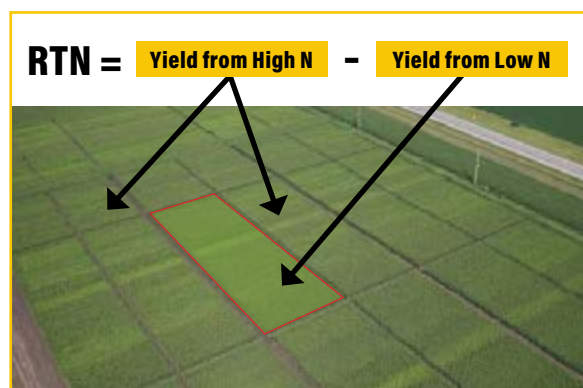


CONTINUOUS CROPPING

RESPONSE-TO-CONTINUOUS-CORN RANGE:
7.3 TO 35.1 BUSHEL¹

Hybrids have strengths and weaknesses that need to be considered when determining how they will respond under different cropping systems and on various soil types. Under tight corn rotations, consider a corn hybrid with a high response-to-continuous-corn (RTCC) rating.

- Match hybrids to your cropping system to achieve optimal yield potential.
- Good residue, insect and disease management — in addition to vigilant scouting — are all critical to sustaining an optimal corn-on-corn system.
- For good emergence, match hybrids to soil type, plant corn at uniform depths, and keep stronger-emerging hybrids on continuous-corn fields with heavy residue.



HOW TO USE RTN AND RTP

RTN and RTP scores can help you better manage individual fields and maximize productivity. Response-to scores allow us to better select the right product for your farm. Talk to your local CROPLAN retailer or WinField United Canada representative for more information.

NITROGEN MANAGEMENT

RESPONSE-TO-NITROGEN RANGE:
19.8 TO 97.7 BUSHEL¹

Be sure to consider the Response to Nitrogen (RTN) scores of the hybrids you choose. Select hybrids with high RTN scores if you are planning to apply additional or late-season nitrogen, and hybrids with moderate or low scores for limited nitrogen exposure. Perform appropriate tissue testing to determine optimal application timing for nitrogen, which may help minimize the financial and environmental costs of applying too much.

MAXIMIZE PRODUCTIVITY WITH:

HIGH RTN SCORE

- Aggressive N rates
- Placed in fields with history of manure
- In a legume rotation

MEDIUM RTN SCORE

- Respond well to high N fertility environments
- Don't require as high of N rates to remain productive
- Tend to be consistent performers in many different N environments

LOW RTN SCORE

- Tolerate stresses of less than optimal N rates better than other hybrids
- Utilize N more efficiently (early flowering, internal physiology, etc)
- Can find more N from the soil (deep penetrating or large root system)
- Add stability in continuous-corn rotations

FUNGICIDE USAGE

RESPONSE-TO-FUNGICIDE RANGE:
3.9 TO 25.3 BUSHELS¹

Fungicides are another tool to help you optimize the yield potential of your corn crop. Response to Fungicide (RTF) scores help you understand where fungicides may increase yield potential and have positive ROI potential.

HIGH RTF SCORES YIELD IMPROVEMENT

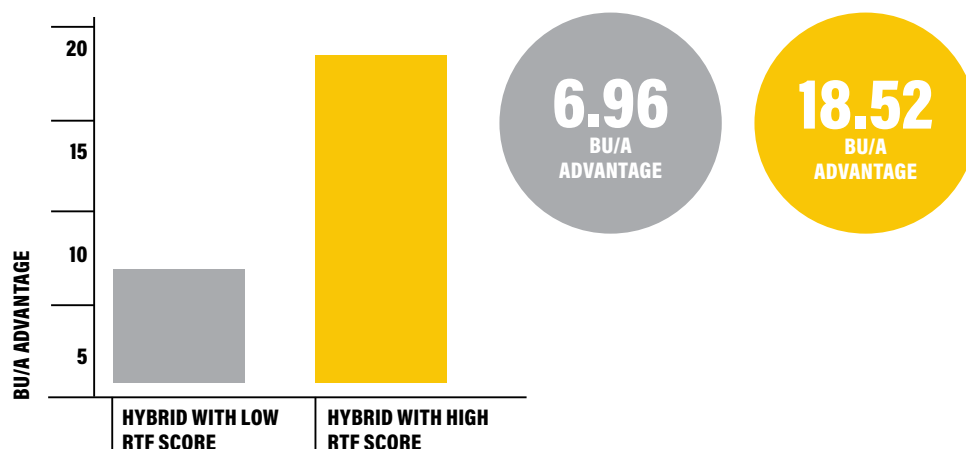
RTF scores predict the effectiveness of fungicide applications on a hybrid-by-hybrid basis.

LATE-SEASON FUNGICIDE TREATMENTS

- Under heavy disease pressure, split fungicide applications made during the V5 to V6 stage and around tasseling to R1 have been shown to be effective in preserving yield potential.
- Late-season fungicide treatments can be especially beneficial when applied to hybrids in corn-on-corn rotations.
- Thorough coverage is essential. Add InterLock® adjuvant to the tank to improve fungicide spray deposition and canopy penetration, and reduce drift.



BU/A ADVANTAGE COMPARED TO UNTREATED CHECK



RESPONSE TO FUNGICIDE

To better understand the ROI on fungicide applications, we characterize hybrids based on their response to fungicide applications in all conditions, including the absence of disease pressure. This generates valuable insights to help farmers invest their crop input dollars for optimal return.

¹ Response ranges show the importance of how hybrids respond to each management practice to help ensure the highest yield potential. 2020 Answer Plot® data from 178 locations. Due to factors outside of WinField United's control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.

PACKAGING

SIZE ¹	WEIGHT
CROPLAN Precise Plateless (CPP)	30-33.9
CROPLAN Precise Flats (CPF)	34-43.9
CROPLAN Precise Rounds (CPR)	34-47.9
CROPLAN Precise Flats 2 (CPF2)	44-62
CROPLAN Precise Rounds 2 (CPR2)	48-68

1. Kernel count is 80,000 for all seed sizes.

Please use CPF, CPR, CPF2 or CPR2 for plated planters.

- C-Box = 50 units, except CPF2 and CPR2 seed sizes where C-Box can be 40-45 units

CORN INSECT RESISTANCE MANAGEMENT OVERVIEW

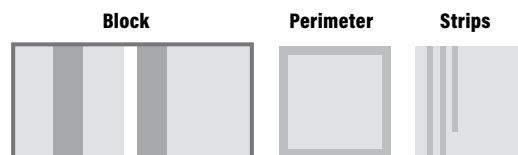
QUICK COMPLIANCE GUIDE FOR DEALERS AND FARMERS

1 REFUGE SIZE

If required, plant the correct size refuge for the area and corn product.

2 REFUGE LOCATION

Plant the required refuge within each field that contains Bt insect-protected corn. There are other options, but an in-field refuge is always accepted. The refuge should always be a minimum of four contiguous rows wide.



3 REFUGE PLANTING

In each field, plant your refuge before planting any insect-protected corn. This will ensure that the minimum refuge size requirement is met should unforeseen circumstances (e.g. adverse weather) alter your planting schedule and strategy. Use a refuge product that contains no Bt insect-protection traits (e.g. Roundup Ready® or conventional corn are acceptable). Growers must read the IRM/Grower Guide for complete refuge planting requirements.

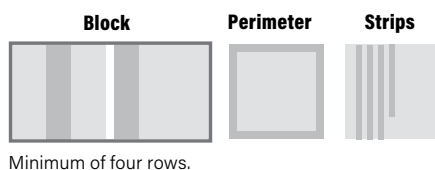
4 TREATMENT

If you need to treat your refuge with a non-Bt foliar insecticide, you may have to treat the Bt technology in a similar manner. Growers must read the IRM/Grower Guide for complete treatment options.

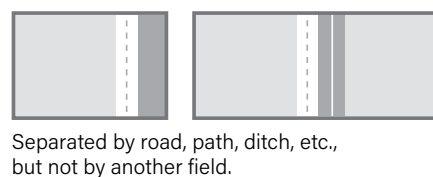
COMMON REFUGE CONFIGURATIONS

● Traited corn hybrid ● refuge

In-Field Configuration Examples



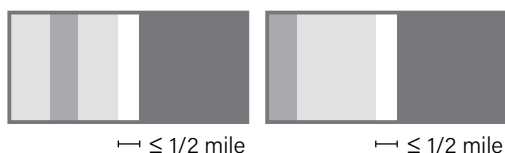
Adjacent-Field Configuration Examples



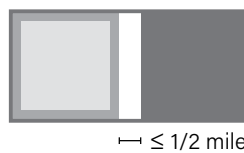
SEPARATE REFUGE CONFIGURATIONS

● Corn borer refuge ● Corn borer and corn rootworm stacked hybrid ● Corn rootworm refuge

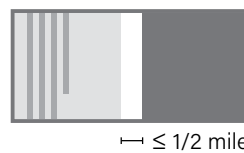
Block



Perimeter



Strips



REFUGE REQUIREMENTS FOR BIOTECH CORN PRODUCTS. ¹ ²

	% NON-BT REFUGE	CONFIGURATIONS	REFUGE LOCATION
SmartStax® RIB Complete® Corn Blend ³	5% in-the-bag ⁴	—	No separate planted refuge is required.
VT Double PRO® RIB Complete® Corn Blend	5% in-the-bag ⁴	—	No separate planted refuge is required.
Agrisure Viptera® 3111	20% corn-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Agrisure Viptera® field; if adjacent, may be separated by a road, path, ditch, etc., but not another field.
Agrisure Duracade E-Z Refuge Corn Blend	5% in-the-bag ⁴	—	No separate planted refuge is required.
Trecepta® RIB Complete® Corn Blend	5% in-the-bag ⁴	—	No separate planted refuge is required.

¹ Provided as a summary only. Farmers must read the IRM/Grower Guide prior to planting for important information on planting and insect resistance management.

² Traited = Bt, RWwor Bt/RW

¹ All refuge configurations require a minimum of four rows.

² Provided as a summary only. Farmers must read the IRM/Grower Guide prior to planting.

³ SmartStax® RIB Complete® corn is a blend of 95% traited seed and 5% refuge seed, interspersed within the bag.

⁴ Does not require a separate structured refuge in corn-growing areas.



Before opening a bag of seed, be sure to read and understand the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed set forth in the technology agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with those stewardship requirements.

it's time for
clean ears



Trecepta® combines the power of three different modes of action for broad-spectrum control of above-ground feeding pests, including Western Bean Cutworm. That means more grain in the bin and more money in the bank.*

Trecepta®
RIB COMPLETE® CORN










*Where Western Bean Cutworms were present, tested corn hybrids containing the Trecepta trait had higher yields and quality than tested corn hybrids not containing the Trecepta trait. Source: Market Development Trials (2017-2018) n=11.

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CROPLAN TRAIT LETTERING FOR CORN HYBRIDS

Descriptive hybrid numbering and trait lettering systems are used for CROPLAN corn hybrids.

HYBRID	KEY	TRAIT
 Roundup Ready® Corn 2; RR2	RR	Roundup Ready® Corn 2
 VT Double PRO® RIB Complete® Corn Blend	VT2P/RIB	5% RIB, YieldGard VT PRO® Corn Borer Protection, Roundup Ready® 2 Technology
 SmartStax® RIB Complete® Corn Blend	SS/RIB	5% RIB, YieldGard VT Rootworm, Herculex® RW, YieldGard VT PRO® Corn Borer and Herculex® Protection, Roundup Ready® 2 Technology and LibertyLink®
 Trecepta® RIB Complete® Corn Blend	TRE/RIB	Trecepta® Technology contains Cry1A.105, Cry2Ab2 and Vip3Aa20 from B.t., Roundup Ready® 2 Technology
 Agrisure Viptera® 3111 LIBERTY LINK®	AS3111	Agrisure® Corn Borer, Rootworm and Broad Lepidopteran Protection, Glyphosate Tolerant and LibertyLink®
 Agrisure® GT	GT	Agrisure® Glyphosate Tolerant
 Agrisure Duracade® 5122 E-Z Refuge®	ASD	Agrisure Duracade® Corn Rootworm, Glyphosate Tolerant, E-Z Refuge® and Herculex® I Insect Protection






By WINFIELD UNITED

Find your match

Meet hybrids in your area

Don't sow just any seed.

Get maximum compatibility with CROPLAN® by WinField United. With dozens of hybrids to choose from, it's a relationship that will flourish all season long.



match.corn



YOUR FIELD. YOUR CHOICE.



Our advanced trait technologies mean we have a corn trait solution for your farm.

Choose SmartStax® RIB Complete® corn for acres with below- and above-ground insect pressure, and VT Double PRO® RIB Complete® corn for acres with above-ground pressure. **Our corn traits deliver:**

SmartStax®
RIB COMPLETE

VT Double PRO®
RIB COMPLETE

REFUGE COMPLIANCE	100%	100%
ABOVE-GROUND PROTECTION	✓ broadest spectrum	✓
BELOW-GROUND PROTECTION	✓ broadest spectrum	
REFUGE	5% in the bag	5% in the bag
HERBICIDE TOLERANCE	Roundup Ready® 2 Technology + LibertyLink®	Roundup Ready® 2 Technology

Learn more at Traits.bayer.ca



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IMPROVE YOUR EARLY SEASON INSECT CONTROL AND GUARD AGAINST KEY SEED AND SOIL-BORNE DISEASES.

For corn growers who want to improve their insect control spectrum, Fortenza® seed treatment provides critical early season control of European chafer, wireworm and cutworm. Combined with Maxim® Quattro fungicide seed treatment, growers get added control of seed and soil-borne pathogens, such as Pythium, Rhizoctonia and Fusarium.

INSECTS CONTROLLED DISEASES CONTROLLED

- | | |
|--|---|
| <ul style="list-style-type: none"> • European chafer • Wireworm • Cutworm | <ul style="list-style-type: none"> • Pythium • Rhizoctonia • Fusarium (including seedling disease due to <i>F. graminearum</i> and <i>F. verticillioides</i>) • Weakly pathogenic fungi such as <i>Aspergillus</i> and <i>Penicillium</i> |
|--|---|

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 **Fortenza® Maxim® Quattro**

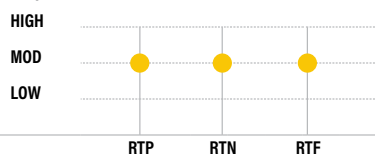
syngenta®

CROPLAN **CP1440VT2P/RIB***
74 Day
2100 CHU

WEST EAST

VTDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	●	●
Drought Tolerance	●	●
Root Strength	●	●
Staygreen	●	●
Stalk Quality	●	●
Drydown	●	●
Test Weight	●	●

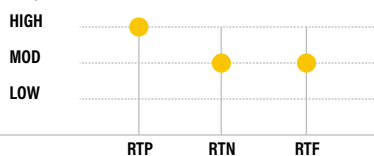
- Very competitive on the early side of 75 RM.
- Strong roots and very good test weight.
- Good drydown and harvest appearance.
- Very good emergence and seedling vigour.

CROPLAN **CP2123VT2P/RIB***
79 Day
2300 CHU

WEST EAST

VTDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	●	●
Drought Tolerance	●	●
Root Strength	●	●
Staygreen	●	●
Stalk Quality	●	●
Drydown	●	●
Test Weight	●	●

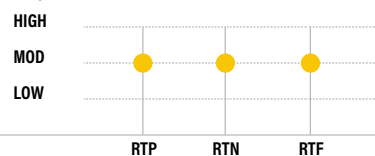
- Consistent yield potential and quick out of the ground.
- Very early flowering product with fast drydown.
- Mostly fixed, girthy ear with good tip fill.
- Excellent moisture stress tolerance in cool environments.

CROPLAN **CP2180VT2P/RIB***
81 Day
2375 CHU

WEST EAST

VTDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	●	●
Drought Tolerance	●	●
Root Strength	●	●
Staygreen	●	●
Stalk Quality	●	●
Drydown	●	●
Test Weight	●	●

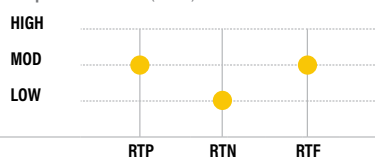
- Position in average to high yield potential acres.
- Solid agronomics with strong defensive characteristics.
- Yield stability at moderate populations.
- Flowers early for RM, keep in relative maturity zone.

CROPLAN **CP2112ASD/EZ**
81 Day
2425 CHU

WEST EAST

AgrisureDuracade
5122 E-Z Refuge

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	●	●
Drought Tolerance	●	●
Root Strength	●	●
Staygreen	●	●
Stalk Quality	●	●
Drydown	●	●
Test Weight	●	●

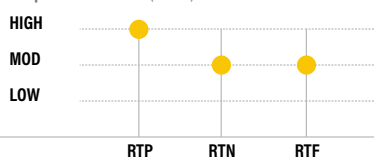
- High yield with good roots.
- Early flowering and black layer.
- Attractive early hybrid with ear flex.
- Agrisure Duracade 5122 trait with E-Z Refuge for better root protection.

CROPLAN **CP2288VT2P/RIB***
82 Day
2450 CHU

WEST EAST

VTDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	●	●
Drought Tolerance	●	●
Root Strength	●	●
Staygreen	●	●
Stalk Quality	●	●
Drydown	●	●
Test Weight	●	●

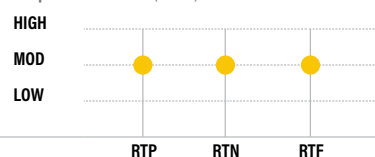
- Excellent yield and stability across all environments and strong stress tolerance.
- Excellent root strength with strong stalks and Goss's Wilt tolerance.
- High response to enhanced nitrogen management.
- Keep in relative maturity zone.

CROPLAN **CP2315VT2P/RIB***
83 Day
2500 CHU

WEST EAST

VTDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	●	●
Drought Tolerance	●	●
Root Strength	●	●
Staygreen	●	●
Stalk Quality	●	●
Drydown	●	●
Test Weight	●	●

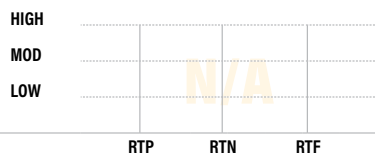
- Attractive yield potential with girthy semi-flex ear.
- Solid agronomics with strong defensive characteristics.
- Manage with populations and fungicide application.
- Flowers early for RM, keep in zone.

