CROPLAN®

2024 SEED GUIDE

CROPS

CORN // SOYBEAN // ALFALFA // CORN SILAGE // FORAGE SORGHUM // GRAIN SORGHUM // SPRING CANOLA // WINTER CANOLA // SUNFLOWER // HARD RED SPRING WHEAT // HARD RED WINTER WHEAT // SOFT RED WINTER WHEAT

CORN

Your Farm is Made for High Yields. You Need Corn That is, Too.

Optimize Seed ROI

To achieve farm topping yield potential, you need to do many things right. And that starts with CROPLAN® hybrids. It's seed that puts you on the path to maximizing ROI on each acre, beginning with exceptionally high performing genetics, which carry the latest traits and technology. But even bigger advantages come with the data and intelligence we build on top of these revolutionary corn hybrids.

NEW ANSWER PLOT® RESEARCH PROVIDES POPULATION, NITROGEN AND FUNGICIDE RESPONSE DATA FOR ALL CROPLAN CORN HYBRIDS.

That means you can fine tune management and increase yield potential in the most economically efficient manner.

- There's a 26.1bu/A average yield response advantage[1] when hybrids are managed according to their Response to Nitrogen (RTN).
- Then, there's a 19bu/A average yield response advantage[1] when hybrids are managed according to their Response to Fungicide (RTF), which not only guides the fungicide decision, but also the application timing.
- Testing and correlating plant populations, RTN and RTF allows CROPLAN seed to make sense of the almost infinite interactions between population, nitrogen, fungicide and yield response for each hybrid.

EACH HYBRID IS DIFFERENT, AND THEIR AGRONOMIC REQUIREMENTS ARE, TOO.

Putting every hybrid into the same environment won't maximize your ROI. Instead, give each hybrid what it needs when it needs it. And just as importantly, eliminate actions that don't provide the yield and revenue impact you desire.

Only CROPLAN provides this level of intelligence. And you can only find CROPLAN hybrids at the best retailers in America.

ZINC SEED TREATMENT IN THE BAG

Zinc is proven to help corn get off to a fast, healthy start and encourage stronger root development. CROPLAN is one of the only seed brands with zinc on every hybrid, in every bag, with no overtreatment or upcharge. It's a key component of our proprietary corn seed treatment – Fortivent® Plus. When you choose CROPLAN hybrids, you're gaining an agronomic edge which can help maximize ROI potential.

1. 2020 Answer Plot® trial data.

CROPLAN®

CORN

CROPLAN® TRAIT LETTERING FOR CORN HYBRIDS

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

KEY	HYBRID	TRAIT	LOGO
SS/RIB	SmartStax® RIB Complete® Corn Blend	Two built-in modes of action, to deliver maximum control of corn rootworm. As a RIB Complete® brand corn blend, means refuge compliance for the Corn-Growing Area is easier than ever. Two more sites of action provide tolerance to glyphosate and glufosinate herbicide applications.	
SSPRO/RIB	SmartStax® PRO Complete® Corn Blend	Is the next generation of protection against corn rootworm. SmartStax® PRO Technology combines the proven benefits of SmartStax® Technology with an additional, unique RNAi-based mode of action — becoming the first product with three modes of action for corn rootworm control. Plus, it's a RIB Complete® brand corn blend, which means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.	
VT2P/RIB	VT Double PRO® RIB Complete® Corn Blend	Dual modes of action for maximum protection against above-ground pests, like European and Southwestern corn borers and fall armyworm. An additional site of action helps plants withstand glyphosate to prevent weeds from competing with corn. As a RIB Complete® brand corn blend, means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.	
RR	Roundup Ready® Corn 2	Roundup Ready Corn 2 enables consistent field-to-field weed control. Engineered for glyphosate tolerance, this technology allows you to apply Roundup® brand agricultural herbicides and other labeled glyphosate products.	
TRE/RIB	Trecepta® RIB Complete® Corn Blend	Trecepta® Technology helps reduce yield loss by protecting your corn crop from a wide range of above-ground pests. Built on the proven VT Double PRO® Technology, Trecepta Technology gives you more complete control against corn borers (European and southwestern), fall armyworm, western bean cutworm, black cutworm and corn earworm. Trecepta contains Roundup Ready 2 Technology® which allows the corn plant to withstand glyphosate treatments. Plus, it's a RIB Complete® brand corn blend, which means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.	
DGVT2P/RIB	DroughtGard® VT Double PRO® RIB Complete® Corn Blend	VT Double PRO® RIB Complete® corn blend contains dual modes of action for maximum protection against above-ground pests, like European and Southwestern corn borers and fall armyworm. DroughtGard® Hybrids products are designed to help corn plants resist drought stress and minimize the risk associated with one key, unpredictable factor: The weather. The DroughtGard® Hybrids gene helps the plant create proteins that are essential for growth, helping to support yield opportunity when water is scarce. Plus, it's a RIB Complete® brand corn blend, which means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.	
D	Duracade™	The Duracade™ trait stack provides multiple modes of action against corn rootworm and corn borer, as well as suppression of ear-feeding insects. This trait stack includes a novel, alternate mode of action to help preserve trait durability and delay insect adaptation for long-term field health, and the convenience of an integrated E-Z Refuge® seed blend.	

CROPLAN®

SEED TREATMENTS

Is Zinc standard on your corn seed? It is on CROPLAN.

Fortivent® Plus
By WINFIELD UNITED

GET THE BENEFIT OF EARLY SEASON PLANT VIGOR WITH FORTIVENT® PLUS.

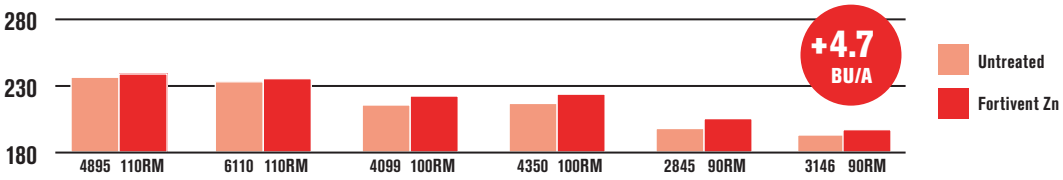
Fortivent® Plus seed treatment combines the early-season insect control of Poncho® VOTiVO® seed treatment, ethaboxam fungicide for enhanced Pythium control and Fortivent Zn for early-season corn vigor. The Poncho® insecticide at a rate of 500 mg active ingredient combined with the nematode control of VOTiVO® seed treatment is designed to help control insects, while Fortivent Zn aids in early corn development for the conversion of starch to sugar.

▸ **Fortivent® Plus Features and Benefits**

- All CROPLAN® hybrids come with Poncho® VOTiVO® seed treatment
- Provides enhanced Pythium control with ethaboxam fungicide
- Includes Fortivent Zn for success in early-season growth and root development
- Includes 100% replant offering on all CROPLAN® hybrids

UNLOCK YIELD ADVANTAGE WITH ZINC

▸ **Fortivent Zn — 2018 Answer Plot® Testing**



ACTIVE INGREDIENTS*	RATES
Insecticide	
Clothianidin	500
*Clothianidin	1250
Base Fungicides (Acceleron® 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	0.34 fl. oz./100 lbs of seed
Nematicide	
Poncho® VOTiVO®	2.7 fl. oz./80,000 seeds

Always read and follow label instructions.

winfieldunited.com

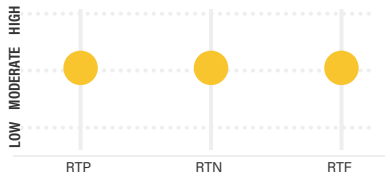
CROPLAN®

CROPLAN CP2180VT2P/RIB

Relative Maturity: **81**

VTDoublePRO RIB COMPLETE

Response Scores



- 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

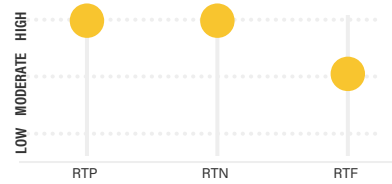
	Not Recommended → Excellent
Seedling Vigor	2
Drought Tolerance	3
Root Strength	2
Staygreen	3
Stalk Quality	2
Dry Down	2
Test Weight	3

CROPLAN CP2288VT2P/RIB

Relative Maturity: **82**

VTDoublePRO RIB COMPLETE

Response Scores



- Excellent yield stability across all environments; strong stress tolerance
- Excellent root strength with strong stalks and Goss's wilt tolerance
- Responds to enhanced nitrogen management
- Keep in relative maturity zone

Characteristics

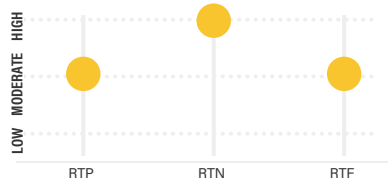
	Not Recommended → Excellent
Seedling Vigor	2
Drought Tolerance	2
Root Strength	1
Staygreen	2
Stalk Quality	2
Dry Down	2
Test Weight	1

CROPLAN CP2315VT2P/RIB

Relative Maturity: **83**

VTDoublePRO RIB COMPLETE

Response Scores



- Excellent drought tolerance to move across variable and tough acres
- Solid agronomics with strong defensive characteristics
- Manage with populations and fungicide application
- Flowers early for RM, keep in zone

Characteristics

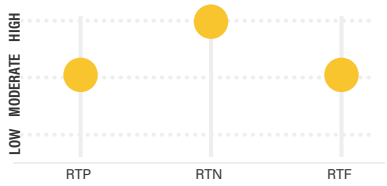
	Not Recommended → Excellent
Seedling Vigor	2
Drought Tolerance	2
Root Strength	2
Staygreen	3
Stalk Quality	3
Dry Down	2
Test Weight	3

CROPLAN CP2585VT2P/RIB

Relative Maturity: **85**

VTDoublePRO RIB COMPLETE

Response Scores



- Ideally placed on productive soils
- Strong seedling vigor for planting early
- High response to nitrogen hybrid that responds well to aggressive nitrogen management
- Use caution in drought-prone, low productive soils

Characteristics

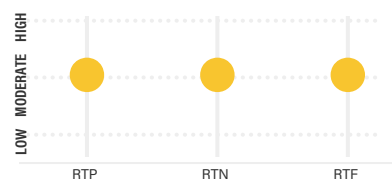
	Not Recommended → Excellent
Seedling Vigor	2
Drought Tolerance	3
Root Strength	3
Staygreen	3
Stalk Quality	2
Dry Down	2
Test Weight	3

CROPLAN CP2520RR

Relative Maturity: **86**

Roundup Ready 2 Corn

Response Scores



- Strong stress tolerance on heavy and moderate soil types
- Excellent roots and drought tolerance
- Nice ear flex for lower populations
- Optimum emergence when planted in warm soils

Characteristics

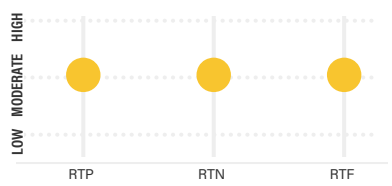
	Not Recommended → Excellent
Seedling Vigor	3
Drought Tolerance	1
Root Strength	1
Staygreen	3
Stalk Quality	3
Dry Down	2
Test Weight	3

CROPLAN CP2692D

Relative Maturity: **86**

Duracade · Artesian

Response Scores



- Agrisure Duracade™ Artesian® trait with excellent yield potential; handles variability and multiple soil types
- Medium-tall plant with strong stalks; dual-purpose option
- Low response to population for success at lower plant densities
- Acceptable Goss's wilt tolerance; slower drydown due to girthy cob and tight husk

Characteristics

	Not Recommended → Excellent
Seedling Vigor	2
Drought Tolerance	N/A
Root Strength	1
Staygreen	1
Stalk Quality	1
Dry Down	3
Test Weight	3

KEY

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

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

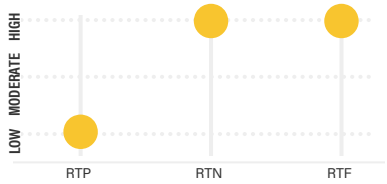
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP2790VT2P/RIB

Relative Maturity: **87**

VTDoublePRO RIB COMPLETE

Response Scores



- High-yield potential product with strong ear flex and drought tolerance
- Excellent seedling vigor for early planting
- Strong ear flex with a moderate response-to-nitrogen; can fit a broad range of growing conditions
- Manage for late-season stalks and Goss's wilt

Characteristics

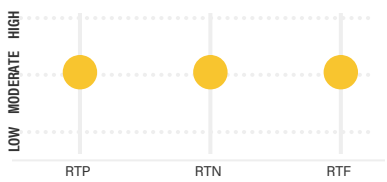
	Not Recommended → Excellent
Seedling Vigor	1
Drought Tolerance	1
Root Strength	2
Staygreen	3
Stalk Quality	3
Dry Down	2
Test Weight	2

CROPLAN CP2851VT2P/RIB

Relative Maturity: **88**

VTDoublePRO RIB COMPLETE

Response Scores



- Great option for Red River Valley and East
- Solid stalks, roots, and emergence
- Semi-determinate ear; keep plant densities moderate to high
- Keep on rotated acres

Characteristics

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

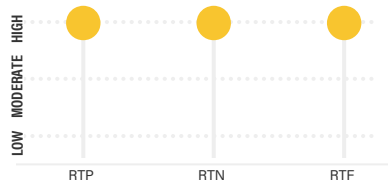
CROPLAN CP2845SS/RIB

[VT2P/RIB]*

Relative Maturity: **89**

SmartStax RIB COMPLETE

Response Scores



- High-yield-potential product for most soil types and environments
- Earlier flowering date and fast drydown
- High response-to-nitrogen and population optimizes yield potential
- Manage placement for Goss's wilt

Characteristics

	Not Recommended → Excellent
Seedling Vigor	1
Drought Tolerance	1
Root Strength	1
Staygreen	3
Stalk Quality	2
Dry Down	1
Test Weight	3

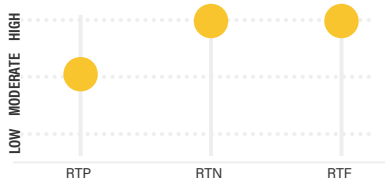
CROPLAN CP2965VT2P/RIB

[RR]

Relative Maturity: **89**

VTDoublePRO RIB COMPLETE

Response Scores



- Yield leader in 85-90 RM in 2018 Answer Plot® trials
- Excellent early vigor for early planting
- Moderate response-to-population and high response-to-nitrogen help drive additional yield on average to productive soils
- Acceptable Goss's wilt tolerance

Characteristics

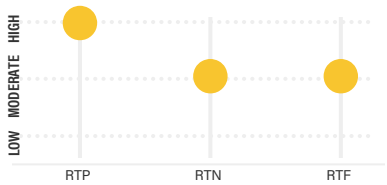
	Not Recommended → Excellent
Seedling Vigor	1
Drought Tolerance	2
Root Strength	2
Staygreen	3
Stalk Quality	1
Dry Down	2
Test Weight	2

CROPLAN CP3166VT2P/RIB

Relative Maturity: **91**

VTDoublePRO RIB COMPLETE

Response Scores



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

Characteristics

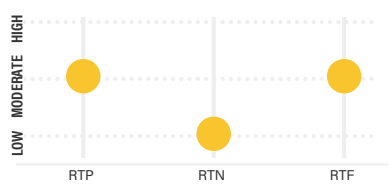
	Not Recommended → Excellent
Seedling Vigor	2
Drought Tolerance	2
Root Strength	3
Staygreen	3
Stalk Quality	3
Dry Down	2
Test Weight	3

CROPLAN CP3314VT2P/RIB

Relative Maturity: **93**

VTDoublePRO RIB COMPLETE

Response Scores



- Tough-acre hybrid for low-yielding environments
- Solid agronomic package
- Flex ear for variable planting populations
- Manage for Goss's wilt

Characteristics

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

KEY

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2 = Strong
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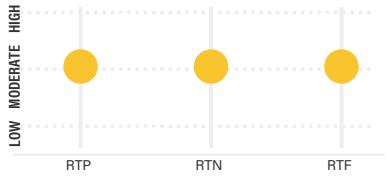
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP3337VT2P/RIB

[RR]
Relative Maturity: **93**

VT DoublePRO RIB COMPLETE

Response Scores



- Solid yield potential with early flowering enables northern movement
- Massive roots for coarse soil types and consistent silking under drought stress
- Moderate response-to-population handles variable plant densities
- Not recommended for acres with Goss's wilt history

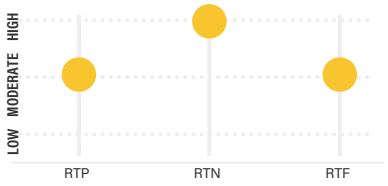
Characteristics

CROPLAN CP3399SS/RIB

Relative Maturity: **94**

SmartStax RIB COMPLETE

Response Scores



- Best-positioned in high-yield environments
- Medium-stature hybrid that has strong staygreen
- Optimize yield with enhanced nitrogen management
- Manage for Goss's wilt

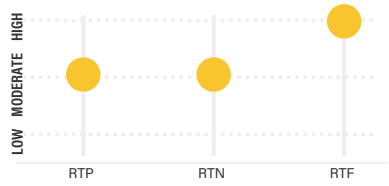
Characteristics

CROPLAN CP3490VT2P/RIB

Relative Maturity: **94**

VT DoublePRO RIB COMPLETE

Response Scores



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

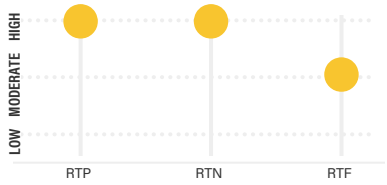
Characteristics

CROPLAN CP3575VT2P/RIB

Relative Maturity: **95**

VT DoublePRO RIB COMPLETE

Response Scores



- Excels in moderate- to high-yield environments and moves across all soil types
- Strong stalk quality and root strength
- Has good ear flex for low plant densities, but will respond to higher management
- Manage for Goss's wilt

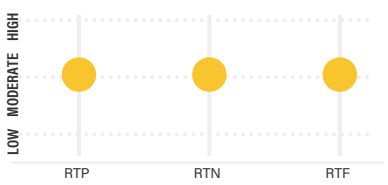
Characteristics

CROPLAN CP3699RR

Relative Maturity: **96**

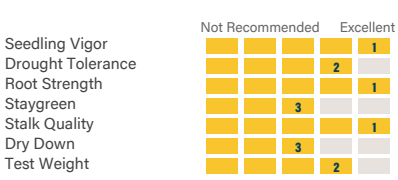
Roundup Ready 2

Response Scores



- Adaptable across most soil types; able to move into low-yield environments
- Consistent hybrid handles stress well with excellent emergence, roots and stalks
- Moderate response-to scores provide versatility for positioning and managing this hybrid

Characteristics



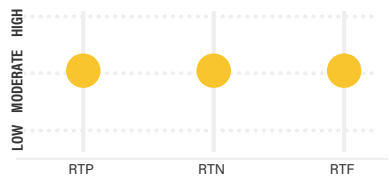
NEW

CROPLAN CP3715SSPRO/RIB

Relative Maturity: **97**

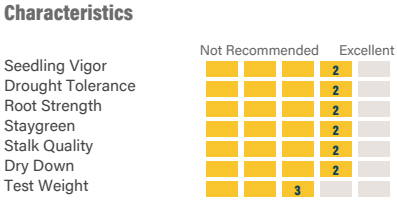
SmartStax PRO RIB COMPLETE

Response Scores



- Versatile SmartStax® PRO hybrid for known CRW acres
- Strong stress tolerance and solid agronomics
- A moderate RTN score, indicates this hybrid does not need aggressive nitrogen management to thrive
- Manage in areas where gray leaf spot is a concern

Characteristics



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CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

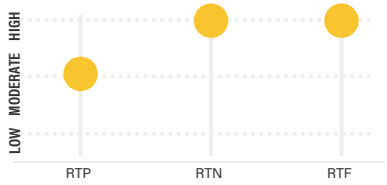
NEW

CROPLAN CP3724VT2P/RIB

Relative Maturity: **97**

VTDoublePRO RIB COMPLETE

Response Scores



- Versatile hybrid that can work east to west; strong performance potential on productive ground
- Great late season agronomics with strong standability
- Responds well to aggressive nitrogen fertility and fungicide application
- Works well in tough, variable or ideal yield environments

Characteristics

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

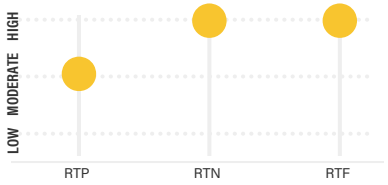
CROPLAN CP3735SS/RIB

[VT2P/RIB]*

Relative Maturity: **97**

SmartStax RIB COMPLETE

Response Scores



- Adaptable east to west; best suited for variable and tough acres
- Excellent test weight and emergence with solid defensive traits
- Plant at moderate to high densities; fungicide application is recommended
- Keep in RM zone

Characteristics

	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance			3		
Root Strength				2	
Staygreen				2	
Stalk Quality				2	
Dry Down				2	
Test Weight					1

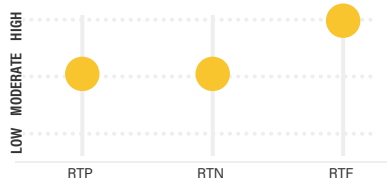
NEW

CROPLAN CP3852TRE/RIB

Relative Maturity: **98**

Trecepta RIB COMPLETE

Response Scores



- Consistent high-yield potential across multiple environments and soil types
- Strong emergence, roots and stalk quality
- Semi-flex ear that allows for a range of populations
- Manage GLS and NCLB with a fungicide in heavy pressure scenarios

Characteristics

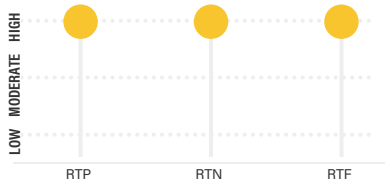
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Staygreen				2	
Stalk Quality				2	
Dry Down				2	
Test Weight			3		

CROPLAN CP3899VT2P/RIB

Relative Maturity: **98**

VTDoublePRO RIB COMPLETE

Response Scores



- Consistent high-yield potential across multiple environments and soil types
- Excellent seedling vigor; strong stalks, roots and drought tolerance
- High response to intensive management; can handle average acres
- Manage in areas with gray leaf spot and northern corn leaf blight

Characteristics

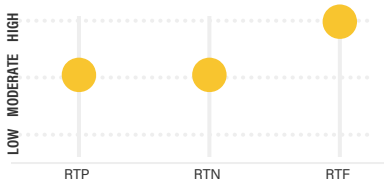
	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength				2	
Staygreen				2	
Stalk Quality				2	
Dry Down			3		
Test Weight				2	

CROPLAN CP3980VT2P/RIB

Relative Maturity: **99**

VTDoublePRO RIB COMPLETE

Response Scores



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

Characteristics

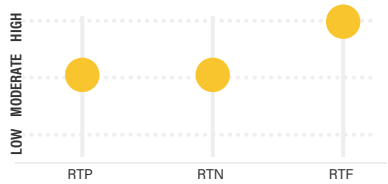
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance			3		
Root Strength					1
Staygreen			3		
Stalk Quality			3		
Dry Down				2	
Test Weight			3		

CROPLAN CP4079VT2P/RIB

Relative Maturity: **100**

VTDoublePRO RIB COMPLETE

Response Scores



- Excellent option for all soil types and yield environments
- Medium-tall hybrid with strong Goss's wilt rating and seedling vigor; excellent roots
- Position at medium populations and manage nitrogen for high yield potential
- Acceptable test weight, stalks and staygreen

Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength					1
Staygreen			3		
Stalk Quality			3		
Dry Down				2	
Test Weight			3		

KEY

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

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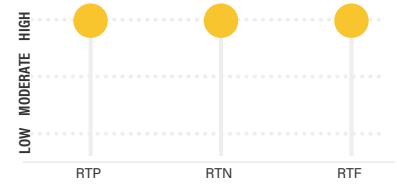
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP4099SS/RIB

Relative Maturity: **100**

SmartStax RIB COMPLETE

Response Scores



- Solid product that shows consistency in most soil types with high-yield potential
- Late-flowering hybrid has excellent roots and seedling vigor
- High response to intensive management; can also handle average acres
- Manage in areas with gray leaf spot and northern corn leaf blight

Characteristics

	Not Recommended → Excellent
Seedling Vigor	1
Drought Tolerance	2
Root Strength	1
Staygreen	3
Stalk Quality	2
Dry Down	3
Test Weight	3

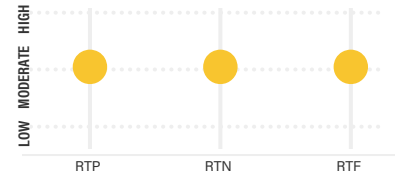
CROPLAN CP4188SS/RIB

[VT2P/RIB*, CONV]

Relative Maturity: **101**

SmartStax RIB COMPLETE

Response Scores



- Works east to west with a widely adapted footprint
- Very attractive plant type with solid agronomic package
- Semi-flex ear allows lower densities, but will respond when population is pushed
- Handles tough, variable and ideal yield environments

Characteristics

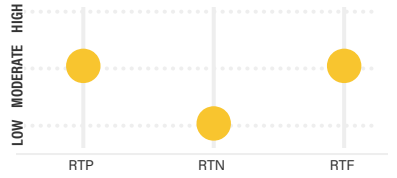
	Not Recommended → Excellent
Seedling Vigor	1
Drought Tolerance	2
Root Strength	1
Staygreen	1
Stalk Quality	1
Dry Down	3
Test Weight	1

CROPLAN CP4265VT2P/RIB

Relative Maturity: **102**

VT DoublePRO RIB COMPLETE

Response Scores



- Position in average to productive acres; dual purpose potential
- Excellent emergence and roots with solid stalks
- More fixed ear; keep at moderate to high populations
- Avoid areas with history of Physoderma node breakage

Characteristics

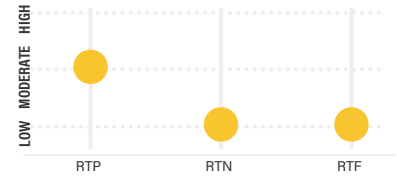
	Not Recommended → Excellent
Seedling Vigor	1
Drought Tolerance	3
Root Strength	1
Staygreen	3
Stalk Quality	2
Dry Down	1
Test Weight	3

CROPLAN CP4822VT2P/RIB

Relative Maturity: **103**

VT DoublePRO RIB COMPLETE

Response Scores



- Stress tolerance for challenging environments; flowers late, keep as earlier product in full-season zones
- Solid heat and drought tolerance; acceptable Goss's wilt tolerance
- Low response-to-nitrogen and fungicide; nice ear flex for variable populations

Characteristics

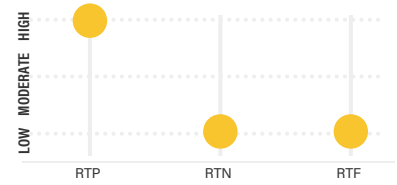
	Not Recommended → Excellent
Seedling Vigor	2
Drought Tolerance	2
Root Strength	1
Staygreen	3
Stalk Quality	3
Dry Down	2
Test Weight	3

CROPLAN CP4444VT2P/RIB

Relative Maturity: **104**

VT DoublePRO RIB COMPLETE

Response Scores



- Consistent and versatile hybrid to cover broad acres
- Excellent emergence and seedling vigor; strong stalks and roots
- Manage populations in high-yield environments
- Tall hybrid with acceptable anthracnose rating

Characteristics

	Not Recommended → Excellent
Seedling Vigor	1
Drought Tolerance	3
Root Strength	2
Staygreen	3
Stalk Quality	2
Dry Down	2
Test Weight	3

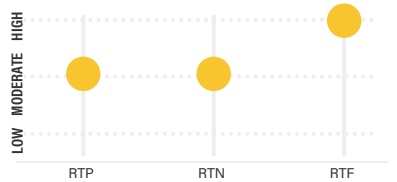
NEW

CROPLAN CP4516TRE/RIB

Relative Maturity: **105**

Trecepta RIB COMPLETE

Response Scores



- Hybrid that will find best performance on medium to highly productive acres
- Strong roots, test weight and Goss' wilt tolerance
- High response to intensive management; can also handle average acres
- Manage late season intactness with a fungicide application in high yield environments

Characteristics

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

KEY

Scale
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4 = Manage
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CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

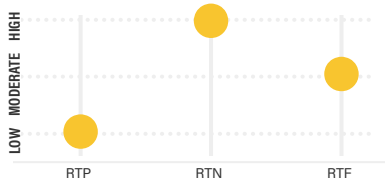
NEW

CROPLAN CP4652SSPRO/RIB

Relative Maturity: **106**

SmartStax PRO RIB COMPLETE

Response Scores



- Versatile hybrid that can work well within zone and south of zone
- Excellent top end yield potential hybrid
- Responds favorably to additional nitrogen applications
- Maximize late season staygreen with fungicide application

Characteristics

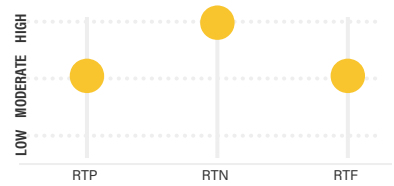
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Staygreen				2	
Stalk Quality				2	
Dry Down			3		
Test Weight			3		

CROPLAN CP4676SS/RIB

Relative Maturity: **106**

SmartStax RIB COMPLETE

Response Scores



- Versatile hybrid, position and manage for high yield
- Medium-height hybrid with excellent emergence, seedling vigor and test weight
- Position at medium populations and manage nitrogen for high-yield-potential
- Fungicide application recommended in areas prone to gray leaf spot

Characteristics

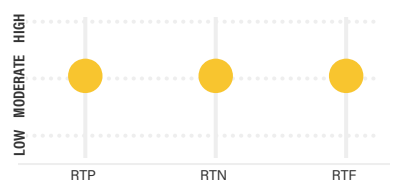
	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance			3		
Root Strength			3		
Staygreen				2	
Stalk Quality			3		
Dry Down					1
Test Weight					1

CROPLAN CP4757VT2P/RIB

Relative Maturity: **107**

VTDoublePRO RIB COMPLETE

Response Scores



- Best performance potential on medium to highly productive acres
- Strong roots and test weight with high yield potential
- Moderate response to nitrogen and fungicide offers great flexibility
- Best suited for rotated acres

Characteristics

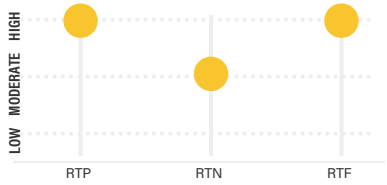
	Not Recommended				Excellent
Seedling Vigor			3		
Drought Tolerance				2	
Root Strength				2	
Staygreen			3		
Stalk Quality			3		
Dry Down				2	
Test Weight				2	

CROPLAN CP4880SS/RIB

Relative Maturity: **108**

SmartStax RIB COMPLETE

Response Scores



- Best performance on high yield potential, well drained soils
- SmartStax® hybrid with exceptional top end yield potential
- Strong stalks and strong roots
- Acceptable Goss's Wilt tolerance

Characteristics

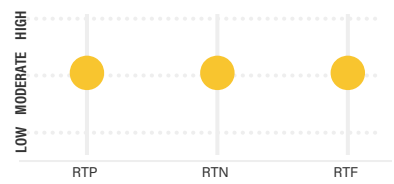
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance			3		
Root Strength				2	
Staygreen			3		
Stalk Quality				2	
Dry Down			3		
Test Weight				2	

CROPLAN CP4930DGVT2P/RIB

Relative Maturity: **109**

DroughtGard HYBRIDS VTDoublePRO RIB COMPLETE

Response Scores



- Strong western adaptation with good Goss's wilt and strong greensnap tolerance
- Exceptional top end yield potential
- Plant at moderate populations due to semi-flex ear
- Recommend a fungicide application in areas with high disease pressure

Characteristics

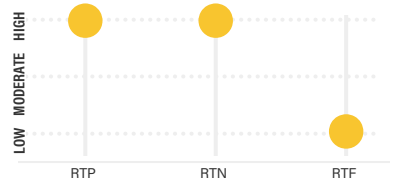
	Not Recommended				Excellent
Seedling Vigor			3		
Drought Tolerance			3		
Root Strength			3		
Staygreen			3		
Stalk Quality			3		
Dry Down				2	
Test Weight			3		

CROPLAN CP4997VT2P/RIB

Relative Maturity: **109**

VTDoublePRO RIB COMPLETE

Response Scores



- Moves east to west; broadly adapted to soil types and yield environments
- Tall hybrid with strong stalks, roots and staygreen
- Manage nitrogen and population
- Best-suited for rotated acres; manage accordingly in corn-on-corn situations

Characteristics

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

KEY

Scale
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3 = Acceptable
4 = Manage
5 = Not Recommended

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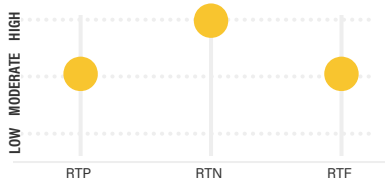
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN® CP5073SS/RIB

[VT2P/RIB]*
Relative Maturity: **110**

SmartStax® RIB COMPLETE

Response Scores



- Best performance on medium to highly productive acres
- Strong early plant vigor for reduced tillage and early planting
- Nice ear flex for moderate densities; high response-to-nitrogen
- Utilize fungicide to enhance late-season health

Characteristics

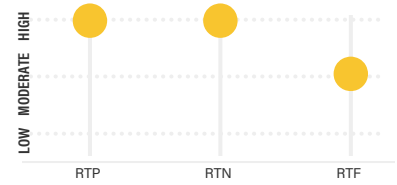
	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength				2	
Staygreen				2	
Stalk Quality			3		
Dry Down				2	
Test Weight			3		

CROPLAN® CP5115SS/RIB

[VT2P/RIB]*
Relative Maturity: **111**

SmartStax® RIB COMPLETE

Response Scores



- Best suited for variable to tough acres
- Excellent emergence, seedling vigor and roots
- Semi-flex ear; plant at moderate populations
- Avoid areas with Goss's wilt history

Characteristics

	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength					1
Staygreen			3		
Stalk Quality				2	
Dry Down			3		
Test Weight					1

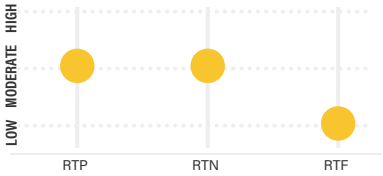
NEW

CROPLAN® CP5208VT2P/RIB

Relative Maturity: **112**

VT DoublePRO® RIB COMPLETE®

Response Scores



- Versatile product that can move east to west across the Corn Belt
- Flexible hybrid that can handle low-end to high-end acres
- Low response to fungicide rating, manage accordingly

Characteristics

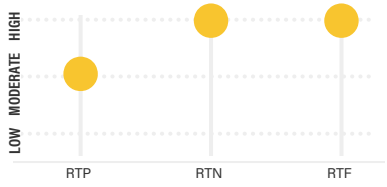
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Staygreen				2	
Stalk Quality				2	
Dry Down			3		
Test Weight				2	

CROPLAN® CP5210SS/RIB

Relative Maturity: **112**

SmartStax® RIB COMPLETE

Response Scores



- Versatile hybrid with high yield potential
- Strong Goss's wilt and disease tolerance make it a fit for corn-on-corn acres
- Good ear flex; responds to fungicide and nitrogen management
- Acceptable roots and late season intactness

Characteristics

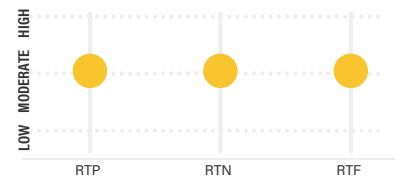
	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance			3		
Root Strength			3		
Staygreen			3		
Stalk Quality			3		
Dry Down			3		
Test Weight			3		

