



2022

SEED GUIDE

CORN



Let's leave status quo in the dust.

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

KEY TAKEAWAYS

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

RESPONSE-TO SCORES DELIVER RESULTS YOU CAN HARVEST¹

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

Response to Cont. Corn
15.1 BU/A

Range: 7.3 to 35.1 bu/A

Response to Population
8.6 BU/A

Range: 0.15 to 20.3 bu/A

Response to Nitrogen
66.9 BU/A

Range: 19.8 to 97.7 bu/A

Response to Fungicide
13.6 BU/A

Range: 3.9 to 25.3 bu/A
6-yr range

MAKE CONTINUOUS CORN COUNT²

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

- Matching hybrids to your cropping system will allow you to achieve optimal yield potential. Good management of residue, insects and disease in addition to vigilant scouting are all critical to sustaining an optimal corn-on-corn system.

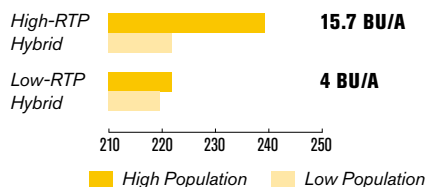
- For good emergence, plant corn at uniform depths and position stronger-emerging hybrids on continuous-corn fields with heavy residue.

► RTCC Average Response — 14.4 bu/A

TARGET POPULATIONS²

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

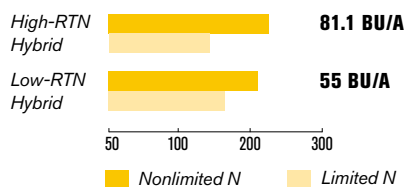
► RTP Yield Response Variance — 11.7 bu/A



LET NITROGEN NOURISH²

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

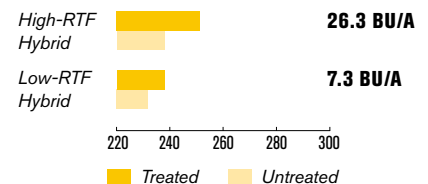
► RTN Yield Response Variance — 26.1 bu/A



LEVERAGE FUNGICIDES FOR PLANT HEALTH²

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

► RTF Yield Response Variance — 19 bu/A



TURN DATA INTO INSIGHTS

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

More Than
6 Million
Data Points³

20-Plus Years
of Answer Plot®
Expertise

Nationwide
Answer Plot®
Locations

Exceptional
Data Accuracy
(low LSDs)

1. Response ranges show the importance of how hybrids respond to each management practice to help ensure the highest yield potential. 2019 nationwide Answer Plot® data. Because of factors outside of WinField United's control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.
2. 2020 Answer Plot® trial data.
3. 1998–2020 Answer Plot® trial data.

CORN



CROPLAN® TRAIT LETTERING FOR CORN HYBRIDS

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

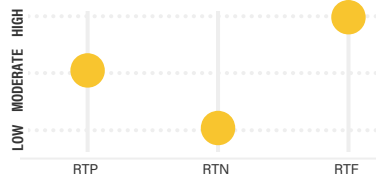
KEY	HYBRID	TRAIT	LOGO
SS	SmartStax®	YieldGard VT Rootworm, Herculex® RW, YieldGard VT PRO® Corn Borer and Herculex® protection, Roundup Ready® 2 Technology and LibertyLink®	
SS/RIB	SmartStax® RIB Complete® Corn Blend	5% RIB, YieldGard VT Rootworm, Herculex® RW, YieldGard VT PRO® Corn Borer and Herculex® protection, Roundup Ready® 2 Technology and LibertyLink®	
VT2P	VT Double PRO®	YieldGard VT PRO® Corn Borer protection, Roundup Ready® 2 Technology	
VT2P/RIB	VT Double PRO® RIB Complete® Corn Blend	5% RIB, YieldGard VT PRO® Corn Borer protection, Roundup Ready® 2 Technology	
RR	Roundup Ready® Corn 2	Roundup Ready® Corn 2	
DGVT2P	DroughtGard® VT Double PRO® Corn Blend	DroughtGard® YieldGard VT PRO® Corn Borer protection, Roundup Ready® 2 Technology	
DGVT2P/RIB	DroughtGard® VT Double PRO® RIB Complete® Corn Blend	5% RIB, DroughtGard® YieldGard VT PRO® Corn Borer protection, Roundup Ready® 2 Technology	
AS3000GT	Agrisure® 3000GT	Agrisure® Corn Borer and Rootworm protection, Glyphosate Tolerant and LibertyLink®	
AS3011A	Agrisure Artesian® 3011A	Agrisure Artesian® and Agrisure® Corn Borer, Rootworm, Glyphosate Tolerant and LibertyLink®	
AS3111	Agrisure Viptera® 3111	Agrisure® Corn Borer, Rootworm and Broad Lepidopteran protection, Glyphosate Tolerant and LibertyLink®	
GT	Agrisure® GT	Agrisure® Glyphosate Tolerant	
AS3122-EZ	Agrisure® 3122 E-Z Refuge®	Agrisure® E-Z Refuge®, Agrisure® Glyphosate Tolerant, Agrisure® Corn Borer and LibertyLink®, Agrisure® Rootworm Protection and Herculex® XTRA Insect Protection	
AS3220-EZ	Agrisure Viptera® 3220 E-Z Refuge®	Agrisure Viptera® E-Z Refuge®, Corn Borer, LibertyLink®, Glyphosate Tolerant and Herculex® 1 Insect Protection	
AS3220A-EZ	Agrisure Viptera® 3220A E-Z Refuge®	Agrisure Artesian®, Agrisure® Corn Borer, LibertyLink®, Glyphosate Tolerant and Herculex® 1 Insect Protection	

CROPLAN CP184RR

Relative Maturity: 80 Days



Response Scores



- Flint-dent hybrid for cool, northern maturity zones
- Medium-tall, aggressive-growing hybrid; excellent silage potential
- Large flex ear for wide adaptation to most soils and populations tested
- Silage-only product

Characteristics

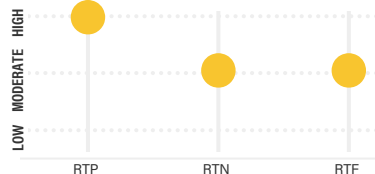
	Not Recommended			Excellent		
Seedling Vigor				2		
Drought Tolerance			3			
Root Strength				2		
Staygreen				2		
Stalk Quality			3			
Dry Down		4				
Test Weight						1

CROPLAN CP2123VT2P/RIB

Relative Maturity: 81 Days



Response Scores



- Consistent yield potential and excellent emergence
- Very early flowering product with fast drydown
- Mostly fixed, girthy ear with good tip fill
- Excellent moisture-stress tolerance in cool environments

Characteristics

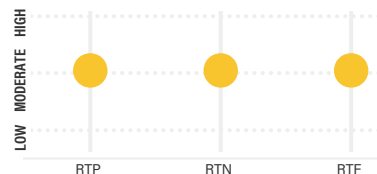
	Not Recommended			Excellent		
Seedling Vigor						1
Drought Tolerance			3			
Root Strength						1
Staygreen			3			
Stalk Quality						1
Dry Down						1
Test Weight				2		

CROPLAN CP2180VT2P/RIB

Relative Maturity: 81 Days



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

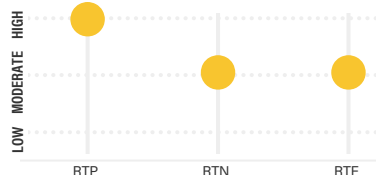
	Not Recommended			Excellent		
Seedling Vigor				2		
Drought Tolerance			3			
Root Strength				2		
Staygreen			3			
Stalk Quality				2		
Dry Down				2		
Test Weight			3			

CROPLAN CP2288VT2P/RIB

Relative Maturity: 82 Days



Response Scores



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

Characteristics

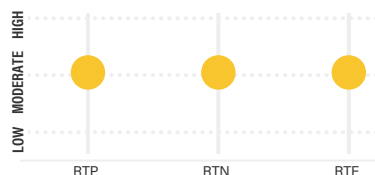
	Not Recommended			Excellent		
Seedling Vigor				2		
Drought Tolerance				2		
Root Strength						1
Staygreen				2		
Stalk Quality				2		
Dry Down				2		
Test Weight						1

CROPLAN CP2315VT2P/RIB

Relative Maturity: 83 Days



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

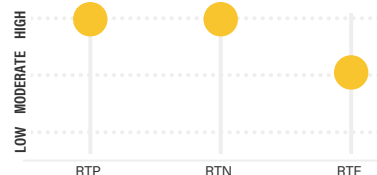
	Not Recommended			Excellent		
Seedling Vigor				2		
Drought Tolerance				2		
Root Strength				2		
Staygreen			3			
Stalk Quality						1
Dry Down						1
Test Weight			3			

CROPLAN CP2587VT2P/RIB

Relative Maturity: 85 Days



Response Scores



- Strong yield potential across multiple soil types and yield environments
- Strong staygreen and root strength ratings
- Optimize yield with high population and nitrogen management
- Fungicide application recommended for gray leaf spot control

Characteristics

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

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.



