

# **2022** SED GUIDE

# CORN

#### Let's leave status quo in the dust.

It's time to tune out all the bluster and focus on what works. CROPLAN® by WinField United gives you the right tools to make the best agronomic decisions for your corn crop. CROPLAN® seed uses the latest data to recommend what hybrids to choose and where to place them to get optimal bang for your buck. And we're one of the only seed brands in the industry to offer zinc as a standard treatment on all commercial hybrids to promote early-season growth and root development. We'll work with you to determine how much, when and where to apply nutrients and crop protection products to generate the most yield and profit potential. Our expertise leads. And it yields.

#### **KEY TAKEAWAYS**

- 1 Be familiar with hybrid response to continuous corn (RTCC) and soil type.
- 2 Optimize yield potential by understanding hybrid response to population (RTP).
- **3** Use hybrid response-to-nitrogen (RTN) scores to maximize your nitrogen management plan.
- 4 Understand hybrid ROI potential with fungicide applications by knowing the response-to-fungicide (RTF) score.
- Use quality data from WinField United to make informed decisions.

#### RESPONSE-TO SCORES DELIVER RESULTS YOU CAN HARVEST<sup>1</sup>

Ten years of nationwide Answer Plot<sup>®</sup> data show that there is a **+98.8-bushel-per-acre average response** over the four different response-to scores (response to continuous corn, response to population, response to nitrogen, response to fungicide). By using response-to scores to choose hybrids that fit specific management conditions, there are potentially 98.8 bushels per acre at stake, with a range of 31.2 to 178.4 bushels per acre across the four input decisions.

Response to Cont. Corn 15.1 BU/A	Response to Population 8.6 BU/A
Range: 7.3 to 35.1 bu/A	Range: 0.15 to 20.3 bu/A
Response to Nitrogen 66.9 BU/A	Response to Fungicide 13.6 BU/A
0010 2011	
Range: 19.8 to 97.7 bu/A	Range: 3.9 to 25.3 bu/A 6-yr range

#### MAKE CONTINUOUS CORN COUNT<sup>2</sup>

All hybrids have strengths and weaknesses that must be considered when determining how they will respond under different cropping systems and on various soil types.

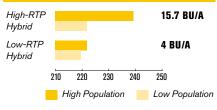
 Matching hybrids to your cropping system will allow you to achieve optimal yield potential. Good management of residue, insects and disease in addition to vigilant scouting are all critical to sustaining an optimal corn-on-corn system.  For good emergence, plant corn at uniform depths and position stronger-emerging hybrids on continuous-corn fields with heavy residue.

RTCC Average Response — 14.4 bu/A

#### TARGET POPULATIONS<sup>2</sup>

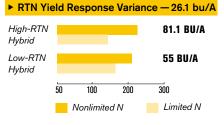
Planting each hybrid at the right population is key to optimizing its performance potential. A high RTP score identifies a hybrid that shows a potential yield gain with increased populations. A low RTP score indicates a hybrid that does not deliver high yield potential with increased populations.

#### ▶ RTP Yield Response Variance — 11.7 bu/A



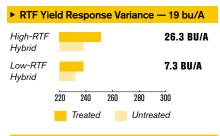
#### LET NITROGEN NOURISH<sup>2</sup>

Be sure to consider the 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 in limited nitrogen environments. Perform appropriate tissue testing to determine optimal application timing for nitrogen, which may help minimize the financial and environmental costs of applying too much.



#### LEVERAGE FUNGICIDES FOR PLANT HEALTH<sup>2</sup>

Fungicides are another tool to help you optimize the yield potential of your corn crop. RTF scores help you understand where fungicides may increase yield potential and protect ROI potential.



#### **TURN DATA INTO INSIGHTS**

Trusted WinField United advisors help you connect various data sources, analyzing and interpreting different data sets to make personalized recommendations for your farm to achieve more yield and profit potential.



Answer Plot<sup>®</sup> Locations Exceptional Data Accuracy (low LSDs)

 Response ranges show the importance of how hybrids respond to each management practice to help ensure the highest yield potential. 2019 nationwide Answer Plot<sup>®</sup> data. Because of 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.
 2020 Answer Plot<sup>®</sup> trial data.
 1998–2020 Answer Plot<sup>®</sup> trial data.

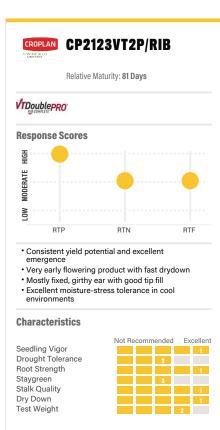
# CORN

#### **CROPLAN® TRAIT LETTERING FOR CORN HYBRIDS**

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

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KEY	HYBRID	TRAIT	LOGO	
SS	SmartStax®	YieldGard VT Rootworm, Herculex <sup>®</sup> RW, YieldGard VT PRO <sup>®</sup> Corn Borer and Herculex <sup>®</sup> protection, Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup>	SmartStax.	
SS/RIB	SmartStax <sup>®</sup> RIB Complete <sup>®</sup> Corn Blend	5% RIB, YieldGard VT Rootworm, Herculex <sup>®</sup> RW, YieldGard VT PRO <sup>®</sup> Corn Borer and Herculex <sup>®</sup> protection, Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup>		
VT2P	VT Double PRO®	YieldGard VT PRO <sup>®</sup> Corn Borer protection, Roundup Ready <sup>®</sup> 2 Technology	<b>√T</b> Double <sub>PR0</sub> •	
VT2P/RIB	VT Double PRO <sup>®</sup> RIB Complete <sup>®</sup> Corn Blend	5% RIB, YieldGard VT PRO <sup>®</sup> Corn Borer protection, Roundup Ready <sup>®</sup> 2 Technology		
RR	Roundup Ready <sup>®</sup> Corn 2	Roundup Ready <sup>®</sup> Corn 2	Roundup Ready: CORN	
DGVT2P	DroughtGard <sup>®</sup> VT Double PRO <sup>®</sup> Corn Blend	DroughtGard <sup>®</sup> YieldGard VT PRO <sup>®</sup> Corn Borer protection, Roundup Ready <sup>®</sup> 2 Technology		
DGVT2P/RIB	DroughtGard <sup>®</sup> VT Double PRO <sup>®</sup> RIB Complete <sup>®</sup> Corn Blend	5% RIB, DroughtGard <sup>®</sup> YieldGard VT PRO <sup>®</sup> Corn Borer protection, Roundup Ready <sup>®</sup> 2 Technology	DroughtGard HIBRIDS VTDouble CRC	
AS3000GT	Agrisure <sup>®</sup> 3000GT	$Agrisure^{\circledast}$ Corn Borer and Rootworm protection, Glyphosate Tolerant and LibertyLink $^{\circledast}$	Agrisure LIBERTY 3000GT LINK W	
AS3011A	Agrisure Artesian® 3011A	Agrisure Artesian $^{\circledast}$ and Agrisure $^{\circledast}$ Corn Borer, Rootworm, Glyphosate Tolerant and LibertyLink $^{\circledast}$	Agrisure Artesian LIBERTY STRA LINK V	
AS3111	Agrisure Viptera® 3111	Agrisure $^{\circledast}$ Corn Borer, Rootworm and Broad Lepidopteran protection, Glyphosate Tolerant and LibertyLink $^{\circledast}$	Agrisure Viptera	
GT	Agrisure <sup>®</sup> GT	Agrisure <sup>®</sup> Glyphosate Tolerant	AgrisureGT	
AS3122-EZ	Agrisure <sup>®</sup> 3122 E-Z Refuge <sup>®</sup>	Agrisure <sup>®</sup> E-Z Refuge <sup>®</sup> , Agrisure <sup>®</sup> Glyphosate Tolerant, Agrisure <sup>®</sup> Corn Borer and LibertyLink <sup>®</sup> , Agrisure <sup>®</sup> Rootworm Protection and Herculex <sup>®</sup> XTRA <i>Insect Protection</i>	Agrisure 3122 F2 Refige	
AS3220-EZ	Agrisure Viptera <sup>®</sup> 3220 E-Z Refuge <sup>®</sup>	Agrisure Viptera <sup>®</sup> E-Z Refuge <sup>®</sup> , Corn Borer, LibertyLink <sup>®</sup> , Glyphosate Tolerant and Herculex <sup>®</sup> I <i>Insect Protection</i>		
AS3220A-EZ	Agrisure Viptera <sup>®</sup> 3220A E-Z Refuge <sup>®</sup>	Agrisure Artesian <sup>®</sup> , Agrisure <sup>®</sup> Corn Borer, LibertyLink <sup>®</sup> , Glyphosate Tolerant and Herculex <sup>®</sup> I <i>Insect Protection</i>		





Position in average to high yield potential acres
Strong vigor, stalks and roots

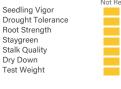
- · Maximize yield with moderate to high populations
- Flowers early for RM, keep in zone

#### **Characteristics**





N WINFIELD		288VT2P/I	
	Relative	Maturity: 82 Days	
TDouble	PRO		
Respons	e Scores		
HIGH	•••••		
MODERATE		•••••	•••••
N O O O O			
	RTP	RTN	RTF
strong : • Exceller Goss's • Modera manage	stress tolera nt root stren wilt tolerand ate response	gth with strong st ce to enhanced nitr	alks and



Not Recommende	d Excellent
	2
	2
	1
	2
	2
	2
	1



#### **Characteristics**

2 = Strong 3 = Acceptable

4 = Manage 5 = Not Recommended

	Not Recommended	Excellent
Seedling Vigor		2
Drought Tolerance		2
Root Strength		2
Staygreen	3	
Stalk Quality	3	
Dry Down		2
Test Weight	3	

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

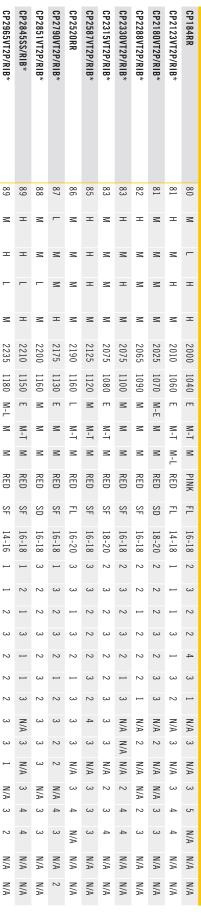
CROPLAN® corn silage hybrids that (F consistently perform for high-quality and high-tonnage in Answer Plot<sup>®</sup> trials.

#### KEY Scale 1 = Excellent

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CP2315VT2P/RIB*	CP2330VT2P/RIB	CP2288VT2P/RIB*	CP2180VT2P/RIB*	CP2123VT2P/RIB*	CP184RR	RM: 80-89	BRAND
RIB*	RIB*	RIB*	RIB*	RIB*		89	
							HINEN BURGEN DE SUNSER
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2 3		N/A 2	N/A 3	3 4	ω 5		81 10000 100 1005 5050 100 1010 100 1005 5050 100 100 100 100 1005 5050 100 100 100 100 1005 5050 100 100 100 1005 100 100 100 100 100 100 100
4		ω	3	1 4	N/A		FENDERS SOLD SUPPORT
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Product Name	
Attributes	
Placement	
Product Name	_
Attributes	
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# SOYBEAN

# There's no good reason risk has to increase with yield.

We won't promise you the world. We will promise you an honest and insightful approach to maximizing your soybean yield potential. At WinField United, we use proven technologies to match the right soybean genetics and traits to your field's conditions. Plus, our CROPLAN® seed varieties are selected for disease tolerance that helps protect the soybean plant throughout all stages of growth. We know this is the best way to help you achieve optimal return on your seed and crop inputs.