CROPLAN **CP255VT2P/RIB***
83 Day
2600 CHU

WEST EAST

VtDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Staygreen	Yellow	Yellow
Stalk Quality	Yellow	Yellow
Drydown	Yellow	Yellow
Test Weight	Yellow	Yellow

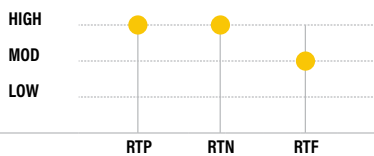
- Medium statured plant with nice fall appearance.
- Early flowering and excellent test weight.
- Strong roots and stalks.
- Rapid drydown for early harvest.

CROPLAN **CP258VT2P/RIB***
85 Day
2625 CHU

WEST EAST

VtDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Staygreen	Yellow	Yellow
Stalk Quality	Yellow	Yellow
Drydown	Yellow	Yellow
Test Weight	Yellow	Yellow

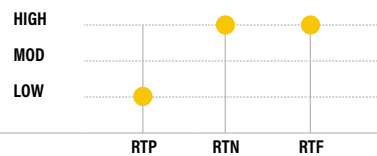
- Great product for multiple soil types.
- Above average staygreen and average stalk integrity.
- Open husk for quick drydown.
- Good disease tolerance.

CROPLAN **CP2790VT2P/RIB***
87 Day
2650 CHU

WEST EAST

VtDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Staygreen	Yellow	Yellow
Stalk Quality	Yellow	Yellow
Drydown	Yellow	Yellow
Test Weight	Yellow	Yellow

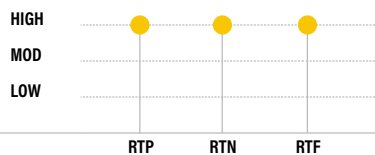
- Top yielding product with strong ear flex and drought tolerance.
- Excellent seedling vigour for early planting.
- Strong ear flex and high RTN; fit for a broad range of growing conditions.
- Manage for late season stalks and Goss's Wilt.

CROPLAN **CP2845VT2P/RIB***
88 Day
2675 CHU

WEST EAST

VtDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Staygreen	Yellow	Yellow
Stalk Quality	Yellow	Yellow
Drydown	Yellow	Yellow
Test Weight	Yellow	Yellow

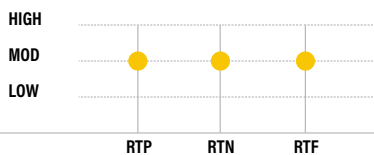
- High yield potential product across all soil types and environments.
- Excellent heat stress tolerance and great tolerance to cool or short growing seasons.
- Flowers early with fast drydown.
- Optimum performance with higher management.

CROPLAN **CP2851VT2P/RIB***
88 Day
2675 CHU

WEST EAST

VtDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Staygreen	Yellow	Yellow
Stalk Quality	Yellow	Yellow
Drydown	Yellow	Yellow
Test Weight	Yellow	Yellow

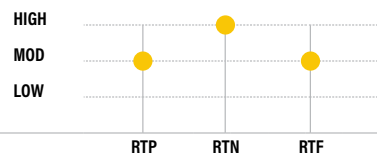
- Racehorse type hybrid with flared husk aids drydown.
- Solid stalks, roots, and emergence.
- Semi-determinate ear; keep plant densities moderate to high.
- Keep on rotated acres.

CROPLAN **CP2965VT2P/RIB***
89 Day
2700 CHU

WEST EAST

VtDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Staygreen	Yellow	Yellow
Stalk Quality	Yellow	Yellow
Drydown	Yellow	Yellow
Test Weight	Yellow	Yellow

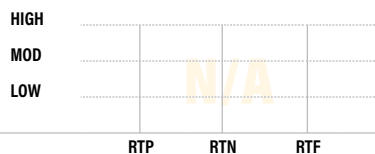
- Yield leader in 85-90 RM in 2018 Answer Plot trials.
- Excellent early vigour for early planting.
- Moderate RTP and high RTN will drive yield on average to productive soils.
- Acceptable Goss's Wilt tolerance.

CROPLAN **CF340CONV**
86 Day
2725 CHU

WEST EAST

CONVENTIONAL

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

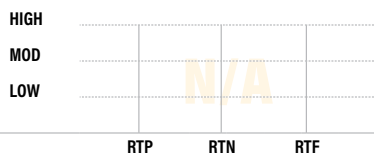
- Widely adapted across all environments.
- Outstanding yield and with solid agronomics.
- Strong roots and stalks.
- Above average drought tolerance.

CROPLAN **CF398VT2P/RIB***
89 Day
2725 CHU

WEST EAST

VTDoublePRO[®]

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

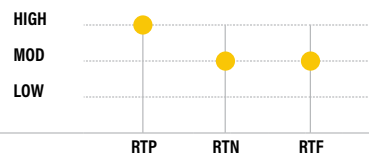
- Good stalks and roots.
- Excellent spring vigour.
- Excellent test weight with good drydown.
- Widely adapted to different environments.

CROPLAN **CP3166VT2P/RIB*** **NEW**
91 Day
2725 CHU

WEST EAST

VTDoublePRO[®]

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

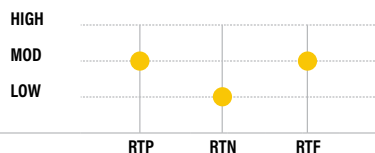
- Well adapted for planting across yield environments and soil types.
- Strong early vigour and very good stress tolerance.
- Good ear flex at low populations and maintains ear size at high populations.
- Acceptable Goss's wilt tolerance.

CROPLAN **CP3314VT2P/RIB***
93 Day
2750 CHU

WEST EAST

VTDoublePRO[®]

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

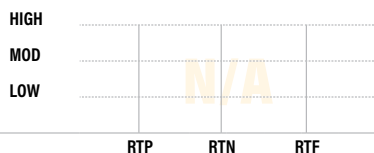
- Above average stalks and roots.
- Above average seedling vigour.
- Workhorse hybrid for low yielding environments.
- Great ear flex for variable populations.

CROPLAN **CF430CONV**
93 Day
2825 CHU

WEST EAST

CONVENTIONAL

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

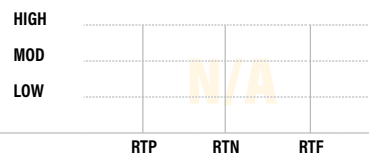
- Above average drought tolerance.
- Outstanding yield and with solid agronomics.
- Superior stalks and roots.
- Tall statured plant with attractive look.

CROPLAN **CF453VT2P/RIB***
93 Day
2825 CHU

WEST EAST

VTDoublePRO[®]

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

- Great agronomic package.
- High yield potential with good test weight.
- Strong drought tolerance and performs under stress.
- Excellent late fall intactness.

CROPLAN **CP3399SS/RIB***
94 Day
VT2P: 2775 CHU
SS: 2800 CHU

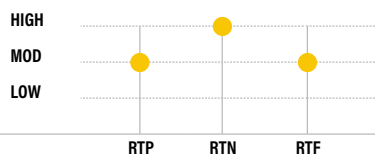
WEST EAST



VTDoublePRO
RIB COMPLETE

SmartStax
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

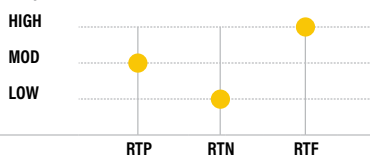
- Excellent emergence and seedling vigour.
- Medium-stature hybrid that has above average staygreen and intactness.
- Slender ear with good flex in length.
- Good choice for corn-on-corn.

CROPLAN **CP3490VT2P/RIB*** **NEW**
94 Day
2800 CHU

WEST EAST

VTDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

- High-yield potential hybrid with versatility.
- Strong drought tolerance allows placement on drier acres.
- Excellent emergence allows for early-plant option.
- Acceptable drydown.

CROPLAN **CP3575SS/RIB***
95 Day
CONV: 2800 CHU
VT2P: 2825 CHU
SS: 2850 CHU

WEST EAST

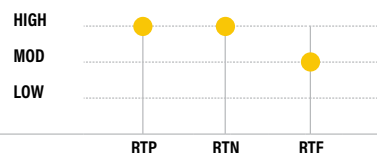


CONVENTIONAL

VTDoublePRO
RIB COMPLETE

SmartStax
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

- Excels in moderate to high yield environments and moves across all soil types.
- Strong stalk quality and root strength.
- Has good ear flex for low plant densities, but will respond to higher management.
- Excellent test weight, medium flower date.

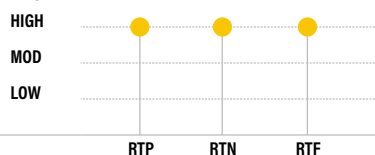
CROPLAN **CP3899VT2P/RIB***
96 Day
2875 CHU

WEST EAST



VTDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

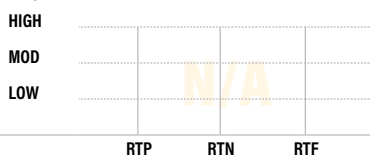
- Excellent emergence and seedling vigour.
- Data Proven hybrid; great dual-purpose option.
- Above average drought tolerance.
- Consistent performance across multiple yield environments.

CROPLAN **CF458SS/RIB***
96 Day
2875 CHU

WEST EAST

SmartStax
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

- Very strong yield potential.
- Excellent test weight and staygreen.
- Very good fall intactness and appearance.
- Consistent performance across multiple yield environments.

CROPLAN **CP3735SS/RIB***
97 Day
VT2P: 2900 CHU
SS: 2925 CHU

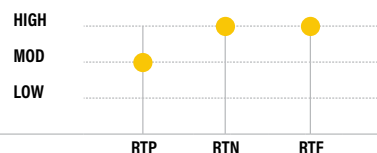
WEST EAST



VTDoublePRO
RIB COMPLETE

SmartStax
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

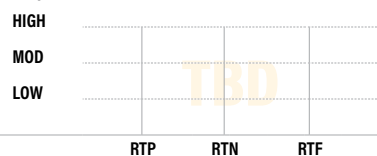
	Fair	Excellent
Seedling Vigour	4	1
Drought Tolerance	4	1
Root Strength	4	1
Staygreen	4	1
Stalk Quality	4	1
Drydown	4	1
Test Weight	4	1

- Excellent test weight and emergence with solid defensive traits.
- Versatile hybrid for all yield environments.
- Plant at moderate to high densities; fungicide application is recommended.
- Keep in relative maturity zone.

CROPLAN **CP3720TRE/RIB*** **NEW**
97 Day
2900 CHU WEST EAST

Trecepta
RIB COMPLETE CORN

Response To Scores (bu/ac)



Characteristics

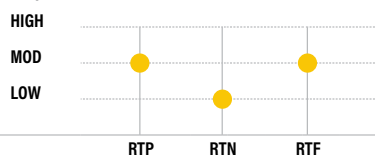
	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Staygreen	■	■
Stalk Quality	■	■
Drydown	■	■
Test Weight	■	■

- Early flower with good drydown.
- Semi-flex ear that allows lower densities; but responds when pushed in populations.
- Good stalks and roots.
- Trecepta gene for better western bean cutworm control.

CROPLAN **CP3980VT2P/RIB*** **NEW**
99 Day
2950 CHU WEST EAST

VtDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

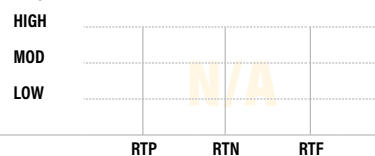
	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Staygreen	■	■
Stalk Quality	■	■
Drydown	■	■
Test Weight	■	■

- High-yield potential hybrid that works across many acres.
- Moderate management allows for versatile placement.
- Acceptable stalks; can benefit from a fungicide application.
- Use caution when applying growth regulator chemistries.

CROPLAN **CF598SS/RIB***
100 Day
3025 CHU WEST EAST

SmartStax
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

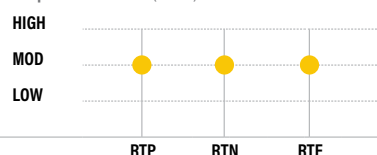
	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Staygreen	■	■
Stalk Quality	■	■
Drydown	■	■
Test Weight	■	■

- Very good spring vigour.
- Strong yield across all environments.
- Excellent stalks and roots.
- Above and below insect protection with SmartStax trait.

CROPLAN **CP4188SS/RIB***
101 Day
CONV: 2950 CHU
VT2P: 3000 CHU
SS: 3025 CHU WEST EAST

CONVENTIONAL **VtDoublePRO** **SmartStax**

Response To Scores (bu/ac)



Characteristics

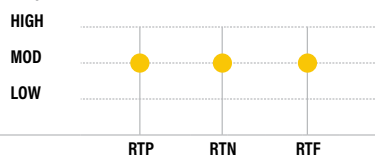
	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Staygreen	■	■
Stalk Quality	■	■
Drydown	■	■
Test Weight	■	■

- Attractive plant type with solid agronomic package.
- Semi-flex ear that allows lower densities; but responds when pushed in populations.
- Handles tough, variable, and ideal yield environments.

CROPLAN **CP4265VT2P/RIB***
102 Day
3050 CHU WEST EAST

VtDoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

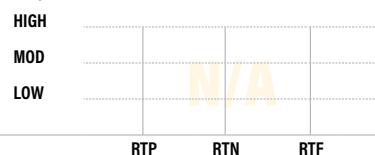
	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Staygreen	■	■
Stalk Quality	■	■
Drydown	■	■
Test Weight	■	■

- Strong emergence and excellent early plant vigour for reduced tillage systems.
- Excellent roots with solid stalks.
- More fixed ear; keep at moderate to high populations.
- Position in average to productive acres; dual purpose potential.

CROPLAN **CF674SS/RIB***
104 Day
3125 CHU WEST EAST

SmartStax
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Staygreen	■	■
Stalk Quality	■	■
Drydown	■	■
Test Weight	■	■

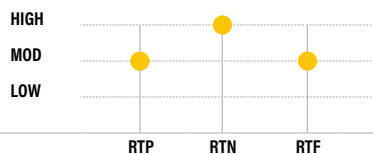
- Outstanding top end yield.
- Impressive disease tolerance.
- Semi-determinate ear; keep plant densities moderate to high.
- Excellent test weight with good drydown.

CROPLAN **CP4676SS/RIB***
106 Day
3175 CHU

WEST EAST

SmartStax
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Staygreen	Yellow	Yellow
Stalk Quality	Yellow	Yellow
Drydown	Yellow	Yellow
Test Weight	Yellow	Yellow

- Versatile hybrid, position and manage for high yield.
- Medium height hybrid with excellent emergence, seedling vigour, and test weight.
- Position at medium populations and manage nitrogen for high yield potential.
- Fungicide application recommended in GLS prone areas.

CROPLAN **CP4791AS3111**
107 Day
3200 CHU

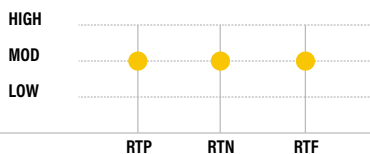
WEST EAST

AgriSure
Viptera

AgriSure
Viptera

AgriSure
GT

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Staygreen	Yellow	Yellow
Stalk Quality	Yellow	Yellow
Drydown	Yellow	Yellow
Test Weight	Yellow	Yellow

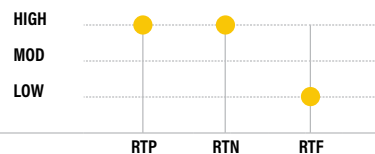
- Medium-tall plant with outstanding late-season intactness; strong ear flex in girth.
- Structured refuge needed.
- Above average Goss's Wilt tolerance with moderate response to fungicide.
- Above average roots and stalks; outstanding dual-purpose option.

CROPLAN **CP4997VT2P/RIB***
109 Day
3300 CHU

WEST EAST

VT DoublePRO
RIB COMPLETE

Response To Scores (bu/ac)



Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Staygreen	Yellow	Yellow
Stalk Quality	Yellow	Yellow
Drydown	Yellow	Yellow
Test Weight	Yellow	Yellow

- Best kept in 110 RM zone.
- Tall hybrid with above average stalks, roots and staygreen.
- Broadly adapted to multiple soil types and yield environments.
- Manage nitrogen and population.

KEY

Hybrids Best Location

WEST = Western Hybrid
EAST = Eastern Hybrid

Response to Score

RTP = Response to Population
RTN = Response to Nitrogen
RTF = Response to Fungicide

Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

*For refuge in a bag (RIB) follow IRM guidelines and refuge configurations outlined on Page 32 to preserve the benefits and Insect Protection of these technology crops.

INTEGO
SOLO FUNGICIDE

Seeding into cool wet conditions?



Secure protection from Pythium with Intego seed treatment available on CROPLAN corn.

The first new chemistry to fight Phytophthora and Pythium in 35 years.

CROPLAN
by WINFIELD UNITED

ADVERTISEMENT



BRAND

BRAND																									
W	CP1440VT2P/RIB*	74	2100	M	M	L	M	M	M	RED	FX	M-E	16-18	2	2	1	2	1	2	2	3	2	N/A	2	3
W	CP1756VT2P/RIB*	77	2150	M	M	H	M	M	M-L	RED	FX	E	12-14	2	3	3	2	3	3	2	N/A	3	3	3	3
W	CP2123VT2P/RIB*	79	2300	H	M	H	M	M-T	M-L	RED	FL	E	14-18	1	1	1	3	1	3	2	N/A	3	3	4	4
W	CP2180VT2P/RIB*	81	2375	M	M	M	M	M	M	RED	SF	M-E	18-20	2	2	2	3	2	3	3	N/A	2	N/A	3	3
W	CP2112ASD/EZ	81	2425	M	L	L	M	M	M	PINK	SF	E	16-18	2	2	2	1	2	1	2	N/A	2	N/A	2	N/A
W	CP2288VT2P/RIB*	82	2450	H	M	M	M	M	M	RED	SF	M	16-18	2	2	1	2	2	2	1	N/A	2	N/A	2	3
W	CP2315VT2P/RIB*	83	2500	M	M	M	M	M-T	M	RED	SF	E	18-20	2	3	2	3	2	2	3	3	2	3	4	
W	CP2417VT2P/RIB*	85	2550	M	M	M	H	M-T	M	RED	SF	M	18-20	3	2	2	3	1	3	2	3	3	3	5	3
	CF255VT2P/RIB*	83	2600	-	-	-	-	M-S	M	RED	SF	E	16-18	2	2	2	3	1	2	2	2	2	N/A	N/A	3
W	CP2587VT2P/RIB*	85	2625	H	H	H	M	M-T	M	RED	SF	M	16-18	3	3	2	2	2	3	2	4	3	3	3	3
W	CP2790VT2P/RIB*	87	2650	L	H	M	H	M	M	RED	SF	E	16-18	1	3	2	3	2	1	2	3	2	N/A	4	3
W	CP2845VT2P/RIB*	88	2675	H	H	L	H	M-T	M	RED	SF	E	16-18	1	2	1	3	1	1	3	N/A	3	3	4	4
W	CP2851VT2P/RIB*	88	2675	M	M	L	M	M	M	RED	SF	M	16-18	3	2	2	3	2	3	2	3	3	N/A	3	3
W	CP2965VT2P/RIB*	89	2700	M	H	L	M	M	M	RED	SF	M	14-16	1	1	2	3	2	2	2	3	3	N/A	3	2
	CF340CONV	86	2725	-	-	-	-	M-T	M-H	RED	SF	E	16-18	3	2	3	2	3	3	3	3	3	N/A	N/A	N/A
	CF398VT2P/RIB*	89	2725	-	-	-	-	M	M	RED	SF	M	16-18	2	1	1	2	2	2	2	2	2	N/A	N/A	3
	CP3146SS/RIB*	91	2725	H	M	M	M	M	M	RED	FX	M	18-20	1	2	1	2	2	3	3	N/A	2	2	4	3
	CP3166VT2P/RIB*	91	2725	H	M	M	M	M	M	RED	SF	E	16-18	2	3	3	3	2	2	3	3	3	N/A	3	2
	CP3314VT2P/RIB*	93	2750	M	L	M	M	M	M	RED	FL	M	16-18	2	2	2	2	2	2	3	3	3	3	4	N/A
	CF430CONV	93	2825	-	-	-	-	M-T	M-H	RED	SF	M	16-18	3	2	2	2	1	3	3	2	3	N/A	N/A	3
	CF453VT2P/RIB*	93	2825	-	-	-	-	M	M	PINK	SF	L	16-18	2	2	2	3	3	2	2	2	3	N/A	N/A	3
	CP3399VT2P/RIB*	94	2775	M	H	M	M	M	M	RED	SF	M	16-18	2	2	2	2	2	2	2	3	3	3	4	3
	CP3399SS/RIB*	94	2800	M	H	M	M	M	M	RED	SF	M	16-18	2	2	2	2	2	2	2	3	3	3	4	3

KEY

Product descriptions and ratings are generated from Answer Plot* trials and/or from the genetics supplier and may change as additional data is gathered.