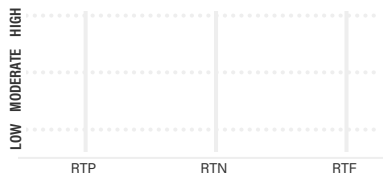
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

NEW

CROPLAN CP2585VT2P

WINFIELD UNITED

Relative Maturity: 85 Days

VTDoublePRO
BY COMPLETE**Response Scores - To Be Determined**

- Excellent consistency and high yield potential from West to East
- Strong emergence and improved yield potential compared to current line-up
- Great late-season intactness with a semi-flex ear
- Average Goss's tolerance, use caution in fields with high pressure

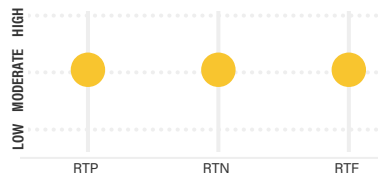
Characteristics

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

CROPLAN CP2520RR

WINFIELD UNITED

Relative Maturity: 86 Days

Roundup Ready 2**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

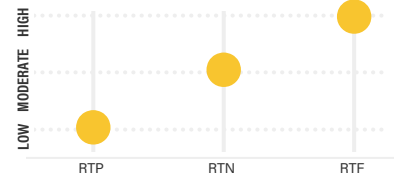
Characteristics

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

CROPLAN CP2790VT2P/RIB

WINFIELD UNITED

Relative Maturity: 87 Days

VTDoublePRO
BY COMPLETE**Response Scores**

- High-yielding 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

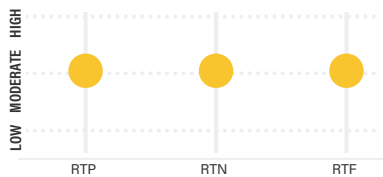
Characteristics

	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

WINFIELD UNITED

Relative Maturity: 88 Days

VTDoublePRO
BY 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

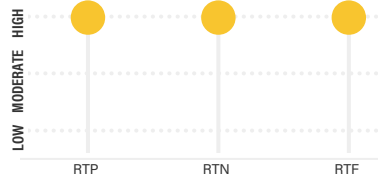
	Not Recommended			Excellent		
Seedling Vigor			3			
Drought Tolerance			3			
Root Strength				2		
Staygreen			3			
Stalk Quality				2		
Dry Down				2		
Test Weight				2		

CROPLAN CP2845SS/RIB

WINFIELD UNITED

[VTP2/RIB]*

Relative Maturity: 89 Days

SmartStax
BY 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

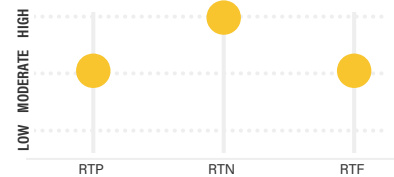
	Not Recommended			Excellent		
Seedling Vigor					1	
Drought Tolerance					1	
Root Strength					1	
Staygreen			3			
Stalk Quality				2		
Dry Down					1	
Test Weight			3			

CROPLAN CP2965VT2P/RIB

WINFIELD UNITED

[RR]

Relative Maturity: 89 Days

VTDoublePRO
BY 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		

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

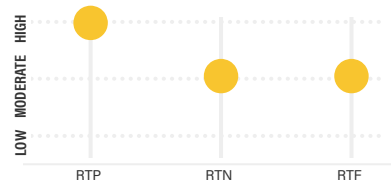


CP3166VT2P/RIB

Relative Maturity: 91 Days



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			

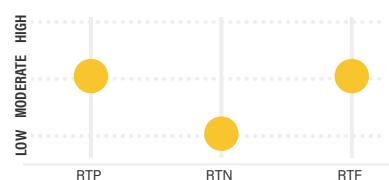


CP3314VT2P/RIB

Relative Maturity: 93 Days



Response Scores



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

Characteristics

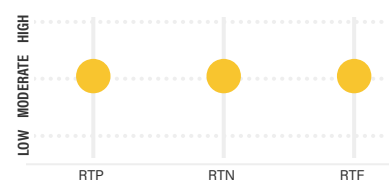
	Not Recommended			Excellent		
Seedling Vigor				2		
Drought Tolerance				2		
Root Strength				2		
Staygreen				2		
Stalk Quality				2		
Dry Down				2		
Test Weight				2		



CP3337VT2P/RIB

[RR]
Relative Maturity: 93 Days

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

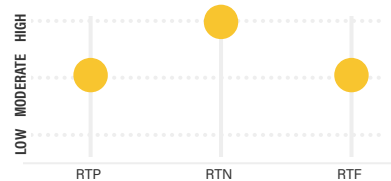
	Not Recommended			Excellent		
Seedling Vigor				2		
Drought Tolerance						1
Root Strength						1
Staygreen			3			
Stalk Quality			3			
Dry Down				2		
Test Weight				2		



CP3399SS/RIB

[VTP2/RIB]*
Relative Maturity: 94 Days

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

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

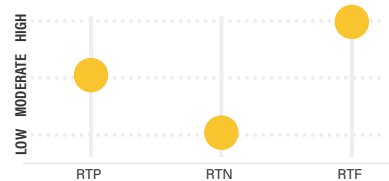


CP3490VT2P/RIB

Relative Maturity: 94 Days



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

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

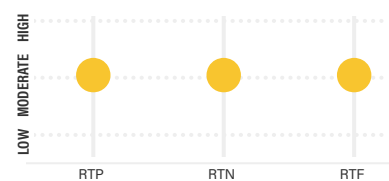


CP3499VT2P/RIB

Relative Maturity: 94 Days



Response Scores



- Excellent consistency in all yield environments from east to west
- Offers strong roots, stalks and staygreen
- Some ear flex, although great stress tolerance allows for higher planting populations
- Medium-short hybrid with medium-low ear placement

Characteristics

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

KEY

Scale
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5 = Not Recommended

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

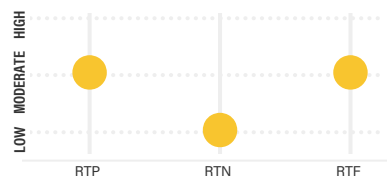


CP3533VT2P/RIB

Relative Maturity: 95 Days



Response Scores



- Excellent choice for light, droughty soils
- Defensive companion to the 99 series with excellent heat stress tolerance
- Moderate and low response scores allow for variable placement and management
- Use caution on heavy, sticky, poorly drained soils; not recommended for Goss's wilt acres

Characteristics

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



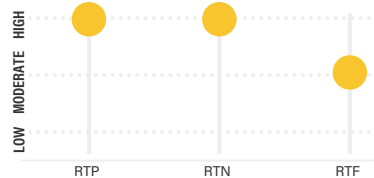
CP3575SS/RIB

[VTP2/RIB*, CONV]

Relative Maturity: 95 Days



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

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

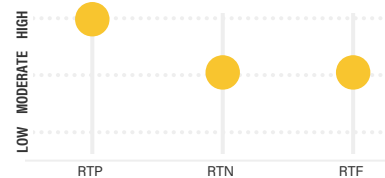


CP3614VT2P/RIB

Relative Maturity: 96 Days



Response Scores



- Tough-acre product ideal for low- to medium-yield environments
- Excellent roots and late-season intactness with strong test weight
- High response-to-population; also handles variable populations well
- Limited capability in high-yield environments

Characteristics

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

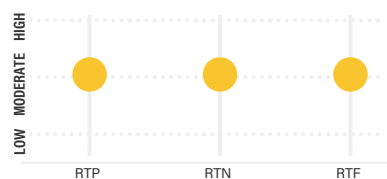


CP3699RR

Relative Maturity: 96 Days



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

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

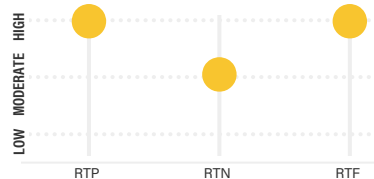


CP3705SS/RIB

Relative Maturity: 97 Days



Response Scores



- Excels in both high- and moderate-yield environments
- Handles stress well; excellent stalks and strong seedling vigor
- High response-to-population and fungicide; able to handle corn-on-corn acres

Characteristics

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



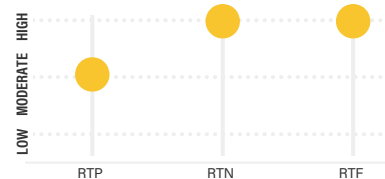
CP3735SS/RIB

[VTP2/RIB]*

Relative Maturity: 97 Days



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	

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.

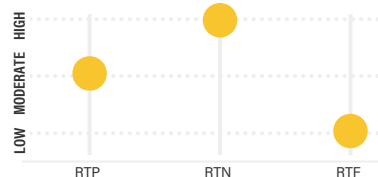


CP3795VT2P/RIB

Relative Maturity: 97 Days



Response Scores



- Excellent consistency in all yield environments from east to west
- Improved Goss's wilt tolerance over 3899; strong stalks, roots and seedling vigor
- Optimize yield with enhanced nitrogen management
- Fast-die/fast-dry hybrid with an ear and a stick look late

Characteristics

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

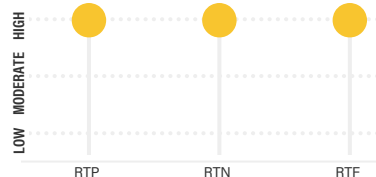


CP3899VT2P/RIB

Relative Maturity: 98 Days



Response Scores



- Consistent high-yield performance 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		



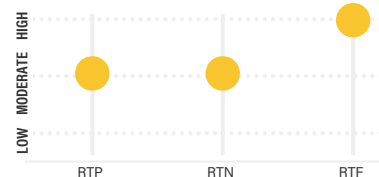
CP3909SS/RIB

[VTP2/RIB]*

Relative Maturity: 99 Days



Response Scores



- Stable yield potential across multiple environments; excellent hot-year response
- Early-flowering hybrid with excellent drydown; strong roots and stalks
- Performs well on moderately managed acres with high response-to-fungicide
- Manage on acres with heavy Goss's wilt pressure