#### 1 of 2

#### **KEY TAKEAWAYS**

- 1 Use appropriate trait technology to achieve effective weed control.
- 2 Introduce stability to your fields with CROPLAN® WinPak® soybean varieties.
- 3 Ensure optimal plant health at the start of the season with Warden<sup>®</sup> CX seed treatment.
- 4 Use the R7<sup>®</sup> Tool to help choose the right soybean varieties for your specific fields.
- **5** Select varieties for disease tolerance and manage them throughout the season.

#### MANAGE WEEDS WITH TRAIT TECHNOLOGY

CROPLAN® soybean seed offers the newest genetics with multiple herbicide trait options developed to effectively manage your weedresistance 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 with full commercial approval, the number of tools in the toolbox is increasing. But as you face hard-to-control weeds, creating a plan for season-long weed management is critical. The chart outlines CROPLAN® soybean herbicide-tolerant varieties available today. These traits offer some great postemergence options.

	Glyphosate	Glufosinate	2,4-D Choline	Dicamba
LIBERTYLINK®		X		
XTENDFLEX®	X	X		X
<b>ROUNDUP READY 2 YIELD®</b>	X			
ROUNDUP READY 2 XTEND®	X			X
ENLIST E3®	X	X	X	

#### REDUCE RISK WITH WINPAK<sup>®</sup> SOYBEAN VARIETIES

WinPak® soybean varieties from CROPLAN® seed are a unique combination of two varieties that provide an exceptional level of stability throughout the field. Designed to address field variability, WinPak® varieties have excellent yield potential on productive acres along with the ability to handle the stress of performing on more challenging acres.

#### EXAMPLE OF HOW A WINPAK® VARIETY CAN BE FORMULATED

	VARIETY A EXAMPLE	VARIETY B EXAMPLE
PLACEMENT	Average to below-average yield environments.	Best-suited to productive acres.
DISEASE PACKAGE	Strong soybean white mold and iron deficiency chlorosis (IDC) tolerance.	Excellent phytophthora root rot and frogeye field tolerance.
AGRONOMICS	<ul> <li>Narrow canopy type</li> <li>Tall height</li> <li>Excellent standability</li> </ul>	<ul> <li>Bushy canopy type</li> <li>Medium height</li> <li>Average standability</li> </ul>
STRESS TOLERANCE	Excellent stress tolerance.	Strong stress tolerance.

WinPak<sup>®</sup> varieties are designed to mitigate risk across the whole field by offering more stability on variable acres, delivering high yield potential on productive acres and maintaining consistency on more challenging acres. They also provide an enhanced disease and agronomic package for the whole farm.

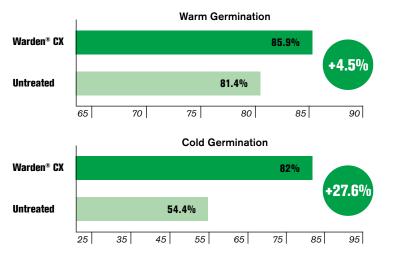




#### PROTECT YIELD POTENTIAL WITH WARDEN® CX SEED TREATMENT

Guard high-value soybean seed from early-season disease and insect threats with Warden® CX seed treatment. In 2018, testing by an independent seed lab and the University of Minnesota Plant Disease Clinic indicated a positive response to soybean seed treated with Warden® CX seed treatment compared to an untreated control group. Compared to untreated seed, Warden® CX treated seed improved the warm germination test by +4.5% and the cold germination test by +27.6%.

#### AVERAGE GERMINATION IMPROVEMENT: WARDEN® CX VS. UNTREATED



#### **OPTIMAL CONDITIONS FOR DISEASE INFECTION**

FUNGUS	DISEASE	TEMPERATURE (F) Range/optimum	MOISTURE
Pythium	Damping-off	50°-68°/<59°	Saturated
Rhizoctonia	Damping-off	60°-86°/80°	30%-60% water
Phytophthora	Damping-off	59°-86°/77°-80°	Saturated; weekly periodic rain
Fusarium	SDS and root rot	50°–86°/59°	Wet to saturated

#### **MANAGE IN-SEASON**

Select your disease package based on field conditions.

- Knowing where yield potential is falling behind alerts you to disease and other potential threats, allowing you to make inseason adjustments.
- Satellite imagery highlights field variability and indicates where appropriate crop inputs might help optimize yield potential.
- Use R7<sup>®</sup> Tool satellite imagery to monitor plant health.





#### **CROPLAN® TRAIT LETTERING FOR SOYBEAN VARIETIES**

Descriptive variety numbering and trait lettering systems are used for  $\mathsf{CROPLAN}^{\circledast}$  soybean varieties.



KEY	VARIETY	TRAIT HERBICIDE TOLERANCE	LOGO
L	LibertyLink®	Liberty <sup>®</sup> tolerant	LIBERTY LINK 🐨
XF	XtendFlex <sup>®</sup>	Roundup $^{\ensuremath{\mathbb{R}}}$ , dicamba and glufosinate tolerant	SOYBEANS
RR	Roundup Ready 2 Yield <sup>®</sup>	Roundup <sup>®</sup> tolerant	Roundup 2 viel D Resorteuns
X	Roundup Ready 2 Xtend®	Roundup <sup>®</sup> and dicamba tolerant	ROUNDUP READY 2 SOYBEANS
E	Enlist E3®	Glyphosate, glufosinate and 2,4-D choline tolerant	Enlist E3
S	STS®	Sulfonylurea tolerant	N/A



WINFIELD UNITED	Group: <b>0.03 D</b> a	iys	
Characteri	stics		
PRR Tolerand SDS Tolerand Frogeye Leaf SWM Tolerar Iron Chlorosia	spot spot	Not Recommended	Excellent
Height	м	Canopy Type	-
Emergence	2	Standability	1
BSR Tolerance	N/A		

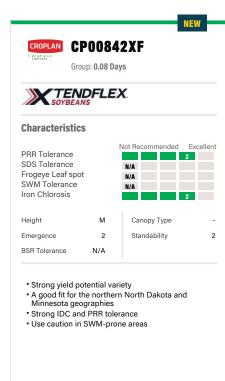
- Use caution on SCN-prone areas

(	iroup: <b>0.07 D</b> a	ays	
ROUNDUP READY 2			
Characterist	ics		
PRR Tolerance SDS Tolerance Frogeye Leaf s SWM Tolerance Iron Chlorosis		Not Recommended N/A N/A 3	Excellent 1
Height	М	Canopy Type	Int/Nar
Emergence	1	Standability	1

- Strong yield potential in a 0.07 RM
  Excellent PRR tolerance for wet soils
- Strong IDC
- Use caution in BSR-prone areas

UNITED	Group: <b>0.07 D</b>	ays	
Enlist E3			
Characteris	ics		
PRR Tolerance SDS Tolerance Frogeye Leaf s SWM Toleranc Iron Chlorosis	pot	Not Recommended N/A N/A 3	Excellent
Height	м	Canopy Type	Int
Emergence	1	Standability	3
BSB Tolerance	NG		

- Early Enlist E3<sup>®</sup> soybean for Group 00 market Position north of Highway 2
- Strong SWM tolerance; acceptable IDC and PRR tolerance
- Best-suited for narrow rows



(	Group: <b>0.08 Da</b>	iys	
Characterist	ics		
PRR Tolerance SDS Tolerance Frogeye Leaf s SWM Tolerance Iron Chlorosis	pot	Not Recommended	Excellent
Height	MT	Canopy Type	Int/Nar
Emergence	1	Standability	3
BSB Tolerance	1		

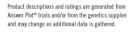
- Strong performance potential on stressed ground Strong IDC and BSR tolerance

G	iroup: <b>0.09 Da</b>	iys	
ROUNDUP READY 2			
Characterist	ics		
PRR Tolerance SDS Tolerance Frogeye Leaf s SWM Tolerance Iron Chlorosis		Not Recommended N/A N/A 3 3 3	Excellent
Height	М	Canopy Type	Int
Emergence	1	Standability	3
BSR Tolerance	2		

• Acceptable SWM tolerance

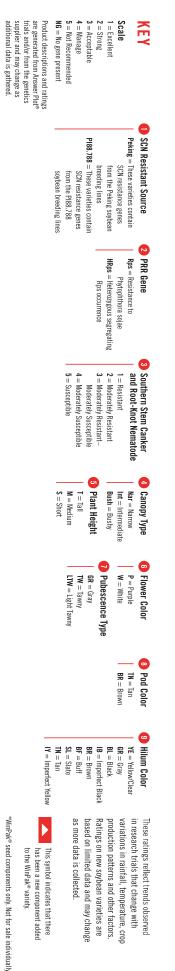
- Not recommended in SCN-prone areas

KEY Scale 1 = Excellent 2 = Strong 3 = Acceptable 4 = Manage 5 = Not Recommended



This symbol indicates that there has been a new component added to the WinPak® variety.

_	_	_	_		_	NEW	_	_	_	_	_	NEW	_	_	NEW	_	NEW		**
CP0878X*	CP0751XF	CP0741XF*	CP0740XF	CP0700X	CP0678X*	CP0542XF	CP0426X	CP0411X*	CP0400X	CP0337X	CP0264RR	CP0242XF	CP00926X	CP00847X	CP00842XF	CP00777X*	CP00312X	ROUND	SHAMMON HAVEN
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ω	2	2	2	2	1	2	1	2	2	2	ω	4	ω	-	2	-	1	ADY	STHEADLY ST.
N/A	N/A	N/A	N/A	N/A	N/A	ω	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 Y	apr. apr.
Includer	N/A	Includer	Includer/N/A	Includer	Includer	N/A	Includer	Includer	Includer	Includer	Includer	N/A	Includer	Includer	N/A	Includer	N/A	1.1	218101 MMS
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\*WinPak® seed components only. Not for sale individually.

CROPLAN

SOYBEAN

SOYBEAN

CROPLAN

NEW CP1830E	NEW CP	NEW CP1722E*	CP	NEW CP1522E	NEW CP1430E	NEW CP1422E*	NEW CP1222E*	CP	CP	NEW CP0822E*	CP	CP	CP	NEW CP	CP	CP	NEW CP0322E*	NEW CP0320E	CP	m	STIBIO		. Jet
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CP1722E*/CP1822E*					CP1422E*/CP1522E				CP1121E/CP1222*		CP0721E/CP0822E*				CP0522*/CP0529E			CP0322E*/CP0329E		<sup>®</sup> : 0.0-1.9		ILE	1914
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supplier and may change as

additional data is gathered.

\*WinPak® seed components only. Not for sale individually.



Product Name	
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Product Name	
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Placement	



# SPRING Canola



#### **KEY TAKEAWAYS**

- 1 Pick the right genetics for your environment.
- 2 Take advantage of the latest resistance genes for blackleg and clubroot.
- 3 Leverage the enhanced weed management and crop safety features of the LibertyLink<sup>®</sup> system and TruFlex<sup>™</sup> canola with Roundup Ready<sup>®</sup> Technology.
- 4 Evaluate your disease environment, crop rotation and other production practices.

#### CHOOSE THE RIGHT GENETICS AND TRAITS FOR YOUR ENVIRONMENT

The CROPLAN<sup>®</sup> seed canola portfolio brings genetic diversity to the farm with the latest weed-control options such as the LibertyLink<sup>®</sup> canola system and TruFlex<sup>™</sup> canola, which offers outstanding crop safety.



#### LIBERTYLINK® CANOLA SYSTEM

- Liberty<sup>®</sup> herbicide use on canola hybrids with the LibertyLink<sup>®</sup> trait provides an excellent means for growers to rotate nonselective herbicide systems to effectively manage tough to control weeds.
- Provides an alternative herbicide tolerance system.
- Unique mode of action.

#### THE TRUFLEX™ WITH ROUNDUP READY® TECHNOLOGY SYSTEM HELPS YOU:

- Have the ability to spray up to first flower.
- Manage both annual weeds and toughto-control perennials, including Canada thistle, dandelion and wild buckwheat.
- Be flexible with the Roundup PowerMAX<sup>®</sup> herbicide application rate to get the job done using 44 fluid oz. per acre or applying sequential rates of 22 fluid oz. per acre.