- Scale**
- 1 = Excellent
 - 2 = Above Average
 - 3 = Average
 - 4 = Below Average
 - 5 = Fair

1 RTP/RTN/RTCC/RTF Ratings

L = Low Response
M = Moderate Response
H = High Response
TBD = To be tested in 2021.

2 Plant Height

T = Tall
M = Medium
S = Short

4 Ear Flex

FL = Flex
SF = Semi-Flex
FX = Fixed

6 Staygreen

Late-season health coming from strong leaf-disease resistance, enhancing hybrid standability.



W Western Hybrid

*For refuge in a bag (RIB) follow IRM guidelines and refuge configurations outlined on Page 32 to preserve the benefits and Insect Protection of these technology crops.

BRAND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Relative Maturity	CHU	Response to Population [R1P]			Response to Nitrogen [R1N]			Response to Continuous Corn [R1CC]			Response to Fungicide [R1F]			Plant Height			Ear Height			Cob Colour			Ear Flex			Flower Date			Kernel Rows			Seedling Vigour			Stalk Quality			Root Strength			Staygreen			Drought Tolerance			Test Weight			Gray Leaf Spot			NCLB			Common Rust			Goss's Wilt			Anthracnose Stalk Rot																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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CORN SILAGE

2022

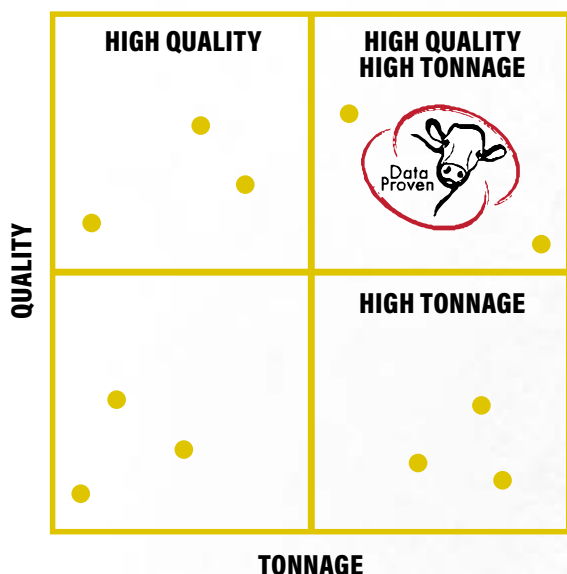
Choosing the right hybrid for your livestock is essential for a healthy herd. With Data Proven insights from nearly 200 annual Answer Plot® locations, we can help you select the right seed, diagnose pest problems and figure out your exact plant nutrition needs all season long.



SILAGE PRODUCTS PROVEN BY DATA

Finding the best hybrid for your operation is a careful balance between tonnage and feed quality. The scatter graph below illustrates yield as tonnage per acre on the horizontal axis and milk per ton as quality on the vertical axis. The lines through the center represent the trial average.

- ✓ Each year, replicated corn silage trials are planted at nearly 200 Answer Plot locations. After harvest, data is compiled and summarized over multiple years and locations to provide a performance snapshot.
- ✓ Summary data is compiled and computed using the University of Wisconsin MILK2006 milk-per-ton value, then plotted on a scatter graph to show the relationship between quality and tonnage potential for each hybrid.
- ✓ For most operations, selection will be based on hybrids in the high-quality, high-tonnage quadrant to ensure optimal production potential.
- ✓ CROPLAN corn silage hybrids that consistently perform in this high-quality and high-tonnage quadrant are marked with the Data Proven logo.



SATISFY YOUR NUTRITION NEEDS

Your nutritionist can determine the parameters for nutrient needs and, leveraging data, your WinField United Canada representative can help to position each hybrid for optimal performance based on multiple variables.

HARVEST TIMING AND STORAGE

The average farmer loses 15 percent or more of a total corn silage crop yield each year due to dry matter loss at harvest and during storage. Minimize losses and ensure optimal forage quality at feedout by following these steps.

- Harvest corn silage when the crop is between 63 and 69 percent moisture.
- Apply inoculant.
- Pack densely with the correct weight.
- Cover with two layers of plastic to seal and protect from spoilage.

Leafy and floury-leafy hybrids may not contain a high level of total starch, but have a softer kernel texture that is easily broken during the chopping, storage and chewing process. This allows starch to be readily digested for more available energy.

SILAGEFIRST SEED LINE DELIVERS

The SilageFirst® seed line of products from CROPLAN is specifically designed for high-producing dairy and beef cattle. There are three types of SilageFirst hybrids.

LEAFY HYBRIDS

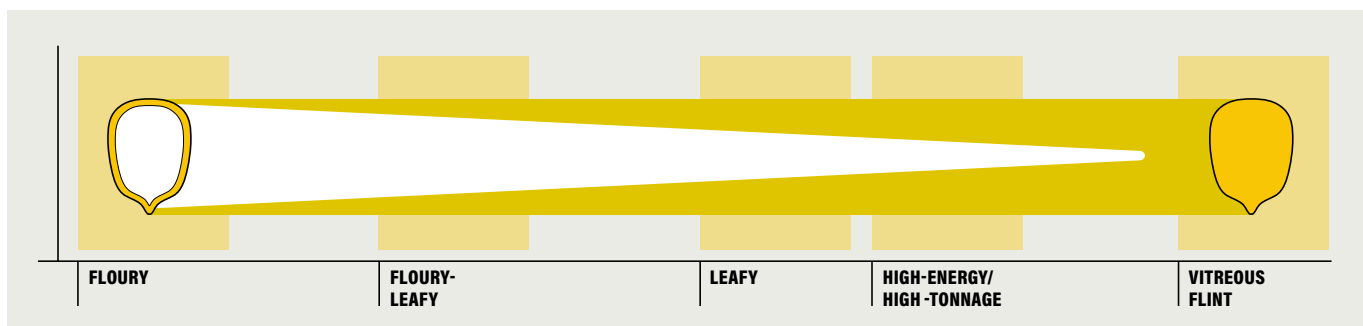
- Leafy stalks are thicker and more digestible, with larger ears to produce more energy.

FLOURY-LEAFY HYBRIDS

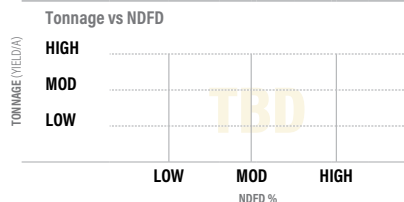
- At feedout, floury-leafy products effectively bridge the gap between the previous year's corn silage pile and the current year's feed.

HIGH-ENERGY/HIGH-TONNAGE HYBRIDS

- Offers increased flexibility in harvest and feedout as grain or high-energy/high-tonnage silage when used in combination with leafy and floury-leafy hybrids.
- Works well when harvested first and floury-leafy hybrids are harvested last.
- Appropriate for feeding after the 120+ day post ensiling, when they reach optimum starch and fiber digestibility.
- Provide the energy and tonnage requirements to optimize weight gain for beef cattle.



CROPLAN **CP1440VT2P/RIB*** WEST EAST
Dual-Purpose 74 Day
1950 Silage CHU

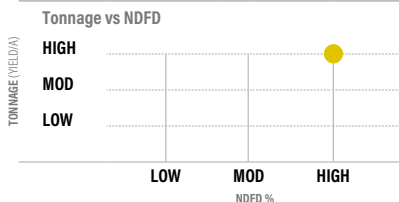


Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Tonnage Potential	TBD	
Milk/Acre	TBD	
% NDFD	TBD	

- Great early option.
- Works well across most environments.
- Attractive plant type with solid agronomic package.
- Excellent staygreen for wider silage window.

CROPLAN **CP2123VT2P/RIB*** WEST EAST
Dual-Purpose 79 Day
2150 Silage CHU

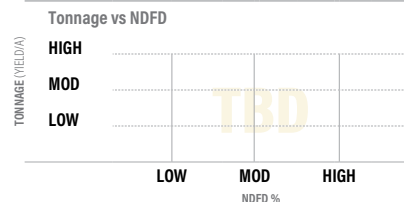


Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Tonnage Potential	Yellow	Yellow
Milk/Acre	Yellow	Yellow
% NDFD	Yellow	Yellow

- Consistent yield potential and quick out of the ground.
- Very early flowering product with fast drydown.
- Mostly fixed, girthy ear with good tip fill.
- Excellent moisture stress tolerance in cool environments.

CROPLAN **CP2112ASD** WEST EAST
Dual-Purpose 81 Day
2275 Silage CHU

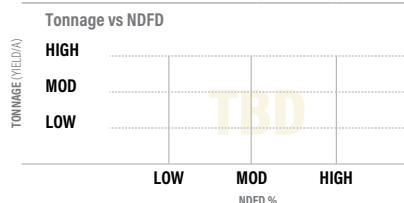


Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Tonnage Potential	TBD	
Milk/Acre	TBD	
% NDFD	TBD	

- Excellent tall hybrid for high tonnage.
- Rootworm protection for corn-on-corn silage fields.
- Excels in moderate to high yield environments and moves across all soil types.
- Girthy ear with good flex.

CROPLAN **CP2288VT2P/RIB*** WEST EAST
Dual-Purpose 82 Day
2300 Silage CHU

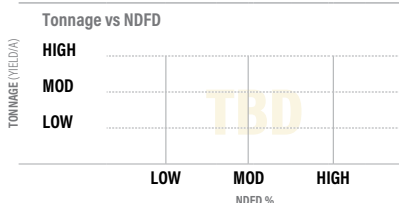


Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Tonnage Potential	TBD	
Milk/Acre	TBD	
% NDFD	TBD	

- Excellent emergence and seedling vigour.
- Consistent yield potential with excellent vigour.
- Girthy ear with with good tip fill for clean quality silage.
- Handles tough, variable yield environments.

CROPLAN **CP2315VT2P/RIB*** WEST EAST
Dual-Purpose 83 Day
2350 Silage CHU

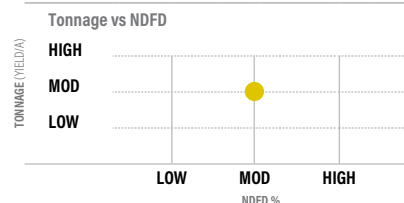


Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Tonnage Potential	TBD	
Milk/Acre	TBD	
% NDFD	TBD	

- Excellent emergence and seedling vigour.
- Works well across most environments.
- Strong stalk quality and root strength.
- Healthy, versatile, high tonnage dual-purpose hybrid.

CROPLAN **CP2417VT2P/RIB*** WEST EAST
Dual-Purpose 85 Day
2400 Silage CHU



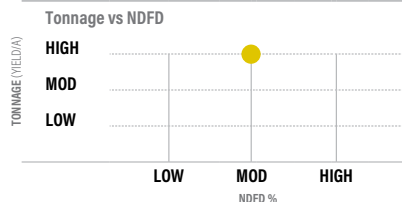
Characteristics

	Fair	Excellent
Seedling Vigour	Yellow	Yellow
Drought Tolerance	Yellow	Yellow
Root Strength	Yellow	Yellow
Tonnage Potential	Yellow	Yellow
Milk/Acre	Yellow	Yellow
% NDFD	Yellow	Yellow

- High yield potential product with excellent defense.
- Excellent emergence.
- Good heat and moisture stress tolerance with proper nutrition.
- Girthy ear with good flex.

CROPLAN **CP2790VT2P/RIB*** WEST EAST
Dual-Purpose 87 Day
2500 Silage CHU

VtDoublePRO
RIB COMPLETE



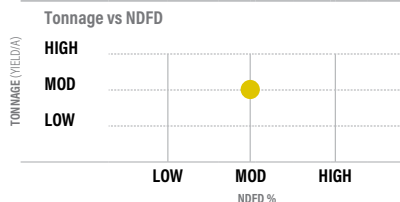
Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Excellent on low to medium yield environments.
- Flex ear for lower planting populations.
- Excellent vigour for early planting.
- Above average drought tolerance.

CROPLAN **CP2845VT2P/RIB*** WEST EAST
Dual-Purpose 88 Day
2525 Silage CHU

VtDoublePRO
RIB COMPLETE



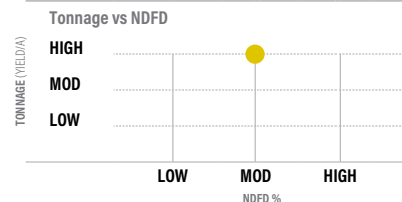
Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- High yield potential across all soil types and environments.
- Excellent heat stress tolerance and great tolerance to cool or short growing seasons.
- Flowers early with fast drydown.
- Optimum performance with higher management.

CROPLAN **CP2965VT2P/RIB*** WEST EAST
Dual-Purpose 89 Day
2550 Silage CHU

VtDoublePRO
RIB COMPLETE



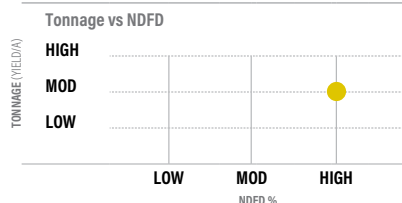
Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Yield leader in 85-90 RM in 2018 Answer Plot trials.
- Excellent early vigour for early planting.
- Moderate RTP and high RTN drive yield on average-to-productive soils.
- Attractive plant type with solid agronomic package.

CROPLAN **CP3146SS/RIB*** WEST EAST
Dual-Purpose 91 Day
2575 Silage CHU

SmartStax
RIB COMPLETE



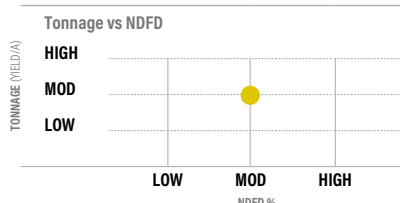
Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Defensive companion to 2845 and 3134.
- Excellent high yield potential product for moderate to low yield environment.
- Good tip fill, even under high population.
- Industry leading roots and stalks.

CROPLAN **CP3399SS/RIB*** WEST EAST
Dual-Purpose 94 Day
V2TP: 2625 Silage CHU
SS: 2650 Silage CHU

VtDoublePRO **SmartStax**
RIB COMPLETE



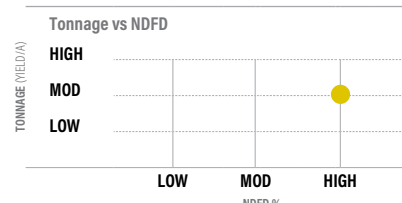
Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Excellent emergence and seedling vigour.
- Medium stature hybrid that has above-average staygreen and intactness.
- Slender ear with good flex in length.
- Good choice for corn-on-corn rotations.

CROPLAN **CP3575SS/RIB*** WEST EAST
Dual-Purpose 95 Day
CONV: 265 Silage CHU
VT2P: 2675 Silage CHU
SS: 2700 Silage CHU

CONVENTIONAL **VtDoublePRO** **SmartStax**
RIB COMPLETE

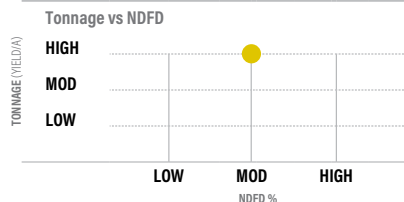


Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Excels in moderate to high yield environments and moves across all soil types.
- Strong stalk quality and root strength.
- Has good ear flex for low plant densities, but will respond to higher management.
- Low response to fungicide; may respond in heavy grey spot situations.

CROPLAN **CP3899VT2P/RIB*** WEST EAST
Dual-Purpose 96 Day
2725 Silage CHU

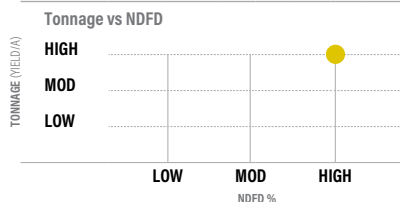


Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Excellent emergence and seedling vigour.
- Data Proven Hybrid; great dual-purpose option.
- Above average drought tolerance.
- Consistent performance across multiple environments.

CROPLAN **CP3735SS/RIB*** WEST EAST
Dual-Purpose 97 Day
VT2P: 2750 Silage CHU
SS: 2775 Silage CHU

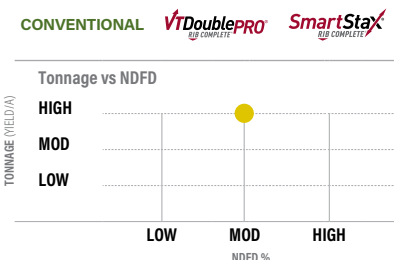


Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Medium height dual-purpose hybrid with excellent NDFD.
- Excellent test weight and emergence with solid defensive traits.
- Plant at moderate to high densities; fungicide application is recommended.
- Keep in relative maturity zone.