Characteristics

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

NEW

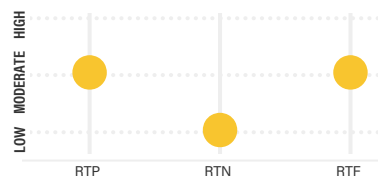


CP3980VT2P/RIB

Relative Maturity: 99 Days



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			

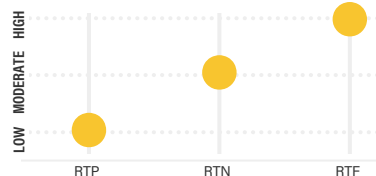


CP4020VT2P/RIB

Relative Maturity: 100 Days



Response Scores



- Tough-acre hybrid well-adapted to stressful growing conditions
- Large fibrous root system on medium-height plant
- Flex ear allows a variety of population options
- Not recommended for high-yield environments

Characteristics

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



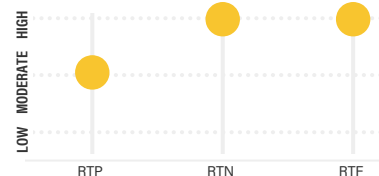
CP4079SS/RIB

[VTP2/RIB]*

Relative Maturity: 100 Days



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

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5 = Not Recommended

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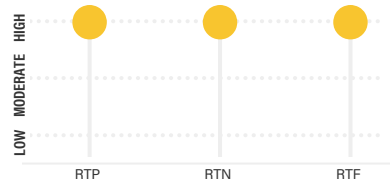
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP4099SS/RIB

Relative Maturity: 100 Days



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			

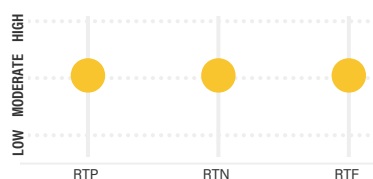
CROPLAN CP4188SS/RIB

[VTP2/RIB]*, CONV]

Relative Maturity: 101 Days



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				2		
Dry Down			3			
Test Weight					1	

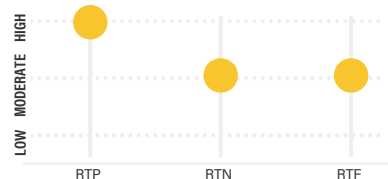
CROPLAN CP4199SS/RIB

[VTP2/RIB]*

Relative Maturity: 101 Days



Response Scores



- Versatile product performs well in all yield environments
- Excellent stalks, roots, drought tolerance and seedling vigor with strong stress tolerance
- Responds to higher populations; has ability to flex in length
- Manage on acres with heavy Goss's wilt pressure

Characteristics

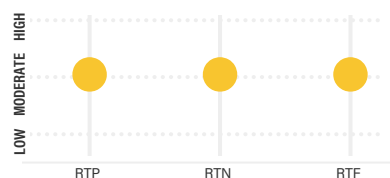
	Not Recommended			Excellent		
Seedling Vigor					1	
Drought Tolerance					1	
Root Strength					1	
Staygreen			3			
Stalk Quality					1	
Dry Down			3			
Test Weight			3			

CROPLAN CP5146SS/RIB

Relative Maturity: 101 Days



Response Scores



- Well-adapted across soil types; handles stress and maintains high yield potential
- Medium-height plant with solid agronomics
- Moderate response scores for flexible placement and management
- Manage for gray leaf spot

Characteristics

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

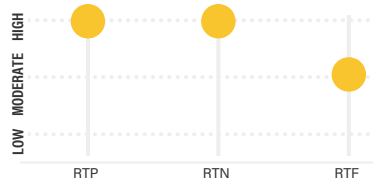
CROPLAN CP4203SS/RIB

[VTP2/RIB]*

Relative Maturity: 102 Days



Response Scores



- Widely adapted from central U.S. to the West
- Tolerates heat well; excellent greensnap tolerance
- Works well across all yield environments
- Fungicide is recommended when planted in a continuous-corn rotation

Characteristics

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

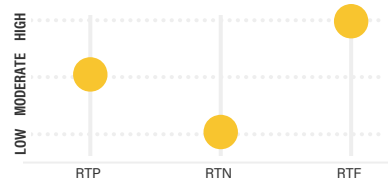
CROPLAN CP4242SS/RIB

[VTP2/RIB]*

Relative Maturity: 102 Days



Response Scores



- Excellent consistency from east to west
- Solid agronomics with acceptable staygreen; strong stalks, roots and Goss's wilt tolerance
- Has nice ear flex for low to medium densities
- Ear and stick look late; strong stalks maintain standability

Characteristics

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

KEY

Scale

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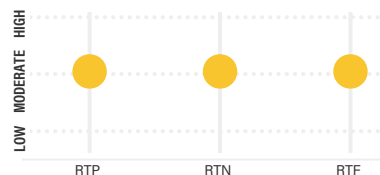


CP4265VT2P/RIB

Relative Maturity: 102 Days



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			



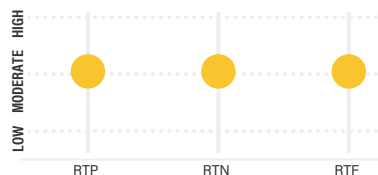
CP4350SS/RIB

[DGVTP2/RIB]*

Relative Maturity: 102 Days



Response Scores



- Versatile hybrid moves across yield environments and soil types
- Excellent roots, solid Goss's wilt and stress tolerance on medium-short plant
- Moderate response-to-scores for flexible populations, placement and management
- Doesn't move south well; best-positioned in 100RM zone and north

Characteristics

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

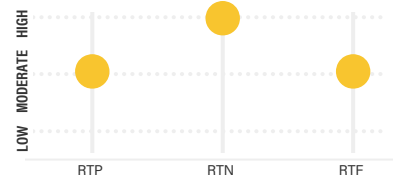


CP4819AS3000GT

Relative Maturity: 103 Days



Response Scores



- Excellent silage product
- Tall plant with medium ear placement and solid agronomics
- Highly responsive to increased nitrogen fertility and fungicide application

Characteristics

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

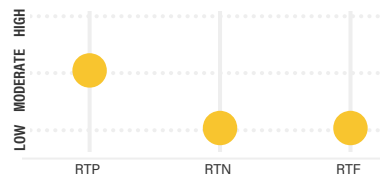


CP4822VT2P/RIB

Relative Maturity: 103 Days



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			

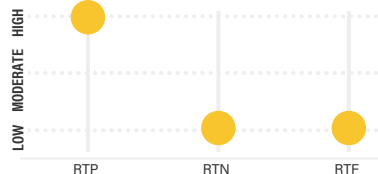


CP4444VT2P/RIB

Relative Maturity: 104 Days



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			



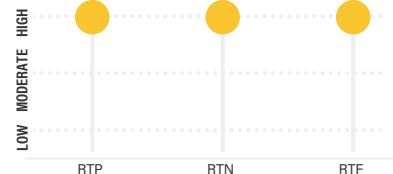
CP4488SS/RIB

[VT2P/RIB]*

Relative Maturity: 104 Days



Response Scores



- Exceptional yield potential best-positioned in high-yield environments
- Solid roots and Goss's wilt tolerance
- High response-to-population, nitrogen and fungicide; well-adapted to corn-on-corn acres
- Tall hybrid with acceptable stalks

Characteristics

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

KEY

Scale

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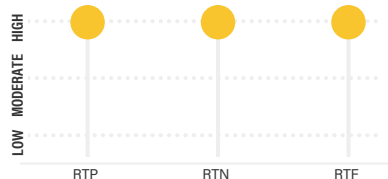
CP4549SS/RIB

[VTP2/RIB*]

Relative Maturity: 105 Days



Response Scores



- Handles stress well with ability to move across yield environments
- Tall plant with solid test weight and Goss's wilt tolerance
- Manage with nitrogen and fungicide; ear flexes to handle variable populations
- Acceptable staygreen, best if kept in rotation

Characteristics

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

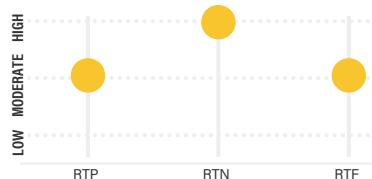


CP4676SS/RIB

Relative Maturity: 106 Days



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					1	
Stalk Quality			3			
Dry Down					1	
Test Weight					1	

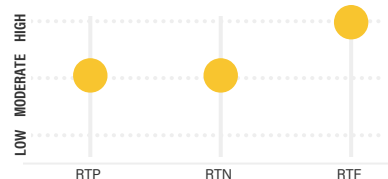


CP4644DGV2P/RIB

Relative Maturity: 106 Days



Response Scores



- Solid performance across multiple soil types; keep in RM zone
- Excellent emergence and seedling vigor; solid disease package
- Responds to additional management; ear flexes to handle variable populations
- Best-suited for rotation; fungicide application recommended for late-season stalk quality

Characteristics

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

NEW

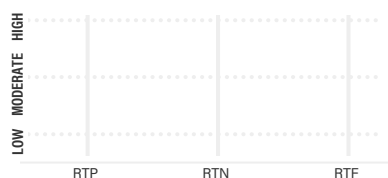


CP4757VT2P

Relative Maturity: 107 Days



Response Scores - To Be Determined



- Stable hybrid best suited for the Central and Eastern corn belt
- Excellent yield potential combined with strong drought tolerance
- Semi-determinate ear requires moderate to moderately-high populations
- Average Goss's tolerance, use caution in fields with high pressure