 Achieve better weed control and crop safety compared to Roundup Ready<sup>®</sup> Canola for improved yield potential.

The right plan never stops working.

potential, excellent crop safety and easier management.

There's no quit in you. And we've got some of the industry-leading innovations to makesure

there's no quit in your spring canola crop. Like the latest solutions to disease issues, resistance to clubroot and blackleg, and the crop safety and weed-control features in TruFlex<sup>™</sup> canola with Roundup Ready<sup>®</sup> Technology. Plus, established products like Roundup Ready<sup>®</sup> Spring Canola and the LibertyLink<sup>®</sup> system deliver outstanding yield

#### MANAGE DISEASE

Sound like a plan?

Optimizing canola performance includes evaluating cropping system elements such as disease environment, crop rotation and other production practices.

#### BLACKLEG

- Select hybrids that are rated "R" (most resistant) for this disease.
- Rotation is very important in keeping disease inoculum levels low.
- Rotation of blackleg-resistant groups can also be beneficial.
- Tank mixing a fungicide with an early weed-control application at the 2- to 3-leaf stage can potentially reduce your risk of yield loss.

#### CLUBROOT

- Clubroot hinders the canola plant root from developing and utilizing soil moisture and nutrients.
- It can be mistaken for other diseases, such as sclerotinia or blackleg, so it is important to dig up suspected plants.
- It is more difficult for clubroot to thrive when soils have a pH above 7.0.

Taking these steps can help slow the spread of clubroot:

- Clean equipment thoroughly.
- Control canola volunteers and other weeds that can host the disease.
- Plant CP955R, CP7130LL or CP7144LL, clubroot-resistant CROPLAN<sup>®</sup> hybrids.

#### LUMIDERM™ INSECTICIDE SEED TREATMENT

- Improved 30-day control of flea beetle and cutworm.
- Giving your crop a leg up on flea beetles and cutworms during this period provides it with the opportunity to experience increases in stand establishment, plant vigor and biomass.

### 6 TIPS FOR STRAIGHT-CUTTING CANOLA

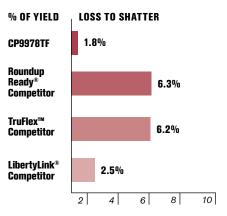
- 1 Select a hybrid with an adequate shatter score that's better suited for straightcutting.
- 2 Control weeds and diseases in every field.
- **3** Ensure a uniform stand; proper seeding rates will help.
- 4 Harvest in a timely manner, as soon as the seed is dry enough to store.
- **5** If the field is variable when approaching harvest, consider desiccation.
- **6** Utilize straight cut hybrids which offer shatter and standability assurance.



This symbol next to a CROPLAN® product means it has met the standability and reduced shatter requirements for straight-cut.

### CROPLAN<sup>®</sup> SEED DELIVERS AN EXCELLENT SHATTER SCORE<sup>1</sup>

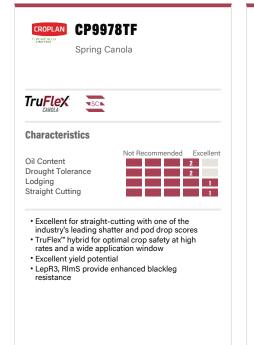
CROPLAN<sup>®</sup> seed TruFlex<sup>™</sup> canola (CP9978TF) showed a lower shatter score than competitive checks in a recent study from Roseau, MN.



Source: 2019 Canola Shattering Variety Trial. Northern Resources, Roseau, Minn. 1. Results not statistically significant and may vary. Because of 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.



CP93ORR	CCP955RR	CP9919RR
Roadup Ready	Roundup Ready	Roundup Read
Characteristics Not Recommended Excellent Drought Tolerance Lodging Straight Cutting • Industry-leading oil content • Excellent yield potential for early maturity; strong stress tolerance • Good for straight-cutting; good shatter scores • Strong vigor; for less-than-ideal seedbeds and no- til	Characteristics         Oil Content Drought Tolerance Lodging Straight Cutting       Not Recommende Logging Distribution       Excellent Distribution         • Excellent yield potential in high-yield environments       0       0         • Stocallent yield potential in high-yield environments       0       0         • Odo for straight-cutting; good shatter scores       0       0         • First clubroot-resistant CROPLAN* hybrid       0       0	Characteristics Oil Content Drought Tolerance Lodging Straight Cutting



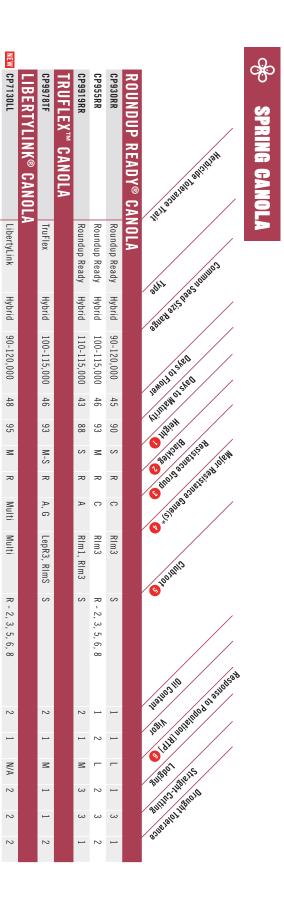
ROPLAN CP7130LL	
Spring Canola	
	LIE
Characteristics	Ch
Oil Content     2       Drought Tolerance     2       Lodging     2       Straight Cutting     2	Oil Dro Loo Stra
<ul> <li>Liberty* herbicide tolerance provides an excellent alternative herbicide system</li> <li>Top yield potential LL EXP product with very good shatter in 2020 Answer Plot* trial testing</li> <li>Very good standability along with good shatter for straight cut systems</li> <li>Blackleg and clubroot resistance</li> </ul>	•   •   •   •

	CP7144	u –	EW
LIBERTY LINK 🐨			
Oil Content Drought Tole Lodging Straight Cutt	rance	Not Recommended	Excelle
alternative • Excellent straight c • High yield	e herbicide syst shatter tolerand it systems	ce and lodging score ss environments	

KEY Scale 1 = Excellent 2 = Strong 3 = Acceptable

4 = Manage 5 = Not Recommended Product descriptions and ratings are generated from Answer Plot<sup>®</sup> trials and/or from the genetics supplier and may change as additional data is gathered.

SC = Straight-Cutting



NEW CP7144LL

LibertyLink

Hybrid

90-120,000

48

95

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R

Multi

Multi

R - 3A, 2B, 5X, 2, 3, 5, 6, 8 2

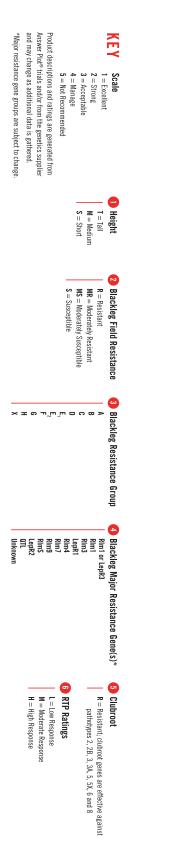
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# **SUNFLOWER**



#### Target your markets and hold nothing back.

In the seed business, experience matters. CROPLAN<sup>®</sup> seed has been in the sunflower business for more than 20 years. That history and know-how allow us to offer you a broad spectrum of diverse sunflower genetics.

Because of extensive testing and screening conducted locally through the Answer Plot<sup>®</sup> program, we can help select the best sunflower seed genetics for your operation. The genetics we offer can help manage disease pressure in your fields, with hybrids that can be positioned based on specific field stresses. And we have the latest traits in our portfolio. That's technology — and experience — you can count on.

#### **KEY TAKEAWAYS**

- 1 Understand your market options.
- 2 Gain access to new genetics.
- **3** Choose traits designed to manage weed pressure.
- 4 Implement an effective weed-control strategy.

#### ACHIEVE YOUR MARKETING OBJECTIVES

Sunflower has become a market segmented by grain uses, and any single hybrid might fit one or more market options. Sunflower markets include:

#### **OIL-TYPE SUNFLOWER**

#### High Oleic

Specific oil levels trending above 85% oleic based on market requirements.\*

#### ▶ NuSun®

Standard for the oil market.

#### ► Hulling

All oil types that have proper seed size and ease of shell removal.

#### Birdseed

Regional markets throughout the United States for all oil types.

\*Contracting buyers' current high oleic percent rate.

#### **CONSIDER SEED SIZE AND COATING**

#### SUNFLOWER SEED SIZE

Plant-to-plant spacing is important, and seed size can play a role in achieving the correct spacing and population in sunflower crops.

#### PROSUN™ PRECISE SEED COATING

Prosun<sup>™</sup> precise seed coating is available on a number of CROPLAN<sup>®</sup> sunflower varieties and offers:

- More seed size options per variety
- · Consistent seed size, which helps optimize yield potential
- Uniformity in stand establishment
- · Even growth for optimal weed, disease and insect management

#### **CHOOSE THE RIGHT TRAITS**

We have a long history of offering farmers the DuPont<sup>™</sup> ExpressSun<sup>®</sup> and the Clearfield<sup>®</sup> Production System traits. Both provide good weed-control options to farmers.

#### **CONTROL WEEDS**

#### **BEYOND® AND EXPRESS® HERBICIDES**

- Both traits have advanced yield potential.
- Both require preemergence herbicide treatments (Spartan<sup>®</sup> Charge, BroadAxe<sup>®</sup> or Prowl<sup>®</sup> H<sub>2</sub>0) or preplant-incorporated herbicides (Framework<sup>®</sup>, Prowl<sup>®</sup> H<sub>2</sub>0 or Sonalan<sup>®</sup>) to combat kochia and Russian thistle.
- Both are a Group 2 herbicide mode of action.
- The DuPont<sup>™</sup> ExpressSun<sup>®</sup> trait is tolerant to Express<sup>®</sup> herbicide.
- The Clearfield<sup>®</sup> Production System is tolerant to Beyond<sup>®</sup> herbicide.