CROPLAN **CP4188SS/RIB*** WEST EAST
Dual-Purpose 101 Day
CONV: 2800 Silage CHU
VT2P: 2850 Silage CHU
SS: 2875 Silage CHU

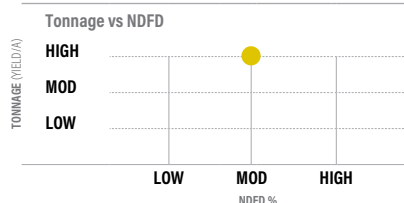


Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Attractive plant type with solid agronomic package.
- Semi-flex ear allows lower densities, but will respond when pushed in populations.
- Handles tough, variable and ideal yield environments.
- Healthy, versatile, high tonnage dual-purpose hybrid.

CROPLAN **CP4203SS/RIB*** WEST EAST
Dual-Purpose 102 Day
VT2P: 2875 Silage CHU
SS: 2925 Silage CHU

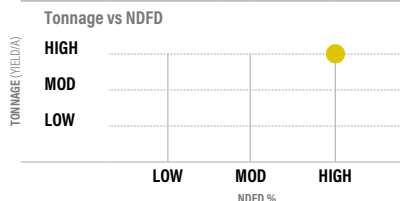


Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Tolerates heat well; excellent greensnap tolerance.
- Works well across most environments.
- A fungicide is recommended when planted in a continuous-corn rotation.

CROPLAN **CP4676SS/RIB*** WEST EAST
Dual-Purpose 106 Day
3025 Silage CHU

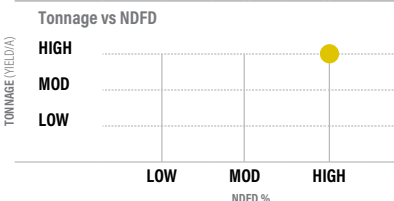


Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

- Versatile hybrid; position and manage for high yield.
- Medium height hybrid with excellent emergence, seedling vigour and test weight.
- Position at medium populations and manage nitrogen for high yield potential.
- Fungicide application recommended in areas with GLS pressure.

CROPLAN **CP4791AS3111/RIB*** WEST EAST
Dual-Purpose 107 Day
3050 Silage CHU



Characteristics

	Fair	Excellent
Seedling Vigour	■	■
Drought Tolerance	■	■
Root Strength	■	■
Tonnage Potential	■	■
Milk/Acre	■	■
% NDFD	■	■

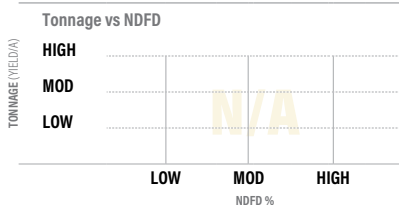
- Medium-tall plant with outstanding late season intactness; strong ear flex in girth.
- Structured refuge needed.
- Great disease package with moderate response to fungicide.
- Above average roots and stalks; outstanding dual-purpose option.



LEAFY & DUAL-PURPOSE: FIND THE PERFECT FIT FOR YOUR OPERATION

- Leafy hybrids offer increased starch and fiber digestibility, while providing a wider harvest window for a flexible harvest schedule.
- Dual-purpose hybrids offer more flexibility at harvest and feedout as silage or grain.
- Choose a leafy hybrid and a dual-purpose hybrid to maximize harvest timing and feedout schedules.
- For more information, talk to your WinField United Canada representative or local CROPLAN retailer.

CROPLAN **CF932SRR** WEST EAST
 Leafy 90 Day
 2775 Silage CHU

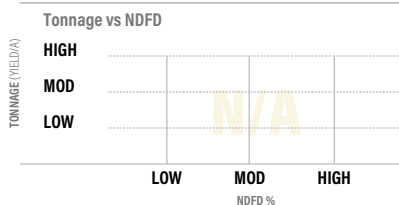


Characteristics

	Fair	Excellent
Seedling Vigour		
Drought Tolerance		
Root Strength		
Tonnage Potential		
Milk/Acre		
% NDFD		

- SilageFirst leafy floury proven hybrid.
- Strong performance in both tonnage and quality.
- Exceptional yield potential in high yielding environments.
- Flex ear, plant at lower populations.

CROPLAN **CF956SSS/RIB*** WEST EAST
 Leafy 94 Day
 2850 Silage CHU

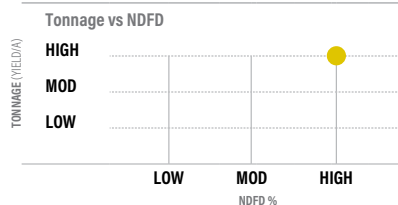


Characteristics

	Fair	Excellent
Seedling Vigour		
Drought Tolerance		
Root Strength		
Tonnage Potential		
Milk/Acre		
% NDFD		

- SilageFirst leafy proven hybrid now with SmartStax.
- Above and below insect protection for corn-on-corn acres.
- Strong performance in both tonnage and quality.
- Flex ear, plant at lower populations.

CROPLAN **CP4100SVT2P/RIB*** WEST EAST
 Leafy 101 Day
 2975 Silage CHU



Characteristics

	Fair	Excellent
Seedling Vigour		
Drought Tolerance		
Root Strength		
Tonnage Potential		
Milk/Acre		
% NDFD		

- SilageFirst leafy proven hybrid now with VT Double Pro® trait.
- Strong performance in both tonnage and quality.
- Responds well to enhanced nitrogen management.

BRAND	w	Plant Height														Staygreen	CHU	Silage CHU	Relative Maturity	Calibrate Starch Rating										Calibrate Fiber Rating										TDN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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SILAGE- FIRST BRAND																							Calibrate® Fiber Rating 7	Calibrate® Starch Rating 6	TDM
	Relative Maturity	Silage CHU	CHU	Staygreen	Plant Height 1	Ear Height 2	Ear Flex 3	Flower Date 4	Kernel Rows	Response to Population [RTP] 5	Response to Nitrogen [RTN] 5	Response to Continuous Corn [RTCC] 5	Response to Fungicide [RTF] 5	Seedling Vigour	Root Strength	Drought Tolerance	Tonnage Potential	# Milk/Acre	% NDFD	% NDF	% Starch	% Crude Protein			
CF932SRR	90	2775	2925	1	T	M	FL	M	16-18	N/A	N/A	N/A	N/A	2	3	1	-	-	-	-	-	-	-		
CF956SSS/RIB*	94	2850	3000	1	T	M	FL	M	16-18	N/A	N/A	N/A	N/A	2	3	1	-	-	-	-	-	-	-		
CP4100SVT2P/RIB*	101	2975	3125	1	T	M	SF	M	16-18	N/A	N/A	N/A	M	3	2	2	1	1	1	1	4	3	2	MF	

KEY

Scale
 1 = Excellent
 2 = Above Average
 3 = Average
 4 = Below Average
 5 = Fair

Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

1 Plant Height

T = Tall
 M = Medium
 S = Short

3 Ear Flex

FL = Flex
 SF = Semi-Flex
 FX = Fixed

5 RTP/RTN/RTCC/RTF Ratings

L = Low Response
 M = Moderate Response
 H = High Response
 TBD = To be tested in 2021.

6 Calibrate® Starch Rating

Relative rumen digestibility of grain starch
 S = Slow
 M = Moderate
 F = Fast
 Ratings based on 2018-2020 silage samples.

7 Calibrate® Fiber Rating

Relative rumen digestibility of fiber
 S = Slow
 M = Moderate
 F = Fast
 Ratings based on 2018-2020 silage samples.



W Western Hybrid

*For refuge in a bag (RIB) follow IRM guidelines and refuge configurations outlined on Page 32 to preserve the benefits and Insect Protection of these technology crops



SOYBEAN

2022

**Match the right soybean to your field.
Get the perfect genetics and traits for
your field's conditions and outstanding
disease tolerance through all stages of
growth. Plus, you can reduce variability
with WinPak's combination of two
soybean varieties in one bag.**



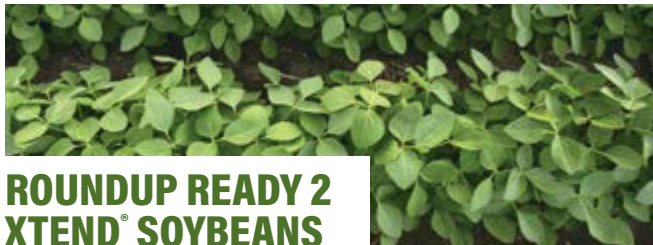
MANAGE WEEDS WITH TRAIT TECHNOLOGY

CROPLAN soybean seed offers the newest genetics with multiple herbicide trait options developed to effectively manage your weed-resistance issues.

SOYBEAN HERBICIDE TOLERANCE AND WEED CONTROL

Weed control in soybeans starts with seed selection. With several herbicide-tolerant traits now available, and more on the way, you've got plenty of tools in the toolbox. Faced with hard-to-control weeds, though, creating a plan for season-long weed management is critical.

CROPLAN offers a range of herbicide-tolerant soybean varieties, including traits for great post-emergence options.





**ROUNDUP READY 2
XTEND® SOYBEANS**



**ENLIST E3 SOYBEAN
VARIETIES**



VARIETY	KEY	TRAIT HERBICIDE TOLERANCE	GLYPHOSATE	GLUFOSINATE	2,4-D CHOLINE	DICAMBA
 Roundup Ready 2 Xtend®	X	Roundup® and Dicamba tolerant	X			X
 Enlist E3®	E	Glyphosate, Glufosinate and 2,4-D Choline tolerant	X	X	X	

POPULATION RECOMMENDATIONS

ROW WIDTH	DESIRED PLANTS/ACRE	OPTIMUM PLANT TYPE
7" to 10" (Drilled)	175,000 to 200,000	Intermediate to Narrow
15" to 20" (Planter)	165,000 to 180,000	Intermediate to Medium Bush
30" (Planter)	150,000 to 170,000	Medium Bush to Bush

BROAD-SPECTRUM PROTECTION FOR YOUR SEED.

Vayantis® IV seed treatment protects soybeans against a wide range of early season seed and seedling diseases, including Phytophthora, and offers the broadest spectrum of Pythium control on the market. Vayantis IV also provides a new mode of action with no known cross-resistance, and the Rooting Power® of Vibrance® so soybeans get established and standing strong – faster.

DISEASES CONTROLLED

- Seed rot, pre-emergence damping-off, post-emergence damping-off and seedling blight caused by Fusarium spp., Pythium spp. and Rhizoctonia spp.
- Seed rot, pre-emergence damping-off and post-emergence damping off caused by Pythium spp.
- Seedling root rot caused by Fusarium spp.
- Seed rot and seedling blight caused by seed-borne Phomopsis spp.
- Early season root rot caused by Phytophthora megasperma var. sojae

Rooting Power®, Vayantis® and Vibrance® are trademarks of a Syngenta Group Company. © 2021 Syngenta. Vayantis® IV is an on-seed treatment of Vibrance® Trio fungicide seed treatment and Vayantis fungicide seed treatment.

ADVERTISEMENT

At the time of print, Vayantis® was being assessed for registration under the Pest Control Products Act, and cannot be manufactured, imported, distributed, or used in Canada until registration has been obtained from Health Canada. This communication does not constitute an offer for sale. At time of print, registration of Vayantis seed treatment was anticipated July 26, 2021.

Please note that Vayantis IV will only be made available for sale after registration.



syngenta®



MAXIMIZE STAND DENSITY

Maximizing stand density is important in order to maintain high yield potential. Be sure to consider these factors:

- Proper residue management
- Uniform seedbed
- Proper seed depth
- Proper seed-to-soil contact
- Apply a premium seed treatment

PHYTOPHTHORA ROOT ROT RESISTANCE GENES

Phytophthora root rot (PRR) is a yield-robbing disease commonly found in heavier, poorly drained soils. There are many known races of phytophthora. Genes are bred into soybean varieties to convey resistance to these races, but not all resistance genes will control all races.

Consult your WinField United Canada representative or local CROPLAN retailer to help you determine which resistance package is right for you.

PRR GENES	PRR RACES CONTROLLED
Rps3a	1–5, 8, 9, 11, 13, 14, 16, 18, 23, 25
Rps1c	1–3, 6–11, 13, 15, 17, 21, 23, 24, 26
Rps1k	1–11, 13–15, 17, 18, 21, 22, 24, 26
Rps1a	1, 2, 10, 11, 13–18, 24

OPTIMAL CONDITIONS FOR DISEASE INFECTION CHART

FUNGUS	DISEASE	TEMPERATURE (C) RANGE/OPTIMUM	MOISTURE
Pythium	Damping-off	10°C-20°C/<15°C	Saturated
Rhizoctonia	Damping-off	15°C-30°C/27°C	30%-60% water
Phytophthora	Damping-off	15°C-30°C/25°C-27°C	Saturated; weekly periodic rain
Fusarium	SDS and root rot	10°C-30°C/15°C	Wet to saturated

WinPak®

By WINFIELD UNITED

MANAGE VARIABILITY LIKE A BOSS WITH WINPAK SOYBEANS

WinPak combines two certified soybean varieties in one bag, so you can confidently seed without second guessing. Seeds are carefully paired to provide complementary characteristics such as region-specific disease and drought tolerance, standability, yield potential, and more.



HOW IS WINPAK SEED SELECTED?

- Designed to mitigate risk across the whole field: more stability on variable acres, high yield potential on productive acres and consistency in more challenging acres.
- Seed is strategically paired to provide farmers complementary agronomic features for optimal performance in their specific region.
- Varieties are selected with similar maturities to ensure consistent drydown in the field.

MANAGING VARIABILITY

- Planting diverse soybean varieties can help balance contrasting soil types, improving overall field management.
- WinPak varieties help to capitalize on your top-end yield potential in the better areas of the field and offer solid defence in areas with greater soil variability.
- Helps to balance the variability inherent in other factors that affect yield potential, such as weather.

EXAMPLE CP00121WPX COMPONENTS

COMPONENTS	YIELD	PRR TOLERANCE	PRR GENE	SWM	STANDABILITY	IDC	Ht.
RX000918	✓	3	✓	3	2	2	✓
CP00120RX	2	✓	✓	✓	✓	✓	MS

CROPLAN **CP000521X** **NEW** **WEST** **EAST**
 Group: 000.5
 2175 CHU

ROUNDUP READY 2
Xtend
 SOYBEANS

Characteristics

	Fair	Excellent
SCN Tolerance		
PRR Tolerance		
SDS Tolerance	N/A	
SWM Tolerance		
BSR Tolerance	N/A	
Iron Chlorosis		

Emergence **2** Canopy Type **INT**
 Standability **2** Height **M**

- High yielding early Xtend variety.
- Outstanding Phytophthora field tolerance with the Rps1c gene.
- Good performer on all soil types with strong stress tolerance.
- Very good pod height and IDC tolerance.

CROPLAN **CP00121WPX** **WEST** **EAST**
 Group: 00.1
 2325 CHU

ROUNDUP READY 2
Xtend
 SOYBEANS

WinPak
 By WINFIELD UNITED

Characteristics

	Fair	Excellent
SCN Tolerance		
PRR Tolerance		
SDS Tolerance	N/A	
SWM Tolerance		
BSR Tolerance		
Iron Chlorosis		

Emergence **2** Canopy Type **INT**
 Standability **2** Height **M/T**

- WinPak consisting of CP00120RX + RX000918RX.
- Taller variety that stands well.
- Good yield potential.
- PRR Resistance Rps1c, good PRR field tolerance, SCN rating.

CROPLAN **CP005WPRX** **WEST** **EAST**
 Group: 00.5
 2425 CHU

ROUNDUP READY 2
Xtend
 SOYBEANS

WinPak
 By WINFIELD UNITED

Characteristics

	Fair	Excellent
SCN Tolerance		
PRR Tolerance		
SDS Tolerance	N/A	
SWM Tolerance		
BSR Tolerance		
Iron Chlorosis		

Emergence **3** Canopy Type **BUSH**
 Standability **2** Height **M/T**

- WinPak consisting of CP00419RX + CP00519RX.
- Taller variety that stands well.
- Strong yield potential; performs well under tough conditions.
- PRR Resistance Rps1k, good PRR field tolerance, and SCN.

CROPLAN **CP0521WPX** **NEW** **WEST** **EAST**
 Group: 0.5
 2650 CHU

ROUNDUP READY 2
Xtend
 SOYBEANS

WinPak
 By WINFIELD UNITED

Characteristics

	Fair	Excellent
SCN Tolerance		
PRR Tolerance		
SDS Tolerance	N/A	
SWM Tolerance		
BSR Tolerance		
Iron Chlorosis		

Emergence **2** Canopy Type **BUSH**
 Standability **1** Height **M**

- WinPak consisting of CP0321X + CP0520RX.
- A great fit for no till placement.
- Strong yield potential with above average emergence.
- Two PRR genes for improved resistance.

CROPLAN **CP07WPRX** **WEST** **EAST**
 Group: 0.7
 2725 CHU

ROUNDUP READY 2
Xtend
 SOYBEANS

WinPak
 By WINFIELD UNITED

Characteristics

	Fair	Excellent
SCN Tolerance		
PRR Tolerance		
SDS Tolerance	N/A	
SWM Tolerance		
BSR Tolerance		
Iron Chlorosis		

Emergence **2** Canopy Type **-**
 Standability **2** Height **M/T**

- WinPak consisting of CP0620RX + CP0719RX.
- High yield potential with good early spring vigour.
- Solid agronomic package suited for SWM, PRR & SCN.
- Medium-tall and bushy plant with excellent standability.

CROPLAN **CP0921X** **NEW** **WEST** **EAST**
 Group: 0.9
 2775 CHU

ROUNDUP READY 2
Xtend
 SOYBEANS

Characteristics

	Fair	Excellent
SCN Tolerance		
PRR Tolerance		
SDS Tolerance	N/A	
SWM Tolerance		
BSR Tolerance		
Iron Chlorosis		

Emergence **2** Canopy Type **BUSH**
 Standability **2** Height **M**

- Attractive look.
- Excellent yield in all environments.
- No till adaptable.
- Leading white mold tolerance.

CROPLAN **CF2858XT** WEST EAST
Group: 1.1
2850 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	N/A	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	N/A	■

Emergence	1	Canopy Type	BUSH
Standability	1	Height	M/S

- Medium height, branchy with excellent standability.
- Great white mold tolerance.
- Fits all soil types.
- SCN protection.

CROPLAN **CP1121E** NEW WEST EAST
Group: 1.1
2850 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	■	■

Emergence	1	Canopy Type	BUSH
Standability	2	Height	M/T

- Elite performance Enlist soybean.
- Solid in all yield environments and soil types.
- Adapted for all row widths.
- Great emergence for early planting.