CROPLAN® CP5244VT2P/RIB

Relative Maturity: **112**

VT DoublePRO® RIB COMPLETE®

Response Scores



- Versatile hybrid with high yield potential
- Strong root system and drought tolerance
- Responds to additional fungicide and nitrogen management, but not required
- Manage for greensnap in susceptible areas

Characteristics

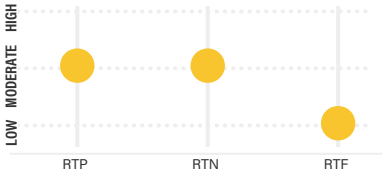
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Staygreen			3		
Stalk Quality			3		
Dry Down				2	
Test Weight			3		

CROPLAN® CP5340VT2P

[CONV]
Relative Maturity: **113**

VT DoublePRO®

Response Scores



- Versatile hybrid with excellent heat tolerance and yield potential
- Medium-short hybrid with strong stalks and solid agronomics
- Position at moderate-to-low populations to maximize girthy flex ear
- Use caution in areas with high risk of greensnap

Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance			3		
Root Strength					1
Staygreen			3		
Stalk Quality					1
Dry Down				2	
Test Weight			3		

KEY

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

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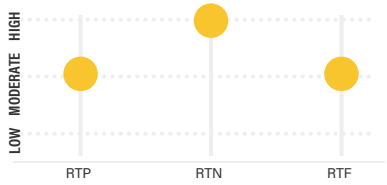
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP5335SS/RIB

[VT2P/RIB]*
Relative Maturity: **113**

SmartStax RIB COMPLETE

Response Scores



- Tremendous consistency across variable yield environments
- Excellent agronomics, including stalks and late-season intactness; improved Goss's wilt rating over 5370
- Acceptable ear flex for variable densities; strong plant health for continuous corn
- Benefits from enhanced nitrogen management

Characteristics

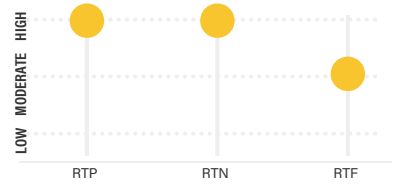
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Staygreen				2	
Stalk Quality					1
Dry Down				2	
Test Weight					1

CROPLAN CP5370SS/RIB

[VT2P/RIB]*
Relative Maturity: **113**

SmartStax RIB COMPLETE

Response Scores



- Versatile, dual-purpose product; adapted across multiple yield environments
- Excellent stalks, roots and test weight; strong drydown
- Optimize yield potential with enhanced nitrogen management and mod-high plant densities
- Best positioned on rotated acres; ear tip back influenced by genetics

Characteristics

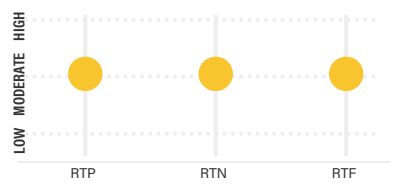
	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength					1
Staygreen					1
Stalk Quality					1
Dry Down				2	
Test Weight					1

CROPLAN CP6594SS/RIB

[VT2P/RIB]*
Relative Maturity: **113**

SmartStax RIB COMPLETE

Response Scores



- Widely adapted east to west with excellent heat tolerance and high-yield-potential
- Solid agronomics; excellent stalks and roots; acceptable Goss's wilt tolerance
- Moderate response-to-nitrogen and population scores
- Take advantage of fast drydown at harvest; keep in 110RM zones

Characteristics

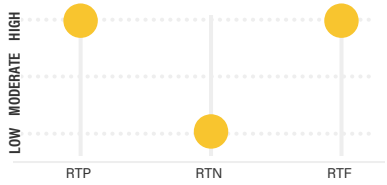
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength					1
Staygreen				2	
Stalk Quality					1
Dry Down				2	
Test Weight				2	

CROPLAN CP5497VT2P/RIB

Relative Maturity: **114**

VTDoublePRO RIB COMPLETE

Response Scores



- Widely adapted east to west across multiple soil types and yield levels
- Strong roots and drought tolerance with excellent test weight
- Semi-flex ear and high response-to-population score allow positioning across yield environments
- Manage fields with history of Anthracnose and Southern rust

Characteristics

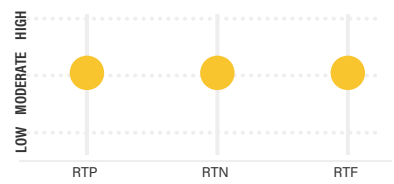
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Staygreen			3		
Stalk Quality			3		
Dry Down				2	
Test Weight					1

CROPLAN CP5550VT2P/RIB

Relative Maturity: **115**

VTDoublePRO RIB COMPLETE

Response Scores



- Position in average to high yield potential acres; dual purpose option
- Solid agronomic and disease package
- Keep plant densities moderate to high
- Acceptable Goss's wilt tolerance

Characteristics

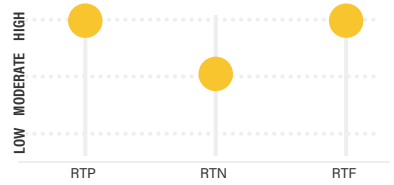
	Not Recommended				Excellent
Seedling Vigor			3		
Drought Tolerance				2	
Root Strength				2	
Staygreen			3		
Stalk Quality				2	
Dry Down				2	
Test Weight			3		

CROPLAN CP5570VT2P/RIB

Relative Maturity: **115**

VTDoublePRO RIB COMPLETE

Response Scores



- Excellent yield potential for eastern and southern environments
- Medium plant height and ear placement
- High response-to-population score to push populations and maximize yield potential; fungicide is highly recommended
- Use caution in areas with high risk of greensnap

Characteristics

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

KEY

Scale
1 = Excellent
2 = Strong
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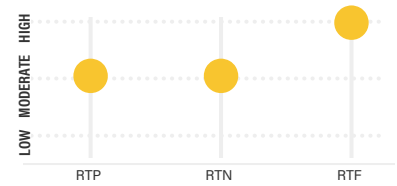
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN® CP5588DGVT2P/RIB

Relative Maturity: **115**

DroughtGard® HYBRIDS — VTDoublePRO® RIB COMPLETE®

Response Scores



- Best performance in the central and eastern corn belt
- Top end yield potential with very good stress tolerance
- Excellent dual purpose silage potential
- Use caution in high Physoderma regions

Characteristics

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

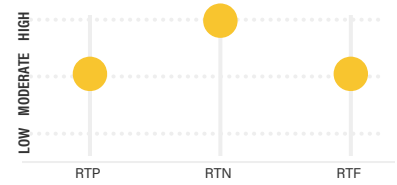
CROPLAN® CP5678SS/RIB

[VT2P/RIB, RR]*

Relative Maturity: **116**

SmartStax® RIB COMPLETE® — Roots Matter

Response Scores



- Broadly adapted across yield environments; medium flower date offers north to south movement across maturity zones
- Medium-height plant with wide leaves and a girthy semi-flex ear
- Position at medium populations with enhanced nitrogen management for high-yield-potential

Characteristics

	Not Recommended → Excellent
Seedling Vigor	2
Drought Tolerance	2
Root Strength	3
Staygreen	3
Stalk Quality	2
Dry Down	3
Test Weight	1

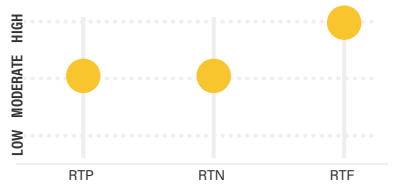
NEW

CROPLAN® CP5717VT2P/RIB

Relative Maturity: **117**

VTDoublePRO® RIB COMPLETE®

Response Scores



- Delta hybrid versatile enough to perform outside of zone
- Flexible hybrid that can work across a variety of yield environments
- Excellent test weight and flex ear
- Strong agronomics and southern rust tolerance

Characteristics

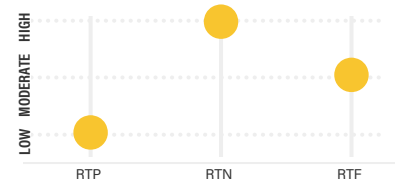
	Not Recommended → Excellent
Seedling Vigor	3
Drought Tolerance	3
Root Strength	2
Staygreen	2
Stalk Quality	1
Dry Down	4
Test Weight	1

CROPLAN® CP5760TRE/RIB

Relative Maturity: **117**

Trecepta® RIB COMPLETE®

Response Scores



- Outstanding performance potential from East to West
- Top end yield potential with good ear flex capabilities
- Versatile placement across soil types at moderate populations
- Fungicide recommended to enhance protection against Southern Rust

Characteristics

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

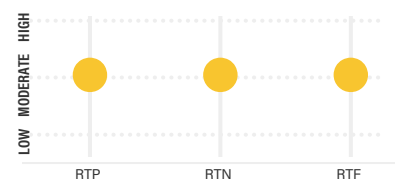
NEW

CROPLAN® CP5893TRE/RIB

Relative Maturity: **118**

Trecepta® RIB COMPLETE®

Response Scores



- Fits well in the Southern U.S. and Delta region
- Full-season offering with excellent emergence and seedling vigor
- Strong stalks and roots with good late season health
- Strong southern rust tolerance

Characteristics

	Not Recommended → Excellent
Seedling Vigor	1
Drought Tolerance	2
Root Strength	2
Staygreen	1
Stalk Quality	2
Dry Down	3
Test Weight	1

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CORN

CROPLAN

BRAND	Relative Maturity	Population [RTP] 1	Response to Nitrogen [RTN] 1	Response to Fungicide [RTF] 1	GDU to Maturity **	GDU to Mid-pollination**	Flower Date 5	Plant Height 2	Ear Height 3	Cob Color	Ear Flex 4	Kernel Rows	Seedling Vigor	Stalk Quality	Root Strength	Stay Green 6	Dry Down	Drought Tolerance	Test Weight	Gray Leaf Spot	NCLB	SCLB	Common Rust	Goss's Wilt	Anthracnose Stalk Rot	Physoderma Node Breakage	Diplodia Ear Rot	
RM: 81-96																												
CP2180VT2P/RIB*	81	M	M	M	2025	1070	M-E	M	M	RED	SD	18-20	2	2	2	3	2	3	3	NA	2	NA	NA	3	3	NA	NA	
CP2288VT2P/RIB*	82	H	H	M	2065	1090	M	M	M	RED	SF	16-18	2	2	1	2	2	2	1	NA	2	NA	NA	2	3	NA	NA	
CP2315VT2P/RIB*	83	M	H	M	2075	1080	E	M-T	M	RED	SF	18-20	2	3	2	3	2	2	3	3	3	NA	2	3	4	NA	NA	
CP2585VT2P/RIB*	85	M	H	M	2125	1120	M	M	M	RED	SF	16-18	2	2	3	3	2	3	3	3	3	NA	NA	3	3	NA	NA	
CP2520RR	86	M	M	M	2125	1120	M	M-T	M	RED	SF	16-20	3	3	1	3	2	1	3	3	3	NA	3	4	NA	NA	NA	
CP2692D	86	M	M	M	2160	1140	M	M-T	M	RED	SF	16-18	2	1	1	1	3	NA	3	NA	1	NA	1	1	NA	NA	NA	
CP2790VT2P/RIB*	87	L	H	H	2175	1130	E	M	M	RED	SF	16-18	1	3	2	3	2	1	2	3	2	2	NA	4	3	NA	2	
CP2851VT2P/RIB*	88	M	M	M	2200	1160	M	M	M	RED	SD	16-18	3	2	2	3	2	3	2	3	3	3	NA	3	3	NA	NA	
CP2845SS/RIB*	89	H	H	H	2210	1150	E	M-T	M	RED	SF	16-18	1	2	1	3	1	1	3	NA	3	NA	3	4	4	NA	NA	
CP2965VT2P/RIB*	89	M	H	H	2235	1180	M-L	M	M	RED	SF	14-16	1	1	2	3	2	2	2	3	3	1	NA	3	2	NA	NA	
CP3166VT2P/RIB*	91	H	M	M	2285	1180	E	M	M	RED	SF	16-18	2	3	3	3	2	2	3	3	3	NA	NA	3	2	NA	NA	
CP3314VT2P/RIB*	93	M	L	M	2330	1210	M	M	M	RED	FL	16-18	2	2	2	2	2	2	2	3	3	NA	3	4	NA	NA	NA	
CP3337VT2P/RIB*	93	M	M	M	2310	1190	E	M	M	RED	FL	16-18	2	3	1	3	2	1	2	4	2	4	2	5	3	NA	NA	
CP3399SS/RIB*	94	M	H	M	2350	1220	M	M	M	RED	SF	16-18	2	2	2	2	2	2	2	3	3	NA	3	4	3	NA	NA	
CP3490VT2P/RIB*	94	M	M	H	2360	1230	M-L	M-T	M-H	RED	SF	18-20	1	3	3	3	3	2	3	3	3	NA	NA	3	3	3	NA	
CP3575VT2P/RIB*	95	H	H	M	2360	1240	M-L	M	M	RED	SF	16-18	2	2	2	2	2	3	1	3	2	NA	NA	4	1	NA	NA	
CP3699RR	96	M	M	M	2400	1240	M	M-T	M-H	RED	SF	16-18	1	1	1	3	3	2	2	3	3	NA	3	3	3	NA	NA	

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FX = Fixed

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CORN

CROPLAN

	BRAND	Relative Maturity	Population [RTP] Response to 1	Response to Nitrogen [RTN] 1	Response to Fungicide [RTF] 1	GDU to Maturity **	GDU to Mid-pollination **	Flower Date 5	Plant Height 2	Ear Height 3	Coh Color	Ear Flex 4	Kernel Rows	Seedling Vigor	Stalk Quality	Root Strength	Stay Green 6	Dry Down	Drought Tolerance	Test Weight	Gray Leaf Spot	NCLB	SCLB	Common Rust	Goss's Wilt	Anthracnose Stalk Rot	Physoderma Node Breakage	Diplodia Ear Rot
	RM: 97-108																											
NEW	CP3715SSPRO/RIB*	97	M	M	M	2425	1242	M-E	M-T	M-H	RED	SF	18-20	2	2	2	2	2	2	3	4	2	2	2	2	2	2	4
NEW	CP3724VT2P/RIB*	97	M	H	H	2435	1250	M	M-T	M	RED	SF	16-18	2	2	2	2	3	2	2	2	3	NA	NA	2	2	NA	NA
	CP3735SS/RIB*	97	M	H	H	2425	1250	M	M	M	RED	SD	16-18	1	2	2	2	2	3	1	3	3	NA	NA	3	3	3	NA
NEW	CP3852TRE/RIB*	98	M	M	H	2450	1275	L	M-T	M-H	RED	FL	16-18	2	2	2	2	2	2	3	3	3	NA	NA	2	NA	NA	NA
	CP3899VT2P/RIB*	98	H	H	H	2450	1280	L	M-T	M-H	PINK	SF	16-20	1	2	2	2	3	2	2	4	4	NA	3	3	3	NA	NA
	CP3980VT2P/RIB*	99	M	M	H	2475	1270	M	M-T	M-H	RED	SF	14-16	2	3	1	3	2	3	3	2	NA	NA	NA	3	3	4	NA
	CP4079VT2P/RIB*	100	M	M	H	2480	1280	M	M-T	M	RED	SF	14-16	2	3	1	3	2	2	3	3	3	2	NA	2	3	NA	NA
	CP4099SS/RIB*	100	H	H	H	2500	1290	L	M-T	M	PINK	SF	16-20	1	2	1	3	3	2	3	4	4	NA	3	3	3	NA	NA
	CP4188SS/RIB*	101	M	M	M	2490	1280	M	M	M	RED	SF	16-18	1	1	1	1	3	2	1	3	2	NA	NA	2	3	NA	NA
	CP4265VT2P/RIB*	102	M	L	M	2550	1300	M-L	M	M	RED	SD	16-18	1	2	1	3	1	3	3	3	3	2	NA	2	3	5	3
	CP4822VT2P/RIB*	103	M	L	L	2575	1310	L	M	M-H	RED	SF	16-18	2	3	1	3	2	2	3	3	2	NA	3	3	3	NA	NA
	CP4444VT2P/RIB*	104	H	L	L	2580	1300	M	T	M-H	RED	SF	14-16	1	2	2	3	2	3	3	3	3	2	NA	3	3	3	3
NEW	CP4516TRE/RIB*	105	M	M	H	2650	1309	M-E	M	M	RED	SF	16-18	2	3	2	2	2	3	2	3	3	2	2	2	2	2	3
NEW	CP4652SSPRO/RIB*	106	L	H	M	2625	1311	M	M-T	H	RED	SF	14-16	2	2	2	2	3	2	3	4	3	2	2	2	2	2	3
	CP4676SS/RIB*	106	M	H	M	2650	1310	M	M	M	PINK	SF	16-18	1	3	3	2	1	3	1	3	2	2	NA	3	1	NA	2
	CP4757VT2P/RIB*	107	M	M	M	2675	1320	M	M	M-H	RED	SD	18-20	3	3	2	3	2	2	2	3	2	NA	NA	3	3	3	NA
	CP4880SS/RIB*	108	H	M	H	2700	1330	M	M-S	M	RED	SD	14-16	2	2	2	3	3	3	2	3	3	2	NA	3	3	3	NA

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- **M** = Medium
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4 Ear Flex
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5 Flower Date
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CORN

CROPLAN

	BRAND	Relative Maturity	Population [RTP] Response to 1	Response to Nitrogen [RTN] 1	Response to Fungicide [RTF] 1	GDU to Maturity **	GDU to Mid-pollination**	Flower Date 5	Plant Height 2	Ear Height 3	Cob Color	Ear Flex 4	Kernel Rows	Seedling Vigor	Stalk Quality	Root Strength	Stay Green 6	Dry Down	Drought Tolerance	Test Weight	Gray Leaf Spot	NCLB	SCLB	Common Rust	Goss's Wilt	Anthracnose Stalk Rot	Physoderma Node Breakage	Diplodia Ear Rot
	RM: 109-118																											
	CP4930DGVT2P/RIB*	109	M	M	M	2725	1330	M	M-T	M-H	RED	SF	14-16	3	3	3	3	2	3	3	3	3	2	NA	2	3	3	NA
	CP4997VT2P/RIB*	109	H	H	L	2725	1330	M	T	M-H	RED	SF	16-18	2	2	2	2	2	2	2	3	2	2	3	2	2	3	2
	CP5073SS/RIB*	110	M	H	M	2730	1340	M	M	M-H	RED	SF	16-18	1	3	2	2	2	2	3	3	2	1	NA	3	3	NA	NA
	CP5115SS/RIB*	111	H	H	M	2775	1350	M-L	M-T	M-H	RED	SF	18-20	1	2	1	3	3	2	1	3	2	3	NA	4	3	5	3
NEW	CP5208VT2P/RIB*	112	M	M	L	2800	1348	NA	M	M	RED	SF	16-18	2	2	2	2	3	2	2	3	2	2	NA	2	2	NA	NA
	CP5210SS/RIB*	112	M	H	H	2790	1340	M	M-T	M-H	RED	SF	16-18	1	3	3	3	3	3	3	3	2	2	NA	2	3	3	NA
	CP5244VT2P/RIB*	112	M	M	M	2800	1360	M-L	M-T	M-H	RED	SF	16-18	2	3	2	3	2	2	3	3	2	2	NA	3	3	3	NA
	CP5340VT2P	113	M	M	L	2825	1350	M	M-S	M	RED	FL	16-20	2	1	1	3	2	3	3	3	2	2	3	4	3	NA	4
	CP5335SS/RIB*	113	M	H	M	2820	1350	M	M	M	PINK	SF	16-18	2	1	2	2	2	2	1	3	2	2	NA	2	2	NA	2
	CP5370SS/RIB*	113	H	H	M	2830	1370	M	T	M-H	PINK	SF	18-20	1	1	1	1	2	2	1	3	2	2	3	4	2	NA	NA
	CP6594SS/RIB*	113	M	M	M	2810	1350	M	M	M	RED	SF	16-18	2	1	1	2	2	2	2	3	3	2	2	3	3	NA	3
	CP5497VT2P/RIB*	114	H	L	H	2850	1350	M-E	M-T	M-H	RED	SF	14-16	2	3	2	3	2	2	1	2	3	2	NA	3	4	4	NA
	CP5550VT2P/RIB*	115	M	M	M	2850	1360	M	M	M	PINK	SF	14-16	3	2	2	3	2	2	3	3	3	2	NA	3	1	NA	3
	CP5570VT2P/RIB*	115	H	M	H	2875	1360	M	M	M	RED	SF	16-18	3	2	2	2	3	2	3	3	3	2	NA	3	3	NA	3
	CP5588DGVT2P/RIB*	115	M	M	H	2875	1360	M	M-T	M-H	RED	SD	16-18	2	2	2	2	2	2	3	3	3	2	NA	3	3	5	3
	CP5678SS/RIB*	116	M	H	M	2900	1360	M	M	M	RED	SF	14-16	2	2	3	3	3	2	1	3	2	2	NA	3	3	3	3
NEW	CP5717VT2P/RIB*	117	M	M	H	2925	1366	M	M-T	M-H	RED	FL	18-20	3	1	2	2	4	3	1	2	2	3	NA	3	NA	NA	NA
	CP5760TRE/RIB*	117	L	H	M	2925	1370	NA	T	M-H	PINK	SF	16-18	2	3	3	3	2	3	2	3	3	2	NA	3	2	NA	NA
NEW	CP5893TRE/RIB*	118	M	M	M	3000	1385	L	M	M-L	RED	SF	18-20	1	2	2	1	3	2	1	2	2	1	2	3	2	2	4

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CORN

Product Name _____
Attributes _____

_____

_____

Placement _____

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Product Name _____
Attributes _____

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Placement _____

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Product Name _____
Attributes _____

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Placement _____

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Product Name _____
Attributes _____

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Placement _____

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SOYBEAN

Our Soybeans Stand Alone. But When We Blend Them Together, They're Even Better.

WHY WINPAK® SOYBEAN VARIETIES?

WinPak® soybeans are a unique combination of two complimentary varieties blended together to maximize yield potential and help reduce risk. They're a unique concept in soybeans, designed to handle field variability across both highly productive and stressed environments to ensure you can maximize ROI potential across diverse conditions.

WinPak® By WinField United

EXAMPLE OF HOW A WINPAK VARIETY CAN BE FORMULATED

	VARIETY A SAMPLE	VARIETY B SAMPLE
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	▪ Narrow canopy type ▪ Tall height ▪ Excellent standability	▪ Bushy canopy type ▪ Medium height ▪ Average standability
STRESS TOLERANCE	Excellent stress tolerance.	Strong stress tolerance.

SOYBEAN HERBICIDE TOLERANCE AND WEED CONTROL

Creating a plan for season-long weed management is critical. And it all starts with seed selection. There are several herbicide-tolerant traits available with full commercial approval, which offer great postemergence options.

	GLYPHOSATE	GLUFONSINATE	2,4-D CHOLINE	DICAMBA
XTENDFLEX®	X	X		X
ROUNDUP READY 2 XTEND®	X			X
ENLIST E3®	X	X	X	

XTENDFLEX SOYBEANS · ROUNDUP READY 2 XTEND SOYBEANS · Enlist E3 SOYBEANS

CROPLAN®

SOYBEAN

CROPLAN® TRAIT LETTERING FOR SOYBEAN VARIETIES

Descriptive variety numbering and trait lettering systems are used for CROPLAN® soybean varieties.

KEY	VARIETY	TRAIT HERBICIDE TOLERANCE	LOGO
XF	XtendFlex®	Roundup®, dicamba and glufosinate tolerant	
X	Roundup Ready 2 Xtend®	Roundup® and dicamba tolerant	
E	Enlist E3®	Glyphosate, glufosinate and 2,4-D choline tolerant	
S	STS®	Sulfonylurea tolerant	N/A

SEED TREATMENTS

Help your fields stay safe from even the stealthiest of threats.

Warden® CX II

By WINFIELD UNITED

SUPERIOR DISEASE & INSECT PROTECTION FOR SOYBEANS

Warden® CX II provides broad-spectrum protection against early-season disease and insects to help improve root health, plant vigor and optimize yield potential. Built from the strong foundation of Warden® CX, Warden® CX II seed treatment includes an additional, innovative active ingredient (Vayantis®) for enhanced disease protection.

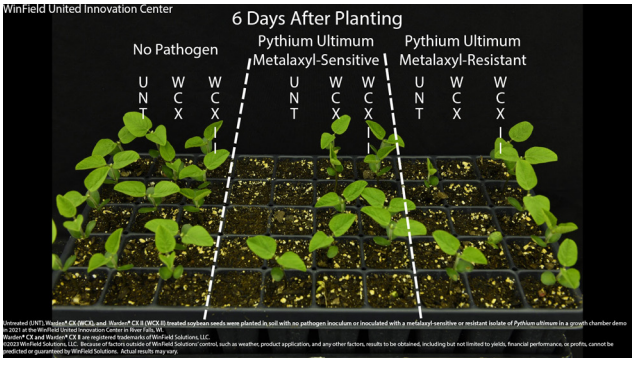
FEATURES AND BENEFITS

Contains four fungicides for multiple modes of action agains early-season disease:

- Combination of **Vayantis® (Picarbutrazox)**, a new novel A.I., and the highest labeled rate of Mefanoxam commercially available for unprecedented control of Pythium and Phytophthora (including metalaxyl-resistant Pythium)
- **Sedaxane (Vibrance®)** for Rhizoctonia protection
- **Fludioxonil** for protection from Fusarium

- Includes active ingredient in Cruiser® insecticide (Thiamethoxam) with proven Cruiser® Vigor Effect for healthier, robust root system. Cruiser® provides protection against an array of seed- and foliar-feeding insects.
- A convenient premix formulation at a low use rate that allows for easier application and room to add products to your total seed treatment offer.
- Extra colorant and polymer providing a more vivid red color, plus improved flowability and handling at the planter, leading to better stand counts and yield potential.

IMPROVES *PYTHIUM* DEFENSE RESULTING IN IMPROVED PLANT STAND



Soybean stands increase after seed is treated with Warden CX II seed treatment versus untreated and previous iteration (Warden CX).

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

winfieldunited.com

CROPLAN®

CROPLAN CP00312X

Group: **0.03**

ROUNDUP READY 2 XTEND SOYBEANS

Characteristics

	Not Recommended → Excellent
PRR Tolerance	1
SDS Tolerance	N/A
SWM Tolerance	2
BSR Tolerance	N/A
Iron Chlorosis	2

Height	M	Canopy Type	-
Emergence	2	Standability	1
BSR Tolerance	NA		

- Improved yield potential at a 0.03 RM
- Versatile placement for variable soils
- Excellent PRR tolerance and strong IDC tolerance
- Use caution on SCN-prone areas

CROPLAN CP00729E

Group: **0.07**

Characteristics

	Not Recommended → Excellent
PRR Tolerance	3
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	N/A
Iron Chlorosis	2

Height	M	Canopy Type	-
Emergence	1	Standability	3
BSR Tolerance	NA		

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

CROPLAN CP00842XF

Group: **0.08**

XTENDFLEX SOYBEANS

Characteristics

	Not Recommended → Excellent
PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	N/A
BSR Tolerance	2
Iron Chlorosis	2

Height	M	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	2		

- Strong yield potential variety
- A good fit for the northern North Dakota and Minnesota geographies
- Strong IDC and PRR tolerance
- Use caution in SWM-prone areas

NEW

CROPLAN CP00840XF

Group: **0.08**

XTENDFLEX SOYBEANS WinPak® By WinField United

Characteristics

	Not Recommended → Excellent
PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	2
Iron Chlorosis	3

Height	MT	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	2		

- WinPak® variety consisting of CP00744XF and CP00944XF
- Excellent combination of defense and offense for versatility in placement with an overall solid defensive package for heavier soil types
- Top end yield potential with strong PRR and standability
- Use caution under heavy cyst pressure

NEW

CROPLAN CP00824E

Group: **0.08**

Characteristics

	Not Recommended → Excellent
PRR Tolerance	1
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	5
Iron Chlorosis	2

Height	MT	Canopy Type	Bush
Emergence	1	Standability	2
BSR Tolerance	5		

- Early CROPLAN® Enlist E3®soybean with improved yield potential and PRR over CP00729E
- A larger plant type allows for movement onto lighter and/or more offensive soils
- Solid disease package for success in heavier soil types
- Manage for acres where soybean white mold is a concern; reduce populations and increase row spacings

CROPLAN CP00926X

Group: **0.09**

ROUNDUP READY 2 XTEND SOYBEANS

Characteristics

	Not Recommended → Excellent
PRR Tolerance	3
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	2
Iron Chlorosis	3

Height	M	Canopy Type	Int
Emergence	1	Standability	3
BSR Tolerance	2		

- Strong yield potential on productive soils
- Broadly adaptive bean, moves west well
- Acceptable IDC and strong BSR tolerance
- Not recommended in SCN-prone areas

KEY

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

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NEW

CROPLAN CP00944XF

Group: **0.09**

TENDFLEX SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance	N/A				
SWM Tolerance		4			
BSR Tolerance				2	
Iron Chlorosis				2	

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	2		

- Also available in WinPak® variety CP00840XF
- Very good defensive package to protect yield potential in tougher environments
- Top-end yield potential with a taller plant type to aid movement into lighter soil types or drier environments
- Lower populations and use caution in heavy white mold environments

NEW

CROPLAN CP0124E

Group: **0.1**

Characteristics

	Not Recommended				Excellent
PRR Tolerance					1
SDS Tolerance	N/A				
SWM Tolerance				2	
BSR Tolerance					1
Iron Chlorosis				2	

Height	MT	Canopy Type	Int
Emergence	1	Standability	1
BSR Tolerance	1		

- Significant increase in yield potential for an early Enlist E3® variety with an excellent defensive package
- Larger canopy allows for movement into offensive environments while delivering a solid defensive package for more defensive soil types
- Excellent PRR, BSR and standability, combined with SCN resistance and overall good IDC and SWM
- Larger plant type overall, with excellent standability; no need to push populations

CROPLAN CP0242XF

Group: **0.2**

TENDFLEX SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance		4			
SDS Tolerance	N/A				
SWM Tolerance				2	
BSR Tolerance					1
Iron Chlorosis				2	

Height	MT	Canopy Type	Int/Bush
Emergence	1	Standability	4
BSR Tolerance	1		

- Strong IDC bean for IDC-prone areas
- Best placed on IDC-stressed soils
- Excellent tolerance to BSR
- Use caution on SCN-prone areas

NEW

CROPLAN CP0244XF

Group: **0.2**

TENDFLEX SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance			3		
SDS Tolerance	N/A				
SWM Tolerance				2	
BSR Tolerance				2	
Iron Chlorosis				2	

Height	MT	Canopy Type	Int/Bush
Emergence	1	Standability	1
BSR Tolerance	2		

- High yield potential combined with a solid defensive package for tough soils; able to move onto lighter soils given plant size
- Can work well on tougher IDC acres and areas with SWM pressure
- Overall good defensive package with high yield potential for success in more offensive acres
- Use caution in the heaviest PRR areas

UPGRADED

CROPLAN CP0320E

Group: **0.3**

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance	N/A				
SWM Tolerance			3		
BSR Tolerance	5				
Iron Chlorosis				2	

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	5		

- WinPak® variety consisting of CP0324E and CP0329E
- Upgraded to increase yield potential and improve success on heavier soil types
- Good PRR and IDC combined with SCN for tough acres
- Use caution on heavy SWM and BSR acres

CROPLAN CP0329E

Group: **0.3**

Enlist E3 SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance			3		
SDS Tolerance	N/A				
SWM Tolerance		4			
BSR Tolerance	5				
Iron Chlorosis				2	

Height	M	Canopy Type	-
Emergence	1	Standability	2
BSR Tolerance	5		

- Strong yield performance in 2019 Answer Plot® trials
- Acceptable IDC tolerance
- Strong stress tolerance
- Manage in SWM prone areas

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NEW

CROPLAN CP0440XF

Group: **0.4**

TENDFLEX SOYBEANS · WinPak® By WinField United

Characteristics

	Not Recommended — Excellent
PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	3
Iron Chlorosis	3

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	3		

- WinPak® variety consisting of CP0444XF and CP0542XF
- Genetically diverse WinPak® variety with excellent yield potential for offensive soils
- Strong PRR for poorly drained soils
- Acceptable SWM and IDC tolerance

CROPLAN CP0542XF

Group: **0.5**

TENDFLEX SOYBEANS

Characteristics

	Not Recommended — Excellent
PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	4
Iron Chlorosis	4

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	4		

- Outstanding yield potential on productive soils
- Solid heat and drought stress tolerance allows western movement
- Strong PRR tolerance
- Avoid IDC-prone areas

NEW

CROPLAN CP0530E

Group: **0.5**

WinPak® By WinField United

Characteristics

	Not Recommended — Excellent
PRR Tolerance	1
SDS Tolerance	N/A
SWM Tolerance	2
BSR Tolerance	1
Iron Chlorosis	2

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	1		

- WinPak® variety consisting of CP0524E and CP0534E
- Versatile and stable WinPak variety, for flexibility to plant on most acres
- Excellent PRR package for poorly drained soils with strong IDC and SWM tolerance
- Agronomically sound variety with no major watchouts

CROPLAN CP0751XF

Group: **0.7**

TENDFLEX SOYBEANS

Characteristics

	Not Recommended — Excellent
PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	1
Iron Chlorosis	2

Height	MT	Canopy Type	Int
Emergence	1	Standability	3
BSR Tolerance	1		

- Also available in WinPak® variety CP0740XF
- Ideally placed in areas prone to PRR
- Strong PRR package with strong IDC

UPGRADED

CROPLAN CP0740XF

Group: **0.7**

TENDFLEX SOYBEANS · WinPak® By WinField United

Characteristics

	Not Recommended — Excellent
PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	1
Iron Chlorosis	2

Height	MT	Canopy Type	Int
Emergence	1	Standability	3
BSR Tolerance	1		

- WinPak® variety consisting of CP0744XF and CP0751XF
- Strong IDC and PRR tolerance
- Upgraded yield potential with improved standability and SWM tolerance over last year"s CP0740XF

UPGRADED

CROPLAN CP0820E

Group: **0.8**

WinPak® By WinField United

Characteristics

	Not Recommended — Excellent
PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	N/A
Iron Chlorosis	2

Height	MT	Canopy Type	Int/Bush
Emergence	1	Standability	2
BSR Tolerance	1/NG		

- WinPak® variety consisting of CP0822E and CP0824E
- Offers versatility to handle offensive environments to stress-prone areas
- Strong IDC and PRR tolerance
- Upgraded yield potential with added SCN protection over last year"s CP0820E version

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UPGRADED

CROPLAN CP0940XF

Group: 0.9

TENDFLEX SOYBEANS · WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance	N/A				
SWM Tolerance				2	
BSR Tolerance			3		
Iron Chlorosis				2	

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	3
BSR Tolerance	3		

- WinPak® variety consisting of CP0954XF and CP1042XF
- Versatile placement across soil types and yield levels
- Strong SWM tolerance and PRR tolerance
- Upgraded yield potential over last year"s CP0940XF

CROPLAN CP1121E

Group: 1.1

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
SWM Tolerance			3		
BSR Tolerance	N/A				
Iron Chlorosis				2	

Height	MT	Canopy Type	Int
Emergence	1	Standability	3
BSR Tolerance	NG		

- Versatile, standalone Enlist E3® variety
- Excellent yield potential in both high and low yield environments
- Average white mold tolerance is enhanced with strong standability
- Use caution on BSR-prone areas