ACTIVITY	BEYOND® Herbicide	EXPRESS® HERBICIDE
Activity on grass	Yes	No
Recommended Section® Three herbicide tank mix	Yes	Yes
Residual control	Yes	No
Better control of cocklebur, nightshade, lanceleaf sage, smartweed and grasses	Yes	No
Better control of Canada thistle, lambsquarters and wild buckwheat	No	Yes
Can be applied across a broader crop stage, from one leaf to bud	No	Yes
Can be applied a second time for later flushes	No	Yes

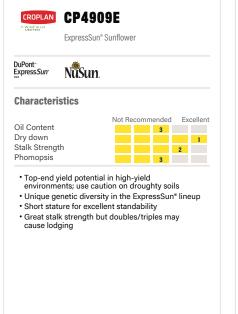


DuPont <sup>-</sup> Express <i>Sun</i> -	NuSun.		
Characteri	stics		
Dil Content Dry down		Not Recommended	Excellent
Stalk Streng	th		2
Phomopsis	potential for	early maturity	
<ul> <li>High yield</li> <li>Shorter pl</li> <li>DMR Pl 8 downy mi</li> </ul>	lant height; v ; resistant to	r early maturity ery uniform all common U.S. race	es of
<ul> <li>High yield</li> <li>Shorter pl</li> <li>DMR Pl 8 downy mi</li> </ul>	lant height; v ; resistant to Idew	r early maturity ery uniform all common U.S. race	es of

	450E	CROPLA
Expr	essSun® Sunflower	UNITED
DuPont <sup></sup> Express <i>Sun</i> <sup>-</sup>		DuPont ExpressSur
Characteristics	;	Charact
Oil Content Dry down Stalk Strength Phomopsis	Not Recommended Excellent	Oil Conte Dry down Stalk Stre Phomops
CP455E • Top performer i • Stronger standa plant early	n stressed environments ability than CP455E; good hybrid to	Excelle CROPI     Widely conditi     Medium

DMR PI 8; resistant to all common U.S. races of downy mildew

DuPont <sup>-</sup> Express <i>Sun</i> <sup>-</sup>		
Characteri	stics	
Oil Content Dry down Stalk Streng Phomopsis	th	Not Recommended Exceller
• Widely ad condition	N° lineup apted acros short plant resistant	ntial; top performer in oss regions and field with excellent drydown to most common U.S. races of



CROPLAN * WINTEL® Clearfield® Sunf	-
Clearfield Production Bystem for Survivers	NuSun.
Characteristics	
Oil Content Dry down Stalk Strength Phomopsis	Not Recommended Excellent
<ul> <li>Outstanding yield and hig</li> <li>Mid-maturity with strong</li> <li>DMR PI 6; resistant to mo downy mildew</li> <li>Increased staygreen and environments</li> </ul>	overall disease package ost common U.S. races of

	Conventio	nal Sunflower
Character	istics	
Oil Content Dry down Stalk Streng Phomopsis	th	Not Recommended Excellent
environm • Consister environm • One of th CROPLAI	ents nt performa ents e top oil co N® lineup	al in higher-yielding nce across multiple ntent products in the lations for best results
* Flant at n	ligner popu	

 Scale
 Product descript

 1 = Excellent
 generated from

 2 = Strong
 from the genetic

 3 = Acceptable
 as additional dated

 4 = Manage
 5 = Not Recommended

KEY Scale

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

Clearfield* Sunflower	CP7919CL	CROPLAN CP4157E
Interest is interesting in the second secon	Clearfield*Sunflower	
Oil Content       2         Dry down       3         Stalk Strength       2         Phomopsis       1         • High yield potential, oil and oleic levels         • Above-average disease tolerance         • DMR PI 6; resistant to most common U.S. races of downy mildew         • Full maturity; plant early when utilizing north of I-94 in Minnesota, North Dakota and Montana    Oil Content Dry down Dry down Ory down		
	Oil Content     2       Dry down     3       Stalk Strength     2       Phomopsis     1       • High yield potential, oil and oleic levels     1       • Above-average disease tolerance     0 MM PI 6; resistant to most common U.S. races of downy mildew       • Full maturity; plant early when utilizing north of	Oil Content     3       Dry down     2       Stalk Strength     2       Phomopsis     1       • Very high yield potential with best performance in offensive environments     1       • Excellent Phomopsis tolerance     6 ood roots and stalks on a medium-tall stature provide solid late-season standability       • DMR PI 6; resistant to most common U.S. races of

KEY Scale 1 = Excellent 2 = Strong 3 = Acceptable 4 = Manage 5 = Not Recommended

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					NEW					
CP3845	<b>CONVENTIONAL SUNFLOWER</b>	CP7919CL	CP545CL	<b>CLEARFIELD® SUNFLOWER</b>	NEW CP4157E	CP4909E	CP455E	CP450E	CP432E	<b>EXPRESSSUN® SUNFLOWER</b>
•	WEF	•		IER	•		•	•		WER
	~		•			•			•	
•					<b>TBD</b>		•	•	•	
• • 3, 4		•	•		•	•	•	•	•	
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96		86	94		94	91	94	94	68	
1		PI 6	PI 6		PI 6		PI 6	PI 8	PI 8	
4		1	ω			ω	2	2	ω	
5		ω	2		2	2	2	2	ω	
Med-Short		Med-Tall	Medium		Med-Tall	Med-Short	Med-Short	Med-Short	Short	
1 1		2	ω		ω	ω	2	ω	4	
1		2	N/A		N/A	N/A		1	N/A	
2		ω	ω		2	1		2		
2		2	1-1		2	2	2	1	2	
4		2	2		ω	4	2	1	2	



hybrids and is resistant to all known races of PI 15 gene = This gene is exclusive to CROPLAN®

PI P gene = Proprietary gene developed to control all known races of downy mildew.



SUNFLO	WER		
Product Name _ Attributes			
Placement			
Product Name _ Attributes			
Placement			
Product Name _ Attributes			
Placement			
Product Name _ Attributes			
Placement			



# HARD RED Spring Wheat

# Managing for high performance leads to optimal results.

Our CROPLAN<sup>®</sup> seed spring wheat varieties have demonstrated phenomenal performance nationally. We can help you select the right genetics to manage a strong wheat crop. According to the most recent Answer Plot<sup>®</sup> data, spring wheat varieties respond differently to various management techniques, so be sure to manage the varieties you plant appropriately. What's more, targeted input applications support responsible land use by eliminating unnecessary treatments.

Starting with high-performing varieties, we help you bring it all together to make for a great ending to your season.

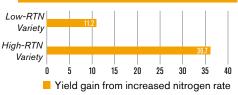
#### **KEY TAKEAWAYS**

- 1 Top-dress nitrogen on responsive genetics for added potential.
- 2 Plant at the right population for optimal varietal performance.
- **3** Know how to manage your variety to best enable its response-to-fungicide (RTF) score.

#### MANAGE YOUR VARIETY'S RESPONSE-TO-NITROGEN (RTN) SCORE<sup>1</sup>

Customize nitrogen rate by variety to capture ROI potential. Optimize yield potential on more productive acres with higher nitrogen management by planting varieties with higher RTN scores. Protect yield potential on tougher acres by utilizing lower RTN score varieties on acres with lower-productivity soils or less nitrogen management.

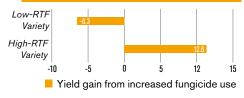
#### ▶ RTN Yield Response Variance - 25.5 bu/A



#### USE RESPONSE-TO-FUNGICIDE (RTF) SCORES TO AID DECISION-MAKING'

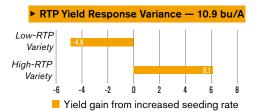
Fungicides are another tool to help you optimize the yield potential of your wheat crop. RTF scores help you understand where fungicides may increase yield potential and protect ROI potential.

#### ▶ RTF Yield Response Variance — 18.9 bu/A



#### **OPTIMIZE SEEDING RATE BY VARIETY<sup>1</sup>**

Each CROPLAN® variety has its own response to population (RTP). Managing population correctly will help you optimize yield potential and help increase standability. Use seed size when determining optimal seeding rates. For more uniform emergence, use Warden® Cereals seed treatments plus Ascend® plant growth regulators.

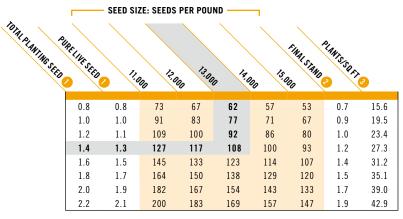


#### SEEDING RATE CHART<sup>2</sup>

- Example of how to use the chart:
- 1. Select total planting seed. Example: 1.4 million seeds per acre
- 2. Select seeds per pound. *Example: 13,000*
- 3. Determine recommended seeding rate. *Example: 108 lbs. per acre*

Calculation assumptions: Germ: 95% Survivability: 10% Total stand loss: 15%

# MILLION SEEDS PER ACRE PLANTS PER ACRE PLANTS PER SQUARE FOOT



SEEDING RATE (LBS/A)

1. Response ranges show the importance of how varieties respond to each management practice to help ensure the highest yield potential. 2019 nationwide Answer Plot<sup>®</sup> data.

2. Because of 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.

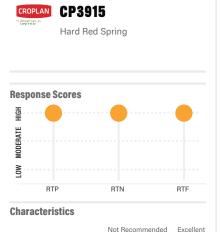




Low response to nitrogen drives stability across environments

KEY 1 = Excellent 2 = Strong 3 = Acceptable Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

3 = Acceptable 4 = Manage 5 = Not Recommended



Standability Fusarium Head Blight Test Weight Protein

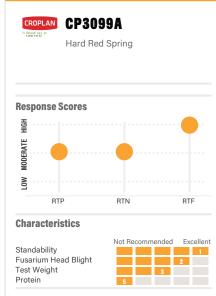
High yield and protein potential that can increase with additional N

2

2

2

- Excellent agronomics, very good BLS tolerance and straw strength
- Excels under higher yield environments; stable in lower yielding environments
- High response to population, recommended @
   1.4-1.7 M seeds/acre



Awnless genetics, unique background to the industry

- Extremely high yield potential among the highest yielding products in 2020 Answer Plot testing
- Lower protein but additional nitrogen, increases both yield and total protein/a
- Excellent forage/dual-purpose potential as silage or dry hay

NEW								œ
CP3119A	CP3099/	CP3055	CP3910	CP3915	CP3530	CP3419	VARIETY	
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**KEY** 1 = Excellent 2 = Etrong 3 = Acceptable 4 = Manage 5 = Net Recommended

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

> > RTP/RTN/RTF Ratings
> >  L = Low Response
> >  M = Moderate Response
> >  H = High Response

2 Height S = Short M = Medium T = Tall

The comparison ratings are with CROPLAN® wheats only. These ratings reflect trends observed in research trials, which will change based on various factors, including variations in rainfall, temperature and production patterns.



Product Name	
Attributes	
Placement	
Product Name	
Attributes	
Placement	
Product Name	
Attributes	
Placement	
Product Name	
Attributes	
Placement	



# SEED TREATMENTS

1 of 2

# Warden<sup>®</sup> CX

#### WARDEN<sup>®</sup> CX SEED TREATMENT HELPS PROTECT YIELD POTENTIAL FROM THE START

Warden® CX insecticide-fungicide seed treatment is designed to protect high-value seed from yield-robbing seedling disease and insect pests. Containing three fungicides for multiple modes of action, Warden® CX seed treatment can help provide optimal protection against *Fusarium, Rhizoctonia, Phytophthora* and *Pythium.* With Cruiser® insecticide for unmatched defense against seed and foliarfeeding insects, Warden® CX seed treatment is the first step toward high yield and profit potential.

#### EARLY-SEASON ADVANTAGES

Warden<sup>®</sup> CX seed treatment features the following crop protection advantages over untreated seed:

- Increases plant stands, promotes quick canopy closure and can improve yield potential.
- Helps improve root health and provides industry-leading *Rhizoctonia* protection.
- Contains sedaxane, the first fungicide developed exclusively for use as a seed treatment.
- Warden<sup>®</sup> CX includes one of the highest available rates of Apron XL<sup>®</sup> fungicide available in the industry. This allows for extended *Phytophthora* control in tough growing conditions.

#### ADDITIONAL ADVANTAGES

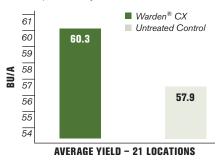
- Incorporates the active ingredient from Cruiser<sup>®</sup> insecticide, an industry standard for seed-applied insect protection, delivering the patented vigor effect (U.S. Patent number 6,753,296).
- Improves seed handling and flowability.

#### **OUTSTANDING DISEASE PROTECTION**

Warden<sup>®</sup> CX seed treatment contains sedaxane, a fungicide designed exclusively as a seed treatment. Creating strong, healthy root systems, it also provides *Rhizoctonia* protection. Warden<sup>®</sup> CX seed treatment has a high rate of mefenoxam, providing *Pythium* and *Phytophthora* seed and young seedling protection.

#### WARDEN<sup>®</sup> CX SEED TREATMENT HAS BEEN SHOWN TO IMPROVE PLANT STANDS, REGARDLESS OF PLANTING DATE<sup>1</sup>

Data from these trials showed that Warden<sup>®</sup> CX is a premier soybean seed treatment.



Source: 21 locations across key soybean-growing states; trials conducted with independent contract researchers.