Characteristics

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



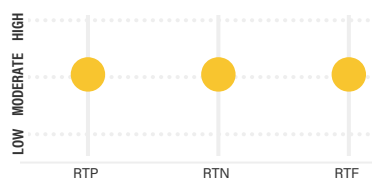
CP4791AS3111

[ASGT]

Relative Maturity: 107 Days



Response Scores



- Solid hybrid moves across yield environments and soil types; moves south of 110RM zone well; dual-purpose option
- Medium-tall plant with outstanding late-season intactness
- Strong ear flex; can handle variable populations; moderate response-to-fungicide
- Best-suited for rotated acres

Characteristics

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



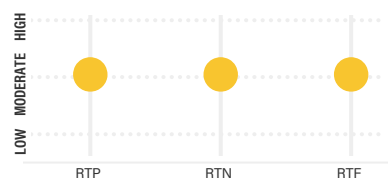
CP4895SS/RIB

[VTP2/RIB*]

Relative Maturity: 108 Days



Response Scores



- Consistent performance in medium soils
- Medium-height plant with solid agronomics and disease package
- High-yield-potential, especially at medium-to-high plant populations
- Not a "plant first" hybrid to ensure optimum emergence

Characteristics

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

KEY

Scale

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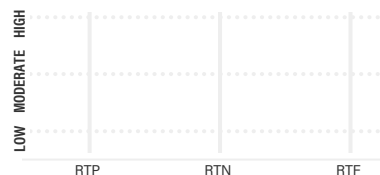


CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

NEW

**CP4880SS**

Relative Maturity: 108 Days

**Response Scores - To Be Determined**

- Broadly adapted hybrid with high yield potential
- Strong roots and great late-season intactness
- Semi-flex ear allows for flexible populations for differing yield environments
- Manage Gray Leaf Spot and Northern Corn Leaf Blight with fungicide

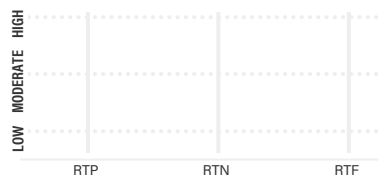
Characteristics

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

NEW

**CP4930DGV2P/RIB**

Relative Maturity: 109 Days

**Response Scores - To Be Determined**

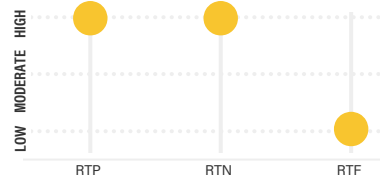
- Strong western adaptation with good Goss's wilt and strong greensnap tolerance
- Exceptional top end yield potential
- Plant at moderate populations due to semi-flex ear
- Recommend a fungicide application in areas with high disease pressure

Characteristics

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

**CP4997VT2P/RIB**

Relative Maturity: 109 Days

**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

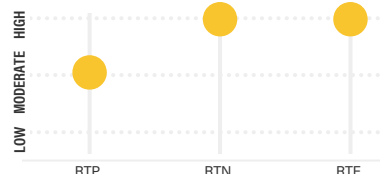
Characteristics

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

**CP5073SS/RIB**

[VTP2/RIB]*

Relative Maturity: 110 Days

**Response Scores**

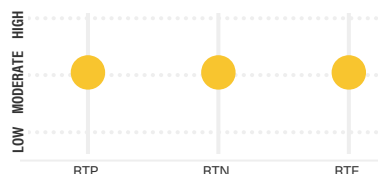
- Best performance on medium to highly productive acres
- Strong early plant vigor for reduced tillage and early planting
- Has nice flex for moderate densities; high response-to-nitrogen
- Utilize fungicide to enhance late-season health

Characteristics

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

**CP6110VT2P/RIB**

Relative Maturity: 110 Days

**Response Scores**

- Best-suited for moderate-to low-yield environments
- Medium-height plant with above-average staygreen
- Best-positioned at moderate plant populations; doesn't flex in length
- Manage stalk quality with medium-low seeding rate

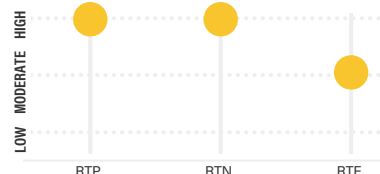
Characteristics

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

**CP5115SS/RIB**

[VTP2/RIB]*

Relative Maturity: 111 Days

**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

KEY

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NEW

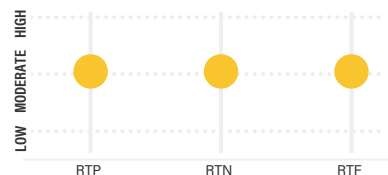


CP5210SS/RIB

Relative Maturity: 112 Days



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			

NEW

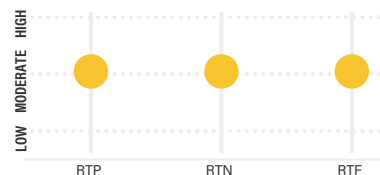


CP5244VT2P/RIB

Relative Maturity: 112 Days



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			

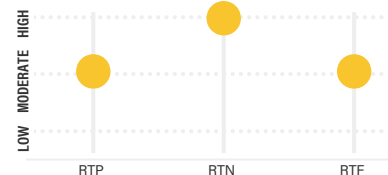


CP5252VT2P/RIB

Relative Maturity: 112 Days



Response Scores



- Consistent hybrid across a wide range of soil types and environments
- Medium-height plant with excellent staygreen and solid agronomic package
- Strong ear flex; plant at moderate to low densities; suitable for corn-on-corn acres
- Acceptable disease package; manage with fungicide application

Characteristics

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

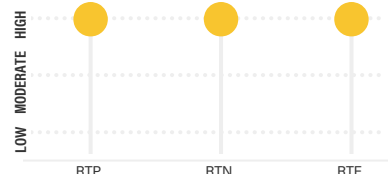


CP5277AS3220-EZ

Relative Maturity: 112 Days



Response Scores



- Excellent agronomics; consistent product performance east to west
- Medium-tall plant with medium-high ear set
- High response-to-population score
- Enhanced fertility and fungicide application recommended

Characteristics

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



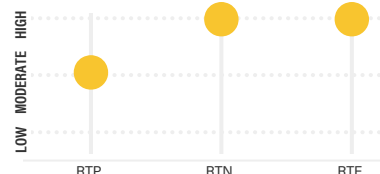
CP5290SS/RIB

[DGVTP2/RIB*, CONV]

Relative Maturity: 112 Days



Response Scores



- Versatile hybrid allows for range of populations and yield environments; dual-purpose option
- Long, slender ear with good tip fill and excellent test weight
- Optimize yield potential with nitrogen management and moderate populations
- High response-to-fungicide; timely harvest is recommended

Characteristics

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



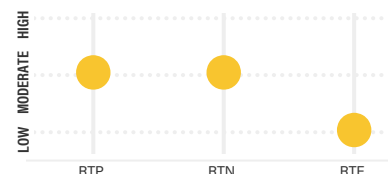
CP5340VT2P

[CONV]

Relative Maturity: 113 Days



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						
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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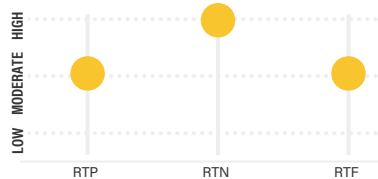


CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP5335SS/RIB

[VTP2/RIB]*

Relative Maturity: 113 Days

**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

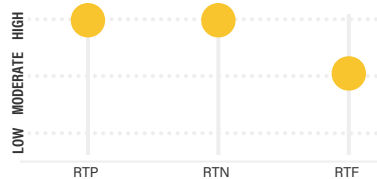
Characteristics

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

CROPLAN CP5370SS/RIB

[VTP2/RIB]*

Relative Maturity: 113 Days

**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

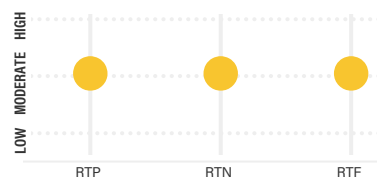
Characteristics

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

CROPLAN CP6594SS/RIB

[VTP2/RIB]*

Relative Maturity: 113 Days

**Response Scores**

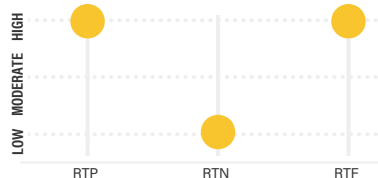
- Widely adapted east to west with excellent heat tolerance and high-yield-potential
- Solid agronomics; excellent stalks and roots; acceptable Goss's wilt tolerance
- Moderate response-to-nitrogen and population scores
- Take advantage of fast drydown at harvest; keep in 110RM zones

Characteristics

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

NEW**CROPLAN CP5497VT2P/RIB**

Relative Maturity: 114 Days

**Response Scores**

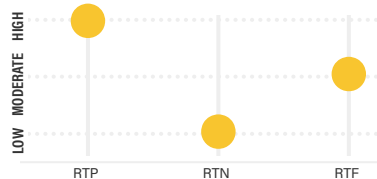
- Widely adapted east to west across multiple soil types and yield levels
- Strong roots and drought tolerance with excellent test weight
- Semi-flex ear and high response-to-population score allow positioning across yield environments
- Manage fields with history of Anthracnose and Southern rust