NEW

CROPLAN CP1123E

Group: 1.1

Enlist E3 SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance					1
SDS Tolerance				2	
SWM Tolerance			3		
BSR Tolerance					1
Iron Chlorosis				2	

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	1		

- High yield potential with Peking SCN resistance
- Versatile placement for high productivity potential in areas prone to IDC and PRR
- Strong IDC and PRR tolerance with Rps3a gene resistance

NEW

CROPLAN CP1130E

Group: 1.1

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance					1
SDS Tolerance			3		
SWM Tolerance			3		
BSR Tolerance					1
Iron Chlorosis				2	

Height	MT	Canopy Type	Int/Bush
Emergence	1	Standability	2
BSR Tolerance	1		

- WinPak® variety consisting of CP1123E and CP1224E
- Excellent yield potential with broad adaptability
- Peking x Peking WinPak variety for acres with soybean cyst nematode
- Acceptable SWM and SDS tolerance

UPGRADED

CROPLAN CP1240XF

Group: 1.2

TENDFLEX SOYBEANS · WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance			3		
SWM Tolerance				2	
BSR Tolerance					1
Iron Chlorosis				2	

Height	MT	Canopy Type	Int
Emergence	1	Standability	1
BSR Tolerance	1		

- WinPak® variety consisting of CP1242XF and CP1244XF
- Versatile WinPak variety that works across many acres
- Strong agronomic package combined with high yield potential
- Acceptable SDS tolerance

CROPLAN CP1430E

Group: 1.4

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
SWM Tolerance			3		
BSR Tolerance					1
Iron Chlorosis			3		

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	1		

- WinPak® variety consisting of CP1422E and CP1522E
- Replaces CP1420E for improved agronomics and higher yield potential
- Excellent BSR tolerance and emergence
- Acceptable SWM and IDC tolerance

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CROPLAN CP1443XF

Group: 1.4

XTENDFLEX SOYBEANS

Characteristics

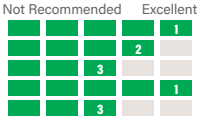
Height	MT	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	2		

- Also available in WinPak® variety CP1540XF
- Excellent SWM tolerance with Strong SDS and IDC
- Double stack PRR gene with strong tolerance
- Medium-tall plant with strong standability

CROPLAN CP1522E

Group: 1.5

Characteristics



Height	M	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	1		

- Also available in WinPak® variety CP1430XF
- Best positioned on fields with PRR and BSR history
- Excellent emergence, BSR and PRR tolerance
- Acceptable SWM tolerance

UPGRADED

CROPLAN CP1540XF

Group: 1.5

XTENDFLEX SOYBEANS WinPak® By WinField United

Characteristics

Height	MT	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	2		

- WinPak® variety consisting of CP1443XF and CP1544XF
- Strong PRR, SWM and SDS tolerances
- High yield potential combined with strong agronomics
- Acceptable IDC tolerance

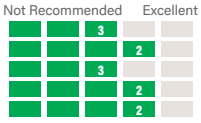
NEW

CROPLAN CP1620E

Group: 1.6

WinPak® By WinField United

Characteristics



Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	2		

- WinPak® variety consisting of CP1623E and CP1624E
- Versatile WinPak variety that can work across acres
- Peking x Peking WinPak variety for acres with soybean cyst nematode
- Acceptable PRR and SWM tolerance

CROPLAN CP1623E

Group: 1.6

Characteristics

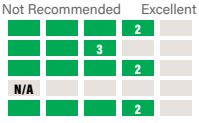
Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	1		

- High potential variety with peking SCN and IDC tolerance
- Best positioned on fields with SCN pressure or IDC hot spots
- Excellent BSR and strong PRR tolerance
- Acceptable SWM tolerance

CROPLAN CP1721E

Group: 1.7

Characteristics



Height	M	Canopy Type	Int
Emergence	1	Standability	1
BSR Tolerance	NG		

- Versatile Enlist E3® variety with solid agronomics
- Consistent performance from east to west
- Strong PRR, SWM, and IDC tolerance
- Not recommended on BSR-prone fields

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CROPLAN CP1720E

Group: 1.7

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance			3		
SWM Tolerance			3		
BSR Tolerance	N/A				
Iron Chlorosis			3		

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	3/NG		

- WinPak® variety consisting of CP1721E and CP1722E
- Versatility and stability will allow this WinPak to be planted on almost all acres
- High yield potential combined with strong agronomics
- Acceptable SWM and IDC tolerance

CROPLAN CP1742XF

Group: 1.7

XTENDFLEX SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
SWM Tolerance				2	
BSR Tolerance					1
Iron Chlorosis				2	

Height	T	Canopy Type	Int/Nar
Emergence	2	Standability	1
BSR Tolerance	1		

- Also available in WinPak® variety CP1840XF
- Solid agronomic package works across a variety of acres
- Excellent standability
- Acceptable SWM tolerance

UPGRADED

CROPLAN CP1840XF

Group: 1.8

XTENDFLEX SOYBEANS WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
SWM Tolerance				2	
BSR Tolerance					1
Iron Chlorosis				2	

Height	T	Canopy Type	Int
Emergence	2	Standability	1
BSR Tolerance	1		

- WinPak® variety consisting of CP1742XF and CP1844XF
- Strong SWM and IDC tolerance
- Excellent BSR tolerance and strong agronomic package
- Tall variety with strong standability

CROPLAN CP1923E

Group: 1.9

Enlist E3 Soybeans

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
SWM Tolerance				2	
BSR Tolerance	N/A				
Iron Chlorosis				2	

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	NG		

- Also available in WinPak® variety CP2030E
- High yield potential that works across many acres
- Strong SWM, SDS and IDC tolerance
- Strong PRR field tolerance despite no gene present

NEW

CROPLAN CP1930E

Group: 1.9

Enlist E3 Soybeans WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance			3		
SWM Tolerance			3		
BSR Tolerance		4			
Iron Chlorosis			3		

Height	M	Canopy Type	Int
Emergence	2	Standability	1
BSR Tolerance	4		

- New offensive WinPak® variety that consists of CP1924E and CP2024E
- Peking variety with high yield potential
- Excellent standability with strong PRR
- Average IDC, SWM, and SDS - manage in high pressure environments

NEW

CROPLAN CP2054XF

Group: 2

XTENDFLEX SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
SWM Tolerance				2	
BSR Tolerance					1
Iron Chlorosis			3		

Height	M	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	1		

- Single line that pairs strong agronomics with yield potential
- Strong PRR, SDS, and stress tolerance allows movement east to west
- Strong SWM and standability for heavy white mold acres
- Average IDC - manage on high PH acres

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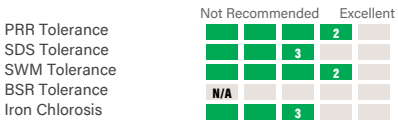
CROPLAN CP2030E

Group: 2

WinPak® By WinField United

Characteristics



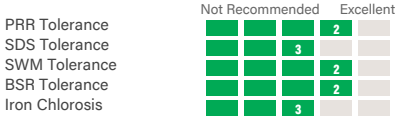
Height	MT	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	2/NG		

- WinPak® variety consisting of CP1923E and CP2122E
- Works well on SWM and PRR prone fields
- Strong standability, emergence, SWM and PRR
- Acceptable IDC and SDS tolerance

CROPLAN CP2122E

Group: 2.1

Characteristics



Height	M	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	2		

- Standalone variety excels in high yield environments
- Versatile product works across many acres
- Strong standability and emergence coupled with PRR, SWM and BSR tolerance
- Acceptable SDS and IDC tolerance

CROPLAN CP2220E

Group: 2.2

WinPak® By WinField United

Characteristics

Height	MT	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	2		

- WinPak® variety consisting of CP2222E and CP2232E
- Works well on BSR- and IDC-prone fields
- Strong standability, BSR and IDC tolerance
- Acceptable PRR, SDS and SWM tolerance

CROPLAN CP2322E

Group: 2.3

Characteristics

Height	M	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	2		

- Single line variety with solid agronomics
- Excellent SDS resistance
- Strong IDC, SWM and standability
- Strong emergence and PRR

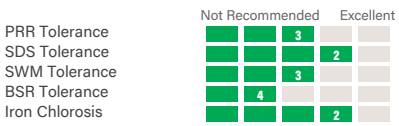
NEW

CROPLAN CP2340XF

Group: 2.3

XTENDFLEX SOYBEANS WinPak® By WinField United

Characteristics



Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	4		

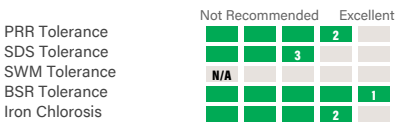
- New WinPak® variety that consists of CP2244XF and CP2344XF
- Strong IDC and SDS allow a broad acre fit
- Average SWM, but strong standability to fit on white mold acres
- Manage for BSR insusceptible environments

CROPLAN CP2540XF

Group: 2.5

XTENDFLEX SOYBEANS WinPak® By WinField United

Characteristics



Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	1		

- WinPak ® variety consisting of CP2543XF and CP2652XF
- Excellent product from West to East with proven genetic backgrounds
- Strong IDC tolerance and acceptable SDS protection
- Manage for SWM in susceptible environments

KEY

Scale

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

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UPGRADED

CROPLAN CP2520E

Group: 2.5

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance			3		
SDS Tolerance			3		
SWM Tolerance			3		
BSR Tolerance	N/A				
Iron Chlorosis			3		

Height	MT	Canopy Type	Bush
Emergence	3	Standability	3
BSR Tolerance	2/NG		

- Upgraded WinPak® variety that consists of CP2523E and CP2524E
- High yield potential variety that can move east to west
- Average SDS, SWM, and IDC tolerance
- Average standability, manage with population where necessary

CROPLAN CP2743XF

Group: 2.7

XTENDFLEX® SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
SWM Tolerance	5				
BSR Tolerance	N/A				
Iron Chlorosis			3		

Height	T	Canopy Type	Int
Emergence	1	Standability	3
BSR Tolerance	NA		

- Offensive variety for high yield potential and stability
- Excellent height for hills and stressed acres
- Strong SDS tolerance with acceptable IDC tolerance
- Use caution on SWM prone fields

UPGRADED

CROPLAN CP2840XF

Group: 2.8

XTENDFLEX® SOYBEANS WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance			3		
SDS Tolerance				2	
SWM Tolerance	5				
BSR Tolerance	N/A				
Iron Chlorosis			3		

Height	T	Canopy Type	Int/Bush
Emergence	1	Standability	3
BSR Tolerance	1/NA		

- Upgraded WinPak® variety that consists of CP2743XF and CP2844XF
- High yield variety that can move east to west
- Strong SDS and excellent emergence allows broad placement
- Manage on SWM acres

CROPLAN CP2822E

Group: 2.8

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance			3		
SWM Tolerance			3		
BSR Tolerance	N/A				
Iron Chlorosis			3		

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	NG		

- Also available in WinPak® variety CP2920E
- Strong PRR, stress tolerance and standability
- Acceptable IDC and SDS tolerance

UPGRADED

CROPLAN CP2920E

Group: 2.9

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance			3		
SWM Tolerance			3		
BSR Tolerance	N/A				
Iron Chlorosis			3		

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	5/NG		

- Upgraded WinPak® variety that consists of CP2822E and CP3024ES
- Strong agronomics paired with high yield potential make this a broad acre fit
- Strong stress tolerance and standability allow this WinPak variety to move east to west
- Manage SDS in high pressure environments with seed treatment

CROPLAN CP3057XS

Group: 3

ROUNDUP READY 2 XTEND® SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance		4			
SDS Tolerance				2	
SWM Tolerance	N/A				
BSR Tolerance					1
Iron Chlorosis					1

Height	M	Canopy Type	Int
Emergence	2	Standability	3
BSR Tolerance	1		

- Excellent IDC variety that works in multiple soils and yield environments
- Stress-tolerant line well-adapted from east to west
- Rugged, medium-height plant with SCN and BSR resistance
- HRps1c Phytophthora gene; manage with seed treatments

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UPGRADED

CROPLAN CP3120E

Group: 3.1

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance					1
SDS Tolerance		4			
SWM Tolerance			3		
BSR Tolerance	5				
Iron Chlorosis			3		

Height	MT	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	5		

- WinPak® variety consisting of CP3024ES and CP3124ES
- Versatile variety that can move east to west
- Improved SDS with great standability at this RM
- Caution on high IDC acres

NEW

CROPLAN CP3240XF

Group: 3.2

XTENDFLEX SOYBEANS WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance			3		
SWM Tolerance	N/A				
BSR Tolerance	N/A				
Iron Chlorosis	N/A				

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	3
BSR Tolerance	1/NA		

- WinPak® variety consisting of CP3144XF and CP3344XF
- High performance potential on a variety of acres
- Very good SDS tolerance
- Caution on high IDC acres

CROPLAN CP3320E

Group: 3.3

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance			3		
SWM Tolerance		4			
BSR Tolerance	N/A				
Iron Chlorosis			3		

Height	MT	Canopy Type	Bush
Emergence	1	Standability	3
BSR Tolerance	NA		

- WinPak® variety consisting of CP3222E and CP3321E
- Stable, offensive variety paired with a new line for solid defensive characteristics and high yield potential
- Excellent stress tolerance and strong PRR tolerance
- Manage for BSR in susceptible environments

CROPLAN CP3321E

Group: 3.3

Enlist E3 Soybeans

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance			3		
SWM Tolerance		4			
BSR Tolerance			3		
Iron Chlorosis				2	

Height	MT	Canopy Type	Bush
Emergence	1	Standability	3
BSR Tolerance	3		

- Broadly adapted variety that moves east to west
- Strong IDC and PRR tolerance
- Excellent stress tolerance and emergence
- Acceptable standability, FELS and BSR tolerance

CROPLAN CP3422E

Group: 3.4

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
SWM Tolerance			3		
BSR Tolerance					1
Iron Chlorosis				2	

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	1		

- High yield potential single line with solid disease package and appearance late season
- Versatile variety that can perform nationally from the low- to high-end acre
- Excellent stress tolerance, strong PRR, SDS and IDC tolerance
- Acceptable FELS tolerance

NEW

CROPLAN CP3550XF

Group: 3.5

XTENDFLEX SOYBEANS WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance			3		
SDS Tolerance			3		
SWM Tolerance			3		
BSR Tolerance				2	
Iron Chlorosis			3		

Height	M	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	2		

- WinPak® variety consisting of CP3444XF and CP3544XFS
- Broadly adapted variety from east to west
- Strong overall agronomic package with excellent standability
- Acceptable SDS and PRR tolerance

KEY

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UPGRADED

CROPLAN CP3620E

Group: 3.6

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
SWM Tolerance	N/A				
BSR Tolerance					1
Iron Chlorosis			3		

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	1		

- WinPak® consisting of CP3524ES and CP3622ES
- Stable product that can move east to west
- Strong SDS and acceptable FELS

NEW

CROPLAN CP3724ES

Group: 3.7

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
Frogeye Leaf spot					1
Southern Stem Canker					1
Root-Knot Nematode	N/A				

Height	MS	Canopy Type	Int/Bush
Emergence	1	Standability	1
BSR Tolerance	2		

- Standalone variety with excellent yield potential
- Stable product that can move east to west
- Strong overall agronomic package
- Acceptable IDC tolerance

CROPLAN CP3822ES

Group: 3.7

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance					1
Frogeye Leaf spot					1
Southern Stem Canker					1
Root-Knot Nematode	N/A				

Height	MT	Canopy Type	Int/Bush
Emergence	1	Standability	2
BSR Tolerance	3		

- Standalone variety with dependable defensive package
- East to west performance with solid agronomic package
- Excellent tolerance to SDS, SSC and FELS
- Acceptable rating for white mold - manage areas with issues

CROPLAN CP3753XF

Group: 3.7

XTENDFLEX SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance			3		
SDS Tolerance				2	
Frogeye Leaf spot					1
Southern Stem Canker					1
Root-Knot Nematode	N/A				

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	1		

- Standalone variety with very good yield potential and agronomics
- Intermediate plant type that excels in driller or 15" row spacing
- Excellent BSR, FELS, SSC and emergence; strong SDS tolerance
- Acceptable PRR field tolerance rating

UPGRADED

CROPLAN CP3920E

Group: 3.9

WinPak® By WinField United

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
Frogeye Leaf spot				2	
Southern Stem Canker					1
Root-Knot Nematode	N/A				

Height	MT	Canopy Type	Int
Emergence	1	Standability	2
BSR Tolerance	3/NG		

- WinPak® variety consisting of CP3922E and CP3924ES
- Stable WinPak variety with good performance potential across varied soil types and environments
- Excellent emergence and strong standability
- Manage on IDC prone fields

CROPLAN CP3922E

Group: 3.9

Enlist E3 Soybeans

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance			3		
Frogeye Leaf spot			3		
Southern Stem Canker					1
Root-Knot Nematode	N/A				

Height	MT	Canopy Type	Int
Emergence	1	Standability	1
BSR Tolerance	NG		

- Component of CP3920E WinPak®
- Broad adaptability across soil types and yield levels
- Excellent emergence and standability; strong tolerance to PRR and IDC
- Manage SDS in expected areas

KEY

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CROPLAN CP3940XF

Group: 3.9

TENDFLEX SOYBEANS | WinPak® By WINFIELD UNITED

Characteristics

	Not Recommended → Excellent
PRR Tolerance	3
SDS Tolerance	1
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	N/A

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	NA		

- WinPak® variety consisting of CP3842XF and CP3943XF
- Broadly adapted East to West and across yield environments
- Excellent SDS, and SSC; strong emergence and FELS tolerance
- Acceptable PRR field tolerance; manage for average standability with moderate populations

CROPLAN CP3842XF

Group: 4

TENDFLEX SOYBEANS

Characteristics

	Not Recommended → Excellent
PRR Tolerance	3
SDS Tolerance	1
Frogeye Leaf spot	1
Southern Stem Canker	1
Root-Knot Nematode	5

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	1
BSR Tolerance	NA		

- Component of CP3940XF WinPak®
- Best positioned in central region, on most soil types and yield levels
- Offers excellent standability and tolerance to SDS, FELS and SSC
- Manage placement in areas with RKN

NEW

CROPLAN CP4144XF

Group: 4.1

TENDFLEX SOYBEANS

Characteristics

	Not Recommended → Excellent
PRR Tolerance	2
SDS Tolerance	2
Frogeye Leaf spot	2
Southern Stem Canker	N/A
Root-Knot Nematode	N/A

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	3
BSR Tolerance	NA		

- Standalone variety with top-end yield potential in tough growing conditions
- Best positioned in central and eastern regions
- Strong emergence, PRR and SDS tolerance

CROPLAN CP4122E

Group: 4.1

Characteristics

	Not Recommended → Excellent
PRR Tolerance	3
SDS Tolerance	3
Frogeye Leaf spot	2
Southern Stem Canker	N/A
Root-Knot Nematode	5

Height	MT	Canopy Type	Int/Bush
Emergence	1	Standability	2
BSR Tolerance	NA		

- High yield potential variety east to west and north to south
- Broadly adapted across soil types, yield environments and regions
- Excellent emergence; strong standability; acceptable tolerance to FELS
- Manage placement on RKN-prone acres

NEW

CROPLAN CP4324ES

Group: 4.3

Characteristics

	Not Recommended → Excellent
PRR Tolerance	2
SDS Tolerance	2
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	5

Height	MT	Canopy Type	-
Emergence	1	Standability	2
BSR Tolerance	5		

- Standalone variety with excellent emergence and very good standability
- Excellent stress tolerance with very good PRR, SDS, FELS tolerance
- Stable yield potential across low and high yield environments
- Use caution in IDC prone areas

CROPLAN CP4521E

Group: 4.5

Characteristics

	Not Recommended → Excellent
PRR Tolerance	2
SDS Tolerance	2
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	5

Height	MT	Canopy Type	NA
Emergence	1	Standability	2
BSR Tolerance	NG		

- Broadly adapted variety that moves north and south well
- Acceptable FELS, SDS and SSC tolerance
- Medium height variety for clay soils with acceptable standability for lighter soils
- Manage placement in RKN-prone acres

KEY

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NEW

CROPLAN CP4624ES

Group: **4.6**

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
Frogeye Leaf spot					1
Southern Stem Canker					1
Root-Knot Nematode	5				

Height	MT	Canopy Type	Int/Bush
Emergence	1	Standability	1
BSR Tolerance	5		

- Standalone variety with very good PRR and SDS tolerance
- Excellent emergence and standability
- Excellent choice for clay soils that tend to stay wet
- Very good IDC tolerance

CROPLAN CP4541XFS

Group: **4.6**

XTENDFLEX SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance			3		
SDS Tolerance				2	
Frogeye Leaf spot	N/A				
Southern Stem Canker					1
Root-Knot Nematode	5				

Height	T	Canopy Type	Int/Bush
Emergence	1	Standability	3
BSR Tolerance	NA		

- STS®-tolerant variety broadly adapted across soil types and yield levels
- Position broadly east to west and north to south on mixed to heavy soils
- Excluder with excellent emergence; SSC resistance
- Use caution with placement in sand on wide rows

CROPLAN CP4843XFS

Group: **4.8**

XTENDFLEX SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance			3		
SDS Tolerance					1
Frogeye Leaf spot					1
Southern Stem Canker					1
Root-Knot Nematode	5				

Height	MT	Canopy Type	Int/Bush
Emergence	1	Standability	3
BSR Tolerance	NA		

- Replacement for CP4841XFS
- STS-tolerant and able to move east to west
- Strong standability, SDS and FELS tolerance

NEW

CROPLAN CP4944XFS

Group: **4.9**

XTENDFLEX SOYBEANS

Characteristics

	Not Recommended				Excellent
PRR Tolerance				2	
SDS Tolerance				2	
Frogeye Leaf spot			3		
Southern Stem Canker					1
Root-Knot Nematode			3		

Height	T	Canopy Type	Int/Bush
Emergence	1	Standability	2
BSR Tolerance	NA		

- Standalone variety with high yield potential
- Very strong performance poorly drained and clay soils
- Excellent stem canker tolerance; strong agronomics in PRR and SDS
- Acceptable Frogeye and Root Knot tolerance

CROPLAN CP4822ES

Group: **4.9**

Characteristics

	Not Recommended				Excellent
PRR Tolerance			3		
SDS Tolerance			3		
Frogeye Leaf spot				2	
Southern Stem Canker	N/A				
Root-Knot Nematode	N/A				

Height	MT	Canopy Type	Int/Bush
Emergence	2	Standability	2
BSR Tolerance	NA		

- STS®-tolerant excluder variety
- Broadly adapted east to west on most soil types including heavy clay soils
- Taller plant type with strong emergence and standability; excellent tolerance to Cercospora leaf spot
- Manage in areas with severe SDS and PRR

KEY

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SOYBEAN

CROPLAN®

ROUNDUP READY 2 XTEND®/XTENDFLEX® – RM: 0.0-1.3

	WinPak® Variety Components	Determinate/Indeterminate	Relative Maturity	SCN Resistant Source 1	PRR Gene 2	PRR Tolerance	SDS Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Iron Chlorosis	Southern Stem Canker 3	Frogeye Leaf Spot	Root-Knot Nematode 3	Emergence	Standability	Stress Tolerance	Canopy Type 4	Plant Height 5	Flower Color 6	Pubescence Type 7	Pod Color 8	Hilum Color 9
	CP00312X		0.03	IND	NG	Rps1c	1	NA	Includer	2	NA	2	1	NA	NA	2	1	NA	Int	M	P	LTW	BR	IY
NEW	CP00744XF*		0.07	IND	NG	Rps1c	1	NA	Includer	2	2	4	NA	2	NA	2	2	NA	Int	M	P	LTW	BR	GR
NEW	CP00840XF	CP00744XF*/CP00944XF	0.08	IND	PI88.788/NG	Rps1c	2	NA	Includer	3	2	3	NA	2/NA	NA	2	2	NA	Int	MT	P	LTW	BR	BL/GL
	CP00842XF		0.08	IND	PI88.788	Rps1c	2	NA	Includer	NA	2	2	NA	NA	NA	2	2	NA	Int	M	P	LTW	TN	BL
	CP00926X		0.09	IND	NG	Rps1k	3	NA	Includer	3	2	3	NA	NA	NA	1	3	3	Int	M	P	TW	BR	BL
NEW	CP00944XF		0.09	IND	PI88.788	Rps1c	2	NA	Includer	4	2	2	NA	NA	NA	1	2	NA	Int	MT	P	LTW	BR	BL
	CP0242XF		0.2	IND	NG	Rps1c	4	NA	NA	2	1	2	NA	NA	NA	1	4	NA	Int/Bush	MT	P	TW	BR	BL
NEW	CP0244XF		0.2	IND	PI88.788	Rps1c	3	NA	Includer	2	2	2	NA	NA	NA	1	1	NA	Int/Bush	MT	P	LTW	BR	BL
NEW	CP0440XF	CP0444XF*/CP0542XF	0.4	IND	PI88.788	Rps1c	2	3/NA	Includer	3	3	3	1/NA	NA	NA	2	2	NA	Int/Bush	MT	P	GR/LTW	BR/TN	IB/IY
NEW	CP0444XF*		0.4	IND	PI88.788	Rps1c	2	NA	Includer	3	1	1	NA	NA	NA	1	1	NA	Int/Bush	MT	P	GR	BR	IB
	CP0542XF		0.5	IND	PI88.788	Rps1c	2	3	Includer	3	4	4	1	NA	NA	2	2	NA	Int/Bush	MT	P	LTW	TN	IY
▲	CP0740XF	CP0744XF*/CP0751XF	0.7	IND	PI88.788	RPS1k/1c,3A	2	NA	Includer	3	1	2	1/NA	NA	5/NA	1	3	1/NA	Int	MT	P	GR/TW	BR	BL/IB
NEW	CP0744XF*		0.7	IND	PI88.788	Rps1k	2	2	Includer	2	1	2	1	NA	5	1	2	1	Int	M	P	GR	BR	IB
	CP0751XF		0.7	IND	PI88.788	Rps1c,3a	2	NA	Includer	3	1	2	NA	NA	NA	1	3	NA	Int	MT	P	TW	BR	BL
▲	CP0940XF	CP0954XF*/CP1042XF*	0.9	IND	PI88.788	HRps1c/3a	2	1/NA	Includer	2	3	2	1/NA	NA	NA	2	3	2/NA	Int/Bush	MT	P	LTW	TN	BR/Y
NEW	CP0954XF*		0.9	IND	PI88.788	Rps1c	2	1	Includer	2	3	2	1	NA	NA	2	3	NA	Int	MT	P	LTW	TN	Y
	CP1042XF*		1	IND	PI88.788	HRps3a	2	NA	Includer	2	3	2	NA	NA	NA	1	2	2	Int/Bush	MT	P	LTW	TN	BR
▲	CP1240XF	CP1242XF*/CP1244XF*	1.2	IND	PI88.788	Rps1c,H3a	2	3	Includer	2	1	2	1/NA	NA	5/NA	1	1	2	Int	MT	P	GR/LTW	BR/TN	BL/BF
	CP1242XF*		1.2	IND	PI88.788	HRps3a	2	3	Includer	2	1	2	NA	NA	NA	1	1	2	Int	MT	P	LTW	BR	BL
NEW	CP1244XF*		1.2	IND	PI88.788	Rps1c	2	2	Includer	1	1	2	1	NA	5	1	1	2	Int	M	P	GR	TN	BF

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4 = Manage
5 = Not Recommended
NG = No gene present

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1 SCN Resistant Source
Peking = These varieties contain SCN resistance genes from the Peking soybean breeding lines
PI88.788 = These varieties contain SCN resistance genes from the PI88.788 soybean breeding lines

2 PRR Gene
Rps = Resistance to Phytophthora sojae
HRps = Heterozygous segregating Rps occurrence

3 Southern Stem Canker and Root-Knot Nematode
1 = Resistant
2 = Moderately Resistant
3 = Moderately Resistant–Moderately Susceptible
4 = Moderately Susceptible
5 = Susceptible

4 Canopy Type
Nar = Narrow
Int = Intermediate
Bush = Bushy

5 Plant Height
T = Tall
M = Medium
S = Short

6 Flower Color
P = Purple
W = White

7 Pubescence Type
GR = Gray
TW = Tawny
LTW = Light Tawny

8 Pod Color
TN = Tan
BR = Brown

9 Hilum Color
YE = Yellow/Clear
GR = Gray
BL = Black
IB = Imperfect Black
BR = Brown
BF = Buff
SL = Slate
TN = Tan
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SOYBEAN

CROPLAN®

ROUNDUP READY 2 XTEND®/XTENDFLEX® – RM: 1.4-3.0

	WinPak® Variety Components	Determinate/Indeterminate	Relative Maturity	SCN Resistant Source 1	PRR Gene 2	PRR Tolerance	SDS Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Iron Chlorosis	Southern Stem Canker 3	Frogeye Leaf Spot	Root-Knot Nematode 3	Emergence	Standability	Stress Tolerance	Canopy Type 4	Plant Height 5	Flower Color 6	Pubescence Type 7	Pod Color 8	Hilum Color 9
	CP1443XF*		1.4	IND	PI88.788	Rps1c,3a	2	2	Includer	1	2	3	1	NA	NA	2	2	NA	Int	MT	P	LTW	BR	BR
▲	CP1540XF	CP1443XF*/CP1544XF*	1.5	IND	PI88.788	Rps1c,3a/1c	2	2	Includer	2	2	3	1	3/NA	NA	2	2	NA	Int	MT	P	LTW	BR	BR
NEW	CP1544XF*		1.5	IND	PI88.788	Rps1c	2	2	Includer	2	2	2	1	3	NA	2	2	NA	Int/Nar	MT	P	LTW	BR	BR
	CP1742XF		1.7	IND	PI88.788	Rps1c	2	2	Includer	2	1	2	1	NA	NA	2	1	NA	Int/Nar	T	P	LTW	BR	BR
▲	CP1840XF	CP1742XF/CP1844XF*	1.8	IND	PI88.788	Rps1c/NG	2	2	Includer	2	1	2	1	NA	5/NA	2	1	2/NA	Int	T	P	LTW	BR/TN	BR/BL
NEW	CP1844XF*		1.8	IND	PI88.788	NG	2	2	Includer	2	1	2	1	NA	5	1	1	2	Int	MT	P	LTW	TN	BL
NEW	CP2054XF		2	IND	PI88.788	NG	2	2	Includer	2	1	3	1	NA	5	1	2	2	Int	M	P	LTW	TN	BL
NEW	CP2244XF*		2.2	IND	PI88.788	Rps1c	3	1	Includer	2	4	2	1	4	NA	2	2	NA	Int/Bush	MT	W	LTW	BR	BL
NEW	CP2340XF	CP2244XF*/CP2344XF*	2.3	IND	PI88.788	Rps1c	3	2	Includer	3	4	2	1	4/NA	5/NA	2	2	2/NA	Int/Bush	MT	P/W	GR/LTW	BR	BL/IB
NEW	CP2344XF*		2.3	IND	PI88.788	Rps1c	2	3	Includer	3	3	2	1	NA	5	2	2	2	Int	MT	P	GR	BR	IB
	CP2540XF	CP2543XF*/CP2652XF*	2.5	IND	PI88.788	Rps1c/NG	2	3	Includer/NA	2/NA	1	2	1/NA	NA	5/NA	2	2	2	Int/Bush	MT	P	GR	BR/TN	BF/IB
	CP2543XF*		2.5	IND	PI88.788	Rps1c	2	3	Includer	2	1	2	1	NA	5	2	2	2	Int	MT	P	GR	BR	IB
	CP2652XF*		2.6	IND	PI88.788	NG	2	3	Includer	NA	1	2	NA	NA	NA	2	2	2	Int/Bush	MT	P	GR	TN	BF
	CP2743XF		2.7	IND	PI88.788	NG	2	2	Includer	5	NA	3	1	NA	NA	1	3	NA	Int	T	P	LTW	BR	BL
▲	CP2840XF	CP2743XF/CP2844XF*	2.8	IND	PI88.788	NG	3	2	Includer	5	1/NA	3	1/NA	NA	NA	1	3	NA	Int/Bush	T	P	GR/LTW	BR	BF/BL
NEW	CP2844XF*		2.8	IND	PI88.788	NG	4	1	Includer	4	1	3	NA	NA	NA	1	2	NA	Int/Bush	MT	P	GR	BR	BF
	CP3057XS		3	IND	PI88.788	HRps1c	4	2	Includer	NA	1	1	NA	NA	NA	2	3	1	Int	M	P	LTW	TN	BL

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5 = Not Recommended
NG = No gene present

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HRps = Heterozygous segregating Rps occurrence

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1 = Resistant
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3 = Moderately Resistant–Moderately Susceptible
4 = Moderately Susceptible
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Nar = Narrow
Int = Intermediate
Bush = Bushy

5 Plant Height
T = Tall
M = Medium
S = Short

6 Flower Color
P = Purple
W = White

7 Pubescence Type
GR = Gray
TW = Tawny
LTW = Light Tawny

8 Pod Color
TN = Tan
BR = Brown

9 Hilum Color
YE = Yellow/Clear
GR = Gray
BL = Black
IB = Imperfect Black
BR = Brown
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SOYBEAN

CROPLAN®

ROUNDUP READY 2 XTEND®/XTENDFLEX® – RM: 3.1-5.0

	WinPak® Variety Components	Determinate/Indeterminate	Relative Maturity	SCN Resistant Source 1	PRR Gene 2	SDS Tolerance	PRR Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Iron Chlorosis	Southern Stem Canker 3	Frogeye Leaf Spot	Root-Knot Nematode 3	Emergence	Standability	Stress Tolerance	Canopy Type 4	Plant Height 5	Flower Color 6	Pubescence Type 7	Pod Color 8	Hilum Color 9
NEW	CP3144XF*		3.1	IND	PI88.788	NG	1	3	Includer	4	1	4	1	2	5	1	3	1	Int/Nar	MT	P	LTW	BR	BL
NEW	CP3240XF	CP3144XF*/CP3344XF*	3.2	IND	PI88.788	NG/TBD	2	3	Includer	4/NA	1/NA	4/NA	1/NA	2	5/NA	2	3	1/NA	Int/Bush	MT	P	LTW/TW	BR	BL
NEW	CP3344XF*		3.3	IND	PI88.788	TBD	3	3	Includer	NA	NA	NA	NA	2	NA	2	3	NA	Int/Bush	MT	P	TW	BR	BL
NEW	CP3444XF*		3.4	IND	PI88.788	Rps1c	3	2	Includer	3	2	3	1	1	NA	2	2	NA	Int/Bush	M	P	LTW	BR	BL
NEW	CP3544XF*		3.5	IND	PI88.788	Rps3a	3	3	Excluder	3	1	3	1	5	5	1	2	NA	Int/Bush	M	P	LTW	BR	BL
NEW	CP3550XF	CP3444XF*/CP3544XFS*	3.5	IND	PI88.788	Rps1c/3a	3	3	Inc/Exc	3	2	3	1	3	5/NA	2	2	NA	Int/Bush	M	P	LTW	BR	BL
	CP3753XF		3.7	IND	PI88.788	NG	3	2	Includer	NA	1	3	1	1	NA	1	2	NA	Int	MT	P	LTW	BR	BL
	CP3842XF*		4	IND	PI88.788	NG	3	1	Includer	NA	NA	4	1	1	5	2	1	NA	Int/Bush	MT	P	LTW	BR	BL
	CP3940XF	CP3842XF*/CP3943XF*	3.9	IND	PI88.788	Rps1c/NG	3	1	Includer	NA	NA	3	1	2	5/NA	2	2	NA	Int/Bush	MT	P	GR/LTW	BR	BL/IB
	CP3943XF*		3.9	IND	PI88.788	Rps1c	3	1	Includer	NA	NA	2	1	2	NA	2	2	NA	Int/Bush	MT	P	GR	BR	IB
NEW	CP4144XF		4.1	IND	PI88.788	Rps1c	2	2	Includer	NA	NA	NA	NA	2	NA	2	3	NA	Int/Bush	MT	P	TW	BR	BL
	CP4541XFS		4.6	IND	PI88.788	Rps1c	3	2	Excluder	NA	NA	NA	1	NA	5	1	3	NA	Int/Bush	T	P	LTW	BR	BL
	CP4843XFS		4.8	IND	PI88.788	Rps1a	3	1	Includer	NA	NA	5	1	1	5	1	3	NA	Int/Bush	MT	P	LTW	BR	BL
NEW	CP4944XFS		4.9	IND	PI88.788	Rps1a/3a	2	2	Includer	NA	NA	2	1	3	3	1	2	NA	Int/Bush	T	W	LTW	BR	BL