1. Because of 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.

#### **DISEASES AND INSECTS CONTROLLED**

Warden<sup>®</sup> CX seed treatment is designed to control a broad spectrum of destructive diseases, including the following:

#### DAMPING-OFF AND SEED ROTS

- Fusarium
- Pythium
- Phytophthora
- Rhizoctonia

#### **ROOT ROT**

- Phomopsis\*
- Sclerotinia\*
- Phytophthora
- \*Suppression only.

Warden<sup>®</sup> CX seed treatment is also designed to control a wide variety of destructive insects, including the following:

- Aphids
- Bean leaf beetles
- Grape colaspis
- Leafhoppers
- Leaf miners
- Mexican bean beetles
- Seedcorn maggots
- Threecornered alfalfa hoppers
- Thrips
- White grubs
- Wireworms

#### PAIR WARDEN® CX WITH AN INOCULANT

Help meet the nitrogen needs of soybean crops by adding a microbial inoculant. These symbiotic rhizobia bacteria fix atmospheric nitrogen, improving modulation and boosting plant-available nitrogen.



# SEED TREATMENTS

2 of 2

# Fortivent<sup>®</sup> Plus

#### EARLY-SEASON INSECT AND DISEASE CONTROL WITH OPTIMIZED PLANT VIGOR

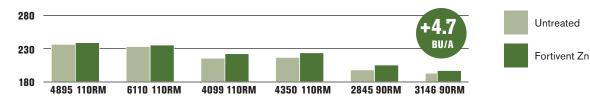
Fortivent<sup>®</sup> Plus seed treatment combines the early-season insect control of Poncho<sup>®</sup> VOTiVO<sup>®</sup> seed treatment, INTEGO<sup>®</sup> Solo fungicide for enhanced *Pythium* control and Fortivent Zn for early-season corn vigor. The Poncho<sup>®</sup> insecticide at a rate of 500 mg active ingredient combined with the nematode control of VOTiVO<sup>®</sup> seed treatment is designed to help control insects, while Fortivent Zn aids in early corn development, including stand establishment and enhanced yield potential.

#### ▶ Fortivent<sup>®</sup> Plus Features and Benefits

- All CROPLAN<sup>®</sup> Signature hybrids come with Poncho<sup>®</sup> VOTiVO<sup>®</sup> seed treatment
- Provides enhanced Pythium control with INTEGO® Solo fungicide
- · Includes Fortivent Zn for success in early-season growth and root development
- Includes 100% replant offering on all CROPLAN® Signature hybrids

#### YIELD ADVANTAGE

#### ▶ Fortivent Zn - 2018 Answer Plot® Testing



Active Ingredients*	Rates		
Insecticide			
Clothianidin	500		
*Clothianidin	1,250		
Base Fungicides (Acceleron <sup>®</sup> Seed Treatment)			
Fluoxastrobin	0.24 fl. oz./100 lbs. of seed		
Prothioconazole	0.24 fl. oz./100 lbs. of seed		
Metalaxyl	0.10 fl. oz./100 lbs. of seed		
Ethaboxam (INTEGO® Solo)	0.34 fl. oz./100 lbs. of seed		
Nematicide			
Poncho® VOTiVO® - 500	2.7 fl. oz./80,000 seeds		

\*Always read and follow label instructions.





#### **INNOVATIVE TECHNOLOGY**

Traits include SmartStax<sup>®</sup> corn technology with a broad spectrum of control for aboveand belowground insects, along with herbicide tolerance. DroughtGard<sup>®</sup> Hybrids are available with risk-management benefits for corn hybrids facing drought stress.

#### CORN TRAITS

- Farmers choose their level of insect protection field by field.
- SmartStax<sup>®</sup> RIB Complete<sup>®</sup> corn blend offers a broad spectrum of above- and belowground insect protection with the simplicity and convenience of a singlebag refuge solution. Two modes of action against corn earworm and corn rootworm help optimize yield potential.
- As the first double-stacked corn trait with two ways to help control ear-feeding insects, VT Double PRO® corn delivers a broad spectrum of protection against above-ground pests, including European corn borer, southwestern corn borer, fall armyworm and corn earworm.
- DroughtGard<sup>®</sup> Hybrids provide farmers with a valuable tool for managing waterdeficit risks.

SmartStax<sup>®</sup> technology helps protect corn against ear-feeding insects.





#### SMARTSTAX® RIB COMPLETE® CORN BLEND

- It includes a 5% structured refuge, the lowest in the corn-growing area.
- Roundup Ready<sup>®</sup> 2 Technology and LibertyLink<sup>®</sup> herbicide tolerance provide weed control.
- This corn trait platform is achieved through best-in-class trait integration to help provide the highest level of whole-farm success.

#### Aboveground Control

SmartStax<sup>®</sup> technology controls aboveground insects by uniting *Bacillus thuringiensis* (B.t.) proteins with multiple modes of action from VT Triple PRO<sup>®</sup> and Herculex<sup>®</sup>. It stops stalk-feeding insects, such as corn borers, and protects against ear-feeding insects, including western bean cutworm, corn earworm and black cutworm. This protection has the potential to help improve grain quality.

#### Belowground Control

Belowground, SmartStax<sup>®</sup> technology combines high-performing VT Triple PRO<sup>®</sup> trait protection with complementary Herculex<sup>®</sup> XTRA rootworm protection. This unique combination of B.t. technologies provides season-long control of corn rootworm, a primary pest.

#### Roundup Ready<sup>®</sup> 2 Technology and LibertyLink<sup>®</sup> Traits Together

In addition to above- and belowground insect control traits, SmartStax® products include standard-setting weed control the Roundup Ready® 2 Technology and LibertyLink® systems — for unprecedented weed management.

#### The First Single-Bag Refuge Solution

SmartStax<sup>®</sup> RIB Complete<sup>®</sup> corn blend products are a single-bag refuge solution for farmers — the first of its kind on the market. With SmartStax<sup>®</sup> RIB Complete<sup>®</sup> corn blend, the refuge seed is distributed in the bag along with seeds containing the SmartStax<sup>®</sup> trait, allowing farmers to plant an entire field with just one product. Farmers in corn-growing areas will no longer need to plant a separate, structured refuge when they use SmartStax<sup>®</sup> RIB Complete<sup>®</sup> corn blend.



- SmartStax<sup>®</sup> RIB Complete<sup>®</sup> Corn Blend Benefits
- Controls key above- and belowground insects.
- Provides optimal yield protection with two ways to control corn rootworm and corn earworm.
- Includes a blend of 95% traited and 5% refuge seed with no separate, structured refuge required in the corn-growing area.
- Offers a truly simple refuge-in-a-bag solution just fill your planter and go.
- Bringing New Germplasm to Market Faster

SmartStax<sup>®</sup> RIB Complete<sup>®</sup> corn blend products are developed using best-in-class trait integration that can bypass traditional slower breeding processes. This allows seed brands to bring new germplasm to market sooner. With all-in-one protection, seed brands will now be able to better evaluate each product's true performance in the field.



#### VT DOUBLE PRO® RIB COMPLETE® CORN BLEND

VT Double PRO® RIB Complete® corn blend allows you to plant the most traited acres fencerow to fencerow with the simplicity of a single-bag solution. There's no need to calculate or plant a separate structured refuge ever again. VT Double PRO® RIB Complete® corn includes 95% traited seed and 5% refuge seed. You get all the benefits of the VT Double PRO® trait plus the convenience of 5% refuge seed interspersed in every bag.

- VT Double PRO<sup>®</sup> RIB Complete<sup>®</sup> Corn Blend Benefits
- Optimal yield protection with two ways to control corn earworm.
- A blend of 95% traited and 5% refuge seed with no separate, structured refuge required in corn-growing areas.
- The truly simple refuge-in-a-bag solution just fill your planter and go.

**VTDoublepro** 

#### THE TRULY SIMPLE REFUGE-IN-A-BAG SOLUTION

RIB Complete<sup>®</sup> is a single-bag refuge solution for farmers. With RIB Complete<sup>®</sup> corn blend, the refuge seed is distributed in the bag along with seeds containing B.t. traits, allowing farmers to plant an entire field with just one product. Farmers in the Corn Belt will no longer need to plant a structured refuge when they use RIB Complete<sup>®</sup> corn blend products.





#### UNLOCK MORE PROFITABILITY POTENTIAL

Built on the high-yielding Roundup Ready 2 Xtend<sup>®</sup> technology, XtendFlex<sup>®</sup> soybeans offer proven performance potential and herbicide tolerance to dicamba, glyphosate and glufosinate. These three modes of action give farmers control over 337 weeds<sup>1</sup> and up to 14 days of soil activity on certain smallseeded broadleaf weeds from XtendiMax<sup>®</sup> herbicide and VaporGrip<sup>®</sup> Technology, a restricted use pesticide.<sup>2</sup>

XtendFlex<sup>®</sup> soybean varieties are bred with the latest genetics to improve yield potential. Herbicide application flexibility and outstanding agronomic benefits give farmers more opportunity to improve their bottom line.



#### AN EASY FIT FOR YOUR OPERATION

Enlist E3<sup>®</sup> soybeans offer the most advanced trait technology available in soybeans, providing a new standard for weed control and yield performance. Farmers gain access to more herbicides featuring effective sites of action for better weed control.

Enlist E3<sup>®</sup> soybeans offer resistance to 2,4-D choline, glyphosate and glufosinate and have no plant-back restrictions after using an Enlist<sup>™</sup> herbicide for burndown. Enlist E3<sup>®</sup> soybeans are compatible with nearby crops, such as soybeans without the Enlist<sup>™</sup> trait, alfalfa, corn, peanuts, sorghum, rice and wheat. Farmers can apply Enlist<sup>™</sup> herbicides on Enlist E3<sup>®</sup> soybeans planted right next to these compatible crops with no wind directional restrictions.

This technology gives farmers the confidence to take down tough weeds such as Palmer amaranth, common and giant ragweed, waterhemp, and marestail, along with other tough-to-control broadleaf weeds such as lambsquarters and velvetleaf.

### Drought Gard

#### DROUGHTGARD® HYBRIDS

DroughtGard® Hybrids are part of a system to help farmers manage risk by mitigating yield loss due to drought. The system offers farmers improved genetics, agronomic practice recommendations and the droughttolerant biotech trait. DroughtGard® Hybrids can help increase hydroefficiency under drought stress, which can result in increased kernel numbers and reduced frequency of barren plants, providing the opportunity to reduce yield loss in certain drought conditions. DroughtGard® Hybrids are available for sale in all states.

#### Traits Available With DroughtGard<sup>®</sup> Hybrids

DroughtGard<sup>®</sup> Hybrids will be available with the following corn traits: VT Double PRO<sup>®</sup> corn, VT Double PRO<sup>®</sup> RIB Complete<sup>®</sup> corn blend and Roundup Ready<sup>®</sup> Corn 2.

#### Advantages of DroughtGard<sup>®</sup> Hybrids

- In drought-stress conditions that caused damaging yield losses, comparisons demonstrated a 5-bushel-per-acre performance advantage with DroughtGard<sup>®</sup> Hybrids over commercially available competitive check products.<sup>3</sup>
- Ongoing research indicates that products with the drought-tolerant biotech trait have had more kernels per ear and can use less water during severe drought stress.

 DroughtGard<sup>®</sup> Hybrids have the potential to maintain top-end yield in well-watered conditions and provide a valuable tool for managing water-deficit risks.



#### **ROUNDUP READY® CORN 2 SYSTEM**

Whether you follow a pre- and postemergence spray program or only spray postemergence, Roundup Ready<sup>®</sup> Corn 2 will fit your system. Designed to work with Roundup<sup>®</sup> agricultural herbicides, the Roundup Ready<sup>®</sup> Corn 2 System provides outstanding yield potential without the crop injury other postemergence herbicides can cause.