Characteristics

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

CROPLAN CP6818 CONV

Relative Maturity: 114 Days

Response Scores

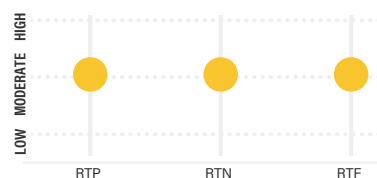
- Conventional hybrid widely adapted across yield environments; excellent silage option
- Excellent roots, stalks and vigor with exceptional ability to silk and kernel fill under stress
- Great option for continuous-corn; semi-fixed ear that performs best at moderate-to-high plant densities

Characteristics

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

CROPLAN CP5550VT2P/RIB

Relative Maturity: 115 Days

**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				2		
Drought Tolerance				2		
Root Strength				2		
Staygreen				2		
Stalk Quality				2		
Dry Down				2		
Test Weight				2		

KEY

Scale

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

NEW

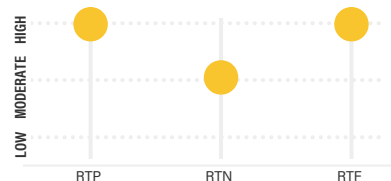


CP5570VT2P/RIB

Relative Maturity: 115 Days



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			

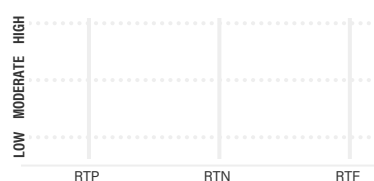


CP5588DGV2P/RIB

Relative Maturity: 115 Days



Response Scores - To Be Determined



- 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			



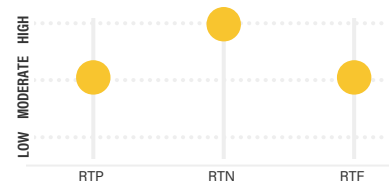
CP5678SS/RIB

[VTP2/RIB]*

Relative Maturity: 116 Days



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

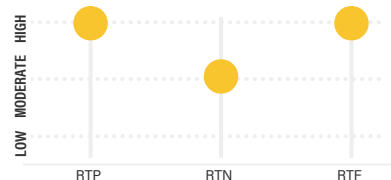


CP5789VT2P/RIB

Relative Maturity: 117 Days



Response Scores



- Versatile hybrid with strong stress tolerance; best-suited for narrow or twin rows
- Tall plant with excellent stalks, roots, staygreen and test weight; great dual-purpose option
- Position at medium-to-high populations; moderate response-to-nitrogen score
- Fungicide application recommended

Characteristics

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

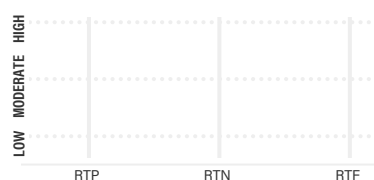


CP5760TRE

Relative Maturity: 117 Days



Response Scores - To Be Determined



- Best performance on average to highly productive soils
- Trecepta® trait for ear feeding pests including Western Bean Cutworm
- Semi-flex ear allows for flexible populations for differing yield environments
- Manage nitrogen to maximize yield potential

Characteristics

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

NEW

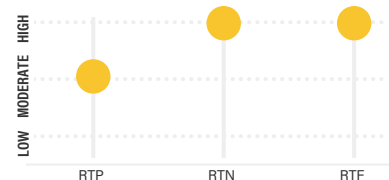


CP5814SS/RIB

Relative Maturity: 118 Days



Response Scores



- Broadly adapted; medium-early flower date for flexibility in moving north and south
- Medium-height plant; strong roots and stalks; excellent staygreen
- Semi-flex ear; highly responsive to enhanced nitrogen management
- Fungicide recommended in areas with heavy gray leaf spot pressure

Characteristics

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

KEY

Scale

1 = Excellent

2 = Strong

3 = Acceptable

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5 = Not Recommended

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

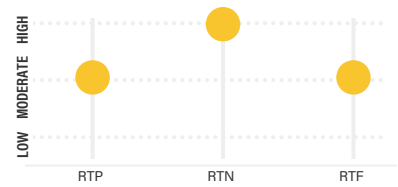


CP6027VT2P/RIB

Relative Maturity: 120 Days



Response Scores



- Broad southern adaptability east to west; excellent silage potential
- Medium-tall plant with strong stalks, staygreen and seedling vigor
- Performs best at medium to medium-high populations
- Manage nitrogen for top-end yield potential; fungicide recommended on gray leaf spot areas

Characteristics

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

KEY

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



CORN



Response to Nitrogen (RTN) **1**
Response to Fungicide (RTF) **1**
Response to Mitogen (RMP) **1**
Relative Maturity
Response to Mid-pollination**
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
Staygreen **6**
Drought Tolerance
Test Weight
Gray Leaf Spot
NCLB
SCLB
Common Rust
Anthracnose Stalk Rot
Blossom Wilt
Diplodia Ear Rot

BRAND

RM: 80-89

CP184RR	80	M	L	H	H	2000	1040	E	M-T	M	PINK	FL	16-18	2	3	2	2	4	3	1	N/A	3	N/A	3	5	N/A	N/A	
CP2123VT2P/RB*	81	H	M	H	M	2010	1060	E	M-T	M-L	RED	FL	14-18	1	1	1	3	1	3	2	N/A	3	N/A	3	4	N/A	N/A	
CP2180VT2P/RB*	81	M	M	M	M	2025	1070	M-E	M	M	RED	SD	18-20	2	2	2	3	2	3	3	N/A	2	N/A	N/A	3	N/A	N/A	
CP2288VT2P/RB*	82	H	M	M	M	2065	1090	M	M	M	RED	SF	16-18	2	2	1	2	2	2	1	N/A	2	N/A	N/A	2	3	N/A	N/A
CP2330VT2P/RB*	83	H	M	M	H	2075	1100	M	M	M	RED	SF	16-18	2	3	2	3	2	1	3	N/A	N/A	N/A	2	4	4	N/A	N/A
CP2315VT2P/RB*	83	M	M	M	M	2075	1080	E	M-T	M	RED	SF	18-20	2	3	2	3	2	2	3	3	N/A	2	3	4	N/A	N/A	
CP2587VT2P/RB*	85	H	H	H	M	2125	1120	M	M-T	M	RED	SF	16-18	3	3	2	2	2	3	2	4	3	N/A	3	3	3	N/A	N/A
CP2520RR	86	M	M	M	M	2190	1160	L	M-T	M	RED	FL	16-20	3	3	1	3	2	1	3	3	N/A	3	4	N/A	N/A	N/A	
CP2190VT2P/RB*	87	L	M	M	H	2175	1130	E	M	M	RED	SF	16-18	1	3	2	3	2	1	2	3	2	2	N/A	4	3	N/A	2
CP2851VT2P/RB*	88	M	M	L	M	2200	1160	M	M	M	RED	SD	16-18	3	2	2	3	2	3	2	3	3	3	N/A	3	3	N/A	N/A
CP2845SS/RB*	89	H	H	L	H	2210	1150	E	M-T	M	RED	SF	16-18	1	2	1	3	1	1	3	N/A	3	N/A	3	4	4	N/A	N/A
CP2965VT2P/RB*	89	M	H	L	M	2235	1180	M-L	M	M	RED	SF	14-16	1	1	2	3	2	2	2	3	3	1	N/A	3	2	N/A	N/A

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- 5 = Not Recommended

1 RTP/RTN/RTCC/RTF Ratings

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

2 Plant Height

T = Tall
M = Medium
S = Short

3 Ear Height

H = High
M = Medium
L = Low

4 Ear Flex

FL = Flex
SF = Semi-flex
FX = Fixed

5 Flower Date

L = Late
M = Medium
E = Early

6 Staygreen

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

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 RIM guidelines and refuge configurations to preserve the benefits and insect protection of these technology crops.

**GDUs published for each product are an estimate and the actual GDUs in a given year/location can vary based upon environmental factors.



CORN



by UNITED

Response to Fungicide [RTF] **1**
Response to Mitogen [RTM] **1**
Response to continuous corn [RTCC] **1**
Relative Maturity **1**
GDU to Mid-pollination** **1**
GDU to Maturity** **1**
Flower Date **5**
Plant Height **2**
Ear Height **3**
Cob Color **3**
Ear Flex **4**
Kernel Rows **4**
Seedling Vigor **4**
Stalk Quality **4**
Root Strength **4**
Staygreen **6**
Drought Tolerance **6**
Test Weight **6**
Gray Leaf Spot **6**
NCLB **6**
SCLB **6**
Common Rust **6**
Anthracnose Stalk Rot **6**
Bloss- & Wil **6**
Phytophthora Node Breakage **6**
Diplodia Ear Rot **6**