CROPLAN **CP1221WPX** NEW WEST EAST
Group: 1.2
2875 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	■	■

Emergence	2	Canopy Type	BUSH
Standability	2	Height	M/T

- WinPak consisting of CP1220RX + CP1221X.
- Very high yield potential and consistent on all soil types.
- Unbeatable PRR resistance.
- Strong SCN protection.

CROPLAN **CP1621WPE** NEW WEST EAST
Group: 1.6
2950 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	■	■

Emergence	2	Canopy Type	BUSH
Standability	2	Height	M/T

- WinPak consisting of CP1521E + CP1621E.
- New Enlist WinPak.
- Excellent yield potential, adapted for high yielding environments.
- Adapted for no till.

CROPLAN **CP18WPRX** WEST EAST
Group: 1.8
3025 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	N/A	■

Emergence	2	Canopy Type	BUSH
Standability	3	Height	M/T

- WinPak consisting of CP1719RX + RX1818.
- High yield potential.
- Good early spring vigour.
- Taller branchy variety that prefers wider rows.

CROPLAN **CP1921WPE** NEW WEST EAST
Group: 1.9
3025 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	■	■

Emergence	1	Canopy Type	BUSH
Standability	2	Height	M/T

- WinPak consisting of CP1821E + CP1921E.
- Yield leading Enlist3 WinPak.
- Unmatched emergence.
- Great late season pod fill.



CROPLAN **CF19X9** WEST EAST
Group: 1.9
3050 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	N/A	■

Emergence	1	Canopy Type	BUSH
Standability	3	Height	T

- Good emergence.
- Good PRR field tolerance.
- Tall, bushy plant.
- SCN protection.

CROPLAN **CP2320RX** WEST EAST
Group: 2.3
3150 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	N/A	■

Emergence	3	Canopy Type	BUSH
Standability	2	Height	T

- High yielding Roundup Ready 2 Xtend variety.
- Tall, bushy plant that closes canopy quickly.
- Excellent standability.
- SCN resistant and excellent white mold tolerance.

CROPLAN **CF3176XT** WEST EAST
Group: 2.4
3175 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	N/A	■

Emergence	2	Canopy Type	BUSH
Standability	1	Height	M

- Excellent standability.
- Fits all soil types.
- Solid potential in lower yield environments.
- Adaptable to any cropping management.

CROPLAN **CP2521E** WEST EAST
Group: 2.5
3200 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	■	■

Emergence	1	Canopy Type	INT/BUSH
Standability	3	Height	M/T

- Dominant yield performance.
- Exceptional emergence.
- Medium height bean that stands well.
- SCN resistant and brown stem rot resistance.

CROPLAN **CP3220RX** WEST EAST
Group: 3.2
3375 CHU



Characteristics

	Fair	Excellent
SCN Tolerance	■	■
PRR Tolerance	■	■
SDS Tolerance	■	■
SWM Tolerance	■	■
BSR Tolerance	■	■
Iron Chlorosis	■	■

Emergence	2	Canopy Type	INT
Standability	1	Height	M

- Medium height variety that stands well.
- Good choice for heavier soils, reduced tillage, and wider rows.
- Good disease package with excellent white mold tolerance.
- PRR Resistance Rps1c, good PRR field tolerance, and SCN.

KEY

Height	Canopy Type
T = Tall	NAR = Narrow
M = Medium	INT = Intermediate
S = Short	BUSH = Bushy

Variety Best Location

WEST = Western Variety
EAST = Eastern Variety



Enlist E3™ soybean varieties are now available. Using the Enlist weed control system, farmers can take control of resistant and hard-to-control weeds.

The Enlist™ weed control system will change how you think about weed management in soybeans.

WHY USE THE ENLIST WEED CONTROL SYSTEM?

- A system with new traits providing herbicide tolerance in soybeans and corn
- Herbicide solutions built on an improved form of 2,4-D that lands and stays on target, enables management of hard-to-control and resistant weeds with Group 4 herbicides
- Enlist Stewardship resources that support the use of multiple modes of action to manage resistant weeds, provide training, and promote responsible and sustainable use

Enlist E3™ Soybeans

Enlist E3 soybeans provide high-yielding soybean genetics and industry leading triple-mode of action herbicide tolerance.

WHY USE ENLIST E3 SOYBEANS?

- Enlist E3 soybeans are tolerant to 2,4-D, glyphosate and glufosinate herbicides, which are part of a strong resistance management strategy
- Excellent crop tolerance enabling applications up to the R2 growth stage

Enlist™ herbicides that land and stay on target



COMPLETE CONVENIENCE.

Enlist Duo provides the convenience of both 2,4-D choline and glyphosate in one formulation for control of grasses and broadleaf weeds including hard-to-control and resistant weeds.



FLEXIBILITY AND CHOICE.

Enlist 1, a stand-alone 2,4-D choline formulation, provides the flexibility to tank-mix and adjust the rates of glyphosate or Liberty® 200 SN (glufosinate) for hard-to-control and resistant weeds.

Learn more at EnlistCanada.ca

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TWO BEAN OR NOT TWO BEAN.

Take the drama out of soil variability. Picking the right soybean for your conditions doesn't have to be a big performance. CROPLAN® WinPak® soybeans have two certified varieties in one bag, so you can confidently seed without second guessing.



WinPak®
By WINFIELD UNITED

CROPLAN
By WINFIELD UNITED

BRAND

W	CP000521X NEW		XTEND	000.5	2175	5	Rps1c	1	N/A	3	N/A	2	2	2	INT	M	P	LT	TN	YE
W	CP000620RX	✓	XTEND	000.6	2200	2	Rps1c	5	N/A	3	5	3	2	1	INT	M	P	TW	BR	BL
W	RX000918	✓	XTEND	000.9	2275	1	Rps1c	2	N/A	1	2	3	2	1	INT	T	P	TW	LB	BL
W	CP00120RX	✓	XTEND	00.1	2325	1	NG	3	N/A	3	2	2	3	3	INT	M	P	TW	BR	BR
W	CP00121WPX		XTEND	00.1	2325	1	RpsH1c	2	N/A	2	2	2	2	2	INT	M/T	P	TW	BR/LB	-
W	CP00419RX	✓	XTEND	00.4	2400	1	Rps1k	2	N/A	2	N/A	2	3	2	BUSH	T	P	TW	LB	BL
W	CP00519RX	✓	XTEND	00.5	2425	1	Rps1k	2	N/A	2	N/A	2	3	2	BUSH	T	P	TW	LB	BL
W	CP005WPRX		XTEND	00.5	2425	1	Rps1k	1	N/A	2	3	2	3	2	BUSH	M/ T	P	TW	LB	-
W	CP00621X NEW	✓	XTEND	00.6	2450	1	Rps1c/Rps3a	N/A	3	3	2	1	1	2	BUSH	M	P	LT	BR	BL
	CP0321X NEW	✓	XTEND	0.3	2625	5	Rps1c	2	N/A	2	2	1	1	1	BUSH	M	P	LT	BR	BR
	CP0521WPX NEW		XTEND	0.5	2650	3	Rps3a/Rps1c	2	N/A	3	2	2	2	1	BUSH	M	P	LT	BR	BR/BL
	CP0520RX	✓	XTEND	0.5	2675	1	RpsH3a	3	N/A	4	2	N/A	3	1	BUSH	S	P	LT	TN	BL
	CP0620RX	✓	XTEND	0.6	2700	1	Rps1c	4	N/A	1	4	N/A	3	1	BUSH	M	P	LT	BR	BL
	CP0719RX	✓	XTEND	0.7	2725	5	Rps1a	2	N/A	3	4	3	1	3	BUSH	T	P	LT	LB	BL
	CP07WPRX		XTEND	0.7	2725	3	Rps1a/Rps1c	3	N/A	2	4	4	2	2	-	M/T	P	-	BR/LB	BL
	CP0921X NEW		XTEND	0.9	2775	1	Rps3a	2	N/A	2	3	1	2	2	BUSH	M	P	LT	BR	BL
	CF2858XT		XTEND	1.1	2850	1	Rps1c/Rps3a	1	N/A	2	3	N/A	1	1	BUSH	M/S	P	GR	BR	BF
	CP1121E NEW		ENLIST	1.1	2850	5	Rps1k	3	3	3	2	3	1	2	BUSH	M/T	P	GR	TN	BF
	CP1220RX	✓	XTEND	1.2	2875	1	Rps1c/RpsH3a	2	4	3	2	N/A	3	1	-	T	P	-	BR	BL
	CP1221WPX NEW		XTEND	1.2	2875	1	Rps1c/Rps3a	2	3	3	2	1	2	2	BUSH	M/T	P	LT	BR	BL
	CP1221X NEW	✓	XTEND	1.2	2875	1	Rps1c/Rps3a	2	2	3	2	1	1	2	BUSH	M/S	P	LT	BR	BL
	CP1521E NEW	✓	ENLIST	1.5	2950	1	Rps3a	1	2	3	2	2	1	2	BUSH	M	P	GR	TN	BF
	CP1621WPE NEW		ENLIST	1.6	2950	1	Rps3a/Rps1k	2	2	3	1	2	2	2	BUSH	M/T	P	GR	TN	BF
	CP1621E NEW	✓	ENLIST	1.6	2975	1	Rps1k	3	2	3	1	3	1	3	BUSH	M/T	P	GR	TN	BF
	CP1719RX	✓	XTEND	1.7	3000	2	Rps1c	3	2	4	3	N/A	1	4	BUSH	M/T	P	LT	BR	BL
	RX1818	✓	XTEND	1.8	3025	2	Rps1c	2	4	3	3	N/A	2	1	BUSH	T	P	TW	LB	IB
	CP18WPRX		XTEND	1.8	3025	2	Rps1c	2	3	3	3	N/A	2	3	BUSH	M/ T	P	TW	BR/LB	-
	CP1821E NEW	✓	ENLIST	1.8	3025	1	Rps3a	2	1	3	1	3	1	3	BUSH	M	P	GR	TN	BF
	CP1921WPE NEW		ENLIST	1.9	3025	1	Rps3a	2	1	3	2	2	1	2	BUSH	M/T	P	GR	TN/BR	BF/IB
	CP1921E NEW	✓	ENLIST	1.9	3050	1	NG	2	2	3	2	2	1	2	BUSH	M/T	P	GR	BR	IB
	CF19X9		XTEND	1.9	3050	1	Rps1c	2	3	1	1	N/A	1	3	BUSH	T	P	LT	BR	BL
	CP2320RX		XTEND	2.3	3150	2	Rps1c	4	3	2	3	N/A	3	2	BUSH	T	P	LT	BR	BL
	CF3176XT		XTEND	2.4	3175	1	Rps1c	1	4	2	3	N/A	2	1	BUSH	M	P	GR	BR	IB
	CP2521E		ENLIST	2.5	3200	1	NG	2	4	4	2	1	1	3	INT/BUSH	M/T	P	GR	BR	IB
	CP3220RX		XTEND	3.2	3375	1	Rps1c	1	3	1	4	3	2	1	INT	M	P	GR	BR	IB

KEY

Scale

1 = Excellent
2 = Above Average
3 = Average
4 = Below Average
5 = Fair

Plant populations are based on final stands.

1 Herbicide Trait

ENLIST = Enlist E3
XTEND = Roundup Ready 2 Xtend*

2 PRR Gene

Rps = Resistance to *Phytophthora sojae*
RpsH = Heterozygous segregating Rps occurrence

3 Canopy Type

NAR = Narrow
INT = Intermediate
BUSH = Bushy

4 Plant Height

T = Tall
M = Medium
S = Short

5 Flower Colour

P = Purple
W = White

6 Pubescence Type

GR = Gray
TW = Tawny
LT = Light Tawny

7 Pod Colour

TN = Tan
BR = Brown
LB = Light Brown

8 Hilum Colour

YE = Yellow/Clear
GR = Gray
BL = Black
IB = Imperfect Black
BR = Brown
BF = Buff
TN = Tan

W Western Variety

These ratings reflect trends observed in research trials that change with variations in rainfall, temperature, crop production patterns and other factors. Ratings on new soybean varieties are based on limited data and may change as more data is collected.

THE SOYBEAN SYSTEM YOU CAN'T RESIST

The Roundup Ready® Xtend Crop System

combines the high yield potential of Roundup Ready 2 Xtend® soybeans with built-in tolerance to both glyphosate and dicamba chemistries.

Applying the higher rate of Roundup Xtend® in your first pass provides short-term residual activity on small seeded broadleaves* with the added ability to effectively manage resistance concerns.

EARLY SEASON CONTROL TO GET AHEAD OF THE WEEDS AND STAY THERE.

traits.bayer.ca »



*Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

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. 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. Contact your local crop protection dealer or call the technical support line at 1-888-283-6847 for recommended Roundup Ready® Xtend Crop System weed control programs. Bayer, Bayer Cross, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready®, Roundup WeatherMAX®, Roundup Xtend®, VaporGrip® and XtendiMax® are registered trademarks of Bayer Group. ©2021 Bayer Group. All rights reserved.



**ROUNDUP READY®
XTEND
CROP SYSTEM**

**ROUNDUP READY 2
XTEND
SOYBEANS**

**Roundup
XTEND**
with VaporGrip
Technology

**Dicamba and
Glyphosate Pre-mix**



SUNFLOWER

2022

Get the best sunflower seed genetics for your operation. With the newest traits and insights, backed by extensive North American testing, WinField United offers hybrids with high yield and oil-premium potential and diverse genetics to match your marketing objectives.





TARGET YOUR MARKETS AND HOLD NOTHING BACK.

In the seed business, experience matters. Thanks to extensive testing and screening conducted through the Answer Plot program, we've selected the best sunflower seed genetics to bring to Canada and help you choose the best option for your operations.

The genetics we offer can help manage disease pressure in your fields, with hybrids that can be positioned based on specific field stresses. Plus, we've incorporated the latest traits in our portfolio, too. That's technology – and experience – you can count on.

CONSIDER SEED SIZE AND COATING

Optimizing plant-to-plant spacing is important for maximum sunflower production. Seed size can play a role in achieving optimum spacing and population in sunflower crops. That's why we offer Prosun™ precise seed coating.

Prosun precise provides added weight and a smooth, slick finish that enables sunflower seed to flow smoothly through precision planters, helping growers achieve accurate field populations.

BENEFITS OF PROSUN PRECISE SEED COATING:

- Consistent seed size, which helps optimize yield potential.
- Uniformity in stand establishment.
- Even growth for optimal weed, disease and insect management.

PEST MANAGEMENT

DISEASE CONTROL

Use Holdfast™ with HiActivate® for consistent control of sunflower rust and suppression of sclerotinia.

TOP TIER PERFORMANCE

In only the first year of pre-registration trials, CROPLAN Sunflowers took the top two spots in the oil type category of the 2020 Manitoba Sunflower Performance trials, yielding 112% and 107% of check!

WEED CONTROL

- Use pre-emergence herbicide treatments or preplant-incorporated herbicides to combat kochia and Russian thistle.
- The DuPont™ ExpressSun® trait is tolerant to Express® herbicide with Group 2 mode of action.
- Express herbicide can be applied across a broad crop stage, from one leaf to bud, and can be applied a second time for later flushes.
- Add Marshall® Unpacked or Antler® 360 Unpacked to the tank mix for grassy weed control.



CROPLAN CP432E ExpressSun® Sunflower

Characteristics	Fair	Excellent
Stalk Strength	■	■
Phomopsis	■	■
Oil Content	■	■
Drydown	■	■

- High yield potential for early maturity.
- Shorter plant height; very uniform.
- DMR PI 8; resistant to all common races of downy mildew.
- Nice seed size for dehulling option.
- Registration Pending.

CROPLAN CP455E ExpressSun® Sunflower

Characteristics	Fair	Excellent
Stalk Strength	■	■
Phomopsis	■	■
Oil Content	■	■
Drydown	■	■

- Excellent yield potential; top performer in CROPLAN lineup.
- Widely adapted across regions and field conditions.
- Medium-short plant with excellent drydown.
- DMR PI 6; resistant to most common races of downy mildew.
- Registration Pending.

SUNFLOWER	Common Planting Seed Size	Downy Mildew Resistance	High Oleic	NuSun®	Dehulling	Birdseed	Phomopsis	Sclerotinia	Height	Oil Content	Oleic Content	Drydown	Stalk Strength	Drought Tolerance	ProSize™ Advanced	
	Days To Maturity															
CP432E	2,3,4	89	PI 8	NO	YES	YES	YES	3	3	SHORT	3	N/A	1	2	2	P2 P3
CP455E	2,3,4	94	PI 6	YES	NO	YES	YES	2	2	MED-SHORT	2	1	1	1	2	P2 P3

KEY

Scale
1 = Excellent
2 = Above Average
3 = Average
4 = Below Average
5 = Fair


KEY

Scale
 1 = Excellent
 2 = Above Average
 3 = Average
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 5 = Fair

GIVE YOUR CROPS THE EDGE THEY NEED.

Find the perfect mix for your crops and conditions. WinField United not only offers industry-leading 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 knowledge of the newest advances in chemical selection and application with first-hand training and expertise.

SOME OF THE TOPICS COVERED IN A TYPICAL SPRAY CLINIC INCLUDE:

- Adjuvant usage
- Calibration and cleaning
- Drift and droplet size
- Nozzle attributes & selection
- Environmental factors
- and much more...

Visit winfieldunited.ca/en/agronomy/spray-clinics to request a spray clinic.