#### **ROUNDUP READY 2 XTEND® SOYBEANS**

Built on high-yielding Roundup Ready 2 Yield<sup>®</sup> soybean technology, Roundup Ready 2 Xtend<sup>®</sup> soybeans contain the industry's first biotech-stacked soybean trait with both dicamba and glyphosate herbicide tolerance.

This tolerance gives farmers access to additional tools to help control glyphosateresistant broadleaf weeds such as Palmer amaranth, waterhemp and marestail, along with other tough-to-control broadleaf weeds such as lambsquarters and velvetleaf.

This technology offers the yield and quality potential that farmers already know and trust from Roundup Ready 2 Yield<sup>®</sup> soybeans.

1. Based on approved EPA herbicide labels for the herbicides recommended for use in each system as of 10/28/2020.

2. Results may vary, depending on rain fall and soil type. Always use dicamba with residual herbicides in pre-emergence and post-emergence applications that have different, effective sites of action, along with other Diversified Weed Management Practices.

3. 2012 Monsanto GroundBreaker plot trial based on approximately 250 growers in the western Great Plains.







#### **ROUNDUP READY 2 YIELD® SOYBEANS**

With more three-, four- and five-bean pods, Roundup Ready 2 Yield® soybeans offer a proven yield advantage over the competition. With more beans per pod and more bushels per acre, Roundup Ready 2 Yield® soybeans also provide more profit potential.

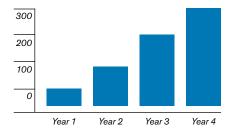
Research demonstrates a significant yield increase with Roundup Ready 2 Yield<sup>®</sup> soybeans over Roundup Ready<sup>®</sup> soybeans, with the same simple, dependable weed control as the Roundup Ready<sup>®</sup> Soybean System.<sup>1</sup>

#### Powerful Performance

Roundup Ready 2 Yield<sup>®</sup> soybeans contain in-plant tolerance to Roundup<sup>®</sup> agricultural herbicides, allowing farmers to spray Roundup<sup>®</sup> agricultural herbicides on crops from emergence through flowering.

The occurrence of more three-, four- and five-bean pods per plant is contributing to the increased yields seen with Roundup Ready 2 Yield<sup>®</sup> soybeans. These soybeans have demonstrated a clear yield advantage opportunity over the competition by delivering an average of 4.5 bushels per acre more than original Roundup Ready<sup>®</sup> soybeans.<sup>2</sup>

#### CUMULATIVE NUMBER OF ROUNDUP READY 2 YIELD® VARIETIES



 Roundup Ready 2 Yield<sup>®</sup> soybeans yield higher than Roundup Ready<sup>®</sup> soybeans, based on 73 Monsanto field trials (17 to 20 per year) from 2004 to 2007. The four-year average percentage increase for Roundup Ready 2 Yield<sup>®</sup> equals 8.63, with a 95% confidence interval of 6.8% to 10.5% advantage from Roundup Ready 2 Yield<sup>®</sup>.
 Data as of October 29, 2012. Includes all breeding and commercial strip trial data. All headto-head comparisons are within a +/-0.4 day maturity. Data represents the top-performing Roundup Ready 2 Yield<sup>®</sup> products (with a minimum of 30 comparisons per product) versus competitive Pioneer<sup>®</sup> and NK<sup>®</sup> brands with Roundup Ready<sup>®</sup> by state.

#### ACCELERON<sup>®</sup> PROMOTES STRONG EARLY-SEASON GROWTH



### ACCELERON® SEED APPLIED SOLUTIONS FOR CORN

Acceleron® Seed Applied Solutions help corn seedlings emerge strong by providing superior protection against seed and seedling diseases as well as early-season insects and pests. With protection from Acceleron® Seed Applied Solutions at planting, high-yielding seed develop more uniform, vigorous plant stands for high yield potential.

#### Insect and Disease Protection for Corn

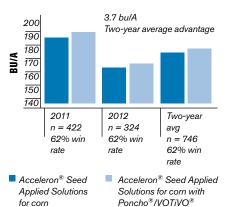
**Insect Protection:** Protection from earlyseason pests such as wireworms, seedcorn maggots, white grubs, grape colaspis and black cutworms (suppression).

**Disease-Fighting Protection:** Excellent control of soilborne and seedborne disease, including *Fusarium*, *Rhizoctonia* and *Pythium*.

#### Poncho<sup>®</sup>/VOTiVO<sup>®</sup> for Corn, Soybeans and Cotton

Acceleron<sup>®</sup> Seed Applied Solutions paired with Poncho<sup>®</sup>/VOTiVO<sup>®</sup> helps protect against seed and seedling diseases and early-season pests.

- For corn: Offers a unique biological mode of action for nematode management. Protects against damage from a range of nematode species and early-season insects, from planting through early development.
- For soybeans: Can provide the maximum level of protection against seed and seedling diseases; early-season insects; and nematodes including soybean cyst, reniform and root-knot.
- For cotton: Controls early-season insects such as thrips and aphids, and also protects against damage from nematodes including reniform and root-knot.
- ► Two-Year Performance



Source: 2011 and 2012 Internal Monsanto Commercial Field Trials. Individual results may vary.





#### ECONOMICAL, CONSISTENT HERCULEX<sup>®</sup> YIELD PROTECTION

Herculex<sup>®</sup> Insect Protection technology helps top-performing hybrids achieve their highest performance potential.



#### HERCULEX® XTRA

Herculex<sup>®</sup> XTRA Insect Protection combines Herculex<sup>®</sup> I Insect Protection and Herculex<sup>®</sup> RW Rootworm Protection for powerful protection above- and belowground. It enables top-performing hybrids to reach their optimal yield potential by combining high-yielding genetics with consistent, season-long control of European corn borer, corn rootworm and black cutworm.

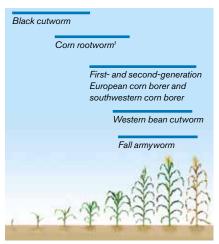
Herculex<sup>®</sup> XTRA is stacked with LibertyLink<sup>®</sup> technology, offering the ability to use a costeffective, alternative weed-control option such as Liberty<sup>®</sup> herbicide or a conventional herbicide program. Herculex<sup>®</sup> XTRA is an effective corn insect management trait option for greater profit potential.



#### **HERCULEX®** I

If you don't need corn rootworm protection, **Herculex® I** *Insect Protection* gives full-plant protection all season long against European corn borer, black cutworm and other yieldrobbing, aboveground pests. All Herculex® I hybrids contain LibertyLink® technology, making them resistant to over-the-top applications of Liberty® herbicide.

#### HERCULEX® XTRA AND HERCULEX® I Deliver a wide window of protection



#### **CROP AND GRAIN MARKETING STEWARDSHIP**

Dow AgroSciences is a member of Excellence Through Stewardship® (ETS). Dow AgroSciences products are commercialized in accordance with ETS product launch stewardship guidance and Dow AgroSciences Product Launch Stewardship Policy. No crop or material produced from this product can be exported to, used, processed or sold 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 this product. For further information about your crop or grain marketing options, contact DAS at 877-4-TRAITS (877-487-2487). Information regarding the regulatory and market status of agricultural biotechnology products can be found at www.biotradestatus.com.

Properly managing trait technology is key to preserving it as a long-term crop protection tool. Growers who fail to comply with insect resistance management (IRM) requirements risk losing access to this product. To help preserve the effectiveness of B.t. corn technologies, growers planting B.t. corn technologies are required to follow an IRM Plan. Consult the Corn Product Use Guide for appropriate refuge configuration options. Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Technology Use Agreement and Product Use Guide. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements. For complete details on IRM requirements for hybrids with B.t. technology, including refuge examples and important information on the use of insecticides on refuge and B.t. corn acres, please consult the appropriate Product Use Guide. Go to www.corteva.us/Resources/ trait-stewardship.html to download the latest Dow AgroSciences Corn Product Use Guide. Herculex<sup>®</sup> Insect Protection technology by Dow AgroSciences and Pioneer<sup>®</sup> Hi-Bred. Herculex<sup>®</sup> and the Herculex<sup>®</sup> logo are trademarks of The Dow Chemical Company ("Dow") or an affiliated company of Dow. Bayer CropScience LP, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709. Always read and follow label instructions. Liberty<sup>®</sup>, LibertyLink<sup>®</sup> and the Water Droplet Design are registered trademarks of Bayer. Liberty<sup>®</sup> is not registered in all states. For additional product information, call toll-free 1-866-99-BAYER (1-866-992-2937) or visit our website at www.BayerCropScience.us.

1. Corn rootworm is only controlled with Herculex<sup>®</sup> XTRA Insect Protection. Follow IRM, grain marketing and all other stewardship practices and pesticide label directions.





#### BREAKTHROUGH AGRISURE® TRAIT TECHNOLOGY

Agrisure<sup>®</sup> traits deliver corn insect control, water optimization technology and outstanding herbicide tolerance to optimize the yield potential of elite hybrids.

#### **AGRISURE ARTESIAN®**

#### Maximize yield potential when it rains and increase yield potential when it doesn't.

Built using scientifically selected genes, this elite class of high-performing hybrids can respond to water stress with multiple genes and at virtually any stage of growth — managing gaps in rainfall throughout the season. Artesian™ corn hybrids can help manage the unpredictability of weather and improve yield consistency by converting water to grain more efficiently than other hybrids.

#### AGRISURE ARTESIAN® ADVANTAGE

#### AGRISURE VIPTERA®

 More control of more insects for more yield potential.

Agrisure Viptera<sup>®</sup> trait stacks provide the most comprehensive corn insect control, reducing insect feeding damage to ears and the subsequent development of molds and mycotoxins. By controlling major leaf-, stalkand ear-feeding corn insects, the Agrisure Viptera<sup>®</sup> trait offers better crop stands and lower levels of disease, resulting in increased yield and profit potential.

#### ► Agrisure Viptera® 3111

Above- and belowground insect control.

#### ► Agrisure Viptera<sup>®</sup> 3220 E-Z Refuge<sup>®</sup>

Dual modes of action against aboveground insects, with a 5% single-bag refuge.

Trait stacks containing the Agrisure Viptera® trait are also available in combination with Agrisure Artesian® technology for maximized yield in water-stressed environments.

### AGRISURE VIPTERA® TRAIT PERFORMANCE ON WESTERN BEAN CUTWORM<sup>1</sup>



Hybrid with the Agrisure Viptera<sup>®</sup> trait

Hybrid without the Agrisure Viptera<sup>®</sup> trait

1. Agrisure Viptera<sup>®</sup> on western bean cutworm vs. competitive hybrid. Sterling, Colo., 2014.



Elkville, Ill., 2012





### ACHIEVE REAL YIELDS WITH THE LIBERTYLINK® SYSTEM

The LibertyLink<sup>®</sup> trait and Liberty<sup>®</sup> herbicide offer a broad-spectrum weed-control program and an effective resistancemanagement tool.

Farmers can preserve the value of glyphosate-tolerant crops by rotating them to the LibertyLink® trait and Liberty® herbicide. This efficient system is the only alternative crop technology available that maintains the simplicity of glyphosate-tolerant crop systems while controlling a wide spectrum of broadleaf weeds and grasses, including weeds resistant to glyphosate and other herbicide classes.

# **Liberty**<sup>®</sup>

#### LIBERTY® HERBICIDE

Liberty<sup>®</sup> herbicide delivers superior weed control across enabled trait systems, with greater application flexibility, unmatched convenience and no known resistance in U.S. row crops. Liberty<sup>®</sup> provides:

- Trait flexibility across today's trait platforms
- Excellent weed control from the broadest spectrum herbicide, for control of tough weeds like Palmer amaranth and waterhemp
- Peace of mind with Liberty<sup>®</sup> herbicide's proven formulation that provides reliable, consistent performance and is backed by the Liberty<sup>®</sup> Herbicide Weed Control Guarantee

Talk to your retailer to learn how you can qualify for the Liberty<sup>®</sup> Guarantee as well as to learn more about your local S.T.O.P. Weeds application guidelines for maximum weed control.