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M = Medium
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P = Purple
W = White

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TW = Tawny
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9 Hilum Color
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SOYBEAN

CROPLAN®

ENLIST E3® – RM: 0.0-1.6

	WinPak® Variety Components	Determinate/Indeterminate	Relative Maturity	SCN Resistant Source (1)	PRR Gene (2)	PRR Tolerance	SDS Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Iron Chlorosis	Southern Stem Canker (3)	Frogeye Leaf Spot	Root-Knot Nematode (3)	Emergence	Standability	Stress Tolerance	Canopy Type (4)	Plant Height (5)	Flower Color (6)	Pubescence Type (7)	Pod Color (8)	Hilum Color (9)
NEW	CP00824E		0.08	IND	PI88.788	Rps3a	1	NA	Includer	3	5	2	1	NA	5	1	2	1	Bush	MT	P	GR	TN	BF
NEW	CP0124E		0.1	IND	PI88.788	Rps3a	1	NA	Includer	2	1	2	1	NA	5	1	1	1	Int	MT	P	GR	TN	IB
▲	CP0320E	CP0324E*/CP0329E*	0.3	IND	PI88.788	Rps3a/NG	2	NA	Includer	3	5	2	1	NA	5/NA	1	2	2	Int	MT	PW	GR	TN	BF/IB
NEW	CP0324E*		0.3	IND	PI88.788	Rps3a	1	NA	Excluder	2	5	2	1	NA	5	1	1	1	Int	MT	P	GR	TN	IB
	CP0329E*		0.3	IND	PI88.788	NG	3	NA	Includer	4	5	2	1	NA	NA	1	2	2	Int	M	W	GR	TN	BF
NEW	CP0524E*		0.5	IND	PI88.788	Rps3a	1	NA	Includer	2	1	2	1	NA	5	1	2	2	Int	MT	P	GR	TN	BF
NEW	CP0530E	CP0524E*/CP0534E*	0.5	IND	PI88.788	Rps3a/1kH3a	1	2/NA	Includer	2	1	2	1	NA	5	1	2	2	Int	MT	P	GR	TN	BF/IB
NEW	CP0534E*		0.5	IND	PI88.788	Rps1kH3a	1	2	Includer	2	1	2	1	NA	5	1	2	1	Int	M	P	GR	TN	IB
▲	CP0820E	CP0822E*/CP0824E*	0.8	IND	Peking/PI88.788	Rps3a/NG	2	2/NA	Inc/Exc	3	1/NG	2	1/NA	NA	5	1	2	2	Int/Bush	MT	P	GR	TN	BF
	CP0822E*		0.8	IND	PI88.788	NG	2	NA	Excluder	2	NG	2	NA	NA	5	1	1	2	Int	M	P	GR	TN	BF
NEW	CP0824E*		0.8	IND	Peking	Rps3a	1	2	Includer	3	1	2	1	NA	5	1	2	1	Int/Bush	MT	P	GR	TN	BF
	CP1121E		1.1	IND	PI88.788	NG	2	2	Includer	3	NG	2	1	NA	NA	1	3	1	Int	MT	P	GR	BR	IB
NEW	CP1123E*		1.1	IND	Peking	Rps3a	1	2	Includer	3	1	2	1	NA	5	1	2	1	Int	MT	P	GR	TN	BF
NEW	CP1130E	CP1123E*/CP1224E*	1.1	IND	Peking	Rps3a	1	3	Includer	3	1	2	1	NA	5	1	2	1	Int/Bush	MT	P	GR	TN	BF
NEW	CP1224E*		1.2	IND	Peking	Rps3a	1	3	Includer	3	1	2	1	NA	5	1	2	1	Int/Bush	MT	P	GR	TN	BF
NEW	CP1422E*		1.4	IND	PI88.788	NG	2	2	Includer	3	1	3	NA	NA	5	1	2	2	Int	MT	P	LTW	TN	BL
	CP1430E	CP1422E*/CP1522E	1.4	IND	PI88.788	Rps3a/NG	2	2	Includer	3	1	3	NA	NA	5	1	2	2	Int	MT	P	GR/LTW	TN	BF/BL
	CP1522E		1.5	IND	PI88.788	Rps3a	1	2	Includer	3	1	3	NA	NA	5	1	2	2	Int	M	P	GR	TN	BF
NEW	CP1620E	CP1623E/CP1624E*	1.6	IND	Peking	Rps1k/1k,6	3	2	Includer	3	2	2	1/NA	1/NA	1/NA	2	2	1/NA	Int/Bush	MT	P	GR/LTW	TN	BF/BR
	CP1623E		1.6	IND	Peking	Rps1k	2	2	Includer	3	1	2	1	NA	1	1	2	1	Int	MT	P	GR	TN	BF
NEW	CP1624E*		1.6	IND	Peking	Rps1k,6	3	2	Includer	2	2	2	NA	1	NA	2	2	NA	Int/Bush	M	P	LTW	TN	BR

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T = Tall
M = Medium
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8 Pod Color
TN = Tan
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9 Hilum Color
YE = Yellow/Clear
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SOYBEAN

CROPLAN®

ENLIST E3® – RM: 1.7-3.0

	WinPak® Variety Components	Determinate/Indeterminate	Relative Maturity	SCN Resistant Source 1	PRR Gene 2	PRR Tolerance	SDS Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Southern Stem Canker	Iron Chlorosis 3	Frogeye Leaf Spot	Root-Knot Nematode 3	Emergence	Standability	Stress Tolerance	Canopy Type 4	Plant Height 5	Flower Color 6	Pubescence Type 7	Pod Color 8	Hilum Color 9
	CP1720E	CP1721E/CP1722E*	1.7	IND	PI88.788	Rps1k,3a	2	3	Includer	3	3/NG	3	NA	NA	5/NA	1	2	2	Int	MT	P	GR	BR/TN	IB/BF
	CP1721E		1.7	IND	PI88.788	Rps1k	2	3	Includer	2	NG	2	NA	NA	NA	1	1	2	INT	M	P	GR	BR	IB
	CP1722E*		1.7	IND	PI88.788	Rps3a	1	2	Includer	3	3	3	NA	NA	5	1	3	1	Int	MT	P	GR	TN	BF
	CP1923E		1.9	IND	PI88.788	Rps1k	2	2	Includer	2	NG	2	1	NA	1	1	2	1	Int	MT	P	LTW	BR	BL
NEW	**CP1924E***		1.9	IND	Peking	Rps1k	1	2	Includer	2	5	2	1	NA	5	1	1	1	Int	MT	P	GR	TN	BF
NEW	**CP1930E**	CP1924E*/CP2024E*	1.9	IND	Peking	Rps1k	2	3	Includer	3	4	3	1	4/NA	5/NA	2	1	1/NA	Int	M	P	GR	BR/TN	BF/IB
NEW	**CP2024E***		2	IND	Peking	Rps1k	2	4	Includer	3	2	3	1	4	NA	2	1	NA	Int	M	P	GR	BR	IB
	CP2030E	CP1923E/CP2122E	2	IND	PI88.788	Rps1k/1c	2	3	Includer	2	2/NG	3	1	NA	1/NA	2	2	1/NA	Int	MT	P	GR/LTW	BR	BL/IB
	CP2122E		2.1	IND	PI88.788	Rps1c	2	3	Includer	2	2	3	1	NA	NA	2	2	NA	Int	M	P	GR	BR	IB
	CP2220E	CP2222E*/CP2232E*	2.2	IND	PI88.788	Rps1c/NG	3	3	Includer	2	2	2	NA	NA	NA	2	2	NA	Int	MT	PW	GR	BR/TN	BF/IB
	CP2222E*		2.2	IND	PI88.788	Rps1c	3	3	Includer	3	2	2	1	NA	NA	2	2	NA	Int	MT	P	GR	BR	IB
	CP2232E*		2.2	IND	PI88.788	NG	2	2	Includer	2	1	2	NA	NA	NA	2	2	2	Int	MT	W	GR	TN	BF
	CP2322E		2.3	IND	PI88.788	Rps1c	2	1	Includer	2	2	3	1	NA	NA	2	2	NA	Int	M	P	GR	BR	IB
▲	**CP2520E**	CP2523E*/CP2524E*	2.5	IND	Peking/PI88.788	Rps1a/1k	3	3	Includer	3	2/NG	3	1/NA	2/NA	5	3	3	2/NA	Bush	MT	P	GR/LTW	BR/TN	BF/BL
	CP2523E*		2.5	IND	PI88.788	Rps1a	2	3	Includer	3	NG	3	1	NA	5	2	2	2	Int	MT	P	GR	BR	BF
NEW	**CP2524E***		2.5	IND	Peking	Rps1k	3	3	Includer	3	2	3	NA	2	5	3	3	NA	Bush	M	P	LTW	TN	BL
	CP2822E		2.8	IND	PI88.788	Rps1k	2	3	Includer	3	NG	3	NA	NA	NA	2	2	2	Int/Bush	MT	P	GR	BR	IB
▲	**CP2920E**	CP2822E/CP3024ES*	2.9	IND	PI88.788	Rps1k/NG	2	3	Includer	3	5/NG	3	1/NA	2/NA	5/NA	2	2	2	Int/Bush	MT	P	GR	BR	IB
NEW	**CP3024ES***		3.0	IND	PI88.788	NG	1	3	Includer	3	5	3	1	2	5	1	2	1	Int	MT	P	GR	BR	IB

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SOYBEAN

CROPLAN®

ENLIST E3® – RM: 3.1-5.0

	WinPak® Variety Components	Relative Maturity	Determinate/Indeterminate	SCN Resistant Source 1	PRR Gene 2	PRR Tolerance	SDS Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Iron Chlorosis	Southern Stem Canker 3	Frogeye Leaf Spot	Root-Knot Nematode 3	Emergence	Standability	Stress Tolerance	Canopy Type 4	Plant Height 5	Flower Color 6	Pubescence Type 7	Pod Color 8	Hilum Color 9
▲	CP3120E	CP3024ES*/CP3124ES*	3.1	IND	PI88.788	Rps1c/NG	1	4	Includer	3	5	3	1	3	5	2	2	1	Int	MT	P	GR	BR	IB
NEW	CP3124ES*		3.1	IND	PI88.788	Rps1c	1	4	Includer	3	5	3	1	3	5	2	1	1	Int/Nar	MT	P	GR	BR	IB
	CP3222E*		3.2	IND	PI88.788	NG	2	2	Includer	4	NG	3	NA	2	NA	1	2	1	Bush	MT	P	GR	TN	IB
	CP3320E	CP3222E*/CP3321E*	3.3	IND	PI88.788	NG	2	3	Includer	4	NA	3	NA	3	NA	1	3	1	Bush	MT	P	GR/LTW	BR/TN	BR/IB
	CP3321E*		3.3	IND	PI88.788	NG	2	3	Includer	4	3	2	1	3	NA	1	3	1	Bush	MT	P	LTW	BR	BR
	CP3422E		3.4	IND	PI88.788	NG	2	2	Includer	3	1	2	NA	3	NA	1	2	1	Int	MT	P	LTW	BR	BL
NEW	CP3524ES*		3.5	IND	PI88.788	NG	1	2	Includer	NA	1	3	1	3	5	1	2	1	Int/Bush	MT	P	GR	BR	BF
▲	CP3620E	CP3524ES*/CP3622ES	3.6	IND	PI88.788	Rps1k/NG	2	2	Includer	4/NA	1	3	1/NA	3	5/NA	2	2	2	Int/Bush	MT	P	GR/LTW	BR	BL/IB
	CP3622ES*		3.6	IND	PI88.788	Rps1k	2	2	Includer	4	1	3	NA	2	NA	2	2	2	Int	MT	P	LTW	BR	BL
NEW	CP3724ES		3.7	IND	PI88.788	Rps1c/3a	2	2	Excluder	NA	2	3	1	1	NA	1	1	NA	Int/Bush	MS	W	GR	TN	BF
	CP3822ES		3.7	IND	PI88.788	Rps1c	2	1	Excluder	5	3	2	1	1	NA	1	2	NA	Int/Bush	MT	W	GR	TN	BF
▲	CP3920E	CP3922E*/CP3924ES*	3.9	IND	PI88.788	Rps1k/1c	2	2	Inc/Exc	NA	3/NG	4	1	2	NA	1	2	2/NA	Int	MT	W	GR/LTW	TN	BF/BR
	CP3922E*		3.9	IND	PI88.788	Rps1k	2	3	Includer	NA	NG	2	1	3	NA	1	1	2	Int	MT	W	LTW	TN	BR
NEW	CP3924ES*		3.9	IND	PI88.788	Rps1c	2	1	Excluder	NA	3	5	1	1	NA	1	2	NA	Int	M	W	GR	TN	BF
	CP4122E		4.1	IND	PI88.788	NG	3	3	Includer	NA	NA	NA	NA	2	5	1	2	NA	Int/Bush	MT	W	LTW	BR	BR
NEW	CP4324ES		4.3	IND	PI88.788	Rps1c	2	2	Includer	NA	5	NA	1	2	5	1	2	1	Int	MT	W	LTW	TN	BR
	CP4521E		4.5	IND	PI88.788	Rps1a	2	2	Includer	NA	NG	NA	1	2	5	1	2	NA	NA	MT	P	GR	TN	IB
NEW	CP4624ES		4.6	IND	PI88.788	NG	2	2	Excluder	NA	5	NA	1	1	5	1	1	2	Int/Bush	MT	W	TW	BR	BR
	CP4822ES		4.9	IND	PI88.788	NG	3	3	Excluder	NA	NA	NA	NA	2	NA	2	2	NA	Int/Bush	MT	W	GR	BR	BF

KEY

Scale
1 = Excellent
2 = Strong
3 = Acceptable
4 = Manage
5 = Not Recommended
NG = No gene present

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

1 SCN Resistant Source
Peking = These varieties contain SCN resistance genes from the Peking soybean breeding lines
PI88.788 = These varieties contain SCN resistance genes from the PI88.788 soybean breeding lines

2 PRR Gene
Rps = Resistance to Phytophthora sojae
HRps = Heterozygous segregating Rps occurrence

3 Southern Stem Canker and Root-Knot Nematode
1 = Resistant
2 = Moderately Resistant
3 = Moderately Resistant–Moderately Susceptible
4 = Moderately Susceptible
5 = Susceptible

4 Canopy Type
Nar = Narrow
Int = Intermediate
Bush = Bushy

5 Plant Height
T = Tall
M = Medium
S = Short

6 Flower Color
P = Purple
W = White

7 Pubescence Type
GR = Gray
TW = Tawny
LTW = Light Tawny

8 Pod Color
TN = Tan
BR = Brown

9 Hilum Color
YE = Yellow/Clear
GR = Gray
BL = Black
IB = Imperfect Black
BR = Brown
BF = Buff
SL = Slate
TN = Tan
IY = Imperfect Yellow

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

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

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

SOYBEAN

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

ALFALFA

Give Mother Nature a Run for Its Money.

CROPLAN AA ALFALFA

Anthracnose and Aphanomyces root rot both represent a real threat to alfalfa growers. Our AA disease package helps grow a healthy crop even in field conditions susceptible to these pathogens.

Aphanomyces is an aggressive root disease that causes seedling stunting, reduced nodulation and poor root development. Multiple races can be present.

Anthracnose is a severe stem and crown disease that causes defoliation. Multiple races, including a new race 5, can be present in late season.

New CROPLAN® varieties with the designation AA in the name include an enhanced multi-pathogen disease package that offers:

- Disease resistance to multiple races of both Aphanomyces root rot and Anthracnose.
- A combination of healthy roots and healthy stems, which can lead to higher alfalfa yield and forage quality potential.
- Extensive alfalfa roots, to help gather water and nutrients below ground.
- Improved crown and stem health, serving as a highway to transport plant energy to and from the roots and leaves to make valuable forage above ground.

THE TRAITS YOU NEED

HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY

This is the alfalfa trait packge you've been looking for with plenty of options, including:

- Flexibility: a cutting window you get to control. Harvest at 28 days, or delay if weather slows you down without compromising quality potential.
- Quality: higher RFQ[1] and NDFd[1] than conventional varieties cut on the same day.
- Yield Potential: lengthen your cutting window up to 10 days with up to 20% higher yield at harvest.[2]
- Plus the benefits of Roundup Ready® Alfalfa technology.

ROUNDUP READY® ALFALFA

- Offers application flexibility for better weed control during stand establishment.
- Can lead to higher yield potential over the life of the stand.
- Can achieve the high-quality hay and haylage potential you need.

CONVENTIONAL ALFALFA

- Conventional breeding techniques that provide strong advancements in yield production, stand persistence, plus insect and disease resistance.
- Three decades of breeding techniques by alfalfa breeders for improved fiber digestibility (e.g., LegenDairy and RR Presteez lines).
  - These varieties have shown an incremental improvement in fiber digestibility when compared to non-selected varieties.

ALFALFA FOR ORGANIC FORAGE PRODUCTION

- Products developed through conventional breeding, as opposed to the result of genetic engineering.*
- These conventional varieties include the Apex™ Green OMRI Listed® seed coating package.
  - Optimizes water absorption by using natural micronutrients and nitrogen-fixing rhizobia in an organic hydration coating.

COATED SEED

Ensure you're enabling seedling health and seedling germination with WinField® United's seed treatment and coating Grozone® Force package, which delivers:

- Rhizobium bacteria to fix nitrogen
- Fungicides for multiple modes of action to help protect seedlings from root diseases such as phytophthora, Pythium and Aphanomyces
- A micronutrient package, including a PGR to promote early seedling growth

1. Data from FGI trials comparing HarvXtra® Alfalfa with Roundup Ready® Technology 2017 FD4 commercial varieties to FD4 commercial checks. Trials were seeded in 2013 and harvested 2014-2016 at five locations across the U.S. Yield increase is directly correlated to the ability to delay harvest.

2. Data from an FGI trial in West Salem, Wis., comparing three cuttings at 35-day intervals to four cuttings at 28-day intervals. Trials were seeded in 2013 and harvested in 2014-2016. Yield increase is directly correlated to the ability to delay harvest.

**WinField® United does not guarantee forage harvested from stands established with this seed will be GMO-free. Check with your local organic certifying organization before planting.*

The CROPLAN AA disease package was developed by FGI and is also marketed under the UltraCut™ alfalfa disease package brand.

CROPLAN®

HVX Tundra II

Regions: **East|North|West**
Fall Dormancy: **3.3**
Winterhardiness: **1.2**

HARVXTRA

Characteristics

	Not Recommended				Excellent
Yield Index				2	
Persistence Index					1
Feed Quality*					1
Disease Resistance			3		
Insect Resistance		4			
Nematode Resistance			3		

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

- H1 feed quality rating; highest forage quality potential in our lineup; on average, 24% higher NDFD than Roundup Ready® check varieties
- Ideal for Northern growing regions or high elevation; good disease and pest package for east to west adaptation
- Versatile harvest options: ideal for a 2- to 3-cut baled hay management system or great for a 1- or 2-cut hay harvest followed by grazing

HVX Driver

Regions: **Central|East|North|West**
Fall Dormancy: **4**
Winterhardiness: **2**

HARVXTRA

Characteristics

	Not Recommended				Excellent
Yield Index			3		
Persistence Index					1
Feed Quality*					1
Disease Resistance		4			
Insect Resistance			3		
Nematode Resistance	5				

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

- H2 feed quality rating; maximize harvest flexibility; very good yield or forage quality potential with the HarvXtra® Alfalfa trait
- Good disease package provides ability to perform well across multiple geographies
- Great option for 3- to 5-cut flexible hay/haylage harvest system with quick regrowth after cutting

HVX MegaTron

Regions: **Central|East|North|West**
Fall Dormancy: **4.2**
Winterhardiness: **1.7**

HARVXTRA

Characteristics

	Not Recommended				Excellent
Yield Index					1
Persistence Index					1
Feed Quality*					1
Disease Resistance				2	
Insect Resistance		4			
Nematode Resistance			3		

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

- H2 feed quality rating; excellent soil disease resistance to help improve root and plant health
- Highest resistance (HR+) rating to Aphanomyces Root Rot Enhanced Multi-Race; resistant (R) to multi-race anthracnose (including new race 5)
- Excellent quality and yield potential with a 3- to 5-cut flexible harvest system

NEW

HVX MegaTron AA

Regions: **Central|East|North|West**
Fall Dormancy: **4.4**
Winterhardiness: **1.4**

HARVXTRA

Characteristics

	Not Recommended				Excellent
Yield Index					1
Persistence Index					1
Feed Quality*					1
Disease Resistance					1
Insect Resistance			3		
Nematode Resistance			3		

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

- H2 feed quality rating; exceptional root and plant health with the AA disease resistance package to support highest yield and quality potential
- Highest resistance (HR+) rating to Aphanomyces Root Rot Enhanced Multi-Race; HR+ to multi-race anthracnose disease (including race 5)
- Exceptional yield and quality potential; ideal with a 3- to 5-cut flexible harvest system

HVX 620RR Brand

Regions: **South|West**
Fall Dormancy: **6**
Winterhardiness: -

HARVXTRA

Characteristics

	Not Recommended				Excellent
Yield Index				2	
Persistence Index				2	
Feed Quality*					1
Disease Resistance		4			
Insect Resistance				2	
Nematode Resistance			3		

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

- H3 feed quality rating; HarvXtra® Alfalfa harvest flexibility available in a semidormant variety to maximize yield and quality potential
- Excels in the transition regions of the High Plains, South and Southwest; high resistance to pea and spotted alfalfa aphid
- Very early spring growth, fast regrowth and late fall growth; plan for 6-cut harvest system

HVX 840RR Brand

Regions: **South|West**
Fall Dormancy: **7.9**
Winterhardiness: -

HARVXTRA

Characteristics

	Not Recommended				Excellent
Yield Index				2	
Persistence Index					1
Feed Quality*					1
Disease Resistance		4			
Insect Resistance				2	
Nematode Resistance			3		

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

- Exceptional nondormant variety provides improved yield and forage quality potential with the HarvXtra® Alfalfa trait
- Strong pest resistance package provides protection against pea and spotted alfalfa aphids and stem nematodes
- Flexible harvest management for 5+ cuttings for superior yield or improved forage quality potential

KEY

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

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CROPLAN Graze N Hay 3.10RR

Regions: **North|West**
Fall Dormancy: **2.9**
Winterhardiness: **1.8**

Roundup Ready Alfalfa

Characteristics

	Not Recommended				Excellent
Yield Index			3		
Persistence Index					1
Feed Quality			3		
Disease Resistance			3		
Insect Resistance		4			
Nematode Resistance	5				

- Best-suited for Northern regions; exceptional winterhardiness and stand persistence
- Withstands hoof or wheel traffic; weed control with the Roundup Ready® trait improves stand establishment on dryland acres or in limited water conditions
- Excellent variety where 1 or 2 cuttings of hay will be harvested mechanically followed by grazing

CROPLAN RR Presteez

Regions: **Central|East|North|West**
Fall Dormancy: **3.2**
Winterhardiness: **1.2**

Roundup Ready Alfalfa

Characteristics

	Not Recommended				Excellent
Yield Index				2	
Persistence Index					1
Feed Quality					1
Disease Resistance			3		
Insect Resistance				2	
Nematode Resistance		4			

- High forage quality potential ideal for baled hay or haylage harvest
- Excellent salt-tolerance ratings in germination tests and exceptional performance in stand persistence trials
- Ideal for Upper Midwest and West as a 3- to 4-cut baled hay and/or haylage harvest system

CROPLAN RR Vamoose

Regions: **Central|East|North**
Fall Dormancy: **3.9**
Winterhardiness: **1.8**

Roundup Ready Alfalfa

Characteristics

	Not Recommended				Excellent
Yield Index			3		
Persistence Index					1
Feed Quality			3		
Disease Resistance			3		
Insect Resistance			3		
Nematode Resistance		4			

- Performs well in the Upper Midwest and East where high resistance to potato leafhopper (PLH) may be necessary
- PLH resistance provides improved yield potential, high-quality feed and stand persistence
- Outstanding agronomics; PLH resistance offers reduced-spray or no-spray options; best-suited in a 3- to 4-cut system

NEW

CROPLAN RR AphaTron AA

Regions: **Central|East|North|West**
Fall Dormancy: **4.4**
Winterhardiness: **1.4**

Roundup Ready Alfalfa

Characteristics

	Not Recommended				Excellent
Yield Index					1
Persistence Index					1
Feed Quality				2	
Disease Resistance					1
Insect Resistance			3		
Nematode Resistance	N/A				

- The newest variety with the AA disease resistance package; exceptional root and plant health to support high yield potential
- Highest resistance (HR+) rating to Aphanomyces Root Rot Enhanced Multi-Race; HR+ to multi-race anthracnose disease (including race 5)
- Provides exceptional yield and forage quality potential under a 4- to 5-cut haylage or aggressive hay management system

CROPLAN RR AphaTron 2XT

Regions: **Central|East|North|West**
Fall Dormancy: **4**
Winterhardiness: **1.5**

Roundup Ready Alfalfa

Characteristics

	Not Recommended				Excellent
Yield Index				2	
Persistence Index					1
Feed Quality				2	
Disease Resistance			3		
Insect Resistance			3		
Nematode Resistance			3		

- Great soil disease resistance to help improve root and plant health
- High resistance (HR) to Aphanomyces root rot disease races 1 and 2; resistant (R) to Enhanced Multi-Race
- Provides high yield potential and good forage quality potential under a 4-cut haylage or aggressive hay management system

CROPLAN RR Stratica

Regions: **Central|East|North|West**
Fall Dormancy: **4.3**
Winterhardiness: **2**

Roundup Ready Alfalfa

Characteristics

	Not Recommended				Excellent
Yield Index				2	
Persistence Index				2	
Feed Quality			3		
Disease Resistance			3		
Insect Resistance				2	
Nematode Resistance			3		

- Exceptional ability to perform well across multiple geographies and growing conditions
- Features a good disease-resistance package for soils east to west
- High forage yield potential, fast regrowth and good winterhardiness; ideally suited for a 4-cut haylage or aggressive hay management system

KEY

Scale
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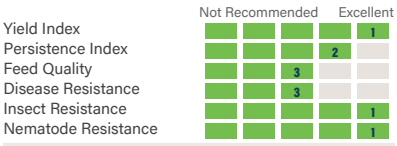
RR Saltiva

Regions: **Central|North|West**
Fall Dormancy: **4.8**
Winterhardiness: **2.5**

Roundup Ready ALFALFA

Characteristics



- Exceptional performance potential in tough soils with high saline conditions
- Excellent pest-resistance package; high resistance to stem nematode and multi-species aphid resistance
- Excels in a 5-cut intensive hay or haylage harvest systems

RR NemaStar

Regions: **West**
Fall Dormancy: **4.9**
Winterhardiness: **2.8**

Roundup Ready ALFALFA

Characteristics

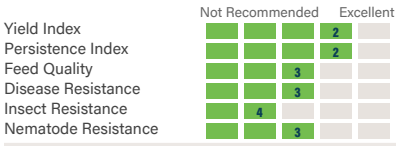
- Developed and tested for high performance potential in field trials heavily infested with nematodes; high resistance (HR) to stem nematode
- Excellent salt-tolerance ratings in germination tests
- Rapid regrowth and very good forage quality potential; ideal for haylage or baled hay intensive harvest systems

RR Tonnica

Regions: **Central|East|North|South|West**
Fall Dormancy: **5**
Winterhardiness: **2**

Roundup Ready ALFALFA

Characteristics



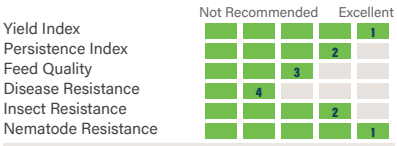
- Maximize yield potential all season long
- Well-rounded pest resistance package for wide-range adaptability from east to west
- Very early spring growth, fast regrowth and late fall growth; aggressive 5-cut schedule

RR 6 Shot Plus

Regions: **South|West**
Fall Dormancy: **6**
Winterhardiness: -

Roundup Ready ALFALFA

Characteristics



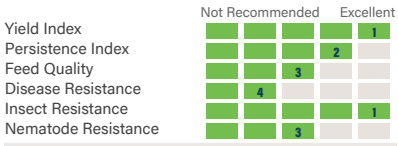
- Next generation of semidormant genetics that push yield potential to the next level; ideal in the High Plains, the South and the Southwest
- High resistance to spotted alfalfa and pea aphid as well as to stem nematode
- Very early spring growth, fast regrowth and late fall growth; plan for 6-cut harvest system

RR Desert Rose

Regions: **South|West**
Fall Dormancy: **8.5**
Winterhardiness: -

Roundup Ready ALFALFA

Characteristics

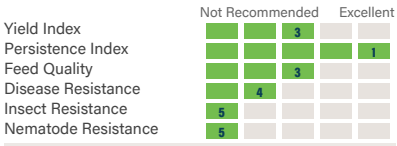


- Exceptional nondormant variety with very high yield potential; dark-green plant with excellent leaf retention
- High resistance to spotted alfalfa, pea and blue alfalfa aphids; ideal for the Southwest region
- Great when harvested as dry baled hay, haylage or greenchop; fast recovery after cutting; excellent stand persistence for numerous cuttings per year

Maxi Graze®

Regions: **North|West**
Fall Dormancy: **2**
Winterhardiness: **2**

Characteristics



- Recessed crown provides excellent durability for grazing or high-traffic fields; exceptional winterhardiness and stand persistence
- Great yield and quality potential for northern regions or high elevations; ideal for 1- or 2-cut mechanical harvest followed by grazing
- Excellent option for mixed grass and alfalfa pastures

KEY

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2 = Strong
3 = Acceptable
4 = Manage
5 = Not Recommended

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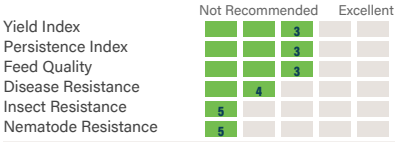
MP 1000 Brand

Regions: **Central|East|North|West**
Fall Dormancy: **3**
Winterhardiness: **3**

Characteristics



- Premium multifoliate blend with wide geographic adaptation
- Good forage yield and quality potential
- Works well in a 3- to 4-cut hay or haylage management system

LegenDairy AA

Regions: **Central|East|North|West**
Fall Dormancy: **3.4**
Winterhardiness: **1.1**

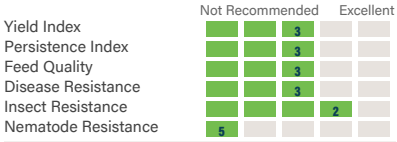
Characteristics

- The latest generation of LegenDairy with the AA disease resistance package, delivering enhanced yield potential
- Highest resistance (HR+) rating to Aphanomyces Root Rot Enhanced Multi-Race; HR+ to multi-race anthracnose disease (including race 5)
- Excellent choice for producers in northern growing regions east to west; ideal for 3- to 4-cut baled hay or haylage harvest system
- Available with Apex™ Green Seed Coating; OMRI Listed® for organic use

TrailBlazer XHH

Regions: **Central|East|North**
Fall Dormancy: **4**
Winterhardiness: **3**

Characteristics



- Excellent resistance to potato leafhopper (PLH); improved yield potential; high-quality feed and stand persistence
- PLH resistance offers reduced-spray or no-spray options
- Great option for the Upper Midwest and East; best suited in a 3- to 4-cut hay/ haylage harvest system
- Available with Apex™ Green Seed Coating; OMRI Listed® for organic use

Rebound AA

Regions: **Central|East|North|West**
Fall Dormancy: **4.4**
Winterhardiness: **1.7**

Characteristics

- Packs a punch with the new AA disease resistance package, providing exceptional yield potential
- Highest resistance (HR+) rating to Aphanomyces Root Rot Enhanced Multi-Race; HR+ to multi-race anthracnose disease (including race 5)
- Best-suited for 4- to 5-cut haylage or aggressive hay management systems in the Upper Midwest and East; great for baled hay in the West where pockets of Aphanomyces root rot disease is a problem
- Available with Apex™ Green Seed Coating; OMRI Listed® for organic use

NEW

Gunner AA

Regions: **Central|East|North|South|West**
Fall Dormancy: **4.8**
Winterhardiness: **1.2**

Characteristics

- Exciting new variety with the AA disease resistance package combined with high yield potential
- Highest resistance (HR+) rating to Aphanomyces Root Rot Enhanced Multi-Race; HR+ to multi-race anthracnose disease (including race 5)
- Very early spring growth, fast regrowth and late fall growth; ideal for aggressive 5-cut hay or haylage harvest schedule
- Available with Apex™ Green Seed Coating; OMRI Listed® for organic use

Gunner

Regions: **Central|East|North|South|West**
Fall Dormancy: **4.9**
Winterhardiness: **1.2**

Characteristics

- Optimize yield potential with very early spring growth, fast regrowth and late fall growth
- Good disease resistance package allows this variety to move well in the East as haylage to the West as dry hay
- Plan for aggressive 5-cut hay or haylage harvest schedule

KEY

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

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Nimbus

Regions: **Central|North|West**
Fall Dormancy: **5**
Winterhardiness: **2.2**

Characteristics

- Developed for the western areas of the U.S. where problematic soils, including high-salinity soils, can reduce alfalfa production
- Great performance in field trials heavily infested with nematodes; high resistance to both stem and northern root-knot nematodes
- Exceptional yield potential with optimum production under 5- to optional 6-cut haylage or baled hay harvest systems
- Available with Apex™ Green Seed Coating; OMRI Listed® for organic use

Artesian Sun 6.3

Regions: **South|West**
Fall Dormancy: **6**
Winterhardiness: **3.1**

Characteristics

- Excellent conventional variety that is dark green, very high multifoliate expression and good leaf retention
- Outstanding pest-resistance package; versatile product can move from western to southern U.S. semidormant regions
- Strong stand persistence for intensive harvest management; fast recovery and regrowth after cutting provides excellent yield potential in a 6+ cut system
- Available with Apex™ Green Seed Coating; OMRI Listed® for organic use

Sun Titan

Regions: **South|West**
Fall Dormancy: **8.4**
Winterhardiness: **-**

Characteristics

- Exceptional yield potential with strong stand persistence and very fast recovery after cutting
- Excellent pest resistance ratings with high resistance to pea, blue alfalfa and spotted alfalfa aphids
- Best suited for maximum yield production in the traditional western and southwestern nondormant zones

Sun Quest®

Regions: **South|West**
Fall Dormancy: **9**
Winterhardiness: **-**

Characteristics

- A high-yield-potential, nondormant conventional variety with an excellent pest-resistance package
- High resistance to pea, spotted and blue alfalfa aphids and to stem nematodes; excellent salt-tolerance ratings in germination and forage tests
- Specifically developed for southern Calif., Ariz. and N.M. with exceptional stand persistence for numerous harvests per year

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ALFALFA

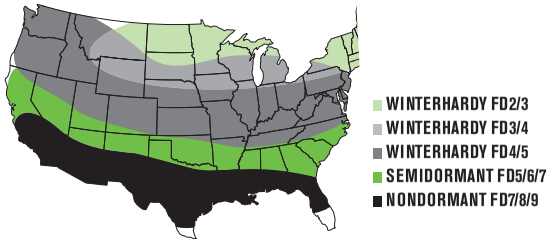
ALFALFA VARIETY PLACEMENT[1]

The map can be used to determine which alfalfa varieties are recommended for your area's climate challenges. Also, use the chart below to place the recommended variety to help manage common diseases and pests in your area, and to match quality to your desired cutting frequency.