ADJUVANTS

Specially formulated and rigorously tested, WinField United 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

CROP PROTECTION PRODUCTS

ADJUVANTS

AVAILABILITY

WEST



EAST



		RECOMMENDED ADJUVANT			Notes
Brand Name	Active Ingredient	HiActivate [®] by WinField UNITED	Destination [™] MSO by WinField UNITED	Journey [™] HSOC by WinField UNITED	
ACCENT	Nicosulfuron	0.2% v/v			
AIM EC	Carfentrazone				Requires a surfactant when used without glyphosate. Use Agral [®] 90 or Ag-Surf at 0.25% v/v or Merge [®] at 1% v/v. Research ongoing with WinField United.
ALLY	Metsulfuron	0.2% v/v			
AMITY	Imazamox				Not Registered with WinField United Adjuvants. Use Surge [™] at 0.5% v/v.
ANTLER 360 UNPACKED	Clethodim		0.5% v/v	or 0.5% v/v	
ARMORY 240	Diquat				Requires a surfactant. Use Agral 90 at 0.1% v/v.
BARRICADE	Thifensulfuron Tribenuron Fluroxypyr	0.2% v/v			
BATALIUM	Flucarbazone Fluroxypyr MCPA Bromoxynil	0.25% v/v			
BISON 400 L	Tralkoxydim		0.5% v/v		
BOUNDARY	S-Metolachlor Metribuzin	0.1% v/v			
BROADLOOM	Bentazon				WinField United Adjuvants not yet registered. Recommendations vary by crop type. See product label for details.
CADILLAC UNPACKED	Clodinafop			0.5% v/v	
CALLISTO	Mesotrione Glyphosate	0.2% v/v			
CALLISTO GT	Mesotrione				Surfactant required. Use Agral 90 at 0.2% v/v in post-emergent applications.
CIRPREME XC	Florasulam Halauxifen Clopyralid	0.25% v/v			Not required if adding phenoxy.
CLASSIC	Chlorimuron	0.2% v/v			
COMMAND CHARGE	Clomazone Carfentrazone				Requires a surfactant when used without glyphosate. Use Agral 90 or Ag-Surf at 0.25% v/v or Merge at 1% v/v. Research ongoing with WinField United.
CORAGEN	Chlorantraniliprole		0.25% v/v		Does not require a surfactant for labeled insects.
CRAVEN	Diquat	0.1% v/v			
DAVAI 80 SL	Imazamox		0.5% v/v		
DESTRA IS	Rimsulfuron Mesotrione	0.2% v/v			Not required when tank mixed with glyphosate.
DRIFAST	Diquat				Requires a surfactant. Use Agral 90 or NuFarm Enhance at 0.1% v/v.
ENGARDE	Rimsulfuron Mesotrione	0.2% v/v			
ELEVORE	Halauxifen		0.5%-1% v/v	or 0.5% v/v	
EPIC	Pinoxaden				Requires a surfactant. Research ongoing with WinField United. Use Adigor, Merge or Carrier at 0.5% v/v.
EVEREST 3.0	Flucarbazone	0.25% v/v			
FIERCE	Flumioxazin Pyroxasulfone	0.25% v/v			Use adjuvants only with dry formulation when applied alone.
FIRSTRATE	Cloransulam	0.25% v/v			For post-emergent applications only. HiActivate + liquid fertilizer (28-0-0 or 32-0-0) at 2.5% v/v.
FLEXSTAR GT	Glyphosate Fomesafen				Under stressful conditions add Turbocharge [®] adjuvant 0.25% v/v. Do not add AMS.
FREESTYLE	Chlorimuron Imazethapyr	0.2% v/v			Not required when tank mixed with glyphosate.
HALEX GT	Mesotrione S-Metolachlor Glyphosate	0.2% v/v			
HOLDFAST	Prothioconazole	0.125% v/v			Add HiActivate for more consistent performance.
HORNET	Tebuconazole				Use a non-ionic surfactant.
HURRICANE	Bentazon Acifluorfen				To achieve consistent weed control an additive is recommended. See label for full instructions.
74 INFERNO TRIO	Flucarbazone Florasulam Carfentrazone	0.25% v/v			Requires a surfactant when used without glyphosate.

Brand Name	Active Ingredient	RECOMMENDED ADJUVANT					Notes
		HiActivate [®] <small>by WINFIELD UNITED</small>		Destination [™] MSO <small>by WINFIELD UNITED</small>		Journey [™] HSOC <small>by WINFIELD UNITED</small>	
LADDER 240 EC	Clodinafop					0.5% v/v	
LEOPARD	Quizalofop	0.25% v/v	or	0.5% v/v	or	0.5% v/v	
LIQUID ACHIEVE	Tralkoxydim			0.5% v/v			
MARSHALL UNPACKED	Quizalofop	0.25% v/v	or	0.5% v/v	or	0.5% v/v	
MIRAVIS ACE	Pydiflumetofen Propiconazole	0.125% v/v					
MIRAVIS BOLD	Pydiflumetofen	0.125% v/v					
NUFARM TRALKOXYDIM	Tralkoxydim			0.5% v/v			
ORIOUS 430 SC	Tebuconazole	0.125% v/v					
PEAK	Prosulfuron	0.2% v/v					
PERMIT	Halosulfuron	0.25% v/v					
PHANTOM 240 SL	Imazethapyr	0.25% v/v					
PINNACLE	Thifensulfuron	0.1% v/v					
PRECISIONPAC	PP-2525 PP-23235 PP-3317	0.2% v/v					
	CS-100-2525 CS-75-2525 CS-100-23235 CS-75-23235 CS-100-12 CS-75-12	0.25% v/v					
	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% v/v					With glyphosate tank mix.
PYTHON	Imazamox Bentazon			0.5% v/v			Plus Crimson [®] NG at 0.81 L/acre.
QUASAR	Imazamox Imazethapyr			0.5% v/v			
REFINE	Thifensulfuron Tribenuron	0.2% v/v	or	0.25% v/v			
REFLEX	Fomesafen						Surfactant required. Use Agral 90 at 0.1% v/v. Use Turbocharge at 0.25% v/v. Eastern Canada soybeans only.
REGLONE	Diquat	0.1% v/v					
SANDEA	Halosulfuron	0.25% v/v					
SHIELDEX	Tolpyralate	1% v/v	or	1% v/v			
SIERRA 3.0	Flucarbazone	0.25% v/v					
SIGNAL	Clodinafop						Requires a surfactant. Use Enhance or Carrier at 0.25-0.32% v/v.
SIMPLICITY GODRI	Pyroxsulam						Add a non-ionic surfactant containing NPE such as Agral 90 at 0.25% v/v.
SORTAN IS	Rimsulfuron	0.2% v/v					Not required when tank mixed with glyphosate.
SQUADRON 75 DF	Metribuzin	0.1% v/v					Pre-seed only. Do not add surfactants in post-emergent applications.
SQUADRON II	Metribuzin	0.1% v/v					Pre-seed only. Do not add surfactants in post-emergent applications.
STATUE	Clethodim						Requires a surfactant. Use Carrier at 0.5% v/v.
STEADFAST IS	Rimsulfuron Nicosulfuron	0.2% v/v					Not required when tank mixed with glyphosate.
STRIM MTZ	Metribuzin S-Metolachlor	0.1% v/v					Pre-seed only. Do not add surfactants in post-emergent applications.
TAVIUM	S-Metolachlor Dicamba						Use Dialed-In [®] with EC or UC nozzles.
ULTIM	Rimsulfuron Nicosulfuron	0.2% v/v					
ULTRA BLAZER	Acifluorfen						Adjuvant only required with 0.5 L/acre rate of Ultra Blazer applied alone. Use Assist Oil Concentrate at 0.5% v/v.
VALTERA	Flumioxazin	0.25% v/v	or	1 L/acre			Use adjuvants only with dry formulation when applied alone.
YUMA	Quizalofop	0.25%-0.5% v/v	or	0.5%-1% v/v	or	0.5%-0.1% v/v	



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.



COMMON USE RATE

0.1-0.25% v/v



PACKAGING

2 x 10 L jugs/case

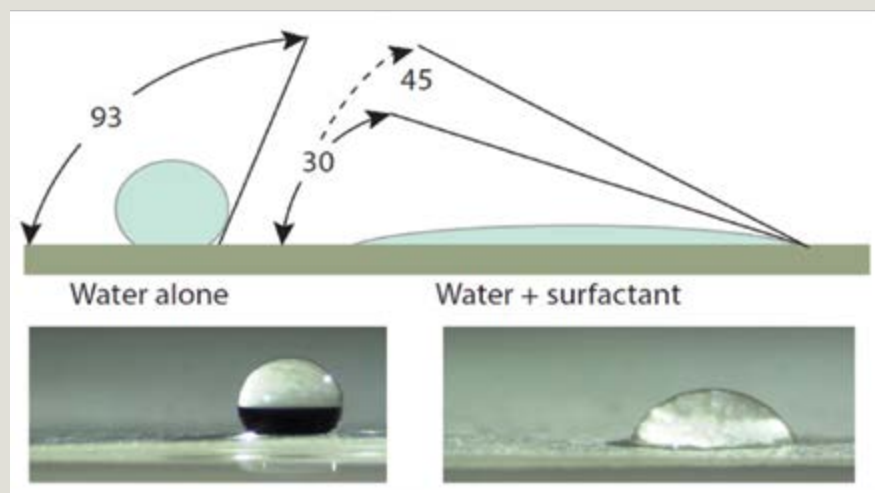


ACTIVE INGREDIENT

90/10 Alkylaryl polyoxyethylene glycols, free fatty acids & IPA

Surfactants are typically added to the spray mix last.

HIACTIVATE REDUCES SURFACE TENSION FOR MAXIMUM EFFICACY



Destination™ MSO

By WINFIELD
UNITED

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

FEATURES & BENEFITS

- Destination MSO is used to help break down waxy leaf surfaces to allow greater pesticide uptake.
- 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. 1.0% v/v is typically recommended under extreme environmental conditions.



COMMON USE RATE

0.5% v/v



PACKAGING

2 x 10 L jugs/case



ACTIVE INGREDIENT

Blend of methylated soybean oil and emulsifiers



Journey[®] HSOC

By WINFIELD UNITED

Journey[®] HSOC adjuvant contains methylated seed oil (MSO) and proprietary MAX-IN™ Technology. This unique combination allows for increased pesticide uptake and effectiveness.

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

Journey has 3 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 mixes.
- Use Journey HSOC where MSOs are required.
- PMRA approved activator adjuvant.



COMMON USE RATE

0.5% v/v



PACKAGING

2 x 10 L jugs/case



ACTIVE INGREDIENT

50% MSO, 50% MAX-IN Technology

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

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 gal/acre do not apply Journey HSOC at less than 0.19 L/acre.

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. A concentrated 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.
- Highly concentrated, meaning less volume to handle.
- 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 calcium, iron, potassium, sodium, and magnesium ions that tie up (antagonize) herbicide active ingredients 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 & agitate spray solution prior to adding glyphosate or other herbicides



PACKAGING

2 x 10 L jugs/case
450 L tote



ACTIVE INGREDIENT

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

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

InterLock®

By WINFIELD
UNITED

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



FEATURES & BENEFITS

- Improves deposition of the spray application onto the intended target.
- Reduces fine particles in spray pattern without thickening the spray or increasing the number of large undesirable sized droplets.
- Improves spray droplet coverage and reduces drift and evaporation of pesticides.
- For use with both ground and aerial applications.



COMMON USE RATE

80-120 mL/acre
(80-120 acres/jug)



APPLICATION GUIDE

Multiple crop stages



PACKAGING

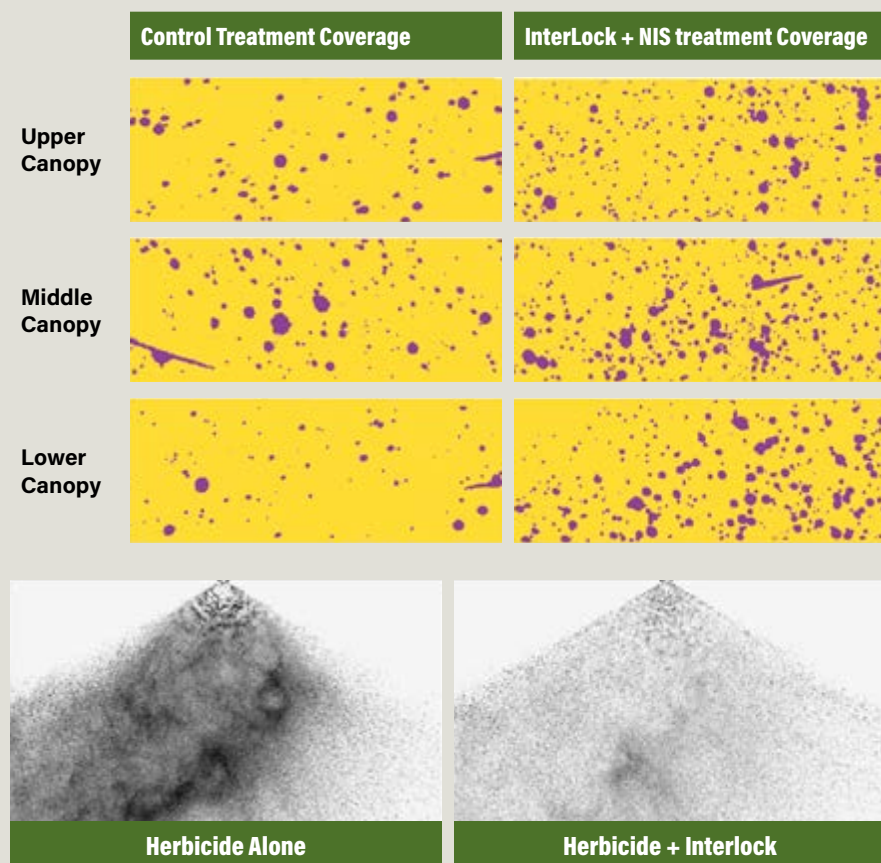
2 x 10 L jugs/case
450 L tote



ACTIVE INGREDIENT

100% Modified vegetable oil and emulsifiers

VERSATILE DRIFT REDUCTION AND DEPOSITION



InterLock is typically applied at 100 acres/jug. Always add InterLock to the spray tank last.



domore.ag



Now is the time we change the conversation about mental health
#ItStartsWithMe



The Do More Agriculture Foundation

InterLock[®]
By WINFIELD UNITED

There is only one InterLock!

Lock down your spray investment

InterLock[®] adjuvant is a deposition aid and drift control agent that improves spray pattern and reduces spray drift. InterLock adjuvant works effectively with herbicides, fungicides, insecticides and desiccants.

A good deposition and drift adjuvant should...

- | | |
|-------------------------------|---------------------------------|
| ✓ Reduce drift | ✓ Maintain spray pattern |
| ✓ Increase deposition | ✓ Mix easily |
| ✓ Increase canopy penetration | ✓ Support pesticide performance |
| ✓ Work with all spray nozzles | |

A good deposition and drift adjuvant should not...

- | | |
|--|-----------------------------------|
| ✗ Reduce coverage (too large droplets) | ✗ Collapse spray pattern |
| ✗ Compromise pesticide performance | ✗ Only work with specific nozzles |
| ✗ Gum spray nozzles | ✗ Require special mixing |

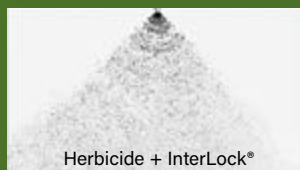
Spray comparison wind - AIXR TeeJet[®]



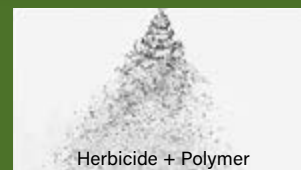
Water Alone



Herbicide Alone



Herbicide + InterLock[®]



Herbicide + Polymer

Looking to reduce drift by decreasing droplet fines without causing nozzle spray pattern collapse?



FUNGICIDES

**Protect your plants (and your bottom line).
Don't let fungal diseases limit your yield
quality or potential. Get broad-spectrum
control of both soilborne and foliar crop
diseases, rigorously tested in fields just
like yours.**

Holdfast™

By WINFIELD UNITED

ACTIVE Prothioconazole

Optimize yield potential of CROPLAN® canola, corn and soybeans with Holdfast™. Holdfast is a broad-spectrum systemic fungicide for the control or suppression of many diseases with flexible adjuvant selection based on water volume. **Adjuvant sold separately.**

FEATURES & BENEFITS

- Holdfast is registered to suppress fusarium & gibberella ear rot and stalk rot pathogens in corn. Because of its activity on ear rot, Holdfast effectively reduces DON levels.
- High humidity in a lush canola canopy can contribute to sclerotia development. Choose Holdfast for reliable sclerotinia control.
- Holdfast may be tank mixed with an approved adjuvant such as HiActivate® to improve sticking and spreading properties. Add InterLock® for maximum canopy deposition.

Application Rates

For best results use Holdfast at 128 mL/acre

1 jug treats 40 acres | 1 case treats 80 acres | HiActivate may be added at 0.125% v/v

Spray screens should be no finer than 50 micron mesh

Adjuvant Rates

- HiActivate at 0.125% v/v
- InterLock at 100 acres/jug

Minimum Water Volume

- Ground application 10-15 US gal/acre
- Aerial application 4.5-5 US gal/acre

Rainfast

- 1 hour

Higher spray volumes are recommended where the crop is dense or disease pressure/risk is high to ensure good canopy penetration. Use high water volumes and InterLock to maximize spray coverage.



FOR USE ON

Canola, Corn, Soybeans, Sunflower, Cereal Crops and more.



COMMON USE RATE

40 acres/jug
80 acres/case



RECOMMENDED ADJUVANT

HiActivate - 0.125% v/v



PACKAGING

2 x 5.1 L jugs/case



ACTIVE INGREDIENT

Prothioconazole 480 g/L



FUNGICIDE GROUP

Group 3

Spray coverage is essential for optimum efficacy. Utilize high water volumes + InterLock for maximum spray deposition.

KEY DISEASES AND APPLICATION TIMING

Crop	Disease	Rate	Application Timing
Canola	Sclerotinia	128-140 mL/acre (35-40 acres/jug) + adjuvant**	20-50% bloom, prior to petal fall. Use higher rate if history of heavy disease pressure or dense crop stand.
Sunflower	Sclerotinia	170 mL/acre (30 acres/jug) + adjuvant**	10-50% disk flower bloom.
Corn*	Rusts, eyespot and northern blight	128 mL/acre (40 acres/jug) + adjuvant	Apply as a preventative foliar spray when the earliest disease symptoms appear on the leaves and stems.
	Grey leaf spot, plus suppression of fusarium and gibberella ear rots, stalk rot pathogens	170 mL/acre (30 acres/jug) + adjuvant	Silking (Early R1, BBCH 63) to silk browning (R3, BBCH 67).
Soybean	Frogeye leaf spot and Asian soybean rust	85 mL/acre (60 acres/jug) + adjuvant**	R1-R5 when first disease symptoms are found or when risk of infection is imminent. R2-R3 or at onset of pod formation is optimal.
Chickpeas	Ascochyta blight	128-170 mL/acre (30-40 acres/jug) + adjuvant**	At first sign of disease. Maximum 3 applications per year.
Lentils	Ascochyta blight, white mold	128-170 mL/acre (30-40 acres/jug) + adjuvant**	Beginning of flowering or at the first sign of disease. Maximum 2 applications per year.
Barley	Net blotch, scald, spot blotch	85-128 mL/acre (40-60 acres/jug) + adjuvant	Apply as a preventative foliar spray when the earliest disease symptoms appear on leaves and stems.
	Suppression of fusarium head blight	128-170 mL/acre (30-40 acres/jug) + adjuvant	70-100% of barley heads on the main stem are fully emerged to 3 days after full head emergence.
Wheat (spring, durum and winter)	Septoria leaf blotch, tan spot, leaf blotch	128 mL/acre (40 acres/jug) + adjuvant	Apply as a preventative foliar spray when the earliest disease symptoms appear on leaves and stems.
	Glume blotch, plus suppression of fusarium head blight	128-170 mL/acre (30-40 acres/jug) + adjuvant	At least 75% of heads on the main stem are fully emerged to when 50% of heads of the main stem are in flower.
Oats	Crown rust	128 mL/acre (40 acres/jug) + adjuvant	Apply as a preventative foliar spray when the earliest disease symptoms appear on the leaves and stems.