BRAND

RM: 91-99

NEW	CP3166VT2P/RIB*	91	H	M	M	M	2285	1180	E	M	M	RED	SF	16-18	2	3	3	2	2	3	3	3	N/A	N/A	3	2	N/A	N/A
	CP3314VT2P/RIB*	93	M	L	M	M	2330	1210	M	M	M	RED	FL	16-18	2	2	2	2	2	2	3	3	N/A	3	4	N/A	N/A	
	CP3337VT2P/RIB*	93	M	M	L	M	2310	1190	E	M	M	RED	FL	16-18	2	3	1	3	2	1	2	4	2	4	2	5	3	N/A
NEW	CP3399SS/RIB*	94	M	H	M	M	2350	1220	M	M	M	RED	SF	16-18	2	2	2	2	2	2	3	3	N/A	3	4	3	N/A	N/A
	CP3490VT2P/RIB*	94	M	L	M	H	2360	1230	M-L	M-T	M-H	RED	SF	18-20	1	3	3	3	2	3	3	3	N/A	3	3	N/A	N/A	
	CP3499VT2P/RIB*	94	M	M	M	M	2370	1240	L	M-S	M-L	RED	SF	16-18	1	2	2	2	3	2	3	3	N/A	3	3	N/A	N/A	
NEW	CP3533VT2P/RIB*	95	M	L	L	M	2375	1230	M	M	M	RED	FL	16-18	2	3	1	3	2	1	2	N/A	3	5	N/A	N/A	N/A	
	CP3575SS/RIB*	95	H	H	M	M	2360	1240	M-L	M	M	RED	SF	16-18	2	2	2	2	3	1	3	2	N/A	N/A	4	1	N/A	N/A
	CP3614VT2P/RIB*	96	H	M	L	M	2400	1240	M	M	M	RED	SF	16-18	1	3	1	3	2	3	2	N/A	N/A	3	3	N/A	N/A	
NEW	CP3699RR	96	M	M	M	M	2400	1240	M	M-T	M-H	RED	SF	16-18	1	1	1	3	3	2	2	3	3	N/A	3	3	N/A	N/A
	CP3705SS/RIB*	97	H	M	M	H	2425	1240	M-E	M-T	M	RED	SF	16-18	2	1	3	3	3	2	3	3	N/A	N/A	3	N/A	N/A	
	CP3735SS/RIB*	97	M	H	M	H	2425	1250	M	M	M	RED	SD	16-18	1	2	2	2	3	1	3	3	N/A	N/A	3	3	N/A	
NEW	CP3795VT2P/RIB*	97	M	H	M	L	2440	1270	M-L	M-T	M-H	RED	SF	16-18	2	2	2	3	1	1	2	3	2	2	N/A	2	N/A	N/A
	CP3899VT2P/RIB*	98	H	H	M	H	2450	1280	L	M-T	M-H	PINK	SF	16-20	1	2	2	2	3	2	2	4	4	N/A	3	3	N/A	N/A
	CP3909SS/RIB*	99	M	M	H	H	2475	1250	E	M	M	RED	SF	16-18	2	2	2	3	1	2	3	3	3	N/A	1	4	N/A	N/A
NEW	CP3909VT2P/RIB*	99	M	L	L	M	2475	1270	M	M-T	M-H	RED	SF	14-16	2	3	1	3	2	3	3	2	N/A	N/A	3	3	4	3

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- M = Medium
- S = Short

3 Ear Height

- H = High
- M = Medium
- L = Low

4 Ear Flex

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

6 Staygreen

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

5 Flower Date

- L = Late
- M = Medium
- E = Early

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

**GDUs published for each product are an estimate and the actual GDUs in a given year/location can vary based upon environmental factors.



CROPLAN
by WINFIELD UNITED

[illegible]

KEY

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Scale

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

1 RTP/RTN/RTCC/RTF Ratings

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

2 Plant Height

- T = Tall
M = Medium
S = Short

4 Ear Flex

- FL** = Flex
SF = Semi-flex
FX = Fixed

6 Staygreen

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

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.

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	BRAND
Physoderma Node Breakage	
Goss's Wil	
Anthraxnose Stalk Rot	
Common Rust	
SCLB	
NCLB	
Gray Leaf Spot	
Tass Weight	
Drought Tolerance	
Drydown	
Staygreen	6
Root Strength	
Stalk Quality	
Seedling Vigor	
Kernel Rows	
Ear Flex	4
Cob Color	
Ear Height	3
Plant Height	7
Flower Date	9
GOU to Mid-pollination**	
GOU to Maturity	1
GOU to Fungicide [RTF]	1
Response to Continuous Corn [RTC3]	1
Response to Nitrogen [RNM]	1
Population [RP]	1
Relative Maturity	1

CP4549SS/R/B*	105	H	H	L	H	2560	1300	M-E	T	M-H	RED	SF	16-18	1	3	2	3	2	2	3	2	2	N/A	2	3	N/A	N/A
CP4676SS/R/B*	106	M	H	H	M	2650	1310	M	M	M	PINK	SF	16-18	1	3	3	1	1	3	1	3	2	N/A	3	1	N/A	2
CP4646dvT2P/R/B*	106	M	M	L	H	2640	1320	M	M-T	M	RED	SF	16-18	1	3	3	3	3	3	3	3	N/A	2	3	N/A	N/A	
CP4791AS3111	107	M	M	L	M	2675	1320	M	M-T	M	PINK	SF	16-18	3	2	2	3	3	2	3	2	3	2	N/A	N/A		
CP4893SS/R/B*	108	M	M	L	M	2700	1330	M	M	M-L	PINK	SF	16-18	4	2	1	3	2	3	3	1	2	4	2	N/A	3	
CP4930dvT2P/R/B*	109	TBD	TBD	TBD	TBD	2725	1330	M	M-T	M-H	RED	SF	14-16	3	3	3	3	2	3	3	3	2	N/A	2	3	N/A	
CP4997vT2P/R/B*	109	H	H	L	L	2725	1330	M	T	M-H	RED	SF	16-18	2	2	2	2	2	2	3	2	3	2	2	3	2	
CP5073SS/R/B*	110	M	H	H	H	2730	1340	M	M	M-H	RED	SF	16-18	1	3	2	2	2	3	3	2	1	N/A	3	3	N/A	
CP6110vT2P/R/B*	110	M	M	M	M	2750	1340	M	M	M	RED	SF	16-18	2	3	1	2	3	1	3	4	2	4	3	3	N/A	3
CP5115SS/R/B*	111	H	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	N/A	4	3	5

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CORN



BRAND

RM: 112-120

NEW	CP5210SS/RIB*	112	M	M	M	M	2790	1340	M	M-T	M-H	RED	SF	16-18	1	3	3	3	3	3	2	2	N/A	2	3	3	N/A
NEW	CP5244VT2P/RIB*	112	M	M	L	M	2800	1360	M-L	M-T	M-H	RED	SF	16-18	2	3	2	3	2	2	3	2	N/A	3	3	3	
	CP5252VT2P/RIB*	112	M	H	M	M	2800	1350	M	M	M	RED	SF	14-18	2	2	2	1	2	2	2	3	3	3	N/A	N/A	
	CP5277AS3220-EZ*	112	H	H	L	H	2800	1330	E	M-T	M-H	WHITE	SF	14-16	2	2	1	2	2	2	3	2	2	2	N/A	N/A	
	CP5290SS/RIB*	112	M	H	M	M	2800	1350	M	M	M	RED	SF	14-16	1	3	3	3	3	1	2	3	3	1	3	N/A	
	CP5340VT2P	113	M	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
	CP5335SS/RIB*	113	M	H	M	M	2820	1350	M	M-T	M	PINK	SF	16-18	2	1	2	2	2	1	3	2	2	N/A	2	2	N/A
	CP5370SS/RIB*	113	H	H	L	M	2830	1370	M	T	M-H	PINK	SF	18-20	1	1	1	3	2	2	1	3	2	2	3	4	2
	CP6394SS/RIB*	113	M	M	H	M	2810	1350	M	M	M	RED	SF	16-18	2	1	1	2	2	2	2	3	3	2	2	3	N/A
NEW	CP5497VT2P/RIB*	114	H	L	L	H	2850	1350	M-E	M-T	M	RED	SF	14-16	2	3	2	2	2	1	2	3	2	N/A	3	3	N/A
	CP6818 CONV	114	H	L	H	M	2850	1360	M	M	M	RED	SF	16-18	1	1	1	2	3	1	1	2	2	2	3	N/A	N/A
	CP5550VT2P/RIB*	115	M	M	L	M	2850	1360	M	M-T	M-H	PINK	SF	14-16	2	2	2	2	2	2	3	3	2	N/A	3	1	N/A
	CP5570VT2P/RIB*	115	H	M	M	H	2875	1360	M	M	M	RED	SF	16-18	3	2	2	2	3	2	3	3	3	2	N/A	3	N/A
NEW	CP55806VT2P/RIB*	115	TBD	TBD	TBD	2875	1360	M	M-T	M-H	RED	SD	16-18	2	2	2	2	2	3	3	3	3	2	N/A	3	3	5
	CP5678SS/RIB*	116	M	H	M	M	2900	1360	M	M	M	RED	SF	14-16	2	2	3	3	3	2	1	3	2	2	N/A	3	3
	CP5789VT2P/RIB*	117	H	M	M	H	2925	1370	M	T	M-H	RED	SF	16-18	2	1	1	1	3	2	1	3	1	2	N/A	4	3
	CP5814SS/RIB*	118	M	H	M	M	2950	1360	M-E	M	M	RED	SF	16-18	2	2	2	1	2	4	1	4	2	N/A	3	2	N/A
	CP6027VT2P/RIB*	120	M	H	M	M	3000	1380	M	M-T	M-H	RED	SF	16-18	2	2	2	2	3	4	2	4	1	2	N/A	2	3

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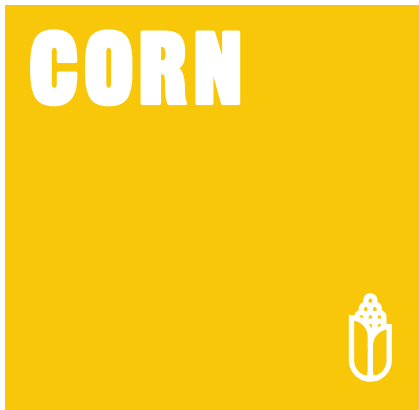
3 Ear Height

- H = High
M = Medium
L = Low

5 Flower Date

- L = Late
M = Medium
E = Early

*Follow R1M guidelines and refuge configurations to preserve the benefits and insect protection of these technology crops.



Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

SOYBEAN

1 of 2



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

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

KEY TAKEAWAYS

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

MANAGE WEEDS WITH TRAIT TECHNOLOGY

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



SOYBEAN HERBICIDE TOLERANCE AND WEED CONTROL

Weed control in soybeans starts with seed selection. With several herbicide-tolerant traits now available and more on the way with full commercial approval, the number of tools in the toolbox is increasing. But as you face hard-to-control weeds, creating a plan for season-long weed management is critical. The chart outlines CROPLAN® soybean herbicide-tolerant varieties available today. These traits offer some great postemergence options.

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

REDUCE RISK WITH WINPAK® SOYBEAN VARIETIES

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

EXAMPLE OF HOW A WINPAK® VARIETY CAN BE FORMULATED

	VARIETY A EXAMPLE	VARIETY B EXAMPLE
PLACEMENT	Average to below-average yield environments.	Best-suited to productive acres.
DISEASE PACKAGE	Strong soybean white mold and iron deficiency chlorosis (IDC) tolerance.	Excellent phytophthora root rot and frogeye field tolerance.
AGRONOMICS	<ul style="list-style-type: none"> ▪ Narrow canopy type ▪ Tall height ▪ Excellent standability 	<ul style="list-style-type: none"> ▪ Bushy canopy type ▪ Medium height ▪ Average standability
STRESS TOLERANCE	Excellent stress tolerance.	Strong stress tolerance.

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

SOYBEAN

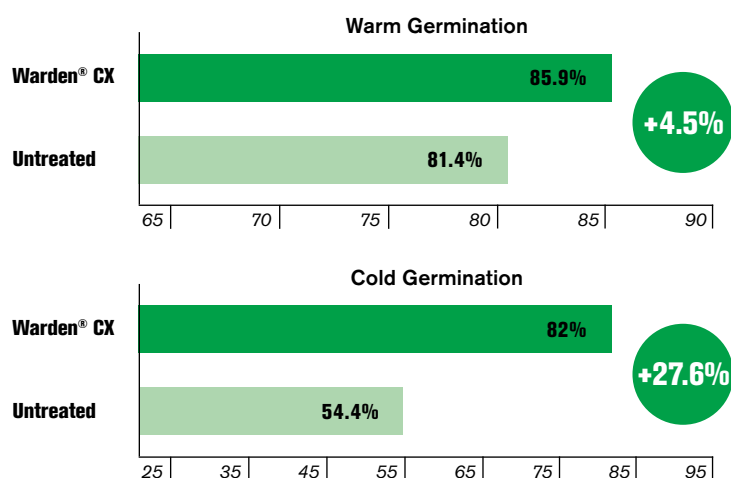
2 of 2



PROTECT YIELD POTENTIAL WITH WARDEN® CX SEED TREATMENT

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

AVERAGE GERMINATION IMPROVEMENT: WARDEN® CX VS. UNTREATED



MANAGE IN-SEASON

Select your disease package based on field conditions.

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






OPTIMAL CONDITIONS FOR DISEASE INFECTION

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



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
L	LibertyLink®	Liberty® tolerant	
XF	XtendFlex®	Roundup®, dicamba and glufosinate tolerant	
RR	Roundup Ready 2 Yield®	Roundup® 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

NEW

**CP00312X**

Group: 0.03 Days

**Characteristics**

		Not Recommended	Excellent
PRR Tolerance			1
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance		2	
Iron Chlorosis		2	

Height	M	Canopy Type	-
Emergence	2	Standability	1
BSR Tolerance	N/A		

- 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

**CP00777X**

Group: 0.07 Days

**Characteristics**

		Not Recommended	Excellent
PRR Tolerance			1
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance		3	
Iron Chlorosis			2

Height	M	Canopy Type	Int/Nar
Emergence	1	Standability	1
BSR Tolerance	5		

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

**CP00729E**

Group: 0.07 Days

**Characteristics**

		Not Recommended	Excellent
PRR Tolerance		3	
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance		3	
Iron Chlorosis			2

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

- 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

NEW

**CP00842XF**

Group: 0.08 Days

**Characteristics**

		Not Recommended	Excellent
PRR Tolerance			2
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance	N/A		
Iron Chlorosis			2

Height	M	Canopy Type	-
Emergence	2	Standability	2
BSR Tolerance	N/A		

- 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

**CP00847X**

Group: 0.08 Days

**Characteristics**

		Not Recommended	Excellent
PRR Tolerance			1
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance		3	
Iron Chlorosis			2

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

- Strong yield potential across Red River Valley
- Strong performance potential on stressed ground
- Strong IDC and BSR tolerance
- Acceptable SWM tolerance

**CP00926X**

Group: 0.09 Days

**Characteristics**

		Not Recommended	Excellent
PRR Tolerance		3	
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance		3	
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

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NEW

**CP0242XF**

Group: 0.2 Days

**Characteristics**

	Not Recommended	Excellent
PRR Tolerance	4	
SDS Tolerance	N/A	
Frogeye Leaf spot	N/A	
SWM Tolerance		2
Iron Chlorosis		2

Height	MT	Canopy Type	-
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

**CP0264RR**

Group: 0.2 Days

**Characteristics**

	Not Recommended	Excellent
PRR Tolerance	3	
SDS Tolerance	N/A	
Frogeye Leaf spot	N/A	
SWM Tolerance		3
Iron Chlorosis	5	

Height	M	Canopy Type	-
Emergence	3	Standability	1
BSR Tolerance	N/A		

- Offensive variety for Western ND
- Excellent stress tolerance for westward movement
- Excellent standability with acceptable emergence
- Avoid high-IDC fields; utilize seed treatments to improve PRR field tolerance

NEW

**CP0320E**

Group: 0.3 Days

**Characteristics**

	Not Recommended	Excellent
PRR Tolerance	3	
SDS Tolerance	N/A	
Frogeye Leaf spot	N/A	
SWM Tolerance		3
Iron Chlorosis		3

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

- WinPak® variety consisting of CP0322E and CP0329E
- Versatile placement for highly productive to stressed soils
- High yield potential with acceptable IDC and SWM tolerance
- Use caution in BSR-prone areas

**CP0329E**

Group: 0.3 Days

**Characteristics**

	Not Recommended	Excellent
PRR Tolerance	3	
SDS Tolerance	N/A	
Frogeye Leaf spot	N/A	
SWM Tolerance	4	
Iron Chlorosis		2

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

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

**CP0337X**

Group: 0.3 Days

**Characteristics**

	Not Recommended	Excellent
PRR Tolerance		2
SDS Tolerance	N/A	
Frogeye Leaf spot	N/A	
SWM Tolerance		3
Iron Chlorosis		1

Height	M	Canopy Type	Int/Nar
Emergence	1	Standability	3
BSR Tolerance	4		

- Also available in WinPak® variety CP0200X
- Intermediate plant type with strong lateral expression for high-yield environments
- Excellent IDC tolerance, similar to CP0426X
- Acceptable PRR field tolerance with Rps1c gene

**CP0426X**

Group: 0.4 Days

**Characteristics**

	Not Recommended	Excellent
PRR Tolerance		1
SDS Tolerance	N/A	
Frogeye Leaf spot	N/A	
SWM Tolerance		3
Iron Chlorosis		2

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

- Also available in WinPak® variety CP0400X
- Strong performance across all yield environments
- Excellent PRR field tolerance with strong IDC tolerance
- Manage placement on acres with BSR history

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CP0400X

Group: 0.4 Days

Characteristics

	Not Recommended			Excellent	
PRR Tolerance				2	
SDS Tolerance	N/A				
Frogeye Leaf spot	N/A				
SWM Tolerance			3		
Iron Chlorosis				2	

Height	M	Canopy Type	Int
Emergence	2	Standability	1
BSR Tolerance	N/A		

- WinPak® variety consisting of CP0411X and CP0426X
- Better yield potential and SWM tolerance to replace CP0500X
- Strong IDC and PRR tolerance
- Manage in BSR prone areas

CP0542XF

Group: 0.5 Days

Characteristics

	Not Recommended			Excellent	
PRR Tolerance				2	
SDS Tolerance			3		
Frogeye Leaf spot	N/A				
SWM Tolerance			3		
Iron Chlorosis		4			

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

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

CP0520E

Group: 0.5 Days

Characteristics

	Not Recommended			Excellent	
PRR Tolerance				2	
SDS Tolerance	N/A				
Frogeye Leaf spot	N/A				
SWM Tolerance			3		
Iron Chlorosis				2	

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

- WinPak® variety consisting of CP0522E and CP0529E
- Strong IDC tolerance
- Acceptable SWM tolerance with strong standability
- Rps3a gene for strong PRR package

CP0529E

Group: 0.5 Days

Characteristics

	Not Recommended			Excellent	
PRR Tolerance				2	
SDS Tolerance	N/A				
Frogeye Leaf spot	N/A				
SWM Tolerance		4			
Iron Chlorosis			3		

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

- Also available in WinPak® variety CP0520E
- Rps3a gene for resistance to PRR
- Strong PRR package and acceptable IDC tolerance
- Use caution in SWM-prone areas

CP0721E

Group: 0.7 Days

Characteristics

	Not Recommended			Excellent	
PRR Tolerance					1
SDS Tolerance	N/A				
Frogeye Leaf spot	N/A				
SWM Tolerance				2	
Iron Chlorosis				2	

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

- Strong yield potential on productive ground with excellent stress tolerance
- Strong IDC tolerance
- Excellent PRR package
- Not recommended for BSR areas