- HARVXTRA® ALFALFA VARIETIES
- ROUNDUP READY® VARIETIES
- CONVENTIONAL VARIETIES
- VARIETIES WITH ADDITIONAL INSECT AND DISEASE RESISTANCE

PRODUCT DORMANCY MAP[2]

Fall dormancy and winterhardiness are important considerations in alfalfa seed selection. This map shows CROPLAN® seed varieties that match fall dormancy and winterhardiness zones in various regions of the United States.



GRAZING & HAY

- GRAZE N HAY 3.10 RR
- MAXI GRAZE®

YIELD

FALL DORMANT 4
- RR STRATICA
- HR+ TO MULTI-RACE APHANOMYCES AND ANTHRACNOSE
- NEW RR APHATRON AA
- REBOUND AA

FALL DORMANT 5
- RR TONNICA
- GUNNER
- HR TO STEM NEMATODE
- RR SALTIVA
- RR NEMASTAR
- NIMBUS
- HR+ TO MULTI-RACE APHANOMYCES AND ANTHRACNOSE
- NEW GUNNER AA

SEMI DORMANT
- HR TO STEM NEMATODE
- RR 6 SHOT PLUS
- ARTESIAN SUN 6.3

NON DORMANT
- HR TO BLUE ALFALFA APHIDS
- RR DESERT ROSE
- SUN TITAN
- SUN QUEST®

QUALITY

FALL DORMANT 3
- HVX TUNDRA II
- RR PRESTEEZ
- HR+ TO MULTI-RACE APHANOMYCES AND ANTHRACNOSE
- LEGENDAIRY AA

FALL DORMANT 4
- INSECT/DISEASE
- HR TO POTATO LEAFHOPPER
- RR VAMOOSE
- TRAILBLAZER XHH
- HR+ TO MULTI-RACE APHANOMYCES AND ANTHRACNOSE
- HVX MEGATRON
- NEW HVX MEGATRON AA
- HVX DRIVER

SEMI/NON DORMANT
- HVX 620RR
- HVX 840RR

1. This chart is provided as an illustration only. Planting decisions are complex and any implementation of the placement described above is your decision. Because of factors outside of our control, such as weather and product application, results to be obtained, including but not limited to yields, cannot be predicted or guaranteed by WinField United.

2. Fall dormancy (FD) and winterhardiness (WH): Higher FD number = higher yield potential; lower WH number = more cold tolerant and stand persistent.

CROPLAN®

ALFALFA

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HARVXTRA®/ROUNDUP READY® ALFALFA

	Trait		Fall Dormancy	Winterhardiness	Yield Index	Persistence Index	Feed Quality Index [1]	Grazing Tolerance	Baled Hay (Drydown)	Haylage (Regrowth)	Phytophthora Root Rot	Potato Leafhopper	Aphanomyces Race 1	Aphanomyces Race 2	Aphanomyces Enhanced Multi-Race (EMR)	Bacterial Wilt	Anthracnose Race 1	Anthracnose Multi-race	Fusarium Wilt	Verticillium Wilt	Spotted Alfalfa Aphid	Pea Aphid	Blue Alfalfa Aphid	Stem Nematode	Northern Root-Knot Nematode	Salt Germination Tolerance [2]	Disease Resistance	Insect Resistance	Nematode Resistance
	HVX Tundra II	HarvXtra	3.3	1.2	2	1	H1	3	1	3	HR	-	HR	R	R	HR	HR	-	HR	HR	-	R	-	R	-	G	3	4	3
	HVX Driver	HarvXtra	4.0	2.0	3	1	H2	4	2	2	HR	-	HR	-	-	HR	HR	-	HR	HR	R	R	-	-	-	G	4	3	5
	HVX MegaTron	HarvXtra	4.2	1.7	1	1	H2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	R	HR	HR	R	R	-	R	-	G	2	4	3
NEW	**HVX MegaTron AA**	HarvXtra	4.4	1.4	1	1	H2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	HR	HR	R	HR	-	R	-	G	1	3	3
	HVX 620RR Brand	HarvXtra	6.0	-	2	2	H3	5	1	1	HR	-	R	-	-	MR	R	-	HR	-	HR	HR	-	R	-	-	4	2	3
	HVX 840RR Brand	HarvXtra	7.9	-	2	1	H3	5	1	1	R	-	-	-	-	R	R	-	R	-	R	HR	-	R	-	-	4	2	3
	Graze N Hay 3.10RR	Roundup Ready	2.9	1.8	3	1	3	1	1	4	HR	-	HR	-	-	HR	HR	-	HR	HR	R	-	-	-	-	G	3	4	5
	RR Presteez	Roundup Ready	3.2	1.2	2	1	1	3	1	2	HR	-	HR	-	-	HR	HR	-	HR	HR	R	HR	-	MR	-	G	3	2	4
	RR Vamoose	Roundup Ready	3.9	1.8	3	1	3	2	1	4	HR	HR	HR	-	-	HR	HR	-	HR	HR	R	MR	-	MR	-	G	3	3	4
	RR AphaTron 2XT	Roundup Ready	4.0	1.5	2	1	2	4	2	1	HR	-	HR	HR	R	HR	HR	-	HR	HR	-	HR	-	R	-	G	3	3	3
	RR Stratica	Roundup Ready	4.3	2.0	2	2	3	4	1	1	HR	-	HR	-	-	HR	HR	-	HR	HR	HR	R	-	R	-	G	3	2	3
NEW	**RR AphaTron AA**	Roundup Ready	4.4	1.4	1	1	2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	HR	HR	R	R	-	-	-	G	1	3	-
	RR Saltiva	Roundup Ready	4.8	2.5	1	2	3	4	1	1	HR	-	HR	-	-	HR	HR	-	HR	HR	R	HR	MR	HR	-	G	3	1	1
	RR NemaStar	Roundup Ready	4.9	2.8	2	2	1	3	1	1	HR	-	HR	-	-	HR	HR	-	HR	HR	R	R	-	HR	R	G	3	3	1
	RR Tonnica	Roundup Ready	5.0	2.0	2	2	3	4	1	1	HR	-	HR	-	-	HR	HR	-	HR	HR	-	R	-	R	-	G	3	4	3
	RR 6 Shot Plus	Roundup Ready	6.0	-	1	2	3	4	1	1	HR	-	R	-	-	R	HR	-	HR	HR	HR	HR	-	HR	-	G	4	2	1
	RR Desert Rose	Roundup Ready	8.5	-	1	2	3	5	1	1	HR	-	-	-	-	MR	HR	-	HR	-	HR	HR	HR	R	-	G	4	1	3

KEY

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4 = Manage
5 = Not Recommended

1 Feed Quality Index

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

2 Salt Tolerance

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

Resistance Ratings

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

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

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ALFALFA

CROPLAN®

	Trait	Winterhardiness	Fall Dormancy	Yield Index	Persistence Index	Feed Quality Index [1]	Grazing Tolerance	Baled Hay (Drydown)	Haylage (Regrowth)	Phytophthora Root Rot	Potato Leafhopper	Aphanomyces Race 1	Aphanomyces Race 2	Aphanomyces Enhanced Multi-Race (EMR)	Anthracnose Race 1 Bacterial Wilt	Anthracnose Multi-race Fusarium Wilt	Verticillium Wilt	Spotted Alfalfa Aphid	Pea Aphid	Blue Alfalfa Aphid	Stem Nematode	Northern Root-Knot Nematode	Salt Germination Tolerance [2]	Disease Resistance	Insect Resistance	Nematode Resistance
CONVENTIONAL ALFALFA																										
	Maxi Graze®	Conventional	2.0	2.0	3	1	3	1	1	4	HR	-	R	-	-	HR	R	-	HR	R	-	-	-	-	-	-	4	5	5
	MP 1000 BRAND	Conventional	3.0	3.0	3	3	3	3	2	3	HR	-	R	-	-	HR	HR	-	HR	R	-	-	-	-	-	-	4	5	5
	LEGENDAIRY AA	Conventional	3.4	1.1	1	1	1	3	1	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	HR	HR	R	HR	-	R	-	G	1	2	3
	TRAILBLAZER XHH	Conventional	4.0	3.0	3	3	3	4	1	3	HR	HR	HR	-	-	HR	HR	-	HR	HR	R	HR	R	-	-	-	3	2	5
	REBOUND AA	Conventional	4.4	1.7	1	1	2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	HR	HR	R	R	-	R	-	G	1	3	3
NEW	GUNNER AA	Conventional	4.8	1.2	1	1	2	4	1	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	HR	HR	R	HR	-	HR	-	G	1	3	1
	GUNNER	Conventional	4.9	1.2	2	1	2	4	1	1	HR	-	HR	-	-	HR	HR	-	HR	HR	-	R	-	R	HR	-	3	4	1
	NIMBUS	Conventional	5.0	2.2	1	2	2	4	1	1	HR	-	HR	-	-	HR	HR	-	HR	R	-	HR	-	R	HR	G/F	3	3	1
	ARTESIAN SUN 6.3	Conventional	6.0	3.1	1	2	3	4	1	1	HR	-	HR	-	-	R	HR	-	HR	HR	-	HR	-	HR	-	G	3	3	1
	SUN TITAN	Conventional	8.4	-	1	1	2	5	1	1	HR	-	-	-	-	MR	R	-	HR	MR	HR	HR	HR	HR	-	G	5	1	1
	SUN QUEST®	Conventional	9.0	-	2	2	3	5	1	1	MR	-	-	-	-	MR	R	-	R	-	HR	HR	HR	HR	-	G	5	1	1

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ALFALFA

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

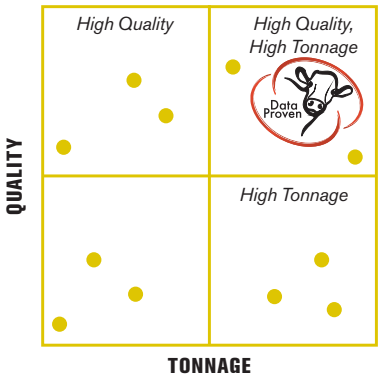
Placement _____

CORN SILAGE

Introducing Our "New Math": High Quality x High Tonnage = Stellar Yield Potential.

SELECT HYBRIDS FOR QUALITY AND TONNAGE

When selecting a corn silage hybrid, two considerations should rise to the top: quality to achieve milk/ton and tonnage for yield. In replicated Answer Plot® trials, we test CROPLAN® corn silage hybrids for both nutrient requirements and agronomic factors. Look for the CROPLAN hybrids with the Data Proven icon. It represents the designation of high quality and high tonnage, consistently performing to deliver high quality and high tonnage potential.



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

WHEN PERFORMANCE IS ON THE LINE, THINK SILAGEFIRST® HYBRIDS

CROPLAN seed has three types of hybrids, specifically designed for high-producing dairy and beef cattle:

LEAFY HYBRIDS

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

FLOURY-LEAFY HYBRIDS

- At feed out, these products effectively bridge the gap between the previous year's corn silage pile and the current year's feed.
- May not contain a high level of total starch but have a softer kernel texture that's easily broken during the chopping, storage and chewing process, allowing starch to be readily digested for more available energy.

HIGH-ENERGY/HIGH-TONNAGE HYBRIDS

- More flexibility in harvest and feed out as grain or high-energy/high-tonnage silage when used in combination with leafy and floury-leafy hybrids.
- Appropriate for feeding after the 120-day post-ensiling period when reaching optimum starch and fiber digestibility.

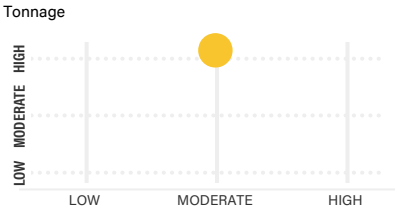
Floury *Floury-Leafy* *Leafy* *High-Energy/ High-Tonnage* *Vitreous Flint*

CROPLAN®

CROPLAN CP184RR

Relative Maturity: **80**

Tonnage vs NDFD



- High tonnage potential in an early-maturing hybrid
- Tall aggressive-growing hybrid
- Large flex ear for wide adaptation to all soils and populations
- Manage for early harvest due to flinty type grain and average standability

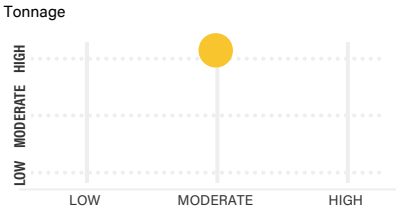
Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance			3		
Root Strength				2	
Tonnage Potential				2	
Milk/Acre			3		
Starch		4			

CROPLAN CP2692D

Relative Maturity: **86**

Tonnage vs NDFD



- Duracade™ and Artesian® traits with CRW protection; handles variability and multiple soil types well
- Medium-tall plant with strong stalks; dual-purpose option
- Low response to population score, for good potential at lower plant densities

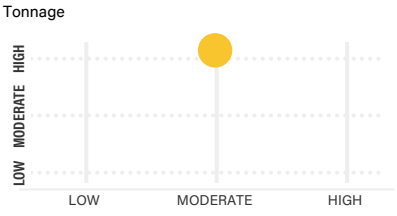
Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance	N/A				
Root Strength					1
Tonnage Potential					1
Milk/Acre				2	
Starch			3		

CROPLAN CP2790VT2P/RIB

Relative Maturity: **87**

Tonnage vs NDFD



- High-tonnage potential with strong ear flex and drought tolerance
- Excellent seedling vigor for early planting
- Strong ear flex with a moderate response-to-nitrogen; can fit a broad range of growing conditions
- Manage for late-season stalks and Goss"s wilt

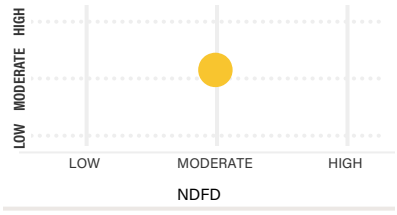
Characteristics

	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance					1
Root Strength				2	
Tonnage Potential				2	
Milk/Acre			3		
Starch					1

CROPLAN CP2845SS/RIB

[VT2P/RIB]*
Relative Maturity: **89**

Tonnage vs NDFD



- High yield potential across all soil types and environments
- Plant early, great emergence in cooler soils; excellent conservation-till hybrid
- High response to nitrogen and population optimizes yield potential
- Manage placement for Goss"s wilt

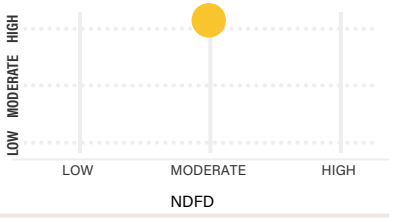
Characteristics

	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance					1
Root Strength					1
Tonnage Potential			3		
Milk/Acre			3		
Starch				2	

CROPLAN CP2965VT2P/RIB

[RR]
Relative Maturity: **89**

Tonnage vs NDFD



- High yield potential to complement CP2845
- Excellent early vigor for early planting
- Moderate RTP and high RTN boost yield potential on average-to-productive soils
- Acceptable Goss"s wilt tolerance

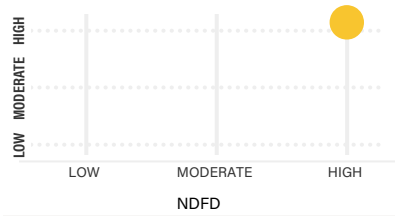
Characteristics

	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength				2	
Tonnage Potential				2	
Milk/Acre				2	
Starch			3		

CROPLAN CP3200SRR

Relative Maturity: **93**

Tonnage vs NDFD



- Floury x leafy silage-only hybrid with very high tonnage potential
- Tall plant with large flex ears that contribute to above average starch
- Highly responsive to nitrogen and fungicide applications
- Best positioned at lower seeding rates to maximize tonnage and agronomics

Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Tonnage Potential					1
Milk/Acre					1
Starch				2	

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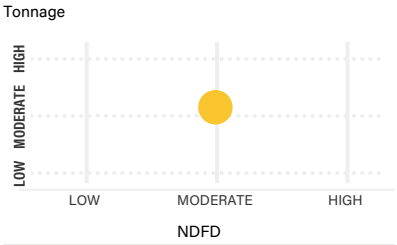
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP3399SS/RIB

[VT2P/RIB]*
Relative Maturity: **94**

SmartStax RIB COMPLETE

Tonnage vs NDFD



- Good combination of high tonnage potential and early maturity
- Above-average heat and moisture-stress tolerance
- Exceptional continuous corn-on-corn hybrid
- Some ear flex, although great stress tolerance allows for higher planting populations

Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Tonnage Potential			3		
Milk/Acre			3		
Starch			3		

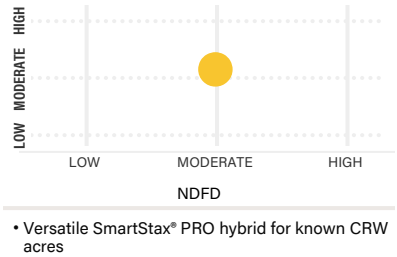
NEW

CROPLAN CP3715SSPRO/RIB

Relative Maturity: **97**

SmartStax PRO RIB COMPLETE

Tonnage vs NDFD



- Versatile SmartStax® PRO hybrid for known CRW acres
- Strong stress tolerance and solid agronomics
- A moderate RTN score, indicates this hybrid does not need aggressive N management to thrive
- Manage in areas where gray leaf spot is a concern

Characteristics

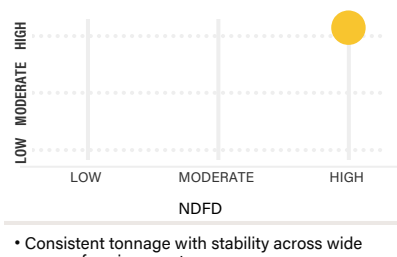
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Tonnage Potential			3		
Milk/Acre			3		
Starch					1

CROPLAN CP3490VT2P/RIB

Relative Maturity: **94**

VT DoublePRO RIB COMPLETE

Tonnage vs NDFD



- Consistent tonnage with stability across wide range of environments
- Strong roots deliver strong drought tolerance and performance in poor soils
- Semi-flex ear and strong stalks
- Harvest timely because staygreen is below average

Characteristics

	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength			3		
Tonnage Potential					1
Milk/Acre					1
Starch				2	

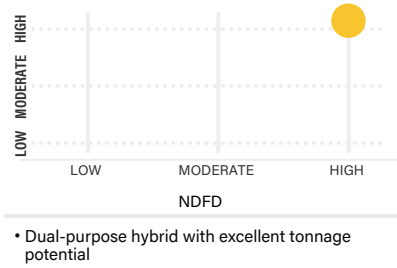
NEW

CROPLAN CP3724VT2P/RIB

Relative Maturity: **97**

VT DoublePRO RIB COMPLETE

Tonnage vs NDFD



- Dual-purpose hybrid with excellent tonnage potential
- Great late season agronomics with strong standability
- Responds well both to aggressive nitrogen fertility and fungicide applications
- Works well in tough, variable or ideal yield environments

Characteristics

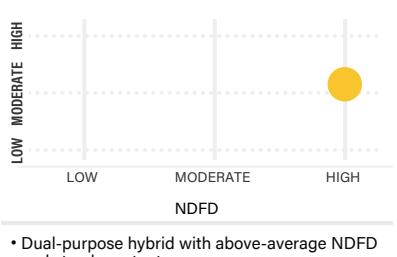
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Tonnage Potential					1
Milk/Acre					1
Starch			3		

CROPLAN CP3575VT2P/RIB

Relative Maturity: **95**

SmartStax RIB COMPLETE

Tonnage vs NDFD



- Dual-purpose hybrid with above-average NDFD and starch content
- Excels in moderate- to high-yield environments and moves across all soil types
- Has good ear flex for low plant densities, but will respond to higher management
- Manage for Goss"s wilt

Characteristics

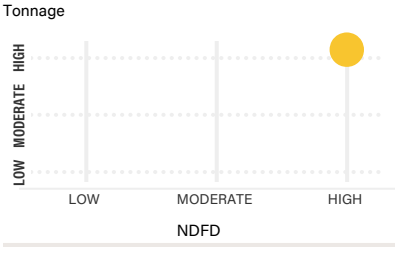
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance			3		
Root Strength				2	
Tonnage Potential			3		
Milk/Acre			3		
Starch			3		

CROPLAN CP3735SS/RIB

[VT2P/RIB]*
Relative Maturity: **97**

SmartStax RIB COMPLETE

Tonnage vs NDFD



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

Characteristics

	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance			3		
Root Strength				2	
Tonnage Potential				2	
Milk/Acre					1
Starch			3		

KEY

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

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CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

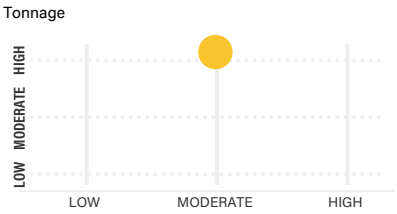
NEW

CROPLAN CP3852TRE/RIB

Relative Maturity: **98**

Trecepta RIB COMPLETE

Tonnage vs NDFD



- Dual-purpose hybrid with excellent quality and strong tonnage potential
- Strong emergence, roots and stalk quality
- Semi-flex ear that allows for a range of populations
- Manage GLS and NCLB with a fungicide in heavy pressure scenarios

Characteristics

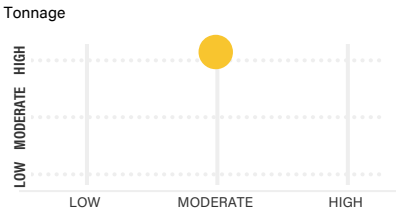
	Not Recommended					Excellent
Seedling Vigor				2		
Drought Tolerance				2		
Root Strength				2		
Tonnage Potential				2		
Milk/Acre					1	
Starch					1	

CROPLAN CP3899VT2P/RIB

Relative Maturity: **98**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



- Tall hybrid with consistently high tonnage potential and above-average digestibility
- Late-flowering with excellent heat and moisture stress tolerance
- Works well in both hot or cool growing seasons
- Excellent yield potential across all yield environments

Characteristics

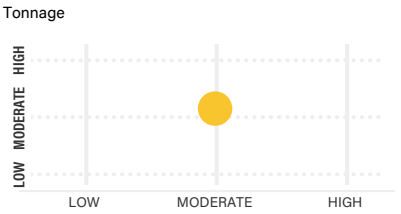
	Not Recommended					Excellent
Seedling Vigor					1	
Drought Tolerance				2		
Root Strength				2		
Tonnage Potential					1	
Milk/Acre					1	
Starch				2		

CROPLAN CP3980VT2P/RIB

Relative Maturity: **99**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



- Tall hybrid with strong grain yield potential drive high tonnage potential
- Excellent roots and good drought tolerance allow for high seeding rates and high tonnage
- Moderate response to nitrogen provides consistent performance across variable soils
- Harvest timely to avoid excess drydown

Characteristics

	Not Recommended					Excellent
Seedling Vigor				2		
Drought Tolerance			3			
Root Strength					1	
Tonnage Potential			3			
Milk/Acre			3			
Starch					1	

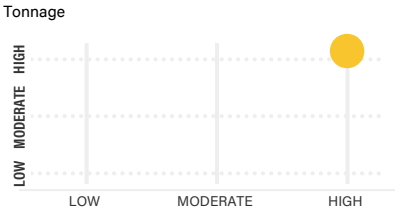
CROPLAN CP4079SS/RIB

[VT2P/RIB]*

Relative Maturity: **100**

SmartStax RIB COMPLETE

Tonnage vs NDFD



- Dual-purpose option for most soil types and yield environments
- Medium-tall hybrid with strong Goss"s wilt rating and seedling vigor; excellent roots
- Position at medium populations and manage nitrogen for high yield potential

Characteristics

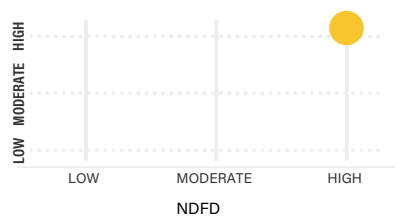
	Not Recommended					Excellent
Seedling Vigor				2		
Drought Tolerance				2		
Root Strength					1	
Tonnage Potential				2		
Milk/Acre				2		
Starch			3			

CROPLAN CP4099SS/RIB

Relative Maturity: **100**

SmartStax RIB COMPLETE

Tonnage vs NDFD



- Tall hybrid with consistently high tonnage potential and above-average digestibility
- Late-flowering hybrid with excellent roots and seedling vigor for early planting
- High response to intensive management; can also handle average acres
- Manage in areas with gray leaf spot and NCLB

Characteristics

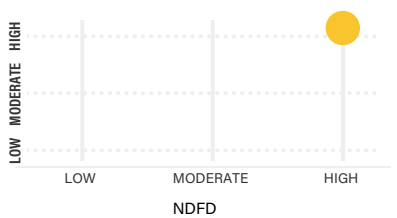
	Not Recommended					Excellent
Seedling Vigor					1	
Drought Tolerance				2		
Root Strength					1	
Tonnage Potential				2		
Milk/Acre				2		
Starch			3			

CROPLAN CP4100SVT2P/RIB

Relative Maturity: **101**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



- Highly digestible leafy-type silage hybrid with high yield potential
- Tall white cob hybrid does best in medium-high populations
- Excellent performance for high tonnage and high-quality potential
- Average seedling vigor

Characteristics

	Not Recommended					Excellent
Seedling Vigor			3			
Drought Tolerance				2		
Root Strength				2		
Tonnage Potential					1	
Milk/Acre					1	
Starch		4				

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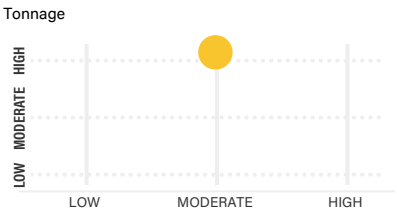
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP4188VT2P/RIB

[SS/RIB*, CONV]
Relative Maturity: **101**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



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

Characteristics

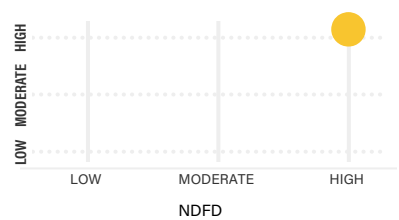
NEW

CROPLAN CP4200S/RR

Relative Maturity: **102**

Roundup Ready 2 CORN

Tonnage vs NDFD



- Floury x leafy silage-only hybrid with big plant stature
- Great combination of tonnage potential and quality
- Maximum planting population of 28,000-30,000 seeds per acre

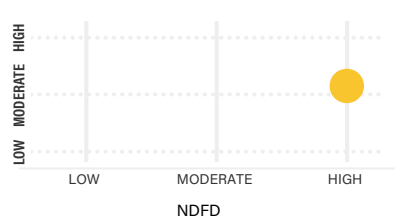
Characteristics

CROPLAN CP4444VT2P

Relative Maturity: **104**

VTDoublePRO

Tonnage vs NDFD



- Consistent, versatile hybrid to cover broad acres
- Excellent emergence and seedling vigor; strong stalks and roots
- Manage population in high-yield environments

Characteristics

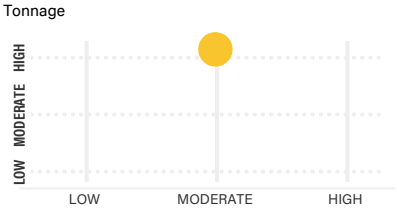
NEW

CROPLAN CP4516TRE/RIB

Relative Maturity: **105**

Trecepta RIB COMPLETE

Tonnage vs NDFD



- Excellent tonnage potential when placed on average to above average acres
- Strong roots, test weight and Goss" wilt tolerance
- High response to intensive management; can also handle average acres
- Manage late season intactness with a fungicide application in high yield environments

Characteristics

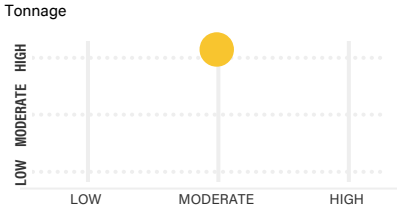
NEW

CROPLAN CP4652SSPRO/RIB

Relative Maturity: **106**

SmartStax PRO RIB COMPLETE

Tonnage vs NDFD



- Excellent tonnage and quality potential with SmartStax® PRO trait for continuous corn acres
- Excellent top end yield potential
- Responds favorably to additional nitrogen applications
- Maximize late season staygreen with fungicide application

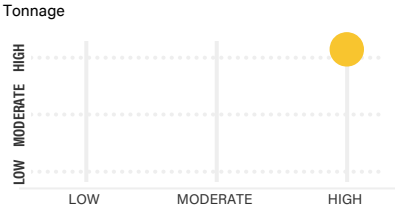
Characteristics

CROPLAN CP4676SS/RIB

Relative Maturity: **106**

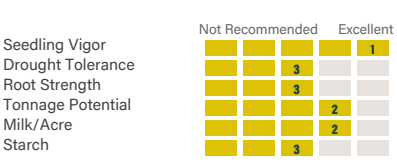
SmartStax RIB COMPLETE

Tonnage vs NDFD



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

Characteristics



KEY

Scale
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2 = Strong
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4 = Manage
5 = Not Recommended

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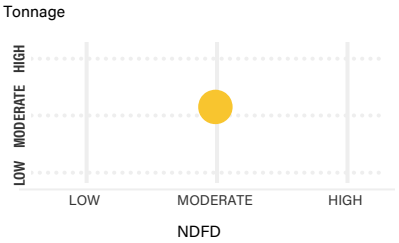
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP4880SS/RIB

Relative Maturity: **108**

SmartStax RIB COMPLETE

Tonnage vs NDFD



- Best performance on high yield potential and well drained soils
- SmartStax® hybrid with exceptional top end yield potential
- Strong stalks and roots
- High tonnage potential, despite being a medium-short statured hybrid

Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance			3		
Root Strength				2	
Tonnage Potential			3		
Milk/Acre				2	
Starch				2	

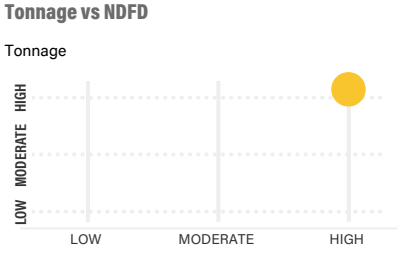
CROPLAN CP5073SS/RIB

[VT2P/RIB]*

Relative Maturity: **110**

SmartStax RIB COMPLETE

Tonnage vs NDFD



- Medium height dual-purpose hybrid with soft floury grain type
- Strong early plant vigor for reduced tillage and early planting
- Has nice flex for moderate densities; high response to nitrogen
- Utilize fungicide to enhance late-season health

Characteristics

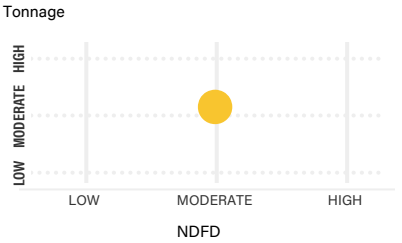
	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength				2	
Tonnage Potential					1
Milk/Acre				2	
Starch				2	

CROPLAN CP6110VT2P/RIB

Relative Maturity: **110**

VT DoublePRO RIB COMPLETE

Tonnage vs NDFD



- Tough high-tonnage silage hybrid for lower-yielding environments
- Keep north of the 110-day zone as a full-season silage hybrid
- Great for irrigated ground; excels with fungicides

Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance					1
Root Strength					1
Tonnage Potential			3		
Milk/Acre			3		
Starch					1

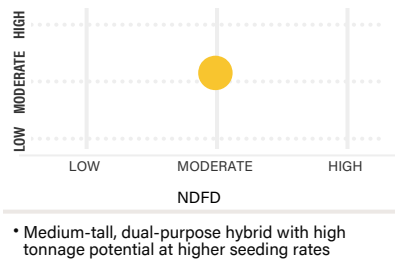
CROPLAN CP5115SS/RIB

[VT2P/RIB]*

Relative Maturity: **111**

SmartStax RIB COMPLETE

Tonnage vs NDFD



- Medium-tall, dual-purpose hybrid with high tonnage potential at higher seeding rates
- Excellent emergence, seedling vigor and roots
- Semi-flex ear; plant at moderate populations
- Use caution on Goss"s wilt acres; keep in RM zone

Characteristics

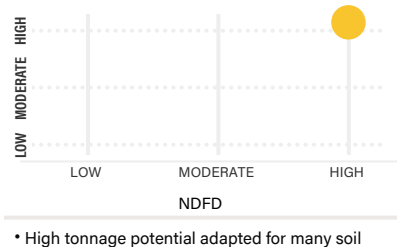
	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength					1
Tonnage Potential			3		
Milk/Acre			3		
Starch				2	

CROPLAN CP5244VT2P/RIB

Relative Maturity: **112**

VT DoublePRO RIB COMPLETE

Tonnage vs NDFD



- High tonnage potential adapted for many soil types and yield levels
- Robust plant with strong heat and drought tolerance allow broad use of this high-starch dual-purpose hybrid
- Ear flex and stress tolerance drive performance in a wide range of populations and soil types
- Fungicide application increases staygreen and harvest flexibility

Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Tonnage Potential					1
Milk/Acre					1
Starch					1

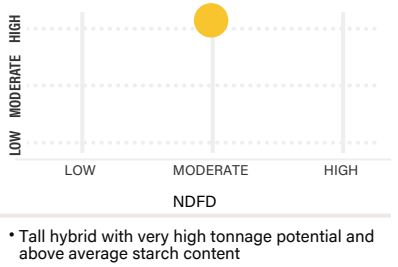
CROPLAN CP5370SS/RIB

[VT2P/RIB]*

Relative Maturity: **113**

SmartStax RIB COMPLETE

Tonnage vs NDFD



- Tall hybrid with very high tonnage potential and above average starch content
- Excellent stalks and roots
- Optimize yield potential with nitrogen management and plant densities
- Best positioned on rotated acres; ear tip back influenced by genetics

Characteristics

	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength					1
Tonnage Potential				2	
Milk/Acre				2	
Starch				2	

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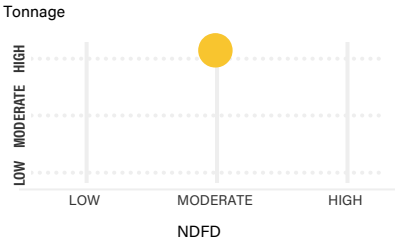
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP5550VT2P/RIB

Relative Maturity: **115**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



- Position in average to high-yield-potential acres; dual-purpose option
- Solid agronomic and disease package
- Semi-flex ear for moderate to moderately high planting densities
- Acceptable Goss"s wilt tolerance

Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength				2	
Tonnage Potential					1
Milk/Acre					1
Starch		4			

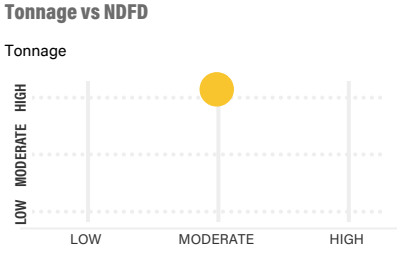
CROPLAN CP5678VT2P/RIB

[SS/RIB]*

Relative Maturity: **116**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



- Medium-height hybrid with wide leaves and girthy stalk that contributes to solid tonnage potential
- Tough hybrid; good stress tolerance; has a semi-flex ear
- Full-season dual-purpose hybrid with great stalks and roots
- Excels with high nitrogen and fungicides, and medium-high populations