#### LIBERTYLINK® SYSTEM



#### LibertyLink<sup>®</sup> Soybeans<sup>1</sup>

The LibertyLink<sup>®</sup> system combines the highperforming LibertyLink<sup>®</sup> trait with the power of Liberty<sup>®</sup> herbicide for proven excellent yield performance. The system provides excellent weed control with greater flexibility and convenience.

#### Features & Benefits

- Excellent yield performance
- High-performing genetics, protected by excellent weed control, to ensure weeds are better controlled to reduce their drain on yield
- 2+ bu/A advantage over Asgrow<sup>®</sup> Roundup Ready 2 Xtend<sup>®</sup> in over 2,100 observations<sup>1</sup>

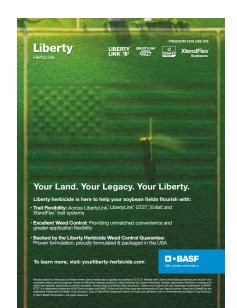
#### LibertyLink<sup>®</sup> Corn

The LibertyLink<sup>®</sup> system enables growers to use the powerful Liberty<sup>®</sup> herbicide, a nonselective herbicide effective on tough-tocontrol grasses and broadleaf weeds, for overthe-top use on over 50 million LibertyLink<sup>®</sup>enabled corn hybrid acres with Herculex<sup>®</sup>, Genuity<sup>®</sup> SmartStax<sup>®</sup> and Agrisure<sup>®</sup> hybrids with corn-borer protection. The LibertyLink<sup>®</sup> system is simply the better solution built upon high-performing genetics and excellent weed control for a stronger yield.

#### ► InVigor<sup>®</sup> LibertyLink<sup>®</sup> Canola

The LibertyLink<sup>®</sup> system is the simply better solution built upon high-performing genetics and excellent weed control that delivers real yield. InVigor<sup>®</sup> canola hybrids enabled with the LibertyLink<sup>®</sup> trait are top performers, known for consistently outstanding yield potential, vigorous early-season growth, uniform height and maturity, and excellent harvestability enabled by the pod shatter resistance trait. The LibertyLink<sup>®</sup> system provides excellent weed control and preserves the yield of high-performing hybrids.

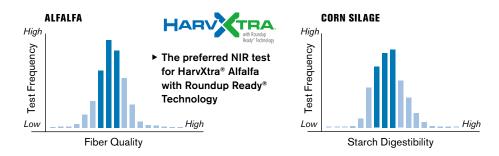
 Yield shown summarizes average of LibertyLink<sup>®</sup> and Asgrow<sup>®</sup> RRXtend varieties entered across the Midwest, Delta, Northeast and the Southwest.





#### WITH HIGH- OR LOW-QUALITY FORAGES, CALIBRATE® TESTS DELIVER RELIABLE ACCURACY

Laboratory analysis can be less accurate when forage quality is not average. In the quality graphs below, the light bars represent where fiber and starch digestibility is either high or low. The analysis accuracy of these extremes is financially critical to forage growers and dairy farmers. Calibrate<sup>®</sup> forage quality tests maintain their accuracy as feeds drift toward the extremes.



#### CALIBRATE® PATENTED FORAGE QUALITY TESTS OFFER EXCEPTIONAL DIGESTIBILITY INFORMATION

Calibrate® technology provides forage analysis testing with improved accuracy for forages of all qualities. Designed to eliminate the necessity of an in vitro analysis (wet chem), Calibrate® forage analysis tests were developed using in vitro results from over 125,000 samples and 15 years of research, representing a wide range of forage quality from across the U.S. The volume of samples tested and the emphasis on samples of extreme quality (high and low) make Calibrate® forage analysis more precise.

#### CALIBRATE® HIGH QUALITY FORAGE ANALYSIS FOR ALFALFA

In addition to starch and fiber digestibility values for feed and forage feedstuffs, Calibrate® also offers the Calibrate® HQ Forage Analysis specifically targeted at alfalfa. This test provides crude protein, ash, NDF and NDFD, as well as calculated values for summative TDN, RFV and RFQ. Coming in 2021 will be the addition of a value for Leaf Percentage to help understand how the leaf to stem ratio affects alfalfa quality.

For more information, contact your local WinField United representative or go to www.calibratetechnologies.com.





#### **CALIBRATE® TECHNOLOGIES**

#### **KNOW THE QUALITY OF YOUR FORAGES**

Variation in any dairy feeding program can cause underperformance: lost milk production, lower feed efficiency and lower profit potential. Calibrate® fiber and starch quality tests are designed to reduce the impact of nutrition variation in feedstuffs and allow more value to be obtained from forages, grown or purchased.

Calibrate<sup>®</sup> patented forage quality tests are designed to:

- Feed homegrown forages more effectively.
- Assist in making informed decisions when purchasing hay.
- Enable and assist your nutritionist to further improve rations.
- Confidently feed highly digestible forages in the ration and maximize ROI potential.
- Get optimal performance out of lowerquality forages.
- Determine if forage quality is a limiting factor to milk production.
- Provide more peace of mind because better decisions are made with available feedstuffs.





#### THE KEMIN<sup>®</sup> NUTRISAVE<sup>®</sup> SYSTEM HELPS OPTIMIZE FORAGE QUALITY

The Kemin® NutriSAVE® Forage Management System is a complete forage management approach to preserving quality in the forages you grow for use in dairy or beef production. The products and support offered through the NutriSAVE® System aid producers in helping maintain forage quality by reducing shrinkage and spoilage, resulting in better nutrition. The NutriSAVE® System includes management recommendations from harvest to storage and through feeding. The system's crop- and condition-specific products include the latest technology and are backed by current research and experts in the forage management field.

#### ACID-BASED PRODUCTS

- Fresh CUT<sup>®</sup> Plus Liquid Hay Preservative Applied to hay baled at up to 25% moisture. The blend of acids helps control the growth of mold and wild yeast, preventing bale heating and preserving nutrients.
- Silage SAVOR<sup>®</sup> Plus Liquid and Silage SAVOR<sup>®</sup> Dry Silage Preservatives
   These forage preservatives are applied to ensiled crops before storage. The acid blends are used to prevent mold and wild yeast growth, allowing for improved fermentation.
- Myco CURB<sup>®</sup> Liquid and Dry Mold Inhibitors

Designed to prevent mold growth on stored grain, feed and feed ingredients. For more than 35 years, Myco CURB<sup>®</sup> has been the gold standard for mold control.

 Ultra CURB<sup>®</sup> Liquid and Dry Mold Inhibitors

These products contain a powerful blend of four organic acids designed to control heating in total mixed rations (TMRs).

### BENEFITS OF THE NUTRISAVE® PROGRAM AND PRODUCTS

The minute forages are harvested, the race against time begins. The crop quickly deteriorates after cutting, and the quality CROPLAN® seed that was so carefully selected can fail to deliver the nutrients expected without proper preservation. Forage quality can have a huge impact on your operation's profitability and performance. That is why generating the most value from the forages you grow is important. Highquality forage optimizes productivity and herd health.

The NutriSAVE® Forage Management System features acid-based solutions. The blended organic acid products work to reduce mold and wild yeast growth to widen harvest windows, enhance fermentation and increase aerobic stability, both before and after storage. The flexibility to offer the ideal solution for nearly every forage management challenge is why producers have relied on the NutriSAVE® Forage Management System for decades.

### KEY FEATURES OF USING NUTRISAVE® PRODUCTS

- Acid-based products for all forage applications.
- Helps reduce shrinkage and spoilage of dry matter.
- Reduces growth of mold and wild yeast.
- · Promotes faster fermentation or curing.
- Extends aerobic stability at feedout.
- Supports optimal animal performance.

#### PROVEN PERFORMANCE WITH NUTRISAVE® PRODUCTS AND PROGRAMS

Extensive laboratory, university and field trials show that NutriSAVE® products can outperform other additives. By using the tools and resources available, NutriSAVE® programs can help you achieve a greater potential return on your forage investment. For more information about the Kemin® NutriSAVE® Forage Management System, talk with your WinField United representative or contact Kemin® at KeminAg@kemin.com or 515-559-5304. Additional product details are available online at kemin.com/feedquality.

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<sup>®™</sup> Trademarks of Kemin Industries, Inc., U.S.A. Certain statements may not be applicable in all geographical regions. Product labeling and associated claims may differ based upon government requirements.

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#### PROPER MANAGEMENT PROTECTS TECHNOLOGY'S VALUE

Sound management practices and compliance with stewardship requirements will help protect the benefits and value of biotech trait seed technology for future generations.

#### SOYBEAN AND CANOLA PIRACY

Seed containing a patented trait can only be used to plant a single commercial crop. It is unlawful to save and replant seed from that crop. Examples of seed containing a patented trait include but are not limited to XtendFlex® soybeans, Roundup Ready 2 Yield<sup>®</sup> soybeans, Roundup Ready 2 Xtend<sup>®</sup> soybeans, TruFlex<sup>™</sup> canola, Roundup Ready<sup>®</sup> spring canola and Roundup Ready<sup>®</sup> winter canola. Additional information and limitations on the use of these products are provided in the Technology Stewardship Agreement, the Bayer Technology Use Guide: https://tug.bayer.com. U.S. patents for Bayer technologies can be found at the following webpage: http://www. monsantotechnology.com.

#### **INSECT RESISTANCE MANAGEMENT**

Insect-protected crops are genetically improved to provide in-plant protection against selected insect pests. Beneficial insects are not affected. To preserve the benefits and insect protection of these technology crops, Bayer CropScience, Syngenta Crop Protection and Dow AgroSciences have developed IRM guidelines that must be incorporated by everyone purchasing and planting insectprotected crops.

# Think Before You Bin Run

Verification Required The last patent on the original Roundup Ready<sup>®</sup> soybean trait expired a few years ago and U.S. farmers may legally plant saved seed from some varieties of soybean containing the Roundup Ready<sup>®</sup> soybean trait. However, it is important that you check with your seed supplier to determine if a specific Roundup Ready<sup>®</sup> soybean variety is covered by other intellectual property rights, and if so, the policy for saving seed of that variety.

Higher Seeding Rate A higher seeding rate may be required for bin-run Roundup Ready® soybeans compared to new branded seed. Yield Loss Roundup Ready 2 Yield®, Roundup Ready 2 Xtend® and XtendFlex® soybean varieties typically have a higher yield opportunity than Roundup Ready® soybean varieties.

Cleanout Loss loss of seed and/or shrink occurs during the seed cleaning and handling processes for bin-run seed. Seed Treatment Costs Treating your seed will add costs—both the cost of the treatment and the application of that treatment. Lost Income Every bushel of saved seed you plant is a bushel you're not selling as commodity grain.

Increased Seed Management If you plan to save and bin-run Roundup Ready<sup>9</sup> soybeans for planting, you will have to manage your harvest operations and grain storage so that the seed isn't co-mingled with other seed that's covered by intellectual property rights.

# For more information on seed intellectual property protection, or to anonymously report a tip, please call 1-866-99-BAYER. For a list of relevant patents visit www.monsantotechnology.com

Roundup Ready 2 Yield<sup>®</sup> soybeans and Roundup Ready 2 Xtend<sup>®</sup> soybeans are covered by different patents than original Roundup Ready<sup>®</sup> soybeans and cannot be saved and planted. For more information about seed innovation and intellectual property protection, please visit www.seedipalliance.com.

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**High Value of** 

LATEST TECHNOLOGY

CUSTOMER SERVICE // Dealer agronomic support before and after the sale

// Replant policy support

**New Branded Seed** 

// High-yielding soybean technologies // Better variety options

// Convenient packaging and delivery

// Rigorously tested and meets U.S. Federal Seed Act requirements

// Free of seed-borne diseases

// Properly stored and conditioned

RELIABLE GERMINATION AND QUALITY

// Leading seed treatment options





#### CORN INSECT RESISTANCE MANAGEMENT OVERVIEW<sup>1</sup>

QUICK COMPLIANCE GUIDE FOR DEALERS AND FARMERS

#### **1 REFUGE SIZE**

Plant the correct size refuge for the area and corn product.