*Do not apply a non-ionic surfactant with Holdfast prior to tassel emergence as crop injury may occur.

**The lowest labeled rate of a non-ionic surfactant may be tank-mixed with Holdfast. Use HiActivate at 0.125% v/v.



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 postharvest 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

Potatoes and many other specialty crops.



COMMON USE RATE

2-4 L/acre



PACKAGING

2 x 10 L jugs/case
1000 L tote



ACTIVE INGREDIENT

Mono- and di-potassium salts of phosphorus acid 53% Other ingredients 47%



FUNGICIDE GROUP

Group 33



NEW FOR 2022

MasterLock^{®*}

BY WINFIELD UNITED CANADA

COMING SOON
to an Independent
Retailer near you!

*This product is currently being assessed for registration under the Pest Control Products Act. It cannot be manufactured, imported, distributed, or used in Canada at this time, unless explicit authorization has been obtained from Health Canada to use this product for the purpose of conducting research under the Pest Control Product Regulations.





HERBICIDES

Give your crops the edge they need over weeds with WinField United'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.

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 liter.

Adjuvant sold separately.



FEATURES & BENEFITS

- The most unique clethodim formulation 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 oat, volunteer corn and volunteer cereals.



FOR USE ON

Most broadleaf crops including Canola, Pulse Crops, Soybeans 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

Application Timing

Most crops are tolerant at a wide range of stages, so target applications at the optimum weed stage. See label for more information.

Application Rates

For best results use Antler 360 Unpacked at 50 mL/acre

1 jug treats 80 acres | 1 case treats 320 acres | add Journey HSOC at 0.5% v/v

Adjuvant Rates

- Journey HSOC at 0.5% v/v
- InterLock® at 100 acres/jug

Top Tank Mixes

- On glufosinate tolerant canola tankmix Antler 360 Unpacked with Justice™ glufosinate
- Mixing order: Antler 360 Unpacked, Justice glufosinate, Journey HSOC, InterLock

Minimum Water Volume

- Ground application 6 US gal/acre
- Aerial application 3 US gal/acre

Rainfast

- 1 hour, rainfast is typically limited by tank mix partners

Clethodim 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	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 dandel, crabgrass (smooth and large), Quackgrass (suppression 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 chickpeas or common beans

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 liter. Antler 360 Unpacked has 360 grams of clethodim per liter. Antler 240 and most other clethodim products contain 240 grams of clethodim per liter.

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.

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 oat, volunteer corn and volunteer cereals.
- Antler 240 can be tank mixed with a wide range of broadleaf tank mix options, including Liberty® and Justice™ to provide broad spectrum weed control.



FOR USE ON

Most broadleaf crops including Canola, Pulse Crops, Soybeans and more.

Application Timing

Most crops are tolerant at a wide range of stages, so target applications at the optimum weed stage. See label for more information.

WEEDS CONTROLLED

Key Weeds	Leaf Stage	Rate
Wild oats, volunteer cereals (wheat, barley, oats), green and yellow foxtail	2-4 leaf	50 mL/acre (60 acres/case)
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 dandel, crabgrass (smooth and large). Quackgrass (suppression only)	2-6 leaf	75 mL/acre (40 acres/case)
Quackgrass	2-6 leaf	150 mL/acre (20 acres/case)

Application Rates

For best results use Antler 240 at 75 mL/acre

1 case treats 40 acres | Journey HSOC included in case

Adjuvant Rates

- Journey HSOC included in case
- InterLock® at 100 acres/jug

Minimum Water Volume

- Ground application 6 US gal/acre

Rainfast

- 1 hour, rainfast is typically limited by tank mix partners



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

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.

Marshall® UNPACKED

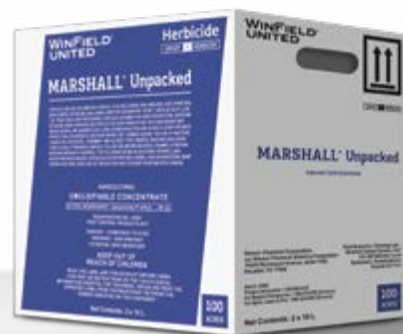
By WINFIELD UNITED

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 Justice™ in LibertyLink® canola or with Stonewall® 540 in Roundup Ready® canola and soybeans.
- Marshall Unpacked requires an adjuvant for maximum effectiveness.** ALWAYS tank mix with an approved adjuvant such as Journey® HSOC, Destination™ MSO, or HiActivate® for suitable 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, Soybeans, Flax and more.

Application Timing

Most crops are tolerant at a wide range of stages, so target applications at the optimum weed stage. See label for more information.

WEEDS CONTROLLED

Key Weeds	Leaf Stage	Rate
Green foxtail, volunteer barley, corn, oats* and wheat	2 leaf to early tiller	0.15 L/acre
Wild Oats	1-5 leaf without tillers	(67 acres/jug) + adjuvant
Wild Oats*	1-5 leaf to early tillering (up to 2 tillers)	
Barnyard grass, fall panicum, old witchgrass, proso millet and yellow foxtail	2 leaf to early tillering	0.2 L/acre (50 acres/jug) + adjuvant
Foxtail barley	3 leaf to 4 leaf + tillers	
Japanese and downey brome	2-5 leaf	
Quackgrass (suppression only)	2-6 leaf	
Quackgrass	2-6 leaf	0.3 L/acre (33 acres/jug) + adjuvant

*For best results on volunteer/wild oats time application prior to tillering

Application Rates

For best results use Marshall Unpacked at 200 mL/acre

1 jug treats 50 acres | 1 case treats 100 acres | Add a registered adjuvant

Adjuvant Rates (select one of the following)

- Journey HSOC at 0.5% v/v
- Destination MSO 0.5-1% v/v
- HiActivate 0.25-0.5% v/v

Minimum Water Volume

- Ground application 10 US gal/acre
- Aerial application 3 US gal/acre

Rainfast

- 1 hour



COMMON USE RATE

50 acres/jug
100 acres/case



RECOMMENDED ADJUVANT

Journey HSOC - 0.5% v/v
Destination MSO - 0.5-1% v/v
HiActivate - 0.25-0.5% v/v



PACKAGING

2 x 10 L jugs/case



ACTIVE INGREDIENT

Quizalofop 96 g/L



HERBICIDE GROUP

Group 1

Facing tough growing conditions or larger than desired weed size/stage? Choose an MSO based adjuvant like Journey HSOC or Destination MSO over a non-ionic surfactant for superior performance.

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 the perfect 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.



FOR USE ON

Spring Wheat, Durum



CROP STAGING

Prior to the emergence of the 4th 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

WEEDS CONTROLLED

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

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

- Journey HSOC 0.5% v/v
- InterLock® at 100 acres/jug

Minimum Water Volume

- Ground application 5 US gal/acre
- Aerial application 3 US gal/acre

Rainfast

- 30 minutes, rainfast is typically limited by tank mix partners

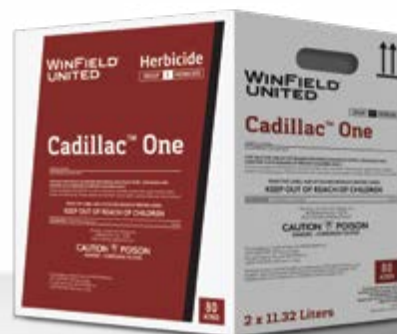
Group 1 herbicides cause meristem damage to target weeds. The newest leaf of affected grasses can be easily pulled from the crown.

Cadillac™ One

By WINFIELD UNITED

ACTIVE Clodinafop

Cadillac™ One delivers superior 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.



FOR USE ON

Spring Wheat, Durum



CROP STAGING

Prior to the emergence of the 4th tiller.

WEEDS CONTROLLED

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

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® at 100 acres/jug

Minimum Water Volume

- Ground application 5 US gal/acre
- Aerial application 3 US gal/acre

Rainfast

- 30 minutes, rainfast is typically limited by tank mix partners



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

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

Justice™

By WINFIELD
UNITED

ACTIVE Glufosinate

Justice™ glufosinate delivers strong weed control along with other user friendly and crop safety benefits. Tank-mix Justice with Crimson® NG and InterLock® to combat issues with hard water and deliver Justice effectively to the weeds you are targeting.

FEATURES & BENEFITS

- Glufosinate is contact herbicide, which means coverage is the key to success. Tank-mix with InterLock to improve coverage and canopy deposition.
- Glufosinate can be deactivated by hard water sources. Tank-mix with Crimson NG or other AMS brands to prevent issues caused by hard water.
- New user-friendly formulation with improved flowability, and has been tested for consistent crop safety in various environmental conditions.
- Tank-mixes with Antler® brands and Marshall® Unpacked for enhanced grassy weed control.

Application Rates

For best results, use Justice at 1.35-1.62 L/acre plus Crimson NG at up to 2.5% v/v.

67-80 acres/drum; 308-370 acres/tote

Early application at 1.35 or 1.62 L/acre may be followed by a second application.

Do not apply more than 2.97 L/acre of Justice in a single season.

Adjuvant Rates

- Crimson NG up to 2.5% v/v
- InterLock at 100 acres/jug

Minimum Water Volume

- Ground application 10 US gal/acre
- Aerial application 6 US gal/acre

Rainfast

- 4 hours



FOR USE ON

Glufosinate-tolerant
Canola



CROP STAGING

Cotyledon – just prior
to bolting



COMMON USE RATE

80 acres/drum
370 acres/tote



PACKAGING

108 L drum
500 L tote



ACTIVE INGREDIENT

Glufosinate 150 g/L



HERBICIDE GROUP

Group 10

For optimum performance, apply Justice on warm and sunny days. Add Crimson NG to overcome antagonism caused by hard water.

RECOMMENDED RATES

Key Weeds	Leaf Stage	Rate
Barnyard Grass	1-4 leaf	1.35 L/acre
Canada Thistle ¹	Up to 10 cm height	
Cleavers	1-2 whorls	
Common Chickweed	1-4 leaf pairs	
Cow Cockle	1-4 leaf	
Dandelion	Up to 15 cm rosette	
Flixweed	Up to 10 cm height	
Green Foxtail	1-6 leaf, 3 tillers	
Hemp-nettle	1-4 leaf pairs	
Kochia	Up to 8 cm height	
Lady's-thumb	1-6 leaf	
Lamb's-quarters	1-6 leaf	
Perennial Sow Thistle	1-8 leaf	
Quackgrass ³	1-4 leaf	
Redroot Pigweed	1-4 leaf	
Round-leaved Mallow	1-4 leaf	
Russian Thistle	Up to 8 cm height	
Scentless Chamomile	Up to 10 cm height	
Shepherd's-purse	1-6 leaf	
Smartweed	1-6 leaf	
Stinkweed	1-8 leaf	
Stork's-bill	1-3 leaf	
Volunteer Barley ²	1-4 leaf, 2 tillers	
Volunteer Flax	Up to 6 cm height	
Volunteer Wheat	1-4 leaf, 2 tillers	
Wild Buckwheat	1-3 leaf	
Wild Mustard	1-5 leaf	
Wild Oats	1-4 leaf, 2 tillers	
Canada Thistle ⁴	Up to 10 cm height	1.62 L/acre
Quackgrass ⁵	1-4 leaf	

¹ Top Growth Suppression Only² Suppression Only³ Improved Top Growth Control⁴ Better Top Growth Suppression⁵ Season Long Control for Heavy Populations

Starbuck™

By WINFIELD UNITED

ACTIVE Bromoxynil

Starbuck™ provides tough broadleaf weed control with flexible tank mix options and excellent crop safety.

FEATURES & BENEFITS

- Starbuck provides tough broadleaf weed control with flexible use patterns and excellent crop safety.
- Strong control of buckwheat, velvetleaf, common ragweed, common groundsel and lamb's-quarters.
- Compatible with a wide range of graminicides and broadleaf tank mix options for broad spectrum weed control.



FOR USE ON

Spring Wheat, Winter Wheat, Barley, Oats, Fall Rye, Flax, Corn and more.

Application Timing

Apply to spring cereal crops from 2-leaf stage until early flag leaf. Apply to winter wheat in the fall from 2-4 leaf stage, and in spring from growth initiation to early flag. See label for more information.

Apply to corn from 4-8 leaf stage.

Pre-seed application in wheat, barley and oats – add Starbuck at 485 mL/acre (20 acres/jug) tank-mixed with Stonewall® 540 at 0.33 L/acre and HiActivate® at 0.5% v/v.

WEEDS CONTROLLED

Key Weeds	Staging
Wild mustard, cow cockle, green smartweed, pale smartweed, lady's thumb, stinkweed, cocklebur, pigweed, common ragweed, velvetleaf*, bluebur, American nightshade	Seedling to 4-leaf
Kochia, Russian thistle	Prior to 2" in height
Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters	Seedling to 8-leaf
*prior to 3" in height	

Application Rates

For best results use Starbuck at 485-570 mL/acre

1 jug treats 17-20 acres | 1 case treats 34-40 acres | 1 drum treats 200-240 acres

Use higher rate in adverse growing conditions or with advanced weed staging.

Adjuvant Rates

- InterLock® at 100 acres/jug

Minimum Water Volume

- Ground application 10 US gal/acre
- Aerial application (wheat and barley only) 3 US gal/acre

Rainfast

- 30 minutes, rainfast is typically limited by tank mix partners



COMMON USE RATE

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



PACKAGING

2 x 9.7 L jugs/case
115 L drum



ACTIVE INGREDIENT

Bromoxynil 240 g/L



HERBICIDE GROUP

Group 6

Did you know Starbuck is a contact herbicide, and coverage is critical for adequate control? Use 10 gallons of water + InterLock for maximum product deposition.

Stonewall® 540

By **WINFIELD UNITED**

ACTIVE Glyphosate

Unsurpassed grass and broadleaf weed control in glyphosate tolerant crops.

FEATURES & BENEFITS

- Stonewall® 540 is a post-emergent, non-selective herbicide that is absorbed and translocated through weeds for “shoots-to-roots” control.
- Stonewall 540 controls more than 100 annual and perennial weeds and includes versatile use patterns including in-crop applications in Roundup Ready® and TruFlex™ Canola crops, as well as pre-seed, pre-harvest, and post-harvest applications.
- Hard water can reduce the activity of glyphosate. Test your water and add Crimson® NG to reduce the effects of hard water.



FOR USE ON

Glyphosate tolerant: Corn, Canola, Soybeans, Sugarbeets. Plus pre-seed, pre-harvest, post-harvest, chemfallow and vegetation management.

For pre-harvest applications visit www.keepingitclean.ca and observe appropriate pre-harvest intervals.

Application Timing

Varies by crop type, see label for more information.

WEEDS CONTROLLED

Ensure appropriate rate is selected based on weed type and weed stage.

Alfalfa, Annual Sow Thistle, Barnyard Grass, Canada Fleabane, Canada Thistle, Chickweed, Cleavers, Corn Spurry, Cow Cockle, Crabgrass, Curled Dock, Dandelion, Downy Brome, Field Bindweed, Flixweed, Foxtail Barley, Green Foxtail, Green Smartweed, Hemp Nettle, Japanese Knotweed, Kochia (non-glyphosate resistant biotypes), Lady's Thumb, Lamb's-Quarters, Narrow-leaved Hawk's Beard, Night Flowering Catchfly, Perennial Sow Thistle, Persian Darnel, Prickly Lettuce, Quackgrass, Ragweed, Redroot Pigweed, Round-leaved Mallow, Russian Thistle, Shepherd's Purse, Smooth Bromegrass, Smooth Pigweed, Stinkweed, Stork's Bill, Velvetleaf, Volunteer Canola, Volunteer Cereals, Volunteer Flax, Volunteer Mustard, Wild Mustard, Wild Buckwheat, Wild Mustard, Wormwood

Application Rates

0.2-3.2 L/acre. Select rate based on weed species and stage based on registered use pattern.

Adjuvant Rates

- Crimson NG for hard water
- InterLock® at 100 acres/jug

Minimum Water Volume

- Ground application 5 US gal/acre
- Aerial application 2 US gal/acre*

Rainfast

- 1 hour

*Do not apply by air except for pre-harvest aerial application.



COMMON USE RATE

Varies based on crop and weed stage.



PACKAGING

2 x 10 L jugs/case
115 L drum
500L, 800L, 1000L tote



ACTIVE INGREDIENT

Glyphosate (K+) 540 g/L



HERBICIDE GROUP

Group 9

Always tank mix with multiple modes of action targeted at the most troublesome weeds or those most prone to herbicide resistance.

Craven®

By WINFIELD
UNITED

ACTIVE Diquat

Craven® provides control over harvest timing by providing fast drydown of crops. Craven desiccant can be used across many crops, including those grown for seed production.

FEATURES & BENEFITS

- Craven helps facilitate direct combining of many crops including lentils, peas and canola. Depending on weather conditions, harvest of most crops may begin 4-10 days following application.
- Craven requires an adjuvant for maximum effectiveness. **ALWAYS** tank mix with an approved adjuvant such as HiActivate® to deliver full performance, unless otherwise stated.
- Always follow the appropriate pre-harvest interval. Visit www.keepingitclean.ca for the most up to date recommendations.

Adjuvant Rates

- HiActivate at 0.1% v/v
- InterLock at 100 acres/jug

Minimum Water Volume

- Ground application 24 US gal/acre, 58 US gal/acre for potatoes
- Aerial application 5 US gal/acre

Rainfast

- 15 minutes



COMMON USE RATE

14 acres/jug
160 acres/drum
650 acres/tote



RECOMMENDED ADJUVANT

HiActivate - 0.1% v/v



PACKAGING

2 x 10 L jug/case
115 L drum
450 L tote



ACTIVE INGREDIENT

Diquat 240 g/L



HERBICIDE GROUP

Group 22

For optimum performance, apply Craven on cloudy days or prior to periods of darkness. Add InterLock® for maximum coverage and canopy penetration.