Characteristics

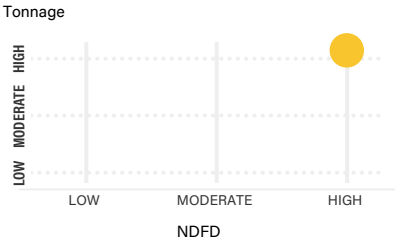
	Not Recommended				Excellent
Seedling Vigor			3		
Drought Tolerance				2	
Root Strength			3		
Tonnage Potential				2	
Milk/Acre				2	
Starch			3		

CROPLAN CP5700SVT2P/RIB

Relative Maturity: **117**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



- Exceptionally high tonnage potential and digestibility
- Performs extremely well in the Midwest, Southeast, West and Pacific Northwest
- Takes heat and stress at a wide range of populations
- Needs high rates of nitrogen/manure for optimal yield potential; high response to fungicides

Characteristics

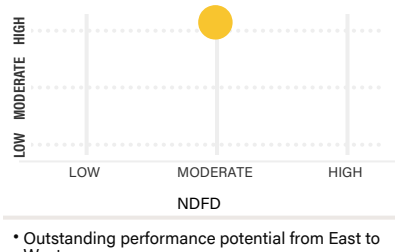
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance			3		
Root Strength				2	
Tonnage Potential					1
Milk/Acre					1
Starch		4			

CROPLAN CP5760TRE/RIB

Relative Maturity: **117**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



- Outstanding performance potential from East to West
- High tonnage potential combined with high quality
- Versatile placement across soil types at moderate populations
- Fungicide recommended to enhance protection against Southern Rust

Characteristics

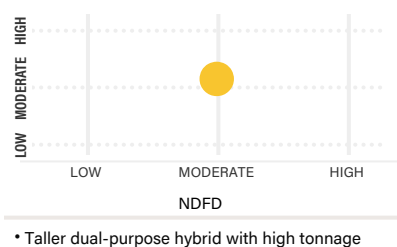
	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance			3		
Root Strength			3		
Tonnage Potential					1
Milk/Acre					1
Starch		4			

CROPLAN CP5789VT2P/RIB

Relative Maturity: **117**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



- Taller dual-purpose hybrid with high tonnage potential across multiple environments
- Tall plant with excellent stalks, roots, staygreen and test weight
- Position at medium-high populations with moderate nitrogen management
- Fungicide application recommended

Characteristics

	Not Recommended				Excellent
Seedling Vigor				2	
Drought Tolerance				2	
Root Strength					1
Tonnage Potential			3		
Milk/Acre			3		
Starch			3		

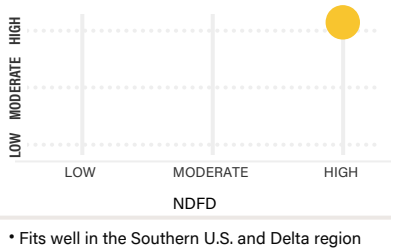
NEW

CROPLAN CP5893TRE/RIB

Relative Maturity: **118**

Trecepta RIB COMPLETE

Tonnage vs NDFD



- Fits well in the Southern U.S. and Delta region
- Full-season offering with excellent emergence and seedling vigor
- Strong stalks and roots with good late season health
- Strong southern rust tolerance

Characteristics

	Not Recommended				Excellent
Seedling Vigor					1
Drought Tolerance				2	
Root Strength				2	
Tonnage Potential					1
Milk/Acre					1
Starch			3		

KEY

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

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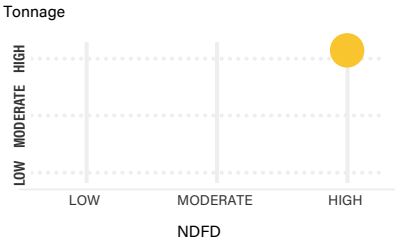
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP5900SVT2P/RIB

Relative Maturity: **119**

VTDoublePRO RIB COMPLETE

Tonnage vs NDFD



- Tall silage hybrid with very high tonnage potential and above-average digestibility
- Strong heat tolerance; exceptional high pH soil tolerance
- Very good southern rust tolerance; good for corn-on-corn acres
- Decrease populations in heavy soils prone to flooding

Characteristics

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CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CORN SILAGE

CROPLAN

BRAND	Relative Maturity	Plant Height [1]	Ear Height [2]	Ear Flex [3]	Flower Date [4]	Kernel Rows	Population (RTP) [5]	Nitrogen (RTN) Response to [5]	Fungicide (RTF) Response to [5]	Seedling Vigor	Root Strength	Stalk Quality	Gray Leaf Spot	NCLB	Goss's Wilt	Drought Tolerance	Tonnage Potential	# Milk/Acre	% NDFD	% NDF	% Starch	% Crude Protein	Calibrate® Starch Rating [6]	TDN	Calibrate® Fiber Rating [7]
CP184RR	80	M-T	M	FL	E	16-18	M	L	M	2	2	3	NA	3	5	3	2	3	3	3	4	3	4	S	NA
CP2692D	86	M-T	M	SF	M	16-18	M	M	M	2	1	1	NA	1	1	NA	1	2	3	2	3	2	3	NA	NA
CP2790VT2P/RIB*	87	M-T	M	SF	E	16-18	L	M	H	1	2	3	3	2	4	1	2	3	3	3	1	3	3	NA	NA
CP2845SS/RIB*	89	M-T	M	SF	E	16-18	H	H	H	1	1	2	NA	3	4	1	3	3	4	3	2	2	4	MS	MS
CP2965VT2P/RIB*	89	M	M	SF	M	14-16	M	H	H	1	2	1	3	3	3	2	2	2	3	3	3	3	2	MF	M
CP3200SRR	93	T	M	FL	M	14-16	L	H	H	2	2	2	3	3	2	2	1	1	2	2	2	3	3	MF	MF
CP3399SS/RIB*	94	M	M	SF	M	16-18	M	H	M	2	2	2	3	3	4	2	3	3	4	3	3	3	4	MS	MS
CP3490VT2P/RIB	94	M-T	M-H	SF	M-L	18-20	M	L	H	1	3	3	3	3	3	2	1	1	2	3	2	3	2	M	M
CP3575VT2P/RIB*	95	M	M	SF	M-L	16-18	H	H	L	2	2	2	3	2	4	3	3	3	1	3	3	3	1	M	M
NEW CP3715SSPRO/RIB*	97	M-T	M-H	SF	M-E	18-20	M	M	M	2	2	2	4	2	2	2	3	3	3	5	1	3	1	M	M
NEW CP3724VT2P/RIB*	97	M-T	M	SF	M	16-18	M	H	H	2	2	2	2	3	2	2	1	1	2	4	3	3	2	MS	MS
CP3735SS/RIB*	97	M	M	SF	M	16-18	M	H	H	1	2	2	3	3	3	3	2	1	1	3	3	2	1	MF	MF
NEW CP3852TRE/RIB*	98	M-T	M-H	FL	L	16-18	M	M	H	2	2	2	3	3	2	2	2	1	3	4	1	5	3	M	M
CP3899VT2P/RIB*	98	M-T	M-H	SF	L	16-20	H	H	H	1	2	2	4	4	3	2	1	1	3	3	2	3	3	MF	M
CP3980VT2P/RIB	99	M-T	M-H	SF	M	14-16	M	M	H	2	1	3	2	NA	3	3	3	3	3	2	1	3	3	M	MS
CP4079VT2P/RIB*	100	M-T	M	SF	M	14-16	M	M	H	2	1	3	3	3	2	2	2	2	2	2	3	3	2	M	MF
CP4099SS/RIB*	100	M-T	M	SF	L	16-20	H	H	H	1	1	2	4	4	3	2	2	2	2	3	3	3	3	S	MS
CP4100SVT2P/RIB*	101	T	M	SF	M	16-18	H	NA	M	3	2	2	3	3	2	2	1	1	2	3	4	3	2	MF	MF
CP4188VT2P/RIB*	101	M	M	SF	M	16-18	M	M	M	1	1	2	3	2	2	2	1	2	3	2	3	2	2	MS	MS
NEW CP4200S/RR	102	T	M	FL	M	14-16	L	M	M	2	2	3	NA	3	2	2	1	3	2	1	4	1	4	MF	MF

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T = Tall
M = Medium
S = Short

2 Ear Height
H = High
M = Medium
L = Low

3 Ear Flex
FL = Flex
SF = Semi-flex
FX = Fixed

4 Flower Date
L = Late
M = Medium
E = Early

5 RTP/RTN/RTF Ratings
L = Low Response
M = Moderate Response
H = High Response
TBD = To be tested in 2023

6 Calibrate® Starch Rating
Relative rumen digestibility of grain starch
S = Slow
M = Moderate
F = Fast
Ratings based on 2018-2022 silage samples.

7 Calibrate® Fiber Rating
Relative rumen digestibility of fiber
S = Slow
M = Moderate
F = Fast
Ratings based on 2018-2022 silage samples.

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

*Follow IRM guidelines and refuge configurations to preserve the benefits and insect protection of these technology crops.

CORN SILAGE

CROPLAN®

	BRAND	Relative Maturity	Plant Height [1]	Ear Height [2]	Ear Flex [3]	Flower Date [4]	Kernel Rows	Population (RTP) [5]	Nitrogen (RTN) Response to [5]	Fungicide (RTF) Response to [5]	Seedling Vigor	Root Strength	Stalk Quality	Gray Leaf Spot	NCLB	Goss's Wilt	Drought Tolerance	Tonnage Potential	# Milk/Acre	% NDFD	% NDF	% Starch	% Crude Protein	TDN	Calibrate® Starch Rating [6]	Calibrate® Fiber Rating [7]
	CP4444VT2P	104	T	M-H	SF	M-L	14-16	H	L	L	1	2	2	3	3	3	3	3	3	2	1	1	4	3	MF	M
NEW	CP4516TRE/RIB*	105	M	M	SF	M-E	16-18	M	M	H	2	2	3	3	3	2	3	1	2	4	4	1	4	4	MS	MS
NEW	CP4652SSPRO/RIB*	106	M-T	H	SF	M	14-16	L	H	M	2	2	2	4	3	2	2	1	1	4	3	3	4	3	M	M
	CP4676SS/RIB*	106	M	M	SF	M	16-18	M	H	M	1	3	3	3	2	3	3	2	2	1	2	3	2	1	MF	F
	CP4880SS/RIB*	108	M-S	M	SD	M	14-16	H	M	H	2	2	2	3	3	NA	3	3	2	3	5	2	3	1	M	M
	CP5073SS/RIB*	110	M	M-H	SF	M	16-18	M	H	H	1	2	3	3	2	3	2	1	2	2	2	2	1	2	MF	MF
	CP5115SS/RIB*	111	M-T	M-H	SF	M-L	18-20	H	H	M	1	1	2	3	2	4	2	3	3	3	2	2	3	3	MS	M
	CP6110VT2P/RIB*	110	M	M	SF	M	16-18	M	M	M	2	1	3	4	2	3	1	3	3	3	2	1	4	3	M	MF
	CP5244VT2P/RIB	112	M-T	M-H	SF	E	16-18	M	M	M	2	2	3	3	2	3	2	1	1	2	2	1	3	3	M	MF
	CP5370SS/RIB*	113	T	M-H	SF	M	18-20	H	H	M	1	1	1	3	2	4	2	2	2	3	2	2	3	3	M	M
	CP5550VT2P/RIB*	115	M-T	M-H	SF	M	14-16	M	M	M	2	2	2	3	3	3	2	1	1	3	4	4	3	2	MS	MS
	CP5678VT2P/RIB*	116	M	M	SF	M	14-16	M	H	M	3	3	2	3	2	3	2	2	2	4	4	3	2	2	M	M
	CP5700SVT2P/RIB*	117	M-T	M	SF	M	16-18	M	H	M	2	2	NA	NA	NA	NA	3	1	1	2	4	4	2	2	MF	MF
	CP5760TRE/RIB*	117		M-H	SF	NA	16-18	L	H	M	2	3	3	3	3	NA	3	1	1	3	2	4	5	3	M	M
	CP5789VT2P/RIB*	117	T	M-H	SF	M	16-18	H	M	H	2	1	1	3	1	4	2	3	3	4	3	3	3	3	M	M
NEW	CP5893TRE/RIB*	118	M	M-L	SF	L	18-20	M	M	M	1	2	2	2	2	3	2	1	1	2	2	3	4	3	MS	M
	CP5900SVT2P/RIB*	119	T	M-H	SF	M	16-18	M	H	NA	2	3	NA	NA	NA	NA	2	1	1	2	3	4	1	2	M	M

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CORN SILAGE

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

FORAGE SORGHUM

The Potential for Big Yields and Big Results, Courtesy of Our Season-Long Plan.

SELECT THE RIGHT FORAGE TYPE FOR YOUR OPERATION

▸ **Forage Sorghum (single-cut silage)**

Tall plant that has a sweet stalk and small grain head with limited regrowth potential.

▸ **Sorghum x Sudan (multi-cut or grazing)**

Strong tillering and regrowth ability, ideal for multiple harvests with increased tonnage potential.

▸ **Pearl Millet (multi-cut or grazing)**

Brachytic plant stature with finer stalks and prolific tillering.

SELECT THE HYBRID WITH THE TRAIT YOU NEED

BROWN MIDRIB–6 TRAIT

- Excellent forage quality and agronomics.
- Nutritional value potential is comparable to corn silage.
- Trait available in the following forage types: forage sorghum, sorghum x sudan, pearl millet.

BRACHYTIC TRAIT

- Excellent standability and tillering.
- Shorter stature and high leaf-to-stem ratio due to reduced internode length.
- Trait available in the following forage types: forage sorghum, sorghum x sudan, pearl millet.

PHOTOPERIOD SENSITIVITY TRAIT

- Extended harvest window.
- Remains vegetative until day length falls below 12 hours and 20 minutes, then entering reproductive stage.
- Trait available in the following forage types: forage sorghum, sorghum x sudan.

SUGARCANE APHID (SCA)

- Use a tolerant hybrid to slow down the rate of infestation and seed treatment for early control.
- Plant as early as soil temperature allows. An earlier-maturity variety may help avoid late-season infestations.
- Scout early and often, while treating as soon as threshold is reached.
- Avoid use of pyrethroids and other insecticides that are harmful to beneficials (SCA natural enemies include lady beetles, hover fly and green lacewing). Insecticides may cause SCA numbers to increase rapidly.

HERBICIDE TOLERANCE

- igrowth is a new forage sorghum trait for hard to control grass and broadleaf weeds.

CROPLAN BMR 3211

Regions: **Central|East|North|Double-crop**
Maturity: **Early**

Characteristics

- Early-maturing forage sorghum hybrid with excellent yield potential; slightly better forage quality than 3212
- BMR-6 trait with excellent forage quality potential; great for lactating cows
- Strong disease resistance; moves well north and east; excellent option for double-cropping in the Central Plains regions
- Avoid overwatering and excessive populations; plants can reach 8 feet tall
- Recommended seeding rate: 60,000 to 70,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

NEW

CROPLAN BMR 3212

Regions: **Central|East|North|Double-crop**
Maturity: **Early**

Characteristics

- Early-maturing forage sorghum hybrid with excellent yield potential; potentially better standability over 3211
- BMR-6 trait with excellent forage quality potential; great for lactating cows
- Strong disease resistance; moves well north and east; excellent option for double-cropping in the Central Plains regions
- Avoid overwatering and excessive populations; plants can reach 8 feet tall
- Recommended seeding rate: 60,000 to 70,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

CROPLAN IQ 3501

Regions: **Central|South|West**
Maturity: **Mid**

Characteristics

- New line of genetics; the IQ (improved quality) series is selected for higher forage quality potential than conventional hybrids
- Extremely flexible hybrid; excellent disease and drought tolerance allow for placement across most of the U.S.
- Excellent yield potential; similar to a late-season hybrid
- Excellent standability; plants can reach 7 to 8 feet tall; manage water and fertility for a mid-maturity hybrid; better on toughest dryland than 3506
- Recommended seeding rate: 50,000 to 60,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

CROPLAN 3506

Regions: **Central|South|West**
Maturity: **Mid**

Characteristics

- Position where you will be needing systemic insecticide for early control of insects
- Extremely flexible hybrid; excellent disease and drought tolerance allow for placement across most of the U.S.
- Excellent yield potential; similar to a late-season hybrid
- Excellent standability; plants can reach 7 to 8 feet tall; manage water and fertility for a mid-maturity hybrid; better on irrigation than 3501
- Recommended seeding rate: 50,000 to 60,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

NEW

CROPLAN 3541 BMR Leafy AT

Regions: **Central|South|West**
Maturity: **Mid**

Characteristics

- Excellent forage quality of the BMR-6 gene paired with the brachytic dwarf trait for high leaf-to-stem ratio
- Extremely flexible hybrid; excellent disease and drought tolerance allow for placement across most of the U.S.
- Sugarcane aphid tolerance offers in-plant crop protection for areas that experience this pest regularly
- Combining the brachytic dwarf traits with excellent stalks, standability is excellent with a 6 to 7 foot plant height
- Recommended seeding rate: 60,000 to 100,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

CROPLAN 3681 AT

Regions: **Central|South|West**
Maturity: **Mid/Late**

Characteristics

- Conventional hybrid with excellent tolerance to sugarcane aphid (SCA); SCA may be on plant in low numbers, plant handles stress well
- Extremely flexible hybrid; excellent disease and drought tolerance allow for placement across Central and Southern U.S.
- Very high leaf expression and great stalks deliver good yield potential
- Excellent standability; plants can reach 8 to 9 feet tall; manage water and fertility for a mid-maturity hybrid
- Recommended seeding rate: 60,000 to 70,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

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Hybrid Number System
First Number: 1 = Sorghum x Sudan; 2 = Sudan; 3 = Forage Sorghum; 4 = Pearl Millet
Second Number: 1 = very early; 2 = early; 3-4 = mid-early; 5 = mid; 6-7 = mid-late; 8 = late; 9 = PPS
Third Number: 0 = No special features; 1 = BMR; 2 = BMR and photoperiod;
3 = BMR and brachytic; 5 = Conventional dwarf, not a brachytic; 8 = Photoperiod
Fourth Number: Series number or new variety type

NEW

CROPLAN 3731 BMR Leafy

Regions: **Central|South|West**
Maturity: **Late**

Characteristics

	Not Recommended				Excellent
Stress Tolerance				2	
Disease Tolerance					1
Forage Quality					1
Dry Hay	5				
Silage					1
Grazing	5				

- Excellent forage quality of the BMR-6 gene paired with the brachytic dwarf trait for high leaf-to-stem ratio
- Extremely flexible hybrid; excellent disease and drought tolerance allow for placement across most of the U.S.
- Late maturity variety with excellent combination of yield potential and quality requiring a full growing season
- Combining the brachytic dwarf traits with excellent stalks, standability is excellent with a 6 to 7 foot plant height
- Recommended seeding rate: 60,000 to 100,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

NEW

CROPLAN 3851 IG

Regions: **Central|South**
Maturity: **Late**

igrowth®

Characteristics

	Not Recommended				Excellent
Stress Tolerance				2	
Disease Tolerance					1
Forage Quality				2	
Dry Hay	5				
Silage					1
Grazing	5				

- igrowth® herbicide tolerant variety to use with IMIFLEX™ herbicide system for excellent pre-emerge or post application
- Extremely flexible hybrid; excellent disease and drought tolerance allow for placement across most of the U.S.
- Late maturity variety with excellent combination of yield potential and quality requiring a full growing season
- Combines the brachytic dwarf traits with excellent stalks, standability is excellent with a 6 to 7 foot plant height
- Recommended seeding rate: 60,000 to 100,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

CROPLAN Greentreat® 1531

Regions: **Central|East|North|South|West**
Maturity: **Heads at ~50 days**

Characteristics

	Not Recommended				Excellent
Stress Tolerance					1
Disease Tolerance				2	
Forage Quality					1
Dry Hay					1
Silage			3		
Grazing					1

- Excellent forage quality of the BMR-6 gene paired with the brachytic dwarf trait for lower cutting height and high leaf-to-stem ratio
- A best-in-class variety for drought tolerance and heat stress; strong disease package for humid areas and those at risk for anthracnose
- Dry stalk (~5% less) paired with fine stems allows for easier transition into dry hay use
- Requires proper harvest management or forage quality may be compromised (40 days or 40 inches); harvest prior to 50 days before head is initiated
- Recommended seeding rate: 20 to 25 pounds per acre at 1 inch (by drill is recommended)

NEW

CROPLAN Dynamo II

Regions: **Central|East|North|South|West**
Maturity: **Heads at ~75 days**

Characteristics

	Not Recommended				Excellent
Stress Tolerance			3		
Disease Tolerance			3		
Forage Quality					1
Dry Hay					1
Silage			3		
Grazing					1

- Brachytic dwarf provides great forage quality when combined with the BMR-6 gene
- Delayed flowering/head emergence allows for very flexible cutting schedules
- Extended cutting window ideal for all forage systems, fast growing and quick recovery after cutting
- Harvest at 40 days or 40 inches, whichever comes first; for grazing, start when plants reach 18 to 24 inches, remove animals when two nodes are left aboveground
- Recommended seeding rate: 20 to 25 pounds per acre at a depth of 1 inch (by drill is recommended)

CROPLAN GUARDIAN AT

Regions: **Central|East|North|South|West**
Maturity: **Heads at ~60 days**

Characteristics

	Not Recommended				Excellent
Stress Tolerance			3		
Disease Tolerance			3		
Forage Quality				2	
Dry Hay					1
Silage			3		
Grazing					1

- Great forage quality with the BMR-6 gene; moves well across growing regions
- The brachytic dwarf trait provides shortened internode length for lower harvest height and greater leaf-to-stem ratio
- Sugarcane aphid tolerance offers in-plant crop protection; can handle more cuttings with confidence
- Harvest at 40 days or 40 inches, whichever comes first; for grazing, start when plants reach 18 to 24 inches, remove animals when two nodes are left aboveground
- Recommended seeding rate: 20 to 25 pounds per acre at a depth of 1 inch (by drill is recommended)

CROPLAN Greentreat® 1923

Regions: **Central|East|North|South|West**
Maturity: **photoperiod sensitive**

Characteristics

	Not Recommended				Excellent
Stress Tolerance				2	
Disease Tolerance			3		
Forage Quality			3		
Dry Hay				2	
Silage				2	
Grazing				2	

- High yield potential product with the BMR trait for excellent warm-season accumulation of highly digestible fiber
- Photoperiod sensitive trait allows the plant to remain in the vegetative state with a minimum of 12 hours and 20 minutes of daily sunlight; then head formation starts
- Excellent disease tolerance; strong drought and heat tolerance; moves well east to west and north to south
- Versatile product for grazing, baled hay or silage with excellent regrowth; easier to dry when cut at 40 days or 40 inches
- Recommended seeding rate: 20 to 25 pounds per acre at a depth of 1 inch (by drill is recommended)

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Third Number: 0 = No special features; 1 = BMR; 2 = BMR and photoperiod;
3 = BMR and brachytic; 5 = Conventional dwarf, not a brachytic; 8 = Photoperiod
Fourth Number: Series number or new variety type

CROPLAN Honey Sweet AT

Regions: **Central|East|North|South|West**
Maturity: **Heads at ~50 days**

Characteristics

- In-plant sugarcane aphid tolerance
- Conventional Sorghum x Sudan for an economic choice
- Experience multiple cuttings in SCA areas with confidence
- Great germination and vigor

CROPLAN PM 4611 BMR

Regions: **Central|East|North|South|West**
Maturity: **Heads at ~50 days**

Characteristics

- Leafy, compact structure; the BMR-6 gene provides superior forage digestibility
- Extremely uniform in maturing height with high yield potential and quick drydown; ideal for baled hay
- Resistant to sugarcane aphid; good disease tolerance and well-adapted for use in all growing areas
- Great for horses as dry hay or grazing with no prussic acid; harvest at 40 days or 40 inches
- Recommended seeding rate: 10 to 15 pounds per acre at a depth of 3/4 inch (by drill is recommended)

CROPLAN PM 4612 BMR

Regions: **Central|East|North|South|West**
Maturity: **Heads at ~50 days**

Characteristics

- Will eventually replace 4611 BMR, with no major differences; leafy, compact structure; the BMR-6 gene provides exceptional forage digestibility potential
- Extremely uniform in maturing height with high yield potential and quick drydown; ideal for baled hay
- Resistant to sugarcane aphid; good disease tolerance and well-adapted for use in all growing areas
- Great for horses as dry hay or grazing with no prussic acid; harvest at 40 days or 40 inches
- Recommended seeding rate: 10 to 15 pounds per acre at a depth of 3/4 inch (by drill is recommended)

CROPLAN PM 4507 PM

Regions: **Central|East|North|South|West**
Maturity: **Heads at ~50 days**

Characteristics

- Leafy, compact structure with extremely uniform maturing height
- Excellent yield potential and quick drydown; ideal for baled hay
- Resistant to sugarcane aphid; good disease tolerance and well-adapted for use in all growing areas
- Great for horses as dry hay or grazing with no prussic acid; harvest at 40 days or 40 inches
- Recommended seeding rate: 10 to 15 pounds per acre at a depth of 3/4 inch (by drill is recommended)

KEY

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

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

Hybrid Number System
First Number: 1 = Sorghum x Sudan; 2 = Sudan; 3 = Forage Sorghum; 4 = Pearl Millet
Second Number: 1 = very early; 2 = early; 3-4 = mid-early; 5 = mid; 6-7 = mid-late; 8 = late; 9 = PPS
Third Number: 0 = No special features; 1 = BMR; 2 = BMR and photoperiod;
3 = BMR and brachytic; 5 = Conventional dwarf, not a brachytic; 8 = Photoperiod
Fourth Number: Series number or new variety type

FORAGE SORGHUM

CROPLAN®

	Maturity	Seeding Rate per Acre	Seeding Depth	Average Seeds per Lb (x1000)	Soil Temperature at Planting	BMR	Forage Quality	Drought Stress	Heat Stress	Disease Tolerance	Sugarcane Aphid Tolerance	Cold Tolerance	Wet Soils	Dry Hay	Baleage	Silage	Grazing
FORAGE SORGHUM HYBRIDS																	
BMR 3211	Early	60-70K seeds	1-1 1/2"	15.5	60	Y	1	2	3	2	-	3	2	4	3	1	4
NEW BMR 3212	Early	60-70K seeds	1-1 1/2"	15.5	60	Y	1	2	3	2	-	3	2	4	3	1	4
IQ 3501	Mid	50-60K seeds	1-1 1/2"	15	60	N	2	1	2	1	-	3	2	5	3	1	5
3506	Mid	50-60K seeds	1-1 1/2"	15	60	N	2	2	2	1	-	3	2	5	3	1	5
NEW 3541 BMR Leafy AT	Mid	60-100K seeds	1-1 1/2"	15	60	Y	1	1	2	1	2	3	2	5	3	1	5
3681 AT	Mid/Late	60-70K seeds	1-1 1/2"	15	60	N	3	1	2	1	2	3	2	5	3	1	5
NEW 3731 BMR Leafy	Late	60-100K seeds	1-1 1/2"	15	60	Y	1	1	2	1	-	3	2	5	3	1	5
NEW 3851 IG	Late	60-100K seeds	1-1 1/2"	15	60	N	2	1	2	1	-	3	2	5	3	1	5
SORGHUM X SUDANGRASS HYBRID																	
Greentreat® 1531	Heads at ~50 days	20-25 lbs	1"	14	60	Y	1	1	1	2	-	3	3	1	1	3	1
NEW Dynamo II	Heads at ~75 days	20-25 lbs	1"	15	60	Y	1	3	3	3	-	3	3	1	1	3	1
GUARDIAN AT	Heads at ~60 days	20-25 lbs	1"	16.5	60	Y	2	3	3	3	1	3	3	1	1	3	1
Greentreat® 1923	photoperiod sensitive	20-25 lbs	1"	14.5	60	Y	3	2	2	3	-	4	4	2	1	2	2
Honey Sweet AT	Heads at ~50 days	20-25 lbs	1"	15	60	N	4	2	2	2	1	3	3	2	1	2	1
PEARL MILLET																	
PM 4611 BMR	Heads at ~50 days	10-15 lbs	3/4"	60	65	Y	1	2	1	2	1	4	3	1	2	3	1
PM 4612 BMR	Heads at ~50 days	10-15 lbs	3/4"	60	65	Y	1	2	1	2	1	4	3	1	2	3	1
PM 4507 PM	Heads at ~50 days	10-15 lbs	3/4"	60	65	N	1	2	2	2	1	4	3	1	1	3	1

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Hybrid Number System

First Number: **1** = Sorghum x Sudan; **2** = Sudan; **3** = Forage Sorghum; **4** = Pearl Millet
Second Number: **1** = Very Early; **2** = Early; **3-4** = Mid-Early; **5** = Mid; **6-7** = Mid-Late; **8** = Late; **9** = PPS
Third Number: **0** = No Special Features; **1** = BMR; **2** = BMR and Photoperiod; **3** = BMR and Brachytic; **5** = Conventional Dwarf, not a Brachytic; **8** = Photoperiod
Fourth Number: Series number or new variety type

FORAGE SORGHUM

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

CROPLAN

GRAIN SORGHUM

Genetics So Tough, You Wouldn't Want to Meet Them in a Back Alley.

SELECT THE HYBRID WITH THE TRAIT YOU NEED

CROPLAN® grain sorghum products offer traits that have made great progress in protecting plants from insect damage and reducing competition from weeds.

SUGARCANE APHID TOLERANCE (SCA)

- Use a tolerant hybrid to slow down the rate of infestation. Plant as early as soil temperature allows. And while many commercially available products have high levels of sugarcane aphid tolerance, an earlier-maturity variety may help avoid late-season infestation in areas of high concern.
- Scout early and often. And use approved Sugarcane Aphid approved insecticide as soon as threshold is reached.
- Insecticides may cause SCA numbers to increase rapidly. Make sure to avoid using pyrethroids and other insecticides that are harmful to beneficials (SCA natural enemies include lady beetles, hover fly and green lacewing).

POST EMERGENT APPLICATION

Multiple product options are accessible for over-the-top application for weed control. For example, igrowth® and DT Trait® herbicide tolerant hybrids are now available for use for over-the-top application of IMIFLEX® and FirstAct® Herbicide, respectively, for select grass and broadleaf weed control.

NEW

CROPLAN CP5730DT

Adaptation: **SD, NE, KS, CO, OK, TX**
Maturity To Mid-Bloom: **57**

DT™ TRAIT

Characteristics

	Not Recommended				Excellent
Yield To Maturity					1
Head Exertion				2	
Seedling Vigor					1
Test Weight				2	
Stalk Strength			3		
Root Strength					1

- DT™ Trait for use of over-the-top herbicide grass weed control using the Double Team™ Sorghum Cropping Solution
- Great use for double crop and early, short growing season environments
- Great emergence
- Use caution with a growth regulator herbicide

CROPLAN CP5811A

Adaptation: **SD, NE, KS, CO, OK, TX**
Maturity To Mid-Bloom: **58**

Characteristics

	Not Recommended				Excellent
Yield To Maturity				2	
Head Exertion				2	
Seedling Vigor					1
Test Weight				2	
Stalk Strength					1
Root Strength					1

- Good potential for stressed acres in the High Plains
- Very good at handling stress loads prior to flowering to maintain yield potential
- Stable performance potential in low yield environments with good potential on higher yielding soils with water and management
- This is a grower friendly, tough dryland product for the Western Plains - SD, central/western Neb., central/western Kan., eastern CO)
- Medium plant height to help standability; semi-open head to assist in grain dry down

CROPLAN CP5921A

Adaptation: **SD, NE, KS, CO, OK, TX**
Maturity To Mid-Bloom: **59**

Characteristics

	Not Recommended				Excellent
Yield To Maturity					1
Head Exertion					1
Seedling Vigor				2	
Test Weight					1
Stalk Strength				2	
Root Strength				2	

- Great dryland product where conditions are very tough
- Can handle variable soils where high pH can cause issues
- Works well in narrower rows
- Very stable product across tough acres or low yield environments where consistency is very important
- Works well in SD, western Neb., western Kan., eastern Colo. environments when you need a tough, consistent product when achieving top yield potential is a challenge

CROPLAN CP6011

Adaptation: **SD, NE, KS, CO, OK, TX**
Maturity To Mid-Bloom: **60**

Characteristics

	Not Recommended				Excellent
Yield To Maturity					1
Head Exertion			3		
Seedling Vigor			3		
Test Weight				2	
Stalk Strength					1
Root Strength					1

- Excellent drought tolerance to handle pre-and post-flower stresses on tough dryland acres in the Western Pains
- Moderate plant height with great stalk and root strength
- Manage appropriately in areas where you have a history of or heavy Anthracnose pressure
- Well suited for no-till and dryland acres where an early harvest is desired
- Early maturing variety with consistent yield potential product on tough acres with limited rainfall - western So. Dak., Neb., Kan. and eastern Col.