#### ▶ The Corn-Growing Area

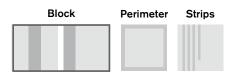
- 20% required for some B.t. products (20 acres of refuge for every 80 acres of B.t.)
- 5% only for SmartStax<sup>®</sup> and VT Double PRO<sup>®</sup> (5 acres of refuge for every 95 acres of B.t.)

#### The Cotton-Growing Area

 20% only for SmartStax<sup>®</sup> and VT Double PRO<sup>®</sup> (20 acres of refuge for every 80 acres of B.t.)

#### **2 REFUGE LOCATION**

Plant the required refuge within each field that contains B.t. 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 first 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 B.t. insect-protection traits (e.g., Roundup Ready<sup>®</sup> 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-B.t. foliar insecticide, you may have to treat the B.t. technology in a similar manner. Growers must read the IRM/Grower Guide for complete treatment options.

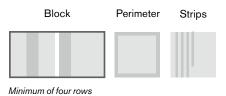
Refuge

#### **COMMON REFUGE CONFIGURATIONS**

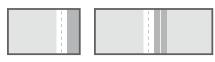
Traited corn hybrid<sup>2</sup>

#### In-Field Configuration Examples

SEPARATE REFUGE CONFIGURATIONS

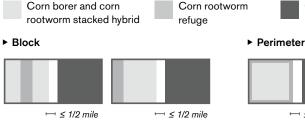


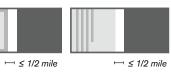
Adjacent-Field Configuration Examples



Separated by road, path, ditch, etc., but not by another field

Corn borer refuge





Strips

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 = B.t., RW or B.t./RW.





#### **REFUGE REQUIREMENTS FOR BIOTECH CORN PRODUCTS<sup>1, 2</sup>**

	% NON-B.T. REFUGE	CONFIGURATIONS	REFUGE LOCATION
SMARTSTAX® RIB COMPLETE® CORN Blend³	5% in the bag	_	No separate planted refuge is required
VT DOUBLE PRO® RIB COMPLETE® Corn Blend³	5% in the bag	_	No separate planted refuge is required
DROUGHTGARD® HYBRIDS WITH VT DOUBLE PRO® RIB COMPLETE® CORN BLEND <sup>3</sup>	5% in the bag	-	No separate planted refuge is required
SMARTSTAX® CORN	5% corn-growing areas; 20% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to SmartStax <sup>®</sup> field; if adjacent, may be separated by a road, path, ditch, etc., but not another field
VT DOUBLE PRO® CORN	5% corn-growing areas; 20% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within, adjacent to or within 1/2 mile from VT Double $\text{PRO}^{\circledast}$ field
AGRISURE VIPTERA®	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® 3000GT, AGRISURE® CB/LL/RW	20% corn-growing areas; 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Agrisure <sup>®</sup> 3000GT or Agrisure <sup>®</sup> CB/LL/RW field; if adjacent, may be separated by a road, path, ditch, etc., but not another field
AGRISURE® GT/CB/LL, AGRISURE® CB/LL	20% corn-growing areas; 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within, adjacent to or within 1/2 mile from Agrisure $^{\circledast}$ GT/CB/LL or Agrisure $^{\circledast}$ CB/LL field
HERCULEX® XTRA INSECT PROTECTION	20% corn-growing areas; 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Herculex <sup>®</sup> XTRA field; if adjacent, may be separated by a road, path, ditch, etc., but not another field
HERCULEX <sup>®</sup> I <i>INSECT PROTECTION</i>	20% corn-growing areas 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within, adjacent to or within 1/2 mile from $\operatorname{Herculex}^{\circledast}$ field

CROPLAN 

1. All refuge configurations require a minimum of four rows.

 Provided as a summary only. Farmers must read the IRM/Grower Guide prior to planting.
 SmartStax<sup>®</sup> RIB Complete<sup>®</sup>, VT Double PRO<sup>®</sup> RIB Complete<sup>®</sup> and DroughtGard<sup>®</sup> Hybrids with VT Double PRO<sup>®</sup> RIB Complete<sup>®</sup> corn blends are each a blend of 95% traited seed and 5% refuge seed interspersed in the bag and do not require a separate structured refuge in corn-growing areas.

For more detailed refuge requirements please visit: https://traits.bayer.com/stewardship/Pages/Insect-Resistance-Management.aspx



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#### **EXCELLENCE THROUGH STEWARDSHIP**

Bayer is a member of Excellence Through Stewardship<sup>®</sup> (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. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product 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 this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

### Forage Genetics International, LLC ("FGI") is a member of Excellence Through Stewardship<sup>®</sup>

(ETS). FGI products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with FGI's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Any crop or material produced from this product can only be exported to, or used, processed or sold only in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotechnology 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 this product. Growers should refer to biotradestatus.com for any updated information on import country approvals. Excellence Through Stewardship<sup>®</sup> is a registered trademark of Excellence Through Stewardship.

#### **INSECT RESISTANCE MANAGEMENT**

IMPORTANT IRM INFORMATION: Always read and follow IRM requirements. Insect-protected crops are genetically improved to provide in-plant protection against selected insect pests. Beneficial insects are not affected. To preserve the benefits and insect protection of these technology crops, Bayer, Syngenta Crop Protection and Dow AgroSciences have developed insect resistance management (IRM) guidelines that must be incorporated by everyone purchasing and planting insect-protected crops.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state 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 Roundup Ready 2 Xtend<sup>®</sup> 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 FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide 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.

**B.t.** products may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

IMPORTANT IRM INFORMATION: RIB Complete® corn blend products do not require the planting of a structured refuge **except** in the Cotton-Growing Area where corn earworm is a significant pest. **See the IRM/Grower Guide for additional information.** Always read and follow IRM requirements.

Roundup Ready<sup>®</sup> Technology contains genes that confer tolerance to glyphosate. Roundup Ready<sup>®</sup> 2 Technology contains genes that confer tolerance to glyphosate. Roundup Ready 2 Xtend<sup>®</sup> soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex<sup>®</sup> Technology contains genes that confer tolerance to glyphosate, glufosinate 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 seed brand dealer or refer to the Bayer Technology Use Guide for recommended weed control programs.

Insect control technology provided by **Vip3A** is utilized under license from Syngenta Crop Protection AG. Herculex<sup>®</sup> is a registered trademark of Dow AgroSciences LLC. Agrisure Viptera<sup>®</sup> is a registered trademark of a Syngenta group company. LibertyLink<sup>®</sup> and the Water Droplet Design<sup>®</sup> is a trademark of BASF Corporation. Respect the Refuge and Corn Design<sup>®</sup> and Respect the Refuge<sup>®</sup> are registered trademarks of National Corn Growers Association. Acceleron<sup>®</sup>, DroughtGard<sup>®</sup>, RIB Complete<sup>®</sup>, Roundup Ready 2 Technology and Design<sup>™</sup>, Roundup Ready 2 Xtend<sup>®</sup>, Roundup Ready 2 Yield<sup>®</sup>, Roundup Ready<sup>®</sup>, SmartStax<sup>®</sup>, Trecepta<sup>®</sup>, TruFlex<sup>™</sup>, VT Double PRO<sup>®</sup> and XtendFlex<sup>®</sup> are trademarks of Bayer Group.



Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, **including applicable refuge requirements for insect resistance management**, for the biotechnology traits expressed in

the seed as set forth in the Technology/Stewardship Agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation and agreement to comply with the most recent stewardship requirements.



#### Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium based herbicides.

Agrisure<sup>®</sup> Technology incorporated into these seeds is commercialized under license from Syngenta Seeds, Inc. Herculex<sup>®</sup> Technology incorporated into these seeds is commercialized under license from Dow AgroSciences LLC. HERCULEX<sup>®</sup> and the HERCULEX shield are registered trademarks of Dow AgroSciences LLC.

Seed products with the LibertyLink<sup>®</sup> (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine highyielding genetics with the powerful, non-selective, postemergent weed control of Liberty<sup>®</sup> herbicide for optimum yield and excellent weed control. LibertyLink<sup>®</sup>, Liberty<sup>®</sup> and the Water Droplet logo are registered trademarks of BASF Corporation.

#### **GENERAL DISCLAIMERS**

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 growers' fields.

#### Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status.

Please know that, despite the challenges, Bayer stands fully behind XtendiMax<sup>®</sup> herbicide and will continue working with the EPA, growers, academics, and others to provide long-term access to this important herbicide.

However, no dicamba may be used in-crop with seed in the Roundup Ready® Xtend Crop System, unless and until approved or specifically permitted by the U.S. EPA and the appropriate state agency for such use. As of July 13, 2020, no dicamba formulations are currently registered by the U.S. EPA for in-crop use with seed in the Roundup Ready<sup>®</sup> Xtend Crop System in the 2021 season. Current stocks of lowvolatility dicamba herbicides XtendiMax® herbicide, Engenia® herbicide, and FeXapan® herbicide previously approved for in-crop use with seed in the Roundup Ready<sup>®</sup> Xtend Crop System may not be used after July 31, 2020. Dicamba may harm crops that are not tolerant to dicamba. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with seed in the Roundup Ready<sup>®</sup> Xtend Crop System.

#### NOTICE: DO NOT APPLY ANY HERBICIDE TO SEED IN THE ROUNDUP READY<sup>®</sup> XTEND CROP SYSTEM UNLESS IT HAS A PRODUCT LABEL SPECIFICALLY AUTHORIZING THAT USE. TO USE A HERBICIDE IN ANY MANNER

USE. TO USE A HERBICIDE IN ANY MANNER INCONSISTENT WITH ITS LABELING IS A VIOLATION OF FEDERAL LAW. REFER TO THE BAYER TECHNOLOGY USE GUIDE FOR DETAILS AND RECOMMENDATIONS ON USING APPROVED HERBICIDES ON SEED IN THE ROUNDUP READY® XTEND CROP SYSTEM.

#### SOYBEAN AND CANOLA PIRACY

Seed containing a patented trait can only be used to plant a single commercial crop. It is unlawful to save and replant seed from that crop. Examples of seed containing a patented trait include but are not limited to Roundup Ready 2 Yield<sup>®</sup> soybeans, Roundup Ready 2 Xtend<sup>®</sup> soybeans, XtendFlex<sup>®</sup> soybeans, Roundup Ready<sup>®</sup> spring canola, Roundup Ready<sup>®</sup> winter canola, and TruFlex<sup>™</sup> canola with Roundup Ready<sup>®</sup> Technology. Additional information and limitations on the use of these products are provided in the Technology Stewardship Agreement and the Bayer Technology Use Guide: https://tug. bayer.com. U.S. patents for Bayer technologies can be found at the following webpage: http://www. monsantotechnology.com

#### ALFALFA

HarvXtra® Alfalfa with Roundup Ready® Technology: Purchase and use of HarvXtra® Alfalfa with Roundup Ready® Technology is subject to a Seed and Feed Use Agreement, requiring that products of this technology can only be used on farm or otherwise be used in the following states: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming. In addition, due to the unique cropping practices do not plant HarvXtra® Alfalfa with Roundup Ready® Technology in Imperial County, California, pending import approval and until Forage Genetics International, LLC (FGI) grants express permission for such planting. HarvXtra® Alfalfa with Roundup Ready® Technology has pending import approvals. GROWERS MUST DIRECT ANY PRODUCT PRODUCED FROM HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY SEED OR CROPS (INCLUDING HAY AND HAY PRODUCTS) ONLY TO UNITED STATES DOMESTIC USE. Any crop or material produced from this product 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.

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