CROP STAGING AND APPLICATION RATES

Crop	Stage	Craven Rate (L/acre)	
		Ground	Aerial
Soybean & Dry Bean (white & red kidney, adzuki)	Crop has lost 80-90% of leaves, and 80% of pods have turned yellow.	0.5-0.69	0.69-0.93
Canola	> 90% seeds turned brown	0.5-0.69	0.69-0.93
Chickpea*	Plants have yellowed, pods matured, seeds changed color and detached from pods	0.5-0.69	0.69-0.93
Flax	75% of bolls turned brown	0.5-0.69	0.69-0.93
Fababean	Plants are ripe and dry. Pods are fully filled and bottom pods are black or tan in color	0.5-0.69	0.69-0.93
Lentil	Lowest pods are light brown and rattle when shaken	0.5-0.69	0.69-0.93
Mustard (condiment type only)	75% seed colour change	0.5-0.69	0.69-0.93
Peas (field or dry)	Bottom pods are ripe and dry, seeds detached from pods. Seed in less mature pods will split when squeezed	0.5-0.69	0.69-0.93
Sunflower	Back of the head is yellow and bracts are brown to the shoulder (20-50% moisture in seed and hull)	0.5-0.69	0.69-0.93
Potatoes (top growth mature and few weeds)	Two weeks prior to harvest	0.5	Requires 2 Passes
Potatoes (some top growth and/or some weeds)		0.69-0.93**	Pass 1: 0.69-0.93**
Potatoes (dense crop, heavy weed infestations)		1.42**	Pass 2: 0.5 (4-5 days after Pass 1)
Forage Legumes for seed production (alfalfa, birdsfoot trefoil, red & white clover)	Majority of the pods are ripe, but prior to shatter	0.69-1.1	0.69-1.0

*Do not exceed 0.69 L/acre

**DO NOT use adjuvant on potatoes except at the 0.5 L/acre ground application rate

Use high rates for dense crops and/or heavy weed infestations. Use of high rates for canola and chickpeas is recommended.





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.

MAX-IN™

By WINFIELD UNITED

Foliar Micronutrient 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.

MAX-IN™ for Beans

By WINFIELD UNITED

MAX-IN for Beans is an effective foliar-applied source of boron, iron, manganese, molybdenum and zinc for increased bean plant strength and production.



COMMON USE RATE

Most crops:
1.13-2.26 L/acre



PACKAGING

2 x 10 L jugs/case



APPLICATION GUIDE

Foliar
V3-R2



ACTIVE INGREDIENTS

2.0% Nitrogen
0.2% Boron
0.3% Iron
3.2% Manganese
2.1% Zinc



MAX-IN™ Boron

By WINFIELD UNITED

Boron is essential for nitrogen (N) metabolism, and optimal flowering and fruiting. It increases cell division and differentiation, nodulation health in legumes, and the movement of sugars and carbohydrates in the plant. MAX-IN Boron micronutrient helps plants absorb boron for crop production.



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
Soybeans: V3-R1



ACTIVE INGREDIENT

8.0% Boron



MAX-IN™ Copper

By WINFIELD UNITED

Copper helps activate several enzyme systems and cannot be replaced by other metal ions. It is involved in cell wall formation and is necessary for protein synthesis. Copper deficiency causes a buildup of soluble nitrogen (N) compounds. Essential for pollination and pollen tube formation, 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

Wheat: Between tillering
and early joint
Corn: V3-V8



ACTIVE INGREDIENT

5.0% Copper



MAX-IN™ Ultra Manganese

By WINFIELD UNITED

Manganese is essential for photosynthesis in all plants and is especially important in legumes. It increases nitrogen (N) 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



MAX-IN™ Ultra ZMB®

By WINFIELD UNITED

MAX-IN ZMB contains a mix of zinc, manganese and boron into one 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

Corn: V3-V8
Canola: 5 leaves-30% bloom
Cereals: Tillering-early jointing
Soybeans: V3-R1



PACKAGING

2 x 10 L jugs/case
450 L tote



APPLICATION GUIDE

Foliar
Soybeans: V3-V5



ACTIVE INGREDIENTS

4.0% Zinc
3.0% Manganese
0.12% Boron



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

Ascend® SL

By WINFIELD
UNITED

CFIA Registered Plant Growth Regulator

Ascend® SL (soluble liquid) plant growth regulator (PGR) contains an optimal combination of three plant growth regulators, which can result in vigorous early plant germination and emergence, a robust root system, larger leaves and wider stems. The product can be applied as a seed treatment, in-furrow or as a foliar application.



FEATURES & BENEFITS

- Cytokinin promotes cell division and leaf expansion.
- Gibberellic acid stimulates cell division and elongation in leaves and stems.
- Indolebutyric acid stimulates root formation and development, and increases cell elongation.

3 YEAR YIELD RESULTS OF ASCEND SL ON CORN

	Sites (% positive response)	Number of Locations	Yield Response (bu/acre)
3 Yr Average	60.5	199	5.85

Answer Plot® Data 2012-2015

GERMINATION RESULTS WITH ASCEND SL



10-34-0 + Citri-Che® Zinc 10% + Ascend® SL



10-34-0 + Citri-Che® Zinc 10%

ROOT MASS RESULTS WITH ASCEND SL



10-34-0 + Citri-Che® Zinc 10% + Ascend®



10-34-0 + Citri-Che® Zinc 10%



COMMON USE RATE

Foliar (All crops):
100 mL/acre

Seed treatment
(All crops):
68-273 mL/100 kg seed

In-furrow corn:
139-186 mL/acre



PACKAGING

2 x 9.46 L jugs/case



ACTIVE INGREDIENT

0.090% Cytokinin (as kinetin)
0.030% Gibberellic acid
0.045% Indolebutyric acid

Ascend SL provides advantages at many different growth stages. Apply Ascend as a seed treatment, in-furrow, or in a foliar application.

Ultra-Che®

By WINFIELD UNITED

Protects Micronutrients with EDTA Chelation

Ultra-Che® line of micronutrients are fully chelated with EDTA or HEDTA to reduce nutrient tie-up in the soil and therefore increase 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 tank-mix 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® Copper
By WINFIELD UNITED



Ultra-Che® Manganese
By WINFIELD UNITED



Ultra-Che® Zinc
By WINFIELD UNITED

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

WinField United offers 10% liquid Boron for applications at seeding. The easy-to-use formulation can be mixed with other liquid fertilizers.



TANK OPTIMIZATION

Show your equipment some love and get the most from your spray. WinField United tank additives can help prolong the life of your equipment and improve spray performance.

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, highly concentrated, 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 gals of solution.

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



COMMON USE RATE

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



PACKAGING

12 x 473 mL jugs/case



ACTIVE INGREDIENTS

Dimethylpolysiloxane, Methylated Silicon, Inert Ingredients



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 non-ammonia based Commercial Spray Tank Cleaner helps remove pesticide and fertilizer residues as part of a sprayer cleaning protocol. Choose ProTank® Cleaner for effective tank cleanout.



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 fertilizers residues while cleaning pumps, valves, strainers, tanks, nozzles, 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

1-2 L per 200 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

Application Rates

0.25 L/100 L of water or 0.25% v/v. Common use rate of 1-2 L per 200 US gal

General Recommendations*

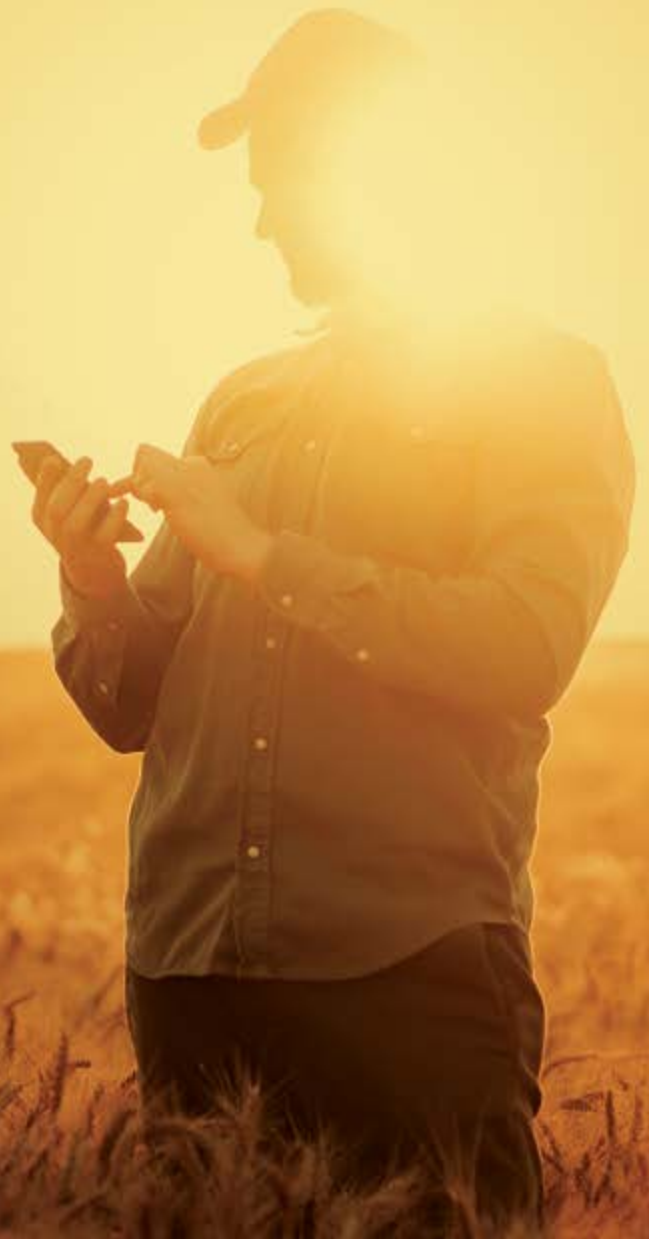
- | | |
|---|---|
| • Drain tank | • Triple rinse with clean water |
| • Rinse inside and out of tank | • Spray rinsate through booms |
| • Fill tank half full of clean water; add ProTank Cleaner | • Clean screens, nozzles and inductor cones |
| • Agitate 15-20 minutes | • Don't let product sit in the boom |
| • Let stand for time recommended on label | • Look in the tank when you are done to make sure nothing is stuck to the sides |
| • Run the solution through nozzles for at least 5 minutes | |

*Recommendations may vary depending on the specific products. Some labels indicate tank cleaner or ammonia.

Recent research shows that 2-3 smaller rinses are more effective than one large volume rinse. Think 3 x 400 gallon rinses vs 1 x 1,200 gal rinse!

BROWSE, COMPARE AND START AN ORDER FROM ANYWHERE.

Shop for your favourite crop protection products from wherever you are, whenever it's convenient. With WinField United's new online shop, you can start an order online and have it fulfilled by the local retailer of your choice.*



HOW IT WORKS

- 1 Visit winfieldunited.ca/en/shop
- 2 Sign up/log in
- 3 Select your preferred retailer
- 4 Review and add products to your cart
- 5 Submit your order
- 6 Your chosen retailer will be in touch to finalize your order

LET'S GO



Use smartphone
camera to scan code

*Online Shop is available to farmers in Western Canada only.

RETAILER DIRECTORY

ALBERTA

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La Crete, AB

Consort Agro
Consort, AB

Crop Management Network
Camrose, AB
Daysland, AB
Edberg, AB
Fort Saskatchewan, AB
Holden, AB
Mayerthorpe, AB
Onoway, AB
Stettler, AB
Vegreville, AB

CropMaxx Inc
Westlock, AB

Dryland Agro Services
Kirriemuir, AB

Independent Crop Inputs
Taber, AB

McEwen's Fuels & Fertilizers
Athabasca, AB
Barrhead, AB
Fort Saskatchewan, AB
Lamont, AB
Smoky Lake, AB
Sturgeon County, AB
Thorhild, AB
Westlock, AB

Sturgeon Valley Fertilizers
Legal, AB
St. Albert, AB

MANITOBA

Arty's Air Service
Winkler, MB

Chappell Ag Ventures
Hamiota, MB

Dale Air Services
Morris, MB

Double Diamond Farm Supply
Boissevain, MB
Crystal City, MB
Elgin, MB
Minto, MB
Pilot Mound, MB
Snowflake, MB

Friesen Seeds Ltd
Rosenort, MB

GJ Chemical Co Ltd
Altona, MB
Arnaud, MB

Hensall Co-op
Rignold, MB

Jonair Ltd
Portage La Prairie, MB

MK Agro
Brunkild, MB

New Era Ag Technologies
Swan River, MB

Roland Air
Roland, MB

Sharpe's Soil Service
Angusville, MB

Shur-Gro Farm Services
Brandon, MB
Elie, MB
Killarney, MB
MacGregor, MB
Neepawa, MB
Oakville, MB
Portage la Prairie, MB
Shoal Lake, MB
Waskada, MB
Wawanesa, MB
Westbourne, MB

Sierens Seed Service
Somerset, MB

SJ Agronomy Services
Miami, MB

South East Seeds
Dugald, MB
Niverville, MB

MARITIMES

PEI Agromart
Albany, PE

Truro Agromart Ltd
Truro, NS

ONTARIO

Alliance Agri-Turf Inc
Alliston, ON
Bolton, ON
Lindsay, ON
Thornton, ON

Atwood Farm Supplies Ltd
Atwood, ON

Bluewater Agromart Ltd
Ripley, ON

Brussels Agromart Ltd
Brussels, ON

Clark Agri Service Inc
Wellandport, ON

Fingal Farm Supply Ltd
Fingal, ON

Harriston Agromart Inc
Harriston, ON

Hensall Co-op
Ailsa Craig, ON
Aylmer, ON
Exeter, ON
Forest, ON
Gowanstown, ON
Harrow, ON
Hensall, ON
Londesboro, ON
Moorefield, ON
Parkhill, ON
Seaforth, ON
Tilbury, ON

Lakeside Grain and Feed Ltd

Forest, ON
Melbourne, ON
Petrolia, ON
Strathroy, ON

MacEwen Agricentre Inc

Maxville, ON

McClure Agro/McClure Feed Mill

Chesley, ON

Munro Agromart Ltd

Lancaster, ON

Oxford Agropro Ltd

Hickson, ON

Scotland Agromart Ltd

Scotland, ON

Silver Creek Ag Ltd

New Hamburg, ON

Sollio Agriculture

Thorndale, ON

South West Ag Partners Inc

Dresden, ON
Pain Court, ON
Ridgetown, ON
Tupperville, ON
Wallaceburg, ON

Speare Seeds

Harriston, ON

Sprucedale Agromart Ltd

Hanover, ON
Tara, ON

Sylvite

Avon, ON
Blacks Lane, ON
Blenheim, ON
Granton, ON
Hensall, ON
Kent Bridge, ON
Mitchell, ON
Norwich, ON
Pain Court, ON
Pontypool, ON
Port Albert, ON
Putnam, ON
Silverhill, ON
Sunnyside, ON

Summit Seeds Inc

Oxford Station, ON

TCO Agromart Ltd

Trenton, ON

Wellburn Agromart Ltd

Saint Marys, ON

QUEBEC**Agrocentre Farnham Inc**

Stanbridge Station, QC

Agrocentre Fertibec Inc

Saint Remi, QC

Agrocentre Lanaudiere Inc

Saint Thomas, QC

Agrocentre Saint-Hyacinthe Inc

Saint-Hyacinthe, QC

Agrocentre Technova Inc

Compton, QC
Nicolet, QC
Saint-Pie, QC

Semences Empire

Princeville, QC

Sollio Agriculture

Montreal, QC

SASKATCHEWAN**AgriTeam Services**

Glaslyn, SK
Hafford, SK

Clearview Agro

Foam Lake, SK
Invermay, SK

CMI Ag Ltd

Naicam, SK

Double Diamond Farm Supply

Alameda, SK

Emerge Ag Solutions

Eston, SK
Kyle, SK

Future Four Agro Inc

Macoun, SK

G-Mac's AgTeam

Brock, SK
Eatonia, SK
Elrose, SK
Kindersley, SK
Leader, SK
Lucky Lake/Beechy, SK
Marengo, SK
Meadow Lake, SK
Medstead, SK
Meota, SK
Milden, SK
Plenty/Dodsland, SK
Rosetown, SK
Spiritwood, SK

Hawk's Agro

Central Butte, SK
Gravelbourg, SK
Moose Jaw, SK
Neville, SK
Rouleau, SK
Strongfield, SK
Swift Current, SK

Hetland Seeds Ltd

Naicam, SK

Josuttis Ag

Paradise Hill, SK

Kenzie Seeds

Wadena, SK

Prairie Soil Services

Norquay, SK

ProSoils Inc

Rose Valley, SK

Pulses Ag

Ceylon, SK

Ren Gro Fertilizer Ltd

Milestone, SK

Sharpe's Soil Service

Langenburg, SK
Moosomin, SK
Rocanville, SK
Stockholm, SK
Wapella, SK

Super Seed Inc

Yellow Grass, SK

SynergyAG

Balcarres, SK
Govan, SK
Grenfell, SK
Lajord/Lewvan, SK
Lumsden, SK
Pense, SK
Provost, SK
Yorkton, SK

Top Notch Farm Supply

Fillmore, SK

Veikle Agro

Cut Knife, SK
Denzil, SK
Lloydminster, SK

Warrington AgroDynamic Ltd

Mervin, SK
St. Walburg, SK

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Enlist E3® soybeans contain the Enlist E3 trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring Colex-D® technology when applied according to label directions. Following burndown, the only 2,4-D containing herbicide products that may be used with Enlist™ crops are products that feature Colex-D technology and are expressly labeled for use on Enlist crops. 2,4-D products that do not contain Colex-D technology are not authorized for use in conjunction with Enlist E3 soybeans. WARNING: Enlist E3 soybeans are tolerant of over-the top applications of glyphosate, glufosinate, and 2,4-D. Accidental application of incompatible herbicides to this variety could result in total crop loss. When using 2,4-D herbicides, grower agrees to only use 2,4-D products that contain Colex-D technology authorized for use in conjunction with Enlist E3 soybeans. Always read and follow herbicide label directions prior to use.

To plant this seed, a Grower must sign a Technology Use Agreement, read the Product Use Guide prior to planting. This seed is acquired under an agreement that includes the following terms: These seeds are covered under Dow AgroSciences and MS Technologies Patent Rights which can be found at: www.corteva.ca/en/trait-stewardship.html. In consideration of the foregoing, Corteva Agriscience grants to the Grower the limited license to use its technology to produce only a single commercial crop in Canada under the terms and conditions set forth in the Technology Use Agreement in effect at the time of planting of this seed.

A license must first be obtained from Dow AgroSciences by signing a Technology Use Agreement and abiding by the terms and conditions of the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use Requirements detailed therein which can be found at www.corteva.ca/en/trait-stewardship.html. The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Dow AgroSciences LLC and M.S. Technologies, L.L.C. ®™ Enlist, Enlist E3, the Enlist E3 logo, and Colex-D are trademarks of Dow AgroSciences LLC.

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a 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.

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