CROPLAN CP6021A

Adaptation: **SD, NE, KS, CO, OK, TX**
Maturity To Mid-Bloom: **60**

Characteristics

	Not Recommended				Excellent
Yield To Maturity					1
Head Exertion				2	
Seedling Vigor				2	
Test Weight				2	
Stalk Strength				2	
Root Strength				2	

- Great product for tough dryland areas where moisture stress is common
- Uniform product that has a strong yield potential for its maturity
- Sugarcane aphid (SCA) tolerant
- Tough hybrid that can handle placement on a dryland area where earlier varieties might be a little short season

NEW

CROPLAN CP6145DT

Adaptation: **SD, NE, KS, CO, OK, TX**
Maturity To Mid-Bloom: **61**

DT™ TRAIT

Characteristics

	Not Recommended				Excellent
Yield To Maturity					1
Head Exertion				2	
Seedling Vigor					1
Test Weight				2	
Stalk Strength				2	
Root Strength					1

- Double Team™ hybrids are part one of the Double Team Sorghum Solution for superior control of crabgrass, volunteer corn, sandbur, barnyardgrass, Texas Millet/panicum, foxtail, and many more
- Excellent yield at maturity
- Great emergence and standability
- Be cautious with growth regulator herbicide

KEY

Scale

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

1 Downy Mildew:

A = Sugarcane Aphid tolerance
ig = igrowth
S = Susceptible
T = Tolerant

Hybrid Number System

First & Second Number = Maturity to Mid-Bloom
Third & Fourth Numbers = Sequential Trait Lettering

CROPLAN CP6211A

Adaptation: **SD, NE, KS, CO, OK, TX, Midwest, East**
Maturity To Mid-Bloom: **62**

Characteristics

- Very consistent and stable performance potential across geographies
- Stable DW3 for low mutation frequency and a uniform grain sorghum experience
- Medium statured plant with excellent seedling vigor and great roots
- Watch in charcoal areas
- Grower friendly product that is very tough with low risk potential

CROPLAN CP6367ig

Adaptation: **SD, NE, KS, CO, OK, TX**
Maturity To Mid-Bloom: **63**

igrowth

Characteristics

- iGrowth® herbicide tolerant hybrid to aid in weed control
- Well adapted to the tough dryland acre and limited irrigation; highly suited for no-till
- Great head exertion allows less material to be processed; beautiful appearance and uniformity in the field
- Moderate sugarcane aphid(SCA) tolerance, monitor and manage as needed in areas prone to SCA
- Increase management to find top-end yield potential

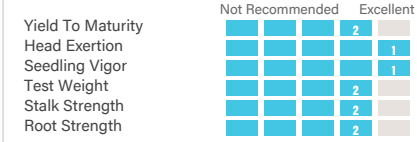
NEW

CROPLAN CP6409DT

Adaptation: **SD, NE, KS, CO, OK, TX**
Maturity To Mid-Bloom: **64**

DT TRAIT

Characteristics



- DT™ Trait for over the top application of grass weed control using the Double Team™ Sorghum Cropping Solution
- Tremendous emergence in cool soils
- Excellent standability and stalk quality from late season staygreen

CROPLAN CP6664igA

Adaptation: **SD, NE, KS, CO, OK, TX, Midwest, East**
Maturity To Mid-Bloom: **66**

igrowth

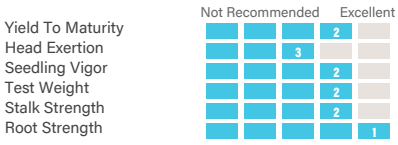
Characteristics

- iGrowth® herbicide tolerant hybrid to aid in weed control
- Tremendous looking variety that can perform well across multiple geographies
- Place along I-35 corridor and east with better soils and moisture for top-end yield potential
- Can move east across Kan. and Okla.
- Strong sugarcane aphid (SCA) tolerance

CROPLAN CP6811

Adaptation: **SD, NE, KS, CO, OK, TX**
Maturity To Mid-Bloom: **68**

Characteristics

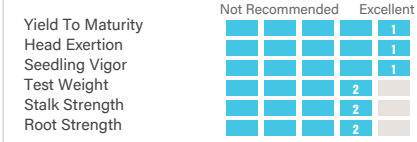


- Med-tall hybrid with very good uniformity in the field
- Above average drought tolerance
- Good on saline type soils
- Excellent full season dryland product for placement in Okla., Tex., central/eastern Kan. and south-central Neb.
- Manage appropriately in areas prone to anthracnose

CROPLAN CP7011A

Adaptation: **SD, NE, KS, CO, OK, TX, Midwest, East**
Maturity To Mid-Bloom: **70**

Characteristics



- New hybrid addition for 2023 planting
- Great semi-open head hybrid with excellent test weight and beautiful red grain
- Very high yield potential product with consistent performance
- Strong sugarcane aphid (SCA) tolerance helps protect yield potential in SCA prone areas

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T = Tolerant

Hybrid Number System

First & Second Number = Maturity to Mid-Bloom
Third & Fourth Numbers = Sequential Trait Lettering

GRAIN SORGHUM

CROPLAN®

BRAND	Maturity to Mid-Bloom	Seeding Depth	Average Seeds/lb (x1000)	Soil Temp at Planting	SCA Tolerant	Plains Adaptation (SD, NE, KS, CO, OK, TX)	Midwest/East Adaptation	Plant Height	Yield to Maturity	High End Yield Response	Low End Yield Response	Head Exertion	Seedling Vigor	Test Weight	Stalk Strength	Root Strength	Threshability	Head Smut	Fusarium Head Blight	Anthracnose	Downy Mildew [1]
NEW CP5730DT	57	1-1 1/2"	12	60	N	Y	Y	Med	1	2	2	2	1	2	3	1	3	NA	NA	NA	NA
CP5811A	58	1-1 1/2"	17	60	Y	Y	NA	47-50"	2	2	1	2	1	2	1	1	2	NA	3	NA	S
CP5921A	59	1-1 1/2"	15	60	Y	Y	NA	31-35"	1	1	1	1	2	1	2	2	1	2	NA	2	S
CP6011	60	1-1 1/2"	14	60	N	Y	NA	38-42"	1	1	1	3	3	2	1	1	2	4	3	4	T
CP6021A	60	1-1 1/2"	14	60	Y	Y	NA	31-35"	1	2	1	2	2	2	2	2	1	2	NA	2	S
NEW CP6145DT	61	1-1 1/2"	14	60	N	Y	NA	Med	1	2	1	2	1	2	2	1	1	2	NA	3	S
CP6211A	62	1-1 1/2"	15	60	Y	Y	Y	50-53"	2	2	2	3	1	1	2	1	2	2	2	NA	S
CP6367ig	63	1-1 1/2"	14	60	N	Y	NA	46-50"	1	1	2	1	1	1	2	2	1	NA	NA	NA	NA
NEW CP6409DT	64	1-1 1/2"	14	60	N	Y	Y	Med	2	2	2	1	1	2	2	2	3	NA	NA	NA	NA
CP6664igA	66	1-1 1/2"	14	60	Y	Y	Y	36-43"	1	1	2	1	2	1	1	2	1	NA	NA	NA	NA
CP6811	68	1-1 1/2"	14	60	N	Y	NA	50-55"	2	1	2	3	2	2	2	1	2	4	3	3	S
CP7011A	70	1-1 1/2"	15	60	Y	Y	Y	53-57"	1	1	2	1	1	2	2	2	1	2	2	NA	S

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1 Downy Mildew:
S = Susceptible
T = Tolerant

Hybrid Number System
First & Second Number = Maturity to Mid-Bloom
Third & Fourth Numbers = Sequential
Trait Lettering: A = Sugarcane Aphid tolerance; **ig** = igrowth herbicide tolerance

GRAIN SORGHUM

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

SPRING CANOLA

Delivering Yield Potential Like It's Our Job (Because It Is).

THE RIGHT GENETICS AND TRAITS FOR YOUR ACRES

- **CROPLAN® seed brings genetic diversity to the farm with the latest weed-control options such as the LibertyLink® canola system and TruFlex® canola, which offers outstanding crop safety.**

LIBERTY LINK®

TruFlex™ CANOLA

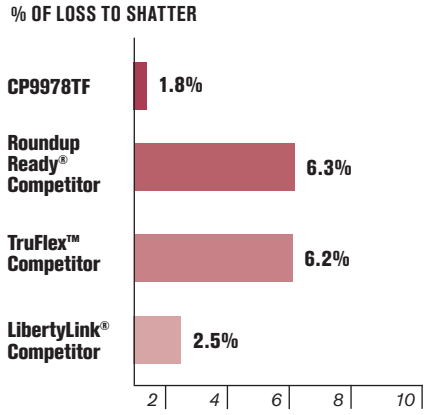
LUMIDERM® INSECTICIDE SEED TREATMENT

An industry leading technology responsible for:

- Improved control of flea beetle and cutworm.
- Providing crops with increased stand establishment, plant vigor and biomass.

CROPLAN SEED DELIVERS EXCELLENT SHATTER SCORE[1]

- **CROPLAN® TruFlex® canola (CP9978TF) showed a lower shatter score than competitive checks in a recent study from Roseau, MN.**



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.

SC

SC designates these products have met the minimum requirements for standability and reduced shatter to be considered a straight-cut hybrid.

SC+

SC+ indicates a hybrid has met the highest level of requirements for optimum straight-cut performance.

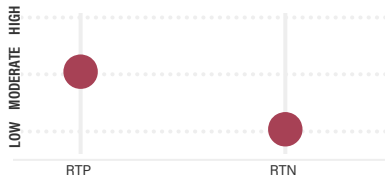
CROPLAN®

CROPLAN CP930RR

Spring Canola

Roundup Ready CANOLA | SC

Response Scores



Characteristics

	Not Recommended				Excellent
Straight Cutting			3		
Oil Content					1
Drought Tolerance					1
Lodging					1

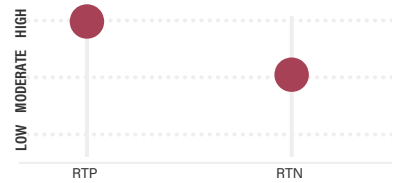
- Industry-leading oil content
- Excellent yield potential for early maturity; strong stress tolerance
- Good for straight-cutting; good shatter scores
- Strong vigor, for less-than-ideal seedbeds and no-till

CROPLAN CP9221TF

Spring Canola

TruFlex CANOLA | SC

Response Scores



Characteristics

	Not Recommended				Excellent
Straight Cutting				2	
Oil Content				2	
Drought Tolerance					1
Lodging					1

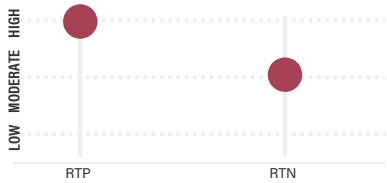
- Strong yield with excellent stress tolerance
- Very good shatter scores and standability
- Early maturity helps manage workload in timely straight cut systems
- Strong disease package with resistance to both clubroot and blackleg

CROPLAN CP9978TF

Spring Canola

TruFlex CANOLA | SC+

Response Scores



Characteristics

	Not Recommended				Excellent
Straight Cutting					1
Oil Content				2	
Drought Tolerance				2	
Lodging					1

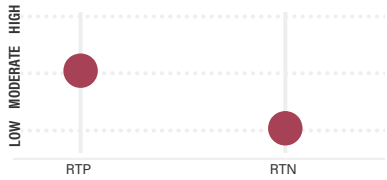
- Excellent for straight-cutting with one of the industry's leading shatter and pod drop tolerance hybrids
- Highest yield potential in cooler, higher yielding environments; responds well to higher populations
- Excellent vigor for heavy trash, cold soils or no-till
- LepR3, RlmS provide enhanced blackleg resistance

CROPLAN CP7130LL

Spring Canola

LIBERTY LINK | SC

Response Scores



Characteristics

	Not Recommended				Excellent
Straight Cutting				2	
Oil Content			3		
Drought Tolerance				2	
Lodging				2	

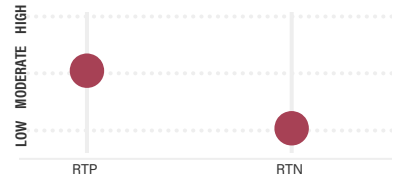
- High yield potential hybrid in cooler and moderate- to higher-yielding environments
- Good shatter tolerance and standability for timely straight-cut systems
- Low RTN score increases stability across acres and helps in lower nitrogen soils or under lower nitrogen management systems
- Brings sclerotinia, clubroot and blackleg resistance

CROPLAN CP7250LL

Spring Canola

LIBERTY LINK | SC

Response Scores



Characteristics

	Not Recommended				Excellent
Straight Cutting				2	
Oil Content				2	
Drought Tolerance			3		
Lodging				2	

- High yield potential hybrid in cooler and moderate- to higher-yielding environments
- Excellent shatter/pod drop scores, even under stress
- Low RTN increases stability across acres and helps in lower nitrogen soils or under lower nitrogen management systems
- Brings sclerotinia, clubroot and blackleg resistance

KEY

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5 = Not Recommended

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SC = Straight-Cutting

SC+ = Straight- Cutting Plus

SPRING CANOLA

CROPLAN

	Herbicide Tolerance Trait	Common Seed Size Range	Vigor	Days to Flower	Relative Maturity	Blackleg 2	Resistance Group 3	Clubroot 4	Height 1	Lodging	Straight-Cutting	Drought Tolerance	Oil Content	Response to Population (RTP) 5	Response To Nitrogen (RTN) 5
ROUNDUP READY® CANOLA															
CP930RR	Roundup Ready	90-120,000	1	45	90	R	C	S	S	1	3	1	1	M	L
TRUFLEX™ CANOLA															
CP9221TF	TruFlex	90-120,000	1	43	88	R	Multi	R - Source A/B	M-S	1	2	1	2	H	M
CP9978TF	TruFlex	100-115,000	1	46	92	R	A, G	S	M-S	1	1	2	2	H	M
LIBERTYLINK® CANOLA															
CP7130LL	LibertyLink	90-120,000	1	48	91	R	Multi	R - 2, 3, 5, 6, 8	M	2	2	2	3	M	L
CP7250LL	LibertyLink	90-120,000	1	50	94	R	Multi	R - 2, 3, 5, 6, 8	M	2	2	3	2	M	L

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1 Height
- **T** = Tall
- **M** = Medium
- **S** = Short

2 Blackleg Field Resistance
- **R** = Resistant
- **MR** = Moderately Resistant
- **MS** = Moderately Susceptible
- **S** = Susceptible

3 Blackleg Resistance Group
- **A**
- **B**
- **C**
- **D**
- **E1**
- **E2**
- **F**
- **G**
- **H**
- **X**
- **Multi**

4 Clubroot
- **R** = Resistant; clubroot genes are effective against pathotypes 2, 2B, 3, 3A, 5, 5X, 6, 8 and Source A/B
- **S** = Susceptible

5 RTP/RTF/RTN Ratings
- **L** = Low Response
- **M** = Moderate Response
- **H** = High Response

SPRING CANOLA

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

WINTER CANOLA

High Potential Canola Crops are Our Business. And Business is Good.

USE CUTTING-EDGE WEED CONTROL

CROPLAN® seed offers the latest herbicide management systems with excellent crop safety ratings to give your canola a clean chance at success.

ROUNDUP READY® WINTER CANOLA

- Strong on cheat, feral rye and other tough grasses.
- Optimal control with Class Act® NG® and InterLock® adjuvants.
- Excellent crop safety with Roundup® brand agricultural herbicide for in-crop applications.

ROUNDUP READY® WINTER CANOLA WITH SURT

- Review the crop protection history of previous wheat crops.
- Improved crop safety from previous wheat crops with a long-residual sulfonylurea herbicide.
- Susceptibility to many broadleaf herbicides with a long residual life.

Roundup Ready CANOLA

SURT

NEW CANOLA ROTATIONAL OPPORTUNITY

Group 2 Flexible (G2Flex®) residual tolerance technology allows canola to be planted right behind wheat in soils with Group 2 herbicide residuals, including imidazolinones, sulfonylureas, sulfonamides and triazolopyrimidines.

WinField® United is the exclusive provider of the only canola variety with the G2Flex® trait — CROPLAN® CP1022WC winter canola.

G2FLEX™

PLANTING FOR WINTERHARDINESS

- Canola should be planted six weeks before the first killing frost date for the area (less than 25° F).
- Seeding date is important to establishing a crop that has sufficient growth for good winterhardiness.
- Planting into a clean seedbed free of crop residue allows for better winterhardiness.
- Crop residue can elevate plant crowns and expose them to more temperature fluctuations and winterkill.

CROPLAN CP115WRR

Winter Canola

Roundup Ready CANOLA | SURT

Characteristics

	Not Recommended				Excellent
Lodging				2	
Oil Content				2	
Drought Tolerance					1
Winter Hardiness				2	

- Strong yield potential and excellent stress tolerance for multiple environments
- SURT (sulfonylurea residual tolerant)
- Dependable variety; approved for first-time High Plains canola growers
- Handles low-pH soil better than other products

CROPLAN CP225WRR

Winter Canola

Roundup Ready CANOLA | SURT

Characteristics

	Not Recommended				Excellent
Lodging				2	
Oil Content					1
Drought Tolerance				2	
Winter Hardiness				2	

- Excellent potential for strong yield environments
- SURT (sulfonylurea residual tolerant)
- Strong fall vigor; good for less-than-ideal seedbeds
- Strong winterhardiness; excels in Pacific Northwest and Mont.

CROPLAN CP320WRR

Winter Canola

Roundup Ready CANOLA

Characteristics

	Not Recommended				Excellent
Lodging				2	
Oil Content					1
Drought Tolerance				2	
Winter Hardiness					1

- Excellent yield potential in highly productive environments
- Best winterhardiness in CROPLAN® Roundup-Ready lineup; excels in all regions
- Strong fall vigor
- Roundup Ready®-only tolerance

CROPLAN CP1022WC

Winter Canola

G2FLEX™

Characteristics

	Not Recommended				Excellent
Lodging				2	
Oil Content					1
Drought Tolerance					1
Winter Hardiness					1

- G2FLEX™ (Group-2 Flexible) residual tolerance technology allows canola to be planted in soil with Group 2 herbicide residuals
- Great conventional with excellent yield potential for multiple environments.
- Winter wheat rotation friendly variety with soil residual tecnology
- Medium-tall product with good standabilty.

CROPLAN CP1077WC

Winter Canola

Characteristics

	Not Recommended				Excellent
Lodging				2	
Oil Content					1
Drought Tolerance				2	
Winter Hardiness				2	

- Excellent yield potential in more offensive environments
- Excellent pod shatter resistance for straight-cut opportunities
- Extremely high yielding conventional hybrid
- Taller product with good standability

CROPLAN CP1066WC

Winter Canola

Characteristics

	Not Recommended				Excellent
Lodging					1
Oil Content					1
Drought Tolerance				2	
Winter Hardiness					1

- Excellent yield potential; very good performance across 2020 National Winter Canola Variety Trials
- Best winterhardiness in the whole CROPLAN line-up
- Very good lodging tolerance
- Consistent performer across environments and management styles

KEY

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

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

WINTER CANOLA

CROPLAN

	Herbicide Tolerance Trait	Type	Common Seed Size Range	Maturity	Height [1]	Oil Content	Fall Vigor	Winterhardiness	Lodging	Drought Tolerance
ROUNDUP READY® + SURT WINTER CANOLA										
CP115WRR	Roundup Ready + SURT	Open Pollinated	100,000-130,000	Medium	M-S	2	2	2	2	1
CP225WRR	Roundup Ready + SURT	Open Pollinated	100,000-130,000	Medium	M	1	2	2	2	2
ROUNDUP READY® WINTER CANOLA										
CP320WRR	Roundup Ready	Open Pollinated	100,000-130,000	Medium	M	1	1	1	2	2
CONVENTIONAL + G2FLEX™ WINTER CANOLA										
CP1022WC	G2FLEX™	Open Pollinated	100,000-130,000	Medium	T	1	1	1	2	1
CONVENTIONAL WINTER CANOLA										
CP1077WC	Conventional Winter Canola	Hybrid	100,000-130,000	Medium	T	1	1	2	2	2
CP1066WC	Conventional Winter Canola	Open Pollinated	100,000-130,000	Medium	M	1	1	1	1	2

KEY

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1 Height Ratings
T = Tall
M = Medium
S = Short

WINTER CANOLA

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

SUNFLOWER

Decades of Sunflower Insights Have Led to This Moment.

CROPLAN® hybrids bring you some of the industry's leading technologies to elevate your sunflower game.

FORTENZA® INSECTICIDE SEED TREATMENT

An industry leading technology, that's been added to our seed treatment offering is responsible for:

- Improved control of cutworm.
- Providing crops with increased stand establishment, plant vigor and biomass.

PROSUN™ PRECISE SEED COATING

Prosun™ precise seed coating is available on select CROPLAN sunflower hybrids and offers:

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

NEW SUNFLOWER PRODUCT LINE

CROPLAN seed has brought short statured, ultra-early sunflower hybrids that bring double crop opportunities to wider geographies, offering:

- In-season opportunities for pest management using your own ground equipment
- Wider window for planting or replant

TRAIT OPTIONS FOR THE WEED CONTROL YOU NEED

We offer farmers the ExpressSun® and the Clearfield® Production System traits, both of which provide good weed-control options to farmers.

BEYOND® AND EXPRESS® HERBICIDES

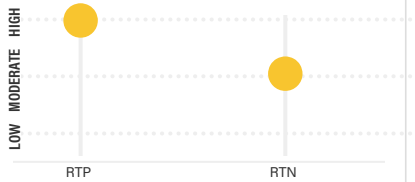
- Require preemergence herbicide treatments (Spartan® Charge, BroadAxe® or Prowl® H20) or preplant-incorporated herbicides (Framework®, Prowl® H20 or Sonalan®) to combat kochia and Russian thistle.
- Group 2 herbicide mode of action: ExpressSun® trait is tolerant to Express® herbicide and Clearfield® Production System is tolerant to Beyond® herbicide.

CROPLAN CP432E

ExpressSun® Sunflower

DuPont ExpressSun trait | NuSun

Response Scores



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength			3		
Phomopsis				2	
Oil Content		4			
Dry down					1

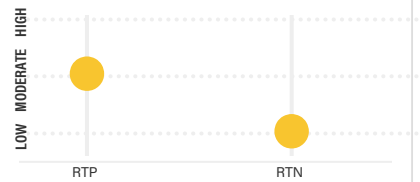
- High yield potential for early maturity
- Shorter plant height; very uniform
- DMR PI 8; resistant to all common U.S. races of downy mildew
- Utilize higher populations if pushing yield goals higher; has also shown yield response to higher available nitrogen

CROPLAN CP450E

ExpressSun® Sunflower

DuPont ExpressSun trait

Response Scores



Characteristics

	Not Recommended				Excellent
Stalk Quality					1
Root Strength					1
Phomopsis				2	
Oil Content		4			
Dry down				2	

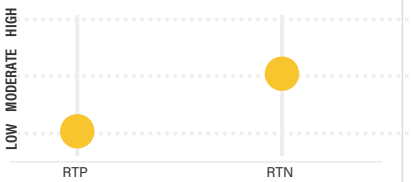
- Excellent yield potential; great defensive complement to CP455E
- Top performer in stressed environments
- Stronger standability than CP455E; good hybrid to plant early
- Good drought stress tolerance and low demand for additional nitrogen to maintain yield potential

CROPLAN CP455E

ExpressSun® Sunflower

DuPont ExpressSun trait

Response Scores



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength			3		
Phomopsis			3		
Oil Content			3		
Dry down					1

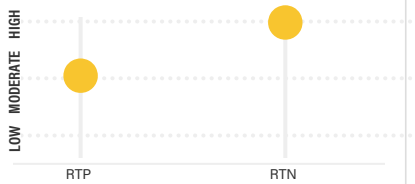
- Excellent yield potential; top performer in CROPLAN® lineup
- Widely adapted across regions and field conditions
- Medium-short plant with excellent drydown
- Good drought response along with sclerotinia tolerance for higher-moisture years

CROPLAN CP4909E

ExpressSun® Sunflower

DuPont ExpressSun trait | NuSun

Response Scores



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength				2	
Phomopsis			3		
Oil Content			3		
Dry down					1

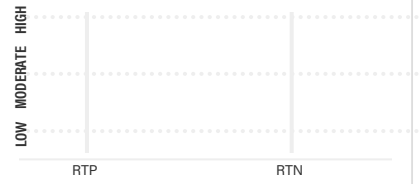
- Top-end yield potential in high-yield environments; use caution on droughty soils
- Great stalk and root strength
- Short stature for excellent standability
- High yield response to increased populations and nitrogen

CROPLAN CP5220CLSS

Clearfield® Sunflower

Clearfield Production System for Sunflower

Response Scores - NA



Characteristics

	Not Recommended				Excellent
Stalk Quality					1
Root Strength					1
Phomopsis					1
Oil Content		4			
Dry down					1

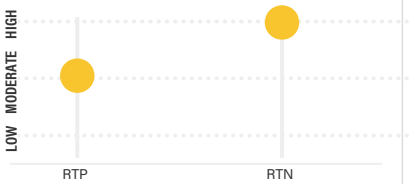
- Very early, extremely short-statured hybrid
- Excellent stalks, roots and late season standability
- Ultra-early hybrid with DMR for the high oleic crush/birdseed market
- Excellent option for late-planting or double-crop acres with in-season ground applications possible

CROPLAN CP5045CL

Clearfield® Sunflower

Clearfield Production System for Sunflower | NuSun

Response Scores



Characteristics

	Not Recommended				Excellent
Stalk Quality					1
Root Strength					1
Phomopsis			3		
Oil Content				2	
Dry down			3		

- Very high yield potential with excellent agronomics
- PI 6 and PI 17 DMR for one of the industry's leading downy mildew tolerance
- Excellent stalks and roots; medium plant height for excellent late-season standability
- Increased staygreen and slower drydown in cooler environments - a good candidate for desiccation

KEY

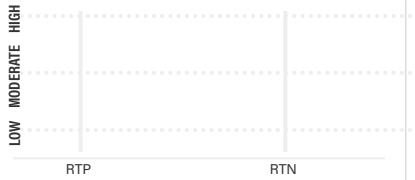
Scale
1 = Excellent
2 = Strong
3 = Acceptable
4 = Manage
5 = Not Recommended

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

CROPLAN CP3845

Conventional Sunflower

Response Scores - NA



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength			3		
Phomopsis		4			
Oil Content					1
Dry down				2	

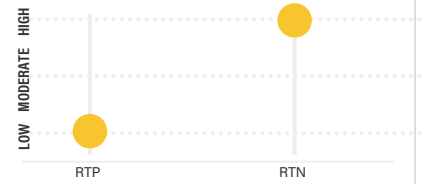
- Strong yield potential in higher-yielding environments
- Consistent performance across multiple environments
- One of the top oil content products in the CROPLAN® lineup
- Plant at higher populations for best results

CROPLAN CP7919CL

Clearfield® Sunflower

Clearfield® Production System for Sunflower

Response Scores



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength				2	
Phomopsis					1
Oil Content				2	
Dry down			3		

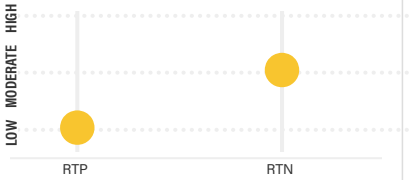
- High yield potential, oil and oleic levels
- Above-average disease tolerance
- High yield response to additional nitrogen availability
- Full maturity; plant early when utilizing north of I-94 in Minn., No. Dak., and Mont.

CROPLAN CP4157E

ExpressSun® Sunflower

DuPont™ ExpressSun® trait

Response Scores



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength		4			
Phomopsis					1
Oil Content				2	
Dry down				2	

- Very high yield potential with best performance in offensive environments
- Excellent Phomopsis tolerance
- Lower populations to increase root size and decrease height without giving up yield potential
- Use caution on extreme droughty or compacted soils

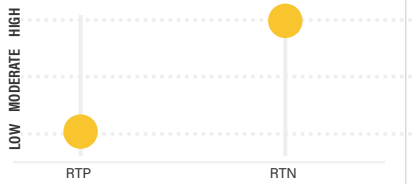
NEW

CROPLAN CP4255E

ExpressSun® Sunflower

DuPont™ ExpressSun® trait

Response Scores



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength				2	
Phomopsis					1
Oil Content			3		
Dry down				2	

- Excellent yield potential with very good Phomopsis tolerance
- Taller plant but strong roots and late-season stalks with a very clean plant at harvest
- Data suggests good performance on tougher acres
- Strong yield response has been shown with increased nitrogen

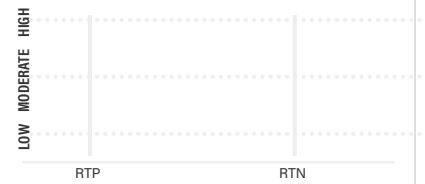
NEW

CROPLAN CP4475E

ExpressSun® Sunflower

DuPont™ ExpressSun® trait

Response Scores - NA



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength				2	
Phomopsis					1
Oil Content			3		
Dry down					1

- Excellent yield potential for maturity with very good Phomopsis tolerance
- Tall plant but strong roots; late-season stalks with a very clean plant at harvest
- Strong agronomics for variable acres
- Data showed very good high-end yield in offensive 2022 environments

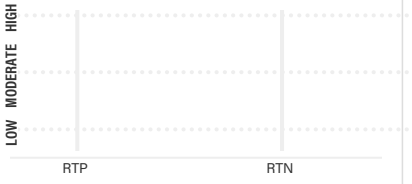
NEW

CROPLAN CP5249

Clearfield® Sunflower

Clearfield® Production System for Sunflower

Response Scores - NA



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength					1
Phomopsis	N/A				
Oil Content				2	
Dry down					1

- High yielding HO for its early maturity; very good oil content
- Shorter height combined with good roots and stalks provide excellent standability
- Excellent drought tolerance for tougher acres and lighter soils
- Early flowering and maturity helps beat heat and drought

KEY

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

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

NEW

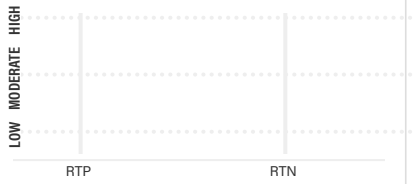
CROPLAN

CP5242

Clearfield® Sunflower

Clearfield Production System for Sunflower

Response Scores - NA



Characteristics

	Not Recommended				Excellent
Stalk Quality				2	
Root Strength				2	
Phomopsis	N/A				
Oil Content					1
Dry down					1

- High oleic hybrid with excellent oil and very good yield potential for maturity
- Great standability in the field with consistent performance across environments
- Excellent roots and stalks, very good heat and drought tolerance
- Solid performance on lighter soils

KEY

Scale
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4 = Manage
5 = Not Recommended

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SUNFLOWER

CROPLAN®

	High Oleic [1]	NuSun® [1]	Dehulling [1]	Birdseed [1]	Days to Maturity	Downy Mildew Resistance [2]	Phomopsis	Sclerotinia	Height	Root Strength	Stalk Quality	Drydown	Drought Tolerance	Oil Content	Oleic Content	Common Planting Seed Size	Response-to-population (RTP) [3]	Response-to-nitrogen (RTN) [3]
EXPRESSSUN® SUNFLOWER																		
CP432E		●	●	●	87	PI 8	2	3	Short	3	2	1	2	4	NA	2, 3, 4	H	M
CP450E	●		●	●	94	PI 8	2	2	Medium	1	1	2	1	4	2	2, 3, 4	M	L
CP455E	●		●	●	93	PI 6	3	2	Medium	3	2	1	2	3	1	2, 3, 4	L	M
CP4909E		●		●	91	-	3	2	Short	2	2	1	3	3	NA	2, P3, 3, 4	M	H
CP4157E	●		●	●	95	PI 6	1	2	Med-Tall	4	2	2	4	2	1	3, 4	L	M
NEW CP4255E	●		TBD	●	93	PI 2,6,8	1	2	Med-Tall	2	2	2	2	3	1	2, 3, 4	L	H
NEW CP4475E	●		TBD	●	92	PI 6,8	1	2	Tall	2	2	1	2	3	1	2, 3, 4	NA	NA
CLEARFIELD® SUNFLOWER																		
CP5220CLSS	●		TBD	●	79	PI 6	1	NA	Super Short	1	1	1	1	4	3	3, 4	H	NA
CP5045CL		●	TBD	●	95	PI 6,17	3	2	Med-Short	1	1	3	1	2	NA	2, 3, 4	M	H
CP7919CL	●			●	97	PI 6	1	3	Med	2	2	3	2	2	2	2, 3, 4	L	H
NEW CP5249	●		TBD	●	86	PI 15	NA	NA	Short	1	2	1	1	2	1	NA	NA	NA
NEW CP5242	●		TBD	●	86	PI 15	NA	NA	Short	2	2	1	2	1	1	NA	NA	NA
CONVENTIONAL SUNFLOWER																		
CP3845	●		●	●	92	-	4	5	Med-Short	3	2	2	2	1	1	3, 4	NA	NA

KEY

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

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

1 Market Options

Grain not guaranteed to be sold in your area.

Due to factors outside our control, WinField United does not guarantee oleic levels.

TBD = still in testing.

2 Downy Mildew Resistance

PI 2 gene = This gene is resistant to some of the early races of downy mildew, but it is susceptible to most of the common races found today.

PI 6 gene = This gene is resistant to races prevalent before 2009; it is susceptible to races 314, 704, 714, 734 and 774.

PI 8 gene = This gene can get infected, but then stops downy mildew from advancing or having an economic impact on all common races.

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

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

PI 17 gene = Advanced control, resistant to all known races of downy mildew.

3 RTN/RTF Ratings

L = Low Response
M = Moderate Response
H = High Response

SUNFLOWER

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

CROPLAN®

HARD RED SPRING WHEAT

We Predict High Performance Potential and Strong Wheat Crops in Your Future.

Optimize Seed ROI

To achieve farm topping yield potential, you need to do many things right. And that starts with CROPLAN® varieties.

This is seed that puts you on the path to maximizing ROI potential on each acre, beginning with exceptionally high performing genetics, which carry the latest traits. But even bigger advantages come with the data and intelligence we build on top of these revolutionary wheat varieties.

NEW ANSWER PLOT® RESEARCH PROVIDES NITROGEN AND POPULATION RESPONSE DATA FOR CROPLAN WHEAT VARIETIES.

That means you can fine tune management and increase yield potential in the most economically efficient manner.

- There's a 25.5bu/A average yield response advantage[1] when varieties are managed according to their Response to Nitrogen (RTN).
- Then, there's a 10.9bu/A average yield response advantage[1] when varieties are managed according to their Response to Population (RTP).

EACH VARIETY IS DIFFERENT, AND THEIR AGRONOMIC REQUIREMENTS ARE, TOO.

Putting every product into the same environment won't maximize your ROI. Instead, give each variety what it needs when it needs it. And just as importantly, eliminate actions that don't provide the yield and revenue impact you desire.

And on top of all that, you also get sawfly protection with our new semi-solid stemmed products that show excellent control of sawfly damage.

Only CROPLAN provides this level of intelligence. And you can only find CROPLAN varieties at the best retailers in America.

REVOLUTIONARY GRASSY WEED CONTROL

CROPLAN seed is pleased to offer the CoAXium Wheat Production System as a part of our wheat lineup. Created in part by wheat farmers for wheat farmers, this system provides cost- effective, excellent control of annual and perennial grasses, higher quality grain, and increased yield potential.

Additionally, it combines elite wheat varieties, the AXigen® trait and Aggressor® herbicide with an industry-wide stewardship program. AXigen® is an ACCase herbicide-tolerant trait that protects wheat varieties from Aggressor® herbicide, which delivers effective, consistent, broad-spectrum control of problem grasses.

When used in conjunction with CoAXium® varieties, Aggressor® herbicide provides systemic and selective broad-spectrum control of these problem grasses:

- Barnyard grass
- Bromus species, including ALS-resistant biotypes
- Feral and cereal rye
- Jointed goat grass, including ALS-resistant biotypes
- Wild oats (non-resistant Group1)
- Volunteer cereals

CoAXium™ Wheat Production System. Cleaner Fields. Higher Yields.

Driven by Aggressor™ Herbicides

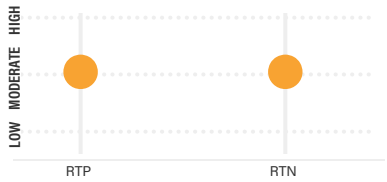
1. 2019 Answer Plot® trial data.

CROPLAN®

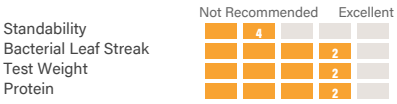
CROPLAN CP3530

Hard Red Spring

Response Scores



Characteristics

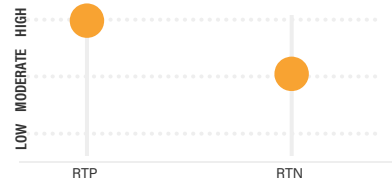


- Excellent yield potential and strong protein
- Very stable product across environments
- Good fusarium head blight with strong stem rust and BLS; good leaf rust tolerance
- Good standability with moderate populations, higher yield potential when populations are increased in environments with lower lodging risk

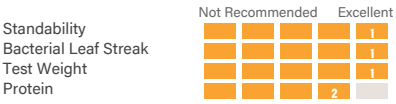
CROPLAN CP3915

Hard Red Spring

Response Scores



Characteristics

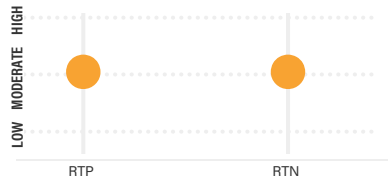


- High yield and protein potential that can increase with additional nitrogen
- Excellent agronomics, very good BLS tolerance and straw strength
- Excels under higher yield environments; stable in lower yielding environments
- High response to population, recommended 1.4-1.7M seeds/Ac

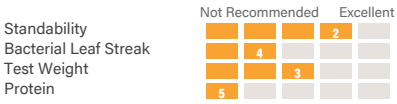
CROPLAN CP3099A

Hard Red Spring

Response Scores



Characteristics

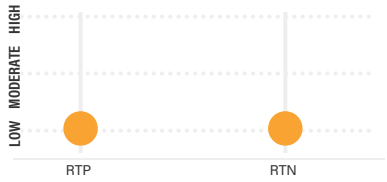


- Extremely high yield potential with unique genetics in the industry
- Large biomass and an awnless head provide excellent forage potential, good tonnage and very good quality
- Lower protein, but additional nitrogen may increase both yield and protein potential
- Research showed increases in yield with higher populations; good standability in most environments

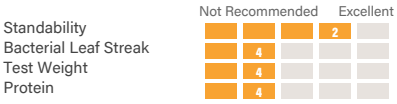
CROPLAN CP3119A

Hard Red Spring

Response Scores



Characteristics

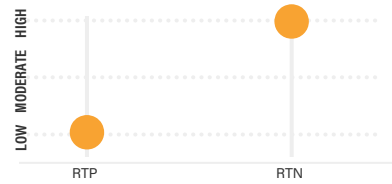


- High-yielding European style genetics brings an awnless product with incredible biomass and very high yield potential
- Semi-solid stem for WSS tolerance combined with stress tolerance and lower response to inputs makes this a great Western-style wheat
- High yield potential; lower-protein can be improved with N management
- Extended-season wheat with longer grain-fill gives higher yield potential

CROPLAN CP3201AX

Hard Red Spring

Response Scores



Characteristics

- Can control resistant weeds by utilizing CoAXium® technology driven by Aggressor® herbicide using an ACCase inhibitor
- Nicely balanced product for both yield and protein potential, for success across markets
- Good agronomics and yield potential, especially in moderate to higher yielding environments
- Low demand for additional populations, but responds well to higher nitrogen availability

NEW

CROPLAN CP3360AX

Hard Red Spring

Response Scores - NA

Characteristics

- Control resistant weeds by utilizing CoAXium® technology driven by Aggressor® herbicide using an ACCase inhibitor
- Nicely balanced product for yield and protein potential, to enable success across markets
- Good agronomics and good yield potential, especially in moderate to higher yielding environments
- Medium-late maturity with earlier flowering and longer grain fill; medium plant height

KEY

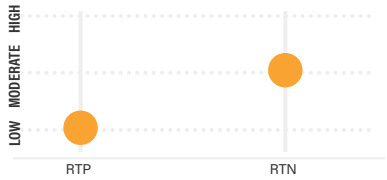
Scale
1 = Excellent
2 = Strong
3 = Acceptable
4 = Manage
5 = Not Recommended

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

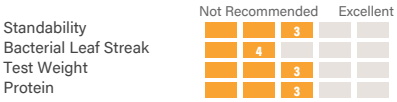
CROPLAN CP3188

Hard Red Spring

Response Scores



Characteristics



- Excellent performance under stressed conditions, but top-end yield potential on the most productive acres
- Low RTN and lower RTP gives a steady performance across acres, responds to additional nitrogen for more yield and protein potential
- Lower but acceptable protein, with total protein/Ac being higher than average
- FHB tolerance is above average, fungicide is recommended; manage for BLS

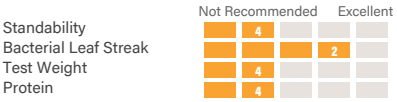
NEW

CROPLAN CP3055

Hard Red Spring

Response Scores

Characteristics



- High yield potential European-style genetics with a solid disease package
- Semi-solid stem variety for saw-fly tolerance; good stress tolerance for a great western fit
- Very large plant type and full-season maturity allows for very high yield potential
- Moderate yield response to nitrogen; as a full season product there is opportunity for split-applied nitrogen; additional nitrogen increases protein %

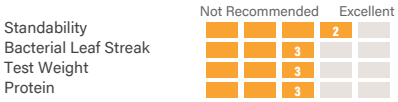
NEW

CROPLAN CP3322

Hard Red Spring

Response Scores

Characteristics



- Broadly adapted top-end yield potential product with excellent drought stress, average protein content and semi-solid stem for saw-fly tolerance
- Taller plant holds height, creates a thicker canopy for strong western performance with good straw strength for the east
- Performs well in lower-yielding environments without sacrificing top-end yield potential
- Medium-late flowering/maturity; average BLS; use fungicide for FHB control

KEY

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

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

HARD RED SPRING WHEAT

CROPLAN®

	VARIETY	Wheat Class	Days to Heading	Days to Maturity	Height [2]	Standability	Test Weight	Protein	Baking Quality	Placement on Irrigation	Fusarium Head Blight	Leaf Rust	Stem Rust	Stripe Rust	Leaf Disease	Bacterial Leaf Streak	Wheat Stem Sawfly	Response to Population [RTP] [1]	Response to Nitrogen [RTN] [1]
	CONVENTIONAL WHEAT																		
	CP3530	Hard Red	57	87	T	4	2	2	3	4	2	4	1	3	3	2	4	M	M
	CP3915	Hard Red	55	86	M	1	1	2	2	1	2	1	1	NA	3	1	4	H	M
	CP3099A	Hard Red	60	92	T	2	3	5	4	2	4	4	4	NA	2	4	4	M	M
	CP3119A	Hard Red	62	96	T	2	4	4	NA	2	4	4	2	NA	2	4	2	L	L
	CP3188	Hard Red	57	85	T	3	3	3	NA	3	3	1	4	NA	3	4	4	L	M
NEW	CP3055	Hard Red	60	92	T	4	4	4	NA	3	3	2	2	NA	4	2	2	L	L
NEW	CP3322	Hard Red	57	90	T	2	3	3	NA	2	3	NA	NA	NA	NA	3	2	L	H
	COAXIUM® WHEAT																		
	CP3201AX	Hard Red	54	85	M	1	3	2	NA	2	3	NA	NA	3	NA	2	4	L	H
NEW	CP3360AX	Hard Red	54	84	M	1	1	3	3	2	3	NA	NA	NA	NA	3	4	NA	NA

KEY

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

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

1 RTP/RTN 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.

HARD RED SPRING WHEAT

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

HARD RED WINTER WHEAT

Lesser Wheat May Give Up During Harsh Winters, But Not CROPLAN Wheat.

Optimize Seed ROI

To achieve farm topping yield potential, you need to do many things right. And that starts with CROPLAN® varieties.

This is seed that puts you on the path to maximizing ROI on each acre, beginning with exceptionally high performing genetics, which carry the latest traits. But even bigger advantages come with the data and intelligence we build on top of these revolutionary wheat varieties.

NEW ANSWER PLOT® RESEARCH PROVIDES NITROGEN AND FUNGICIDE RESPONSE DATA FOR CROPLAN WHEAT VARIETIES.

That means you can fine tune management and increase yield potential in the most economically efficient manner.

- There's a 33.1bu/A average yield response advantage[1] when varieties are managed according to their Response to Nitrogen (RTN).
- Then, there's a 20.8bu/A average yield response advantage[1] when varieties are managed according to their Response to Fungicide (RTF).

EACH VARIETY IS DIFFERENT, AND THEIR AGRONOMIC REQUIREMENTS ARE, TOO.

Putting every product into the same environment won't maximize your ROI. Instead, give each variety what it needs when it needs it. And just as importantly, eliminate actions that don't provide the yield and revenue impact you desire.

Only CROPLAN provides this level of intelligence. And you can only find CROPLAN varieties at the best retailers in America.

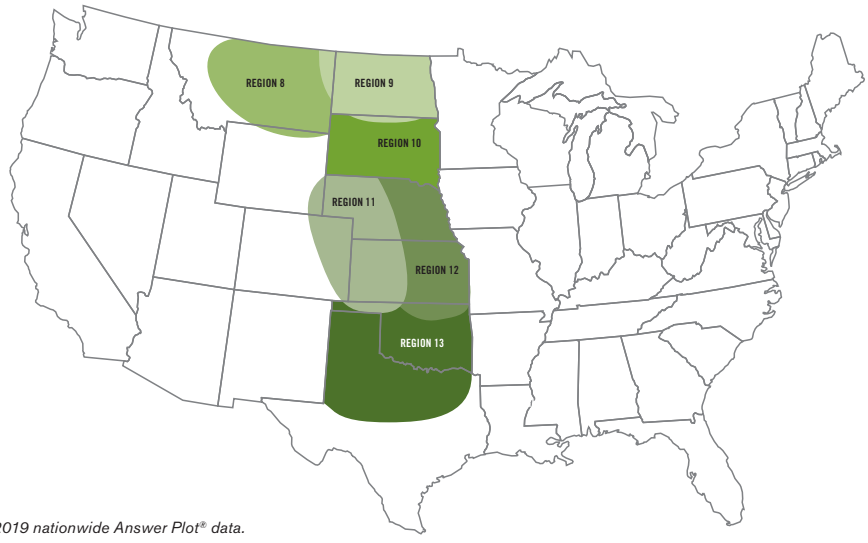
REVOLUTIONARY GRASSY WEED CONTROL

CROPLAN seed is pleased to offer the CoAXium Wheat Production System in part of our wheat lineup. Created in part by wheat farmers for wheat farmers, this system provides cost- effective, excellent control of annual and perennial grasses, higher quality grain, and increased yield potential.

Additionally, it combines elite wheat varieties, the AXigen® trait and Aggressor® herbicide with an industry-wide stewardship program. AXigen® is an ACCase herbicide-tolerant trait that protects wheat varieties from Aggressor® herbicide, which delivers effective, consistent, broad-spectrum control of problem grasses.

When used in conjunction with CoAXium® varieties, Aggressor® herbicide provides systemic and selective broad-spectrum control of these problem grasses:

- Barnyard grass
- Bromus species, including ALS-resistant biotypes
- Feral and cereal rye
- Jointed goat grass, including ALS-resistant biotypes
- Wild oats (non-resistant Group1)
- Volunteer cereals



1. 2019 nationwide Answer Plot® data.

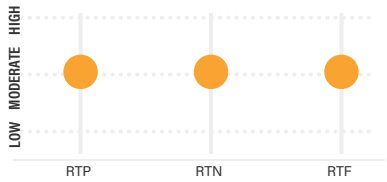
CROPLAN®

NEW

CROPLAN CP7220

Hard Red Winter

Response Scores



Characteristics

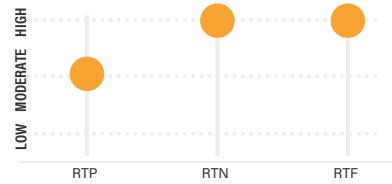
	Not Recommended				Excellent
Standability				2	
Fusarium Head Blight			3		
Test Weight					1
Protein				2	
Winterhardiness				2	

- Broadly adapted for Northern Neb. through Dakotas and into Mont.
- Very good standability and stress tolerance allows for placement from high to low yield potential acres
- Strong baking qualities
- Fungicide recommended in areas with Leaf and Stripe Rust

CROPLAN CP7909

Hard Red Winter

Response Scores



Characteristics

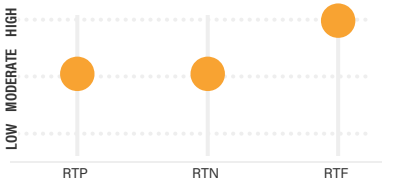
	Not Recommended				Excellent
Standability					
Fusarium Head Blight			4		
Test Weight					
Protein					1
Winterhardiness					1

- Excellent yield potential with high protein potential
- Very good winterhardiness
- Broad adaptation over a variety of conditions; outstanding yield potential in high-yield environments
- Excellent soilborne mosaic virus resistance

CROPLAN CP7869

Hard Red Winter

Response Scores



Characteristics

	Not Recommended				Excellent
Standability				2	
Fusarium Head Blight			3		
Test Weight				2	
Protein				2	
Winterhardiness				2	

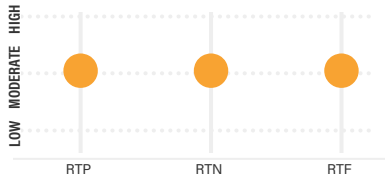
- High yield potential and strong stress tolerance
- Excellent standability; push nitrogen to maintain adequate protein
- Best fit is on well-managed dryland or irrigated acres
- Acceptable fusarium head blight tolerance; excellent stripe, stem and leaf rust tolerance

NEW

CROPLAN CP7266AX

Hard Red Winter

Response Scores



Characteristics

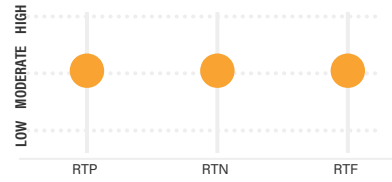
	Not Recommended				Excellent
Standability				2	
Fusarium Head Blight				2	
Test Weight				2	
Protein				2	
Winterhardiness				2	

- Excellent yield potential in a medium maturity product
- Very good standability for more productive acres
- Great fit for lower-yielding environments, but still has top-end yield potential
- Responds well to increased nitrogen and population on offensive acres

CROPLAN CP7017AX

Hard Red Winter

Response Scores



Characteristics

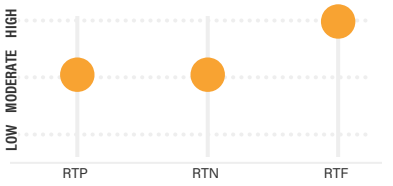
	Not Recommended				Excellent
Standability				2	
Fusarium Head Blight					1
Test Weight			3		
Protein			3		
Winterhardiness					1

- Medium maturity CoAXium® variety with excellent yield potential
- Resistant to soilborne mosaic virus; strong tolerance to tough soils and lower pH
- Broadly adapted for high yield potential across multiple environments
- Responds well to increased nitrogen and population on offensive acres

CROPLAN CP7050AX

Hard Red Winter

Response Scores



Characteristics

	Not Recommended				Excellent
Standability				2	
Fusarium Head Blight				2	
Test Weight				2	
Protein					1
Winterhardiness				2	

- Strong yield potential; early-maturing CoAXium® wheat variety
- Strong straw and test weight; tolerates acid soils; resistant to stripe rust and soilborne mosaic virus
- Consistent performance potential across environments and management zones, excels in tougher acres
- Fungicide recommended in areas with stem rust

KEY

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

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

HARD RED WINTER WHEAT

CROPLAN®

	Wheat Class	Regions of Adaptation	Maturity (1)	Height (2)	Test Weight	Standability	Awns	Winterhardiness	Protein	Leaf Rust	Stripe Rust	Powdery Mildew	Septoria Leaf Resistance	Stagonospora Glume Blotch Leaf Disease	Barley Yellow Dwarf	Fusarium Head Blight	Hessian Fly Resistance	Wheat Stem Sawfly	Placement on Irrigation	Response to Population (RTP) (3)	Response to Nitrogen (RTN) (3)	Response to Fungicide (RTF) (3)
CONVENTIONAL WHEAT																						
NEW	CP7220	Hard Red	8, 9, 10, 11, 12, 13	3	M	1	2	Y	2	2	4	3	4	NA	3	NA	NA	3	NA	NA	1	M	M	M
	CP7909	Hard Red	8, 9, 10, 11, 13	3	MT	3	3	Y	1	1	3	4	NA	NA	2	NA	NA	4	NA	NA	1	M	H	H
	CP7869	Hard Red	8, 10, 11, 12, 13	5	M	2	2	Y	2	2	1	1	NA	NA	1	NA	NA	3	NA	NA	1	M	M	H
COAXIUM® WHEAT																						
NEW	CP7266AX	Hard Red	8, 9, 10, 11, 12, 13	3	MT	2	2	Y	2	2	1	2	NA	NA	1	NA	NA	2	NA	NA	1	M	M	M
	CP7017AX	Hard Red	8, 9, 10, 11, 12, 13	3	M	3	2	Y	1	3	3	2	NA	NA	2	NA	NA	1	NA	NA	1	M	M	M
	CP7050AX	Hard Red	8, 9, 10, 11, 12	1	M	2	2	Y	2	1	2	1	NA	NA	3	NA	NA	2	NA	NA	2	M	M	H

KEY

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

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

(1) Maturity
1 = Early
5 = Late

(2) Height
S = Short
M = Medium
T = Tall

(3) RTP/RTN/RTF Ratings
L = Low Response
M = Moderate Response
H = High Response

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.

HARD RED WINTER WHEAT

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

CROPLAN®

SOFT RED WINTER WHEAT

Confident in Our Wheat Know-How Because That's What 20+ Years Brings.

Optimize Seed ROI

To achieve farm topping yield potential, you need to do many things right. And that starts with CROPLAN® varieties.

This is seed that puts you on the path to maximizing ROI potential on each acre, beginning with exceptionally high performing genetics. But even bigger advantages come with the data and intelligence we build on top of these revolutionary wheat varieties.

NEW ANSWER PLOT® RESEARCH PROVIDES NITROGEN AND FUNGICIDE RESPONSE DATA FOR CROPLAN WHEAT VARIETIES.

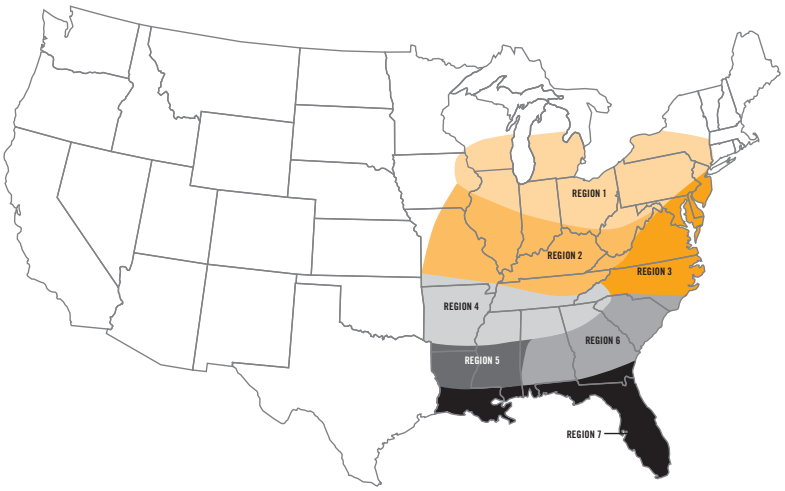
That means you can fine tune management and increase yield potential in the most economically efficient manner.

- There's a 7.2bu/A average yield response advantage[1] when varieties are managed according to their Response to Nitrogen (RTN).
- Then, there's a 10.5bu/A average yield response advantage[1] when varieties are managed according to their Response to Fungicide (RTF).

EACH VARIETY IS DIFFERENT, AND THEIR AGRONOMIC REQUIREMENTS ARE, TOO.

Putting every product into the same environment won't maximize your ROI. Instead, give each variety what it needs when it needs it. And just as importantly, eliminate actions that don't provide the yield and revenue impact you desire.

Only CROPLAN provides this level of intelligence. And you can only find CROPLAN varieties at the best retailers in America.



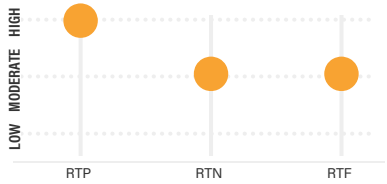
1. 2019 Answer Plot® data.

CROPLAN®

CROPLAN CP9606

Soft Red Winter

Response Scores



Characteristics

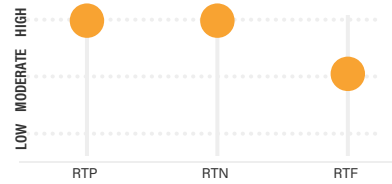
	Not Recommended → Excellent
Standability	1
Fusarium Head Blight	2
Test Weight	3
Winterhardiness	2

- Outstanding yield potential; unique wheat
- Native tolerance to fusarium head blight; good broad-spectrum disease-resistance package
- Excellent stripe rust resistance and standability
- Responds well to increased population

CROPLAN CP9415

Soft Red Winter

Response Scores



Characteristics

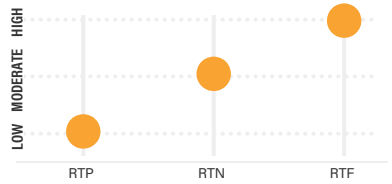
	Not Recommended → Excellent
Standability	1
Fusarium Head Blight	3
Test Weight	3
Winterhardiness	1

- Excellent yield potential in highly productive environments
- Responds well to nitrogen; exceptional standability
- Strong disease-tolerance package
- Medium height; fits well in double-crop system

CROPLAN CP9203

Soft Red Winter

Response Scores



Characteristics

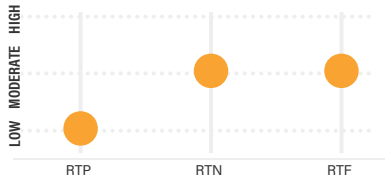
	Not Recommended → Excellent
Standability	2
Fusarium Head Blight	2
Test Weight	1
Winterhardiness	2

- High yield potential and excellent test weight
- Broad adaptation over a variety of soils and management regimes
- Native tolerance to fusarium head blight
- Smooth head and height make it a good straw choice

CROPLAN CP8081

Soft Red Winter

Response Scores



Characteristics

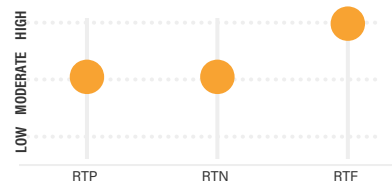
	Not Recommended → Excellent
Standability	1
Fusarium Head Blight	2
Test Weight	2
Winterhardiness	2

- Outstanding yield potential; broadly adapted over a variety of soils and management regimes
- Early-medium maturity with excellent winterhardiness; very good standability
- Native tolerance to fusarium head blight
- Excellent test weight; good broad-spectrum disease-resistance package

CROPLAN CP8022

Soft Red Winter

Response Scores



Characteristics

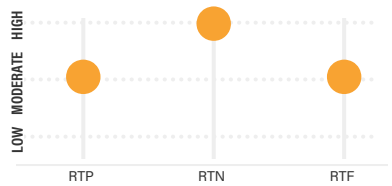
	Not Recommended → Excellent
Standability	2
Fusarium Head Blight	1
Test Weight	2
Winterhardiness	1

- Excellent yield potential in highly productive environments
- State-of-the-art fusarium head blight resistance
- Excellent test weight and stripe rust resistance
- Plant on time to encourage tilling

CROPLAN CP8007

Soft Red Winter

Response Scores



Characteristics

	Not Recommended → Excellent
Standability	1
Fusarium Head Blight	3
Test Weight	3
Winterhardiness	2

- Outstanding yield potential
- Very stiff and short straw that can handle high N-rates
- Strong test weight
- Best performance in northern regions

KEY

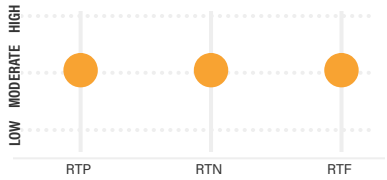
Scale
1 = Excellent
2 = Strong
3 = Acceptable
4 = Manage
5 = Not Recommended

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

CROPLAN CP8045

Soft Red Winter

Response Scores



Characteristics

	Not Recommended → Excellent				
Standability				2	
Fusarium Head Blight				2	
Test Weight			3		
Winterhardiness					1

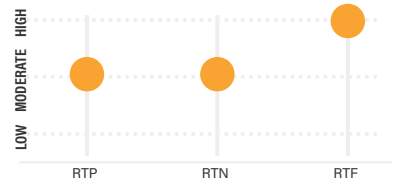
- Outstanding yield potential; broadly adapted over a variety of soils
- Strong disease-tolerance package

NEW

CROPLAN CP8224

Soft Red Winter

Response Scores



Characteristics

	Not Recommended → Excellent				
Standability					1
Fusarium Head Blight				2	
Test Weight					1
Winterhardiness					1

- Exciting new variety to replace CP9203
- Excellent test weight and winterhardiness
- Awnless variety with excellent standability
- Acceptable Septoria and powdery mildew tolerance

KEY

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

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

SOFT RED WINTER WHEAT

CROPLAN®

	VARIETY	Wheat Class	Regions of Adaptation	Maturity 1	Height 2	Test Weight	Standability	Awns	Seed Size Range (Seeds/Lb)	Winterhardiness	Response to Population [RTP] 3	Response to Nitrogen [RTN] 3	Response to Fungicide [RTF] 3	Leaf Rust	Stripe Rust	Powdery Mildew	Septoria Leaf Resistance	Leaf Disease	Stagonospora Glume Blotch	Barley Yellow Dwarf	Fusarium Head Blight	Hessian Fly Resistance	Placement on Irrigation	
	CP9606	Soft Red	1, 2, 3, 4	3	MS	3	1	Y	11,000-14,000	2	H	M	M	2	1	3	3	NA	3	2	2	Biotype B, D, L, O	NA
	CP9415	Soft Red	1, 2, 3, 4	4	MS	3	1	Y	10,000-12,000	1	H	H	M	1	2	3	2	NA	1	3	3	Biotype B, D, L, O	NA
	CP9203	Soft Red	1, 2	3	MS	1	2	N	10,000-13,000	2	L	M	H	2	1	5	4	NA	2	2	2	Biotype L	NA
	CP8081	Soft Red	1, 2, 3, 4	1	M	2	1	Y	11,000-14,000	2	L	M	M	1	2	4	2	NA	2	1	2	Biotype B, D, L, O	NA
	CP8022	Soft Red	1, 2, 3, 4	3	MS	2	2	Y	11,000-14,000	1	M	M	H	3	1	4	2	NA	2	1	1	Native tol.	NA
	CP8007	Soft Red	1,2	4	S	3	1	N	11,000-14,000	2	M	H	M	2	2	2	4	NA	2	NA	3	NA	NA
	CP8045	Soft Red	1,2,3,4	3	M	3	2	Y	11,000-14,000	1	M	M	M	2	2	2	2	NA	2	NA	2	NA	NA
NEW	**CP8224**	Soft Red	1,2,3,4	3	M	1	1	N	12,000-14,000	1	M	M	H	1	1	2	3	NA	NA	NA	2	NA	NA

KEY

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

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

1 Maturity
1 = Early
5 = Late

2 Height
S = Short
M = Medium
T = Tall

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

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.

SOFT RED WINTER WHEAT

Product Name _____

Attributes _____

_____

Placement _____

_____

Product Name _____

Attributes _____

_____

Placement _____

_____

Product Name _____

Attributes _____

_____

Placement _____

_____

Product Name _____

Attributes _____

_____

Placement _____

_____

TECHNOLOGY

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.

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 Corteva Agriscience have developed IRM guidelines that must be incorporated by everyone purchasing and planting insect-protected crops.

Verification Required The last patent on the original Roundup Ready® 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® soybean trait. However, it is important that you check with your seed supplier to determine if a specific Roundup Ready® 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® soybean, Roundup Ready 2 Xtend® soybean, 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® 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.

High Value of New Branded Seed

Latest Technology

// High-yielding soybean technologies
// Better variety options
// Leading seed treatment options

Customer Service

// Dealer agronomic support before and after the sale
// Replant policy support
// Convenient packaging and delivery

Reliable Germination and Quality

// Rigorously tested and meets U.S. Federal Seed Act requirements
// Free of seed-borne diseases
// Properly stored and conditioned

For a list of Bayer's trait patents go to cs.bayerpatents.bayer.com

For questions regarding seed intellectual property, or to anonymously report a saved seed tip, you can contact Bayer in the following ways:

1. Call 1-866-99-BAYER
2. Send a letter: Trait Stewardship, 622 Emerson Rd., Suite 150, Creve Coeur, MO 63141
3. Submit a contact request at cropscience.bayer.us/contact or scan the QR code

SIPA™ Seed Innovation & Protection Alliance

LIBERTY LINK

Roundup Ready 2 YIELD TECHNOLOGY

Bayer is a member of the Seed Innovation and Protection Alliance. Visit www.seedipalliance.com to learn more. SIPA™ is a trademark of the Seed Innovation and Protection Alliance.

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. 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.

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® 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.

Roundup Ready® Technology contains genes that confer tolerance to glyphosate. **Roundup Ready® 2 Technology** contains genes that confer tolerance to glyphosate. **Roundup Ready 2 Xtend® soybeans** contain genes that confer tolerance to glyphosate and dicamba. **Products with XtendFlex® Technology** contain 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.

Contact your Bayer retailer, refer to the Bayer Technology Use Guide, or call the technical support line at 1-888-283-6847 for recommended Roundup Ready® Xtend Crop System weed control programs.

Rev 01/2022

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

CROPLAN®

TECHNOLOGY

CORN INSECT RESISTANCE MANAGEMENT OVERVIEW[1]

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**

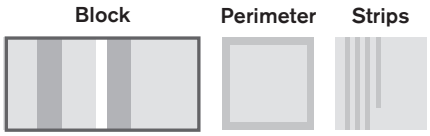
- 20% required for some B.t. products (20 acres of refuge for every 80 acres of B.t.)
- 5% only for SmartStax®, Trecepta® and VT Double PRO® (5 acres of refuge for every 95 acres of B.t.)

▸ **The Cotton-Growing Area**

- 20% only for SmartStax® and VT Double PRO® (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® or conventional corn are acceptable). Growers must read the IRM/Grower Guide for complete refuge planting requirements.

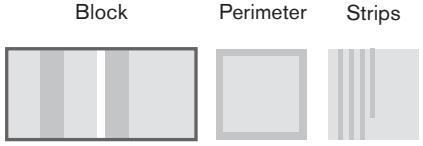
4 TREATMENT

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.

COMMON REFUGE CONFIGURATIONS

Traited corn hybrid[2] Refuge

▸ **In-Field Configuration Examples**



Minimum of four rows

▸ **Adjacent-Field Configuration Examples**

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

SEPARATE REFUGE CONFIGURATIONS

Corn borer and corn rootworm stacked hybrid

Corn rootworm refuge

Corn borer refuge

▸ **Block**

≤ 1/2 mile *≤ 1/2 mile*

▸ **Perimeter** ▸ **Strips**

≤ 1/2 mile *≤ 1/2 mile*

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.

TECHNOLOGY

REFUGE REQUIREMENTS FOR BIOTECH CORN PRODUCTS[1, 2]

	% NON-B.T. REFUGE	CONFIGURATIONS	REFUGE LOCATION
SMARTSTAX® RIB COMPLETE® CORN BLEND[3]	5% in the bag	—	No separate planted refuge is required
VT DOUBLE PRO® RIB COMPLETE® CORN BLEND[3]	5% in the bag	—	No separate planted refuge is required
DROUGHTGARD® HYBRIDS WITH VT DOUBLE PRO® RIB COMPLETE® CORN BLEND[3]	5% in the bag	—	No separate planted refuge is required
TRECEPTA® RIB COMPLETE® CORN BLEND	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® 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 PRO® field
AGRISURE® TOTAL	5% in the bag, 20% supplemental cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Agrisure® Total
VIPTERA™	5% in the bag 20% supplemental cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within, adjacent to or within 1/2 mile away from Viptera™ field
DURACADE™	5% in the bag 20% supplemental cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Duracade™ field
AGRISURE VIPTERA® 3111	20% corn- and cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Agrisure Viptera® 3111 field; if adjacent, may be separated by a road, path, ditch, etc., but not another field
AGRISURE® 3000GT	20% corn-growing areas; 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Agrisure® 3000GT field; if adjacent, may be separated by a road, path, ditch, etc., but not another field
HERCULEX® XTRA *INSECT PROTECTION*	20% corn-growing areas; 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Herculex® XTRA field; if adjacent, may be separated by a road, path, ditch, etc., but not another field
HERCULEX® I *INSECT PROTECTION*	20% corn-growing areas 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within, adjacent to or within 1/2 mile from Herculex® field

1. All refuge configurations require a minimum of four rows.
2. Provided as a summary only. Farmers must read the IRM/Grower Guide prior to planting.
3. SmartStax® RIB Complete®, Trecepta® RIB Complete, VT Double PRO® RIB Complete® and DroughtGard® Hybrids with VT Double PRO® RIB Complete® 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

EXCELLENCE THROUGH STEWARDSHIP

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. 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® (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® is a registered trademark of Excellence Through Stewardship.

Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). Corteva Agriscience products are commercialized in accordance with ETS product launch stewardship guidance Corteva Agrisciences 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.

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® 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® Technology contains genes that confer tolerance to glyphosate. **Roundup Ready® 2 Technology** contains genes that confer tolerance to glyphosate. **Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® 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® is a registered trademark of Dow AgroSciences LLC. Agrisure Viptera® is a registered trademark of a Syngenta group company. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. Acceleron®, DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design™, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready®, SmartStax®, Trecepta®, TruFlex™, VT Double PRO® and XtendFlex® are trademarks of Bayer Group.

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

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

Seeds containing the Enlist®, Herculex® and PowerCore® traits are protected under numerous US patents. Seeds containing patented traits can only be used to plant a single commercial crop and cannot be saved or replanted. You acknowledge and agree to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements detailed therein www.corteva.us/Resources/trait-stewardship.html). To plant Enlist, Herculex and PowerCore seed, you must have a limited license from Corteva Agriscience. In consideration of the foregoing, Corteva Agriscience grants to the Grower the limited license to use its technology to produce only a single commercial crop in the United States under the terms and conditions set forth in the Technology Use Agreement in effect at the time of planting of this seed.

ALWAYS READ AND FOLLOW HERBICIDE LABEL DIRECTIONS PRIOR TO USE: Enlist® products contain the Enlist trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring Colex-D® technology when applied according to label directions. Following burndown, the only 2,4-D containing herbicide products that may be used with Enlist™ crops are products that feature Colex-D technology and are expressly labeled for use on Enlist crops. 2,4-D products that do not contain Colex-D technology are not authorized for use in conjunction with Enlist products. Enlist corn contains genes that confer tolerance to 2,4-D and -fop herbicides. 2,4-D and -fop herbicides will damage or kill crops that are not tolerant to 2,4-D or -fops.

IRM - Properly managing trait technology is key to preserving it as a long-term crop protection tool.

Insect Resistance Management
Planting Refuges, Preserving Technology

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.

RESPECT THE REFUGE

Growers who fail to comply with 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 Bt technology, including refuge examples and important information on the use of insecticides on refuge and Bt corn acres, please consult appropriate Product Use Guide. Go to www.corteva.us/Resources/trait-stewardship.html to download the latest Corteva Agriscience Corn Product Use Guide.

Enlist E3® soybean seeds containing the Enlist® trait can only be used to plant a single commercial crop. It is unlawful to save and replant Enlist E3® soybeans. Additional information and limitations on the use of these products are provided in the Corteva Agriscience Technology Use Agreement and Enlist® Soybean Product Use Guide. U.S. patents for Corteva Agriscience technologies can be found at the following webpage: www.corteva.us/Resources/trait-stewardship.html.

Enlist Duo® and Enlist One® herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo and Enlist One are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled. Always read and follow label directions. Enlist E3® soybeans were jointly developed by Corteva Agriscience and MS Technologies, LLC. Enlist, Enlist E3, the Enlist E3 logo, and Colex-D are trademarks of Corteva Agriscience. PowerCore® multi-event technology developed by Corteva Agriscience and Monsanto. Roundup®, Roundup Ready®, Roundup Ready 2 Technology and Design, and PowerCore® are registered trademarks of Monsanto Technology LLC. Liberty Link® and the Water Droplet Design® are registered trademarks of BASF. Enlist® and Colex-D® are trademarks of Corteva Agriscience and its affiliated companies. Excellence Through Stewardship is a registered trademark of Excellence Through Stewardship.

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.

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® soybeans, Roundup Ready 2 Xtend® soybeans, XtendFlex® soybeans, Roundup Ready® spring canola, Roundup Ready® winter canola, and TruFlex® canola with Roundup Ready® Technology. Additional information and limitations on the use of these products are provided in the Technology Stewardship Agreement and the Bayer Technology Use Guide: tug.bayer.com. U.S. patents for Bayer technologies can be found at the following webpage: cs.bayerpatents.bayer.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.