CP0700X

Group: 0.7 Days

Characteristics

	Not Recommended			Excellent	
PRR Tolerance				2	
SDS Tolerance	N/A				
Frogeye Leaf spot	N/A				
SWM Tolerance			3		
Iron Chlorosis				2	

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

- WinPak® variety consisting of CP0678X and CP0878X
- A versatile WinPak® variety for all yield environments tested
- Solid agronomic package suited for IDC and stressed acres
- Acceptable SWM tolerance

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CP0751XF

Group: 0.7 Days

Characteristics

		Not Recommended	Excellent
PRR Tolerance			2
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance		3	
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

CP0740XF

Group: 0.7 Days

Characteristics

		Not Recommended	Excellent
PRR Tolerance			2
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance		3	
Iron Chlorosis			2

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

- WinPak® variety consisting of CP0741XF and CP0751XF
- Versatile placement for highly productive to IDC-prone areas to PRR-prone soils
- Strong IDC tolerance and solid PRR package
- Average SWM tolerance

CP0820E

Group: 0.8 Days

Characteristics

		Not Recommended	Excellent
PRR Tolerance			2
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance			2
Iron Chlorosis			2

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

- WinPak® variety consisting of CP0721E and CP0822E
- Rps1c,3a/NG PRR gene with strong PRR tolerance for PRR-prone acres
- Strong SWM and IDC tolerance
- Use caution in BSR-prone areas

CP0940XF

Group: 0.9 Days

Characteristics

		Not Recommended	Excellent
PRR Tolerance		3	
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance			2
Iron Chlorosis			2

Height	MT	Canopy Type	-
Emergence	1	Standability	2
BSR Tolerance	4		

- WinPak® variety consisting of CP0942XF and CP1042XF
- Versatile placement for variable soils
- Strong SWM and IDC tolerance
- Use caution in BSR-prone areas

CP0957RR

Group: 0.9 Days

Characteristics

		Not Recommended	Excellent
PRR Tolerance		3	
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance			1
Iron Chlorosis		3	

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

- Top-yielding variety year-over-year in Answer Plot® trials
- Peking soybean with excellent white mold tolerance
- Acceptable IDC tolerance; stacked gene for Phytophthora resistance

CP1111X

Group: 1.1 Days

Characteristics

		Not Recommended	Excellent
PRR Tolerance			1
SDS Tolerance	N/A		
Frogeye Leaf spot	N/A		
SWM Tolerance			2
Iron Chlorosis			2

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

- Also available in WinPak® variety CP1100X
- Well-suited for most yield environments
- Strong IDC and white mold tolerance; strong standability
- Strong PRR field tolerance supports the lack of PRR gene

KEY

Scale

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

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UPGRADED



CP1120E

Group: 1.1 Days



Characteristics

	Not Recommended	Excellent
PRR Tolerance	2	
SDS Tolerance	2	
Frogeye Leaf spot	N/A	
SWM Tolerance	3	
Iron Chlorosis	2	

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

- WinPak® variety consisting of CP1121E and CP1222E
- Upgraded yield potential over 2020 version
- Strong IDC and PRR tolerance
- Use caution on BSR-prone areas



CP1100X

Group: 1.1 Days



Characteristics

	Not Recommended	Excellent
PRR Tolerance	2	
SDS Tolerance	N/A	
Frogeye Leaf spot	N/A	
SWM Tolerance	3	
Iron Chlorosis	2	

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

- WinPak® variety consisting of CP1078X and CP1111X
- Consistent performance potential for all yield environments tested
- Solid agronomics with strong IDC tolerance
- Acceptable SWM tolerance



CP1121E

Group: 1.1 Days



Characteristics

	Not Recommended	Excellent
PRR Tolerance	2	
SDS Tolerance	2	
Frogeye Leaf spot	N/A	
SWM Tolerance	3	
Iron Chlorosis	2	

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

- Also available in WinPak® variety CP1120E
- Excellent yield performance in both high- and low-yield environments in 2019 supplier trials
- Average white mold tolerance is enhanced with strong standability
- Use caution on BSR-prone areas

NEW



CP1240XF

Group: 1.2 Days



Characteristics

	Not Recommended	Excellent
PRR Tolerance	2	
SDS Tolerance	3	
Frogeye Leaf spot	N/A	
SWM Tolerance	3	
Iron Chlorosis	3	

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

- New WinPak® variety consisting of CP1242XF and CP1341XF
- WinPak® variety combines high yield potential and solid agronomics
- Strong PRR and BSR tolerance
- Acceptable SDS, SWM and IDC tolerance



CP1341XF

Group: 1.3 Days



Characteristics

	Not Recommended	Excellent
PRR Tolerance	2	
SDS Tolerance	3	
Frogeye Leaf spot	N/A	
SWM Tolerance	3	
Iron Chlorosis	3	

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

- Also available in WinPak® variety CP1240XF
- Bushy, medium-tall plant with acceptable standability
- Acceptable agronomic package
- Use caution on fields with heavy SWM pressure



CP1430E

Group: 1.4 Days



Characteristics

	Not Recommended	Excellent
PRR Tolerance	2	
SDS Tolerance	2	
Frogeye Leaf spot	N/A	
SWM Tolerance	3	
Iron Chlorosis	3	

Height	MT	Canopy Type	-
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

KEY

Scale

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



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CP1400X

Group: 1.4 Days



Characteristics

	Not Recommended			Excellent		
PRR Tolerance			3			
SDS Tolerance	N/A					
Frogeye Leaf spot	N/A					
SWM Tolerance			3			
Iron Chlorosis			3			

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

- WinPak® variety consisting of CP1411X and CP1578X
- Replaces CP1450X to allow broader east-west movement
- Acceptable tolerance for IDC, SWM and PRR
- Use caution on BSR-prone areas

NEW

CP1522E

Group: 1.5 Days



Characteristics

	Not Recommended			Excellent		
PRR Tolerance						1
SDS Tolerance				2		
Frogeye Leaf spot	N/A					
SWM Tolerance			3			
Iron Chlorosis				2		

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

- Also available in WinPak® variety CP14030E
- Best positioned on fields with PRR and BSR history
- Excellent emergence, BSR and PRR tolerance
- Acceptable SWM tolerance

CP1600X

Group: 1.6 Days



Characteristics

	Not Recommended			Excellent		
PRR Tolerance					2	
SDS Tolerance	N/A					
Frogeye Leaf spot	N/A					
SWM Tolerance				2		
Iron Chlorosis			3			

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

- WinPak® variety consisting of CP1578X and CP1788X
- This combination offers high yield potential and excellent standability
- Excellent agronomics with strong disease package
- Manage on IDC hot spots

NEW

CP1611X

Group: 1.6 Days



Characteristics

	Not Recommended			Excellent		
PRR Tolerance			3			
SDS Tolerance				2		
Frogeye Leaf spot	N/A					
SWM Tolerance				2		
Iron Chlorosis			3			

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

- High-yield-potential variety that works east to west
- Great standability for high yield environments
- Strong SDS and SWM tolerance
- Acceptable IDC and PRR tolerance

NEW

CP1640XF

Group: 1.6 Days



Characteristics

	Not Recommended			Excellent		
PRR Tolerance					2	
SDS Tolerance			3			
Frogeye Leaf spot	N/A					
SWM Tolerance			3			
Iron Chlorosis			3			

Height	T	Canopy Type	-
Emergence	2	Standability	2
BSR Tolerance	N/A		

- WinPak® variety consisting of CP1542XF* and CP1742XF
- High yield potential combined with complementary agronomics from each component
- Strong standability and emergence
- Acceptable disease package

CP1742XF

Group: 1.7 Days



Characteristics

	Not Recommended			Excellent		
PRR Tolerance					2	
SDS Tolerance				2		
Frogeye Leaf spot	N/A					
SWM Tolerance			3			
Iron Chlorosis				2		

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

- Also available in WinPak® variety CP1640XF
- Solid agronomic package works across a variety of acres
- Excellent standability
- Acceptable SWM tolerance

KEY

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CP1721E

Group: 1.7 Days

Characteristics

PRR Tolerance				2	
SDS Tolerance			3		
Frogeye Leaf spot	N/A				
SWM Tolerance				2	
Iron Chlorosis				2	

Height	M	Canopy Type	Int
Emergence	1	Standability	2
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

CP1830E

Group: 1.8 Days

Characteristics

PRR Tolerance				2	
SDS Tolerance			3		
Frogeye Leaf spot	N/A				
SWM Tolerance				2	
Iron Chlorosis			3		

Height	MT	Canopy Type	-
Emergence	2	Standability	2
BSR Tolerance	3		

- WinPak® variety consisting of CP1722E and CP1822E
- Strong SWM and PRR ratings make for a versatile fit in humid environments
- Strong PRR, SWM, emergence and standability
- Acceptable SDS, BSR and IDC tolerance

CP1827X

Group: 1.8 Days

Characteristics

PRR Tolerance			3	
SDS Tolerance			3	
Frogeye Leaf spot	N/A			
SWM Tolerance				2
Iron Chlorosis				2

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

- Also available in WinPak® variety CP1960X
- Medium-tall plant type with upright canopy
- Excellent tolerance to BSR; contains Rps1a and Rps3a for PRR tolerance
- Acceptable SDS tolerance

CP1960X

Group: 1.9 Days

Characteristics

PRR Tolerance			3	
SDS Tolerance			3	
Frogeye Leaf spot	N/A			
SWM Tolerance				2
Iron Chlorosis				2

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

- WinPak® variety consisting of CP1827X and CP2088X
- Medium-tall plant with excellent standability and emergence
- Strong tolerance to SWM
- Acceptable SDS tolerance

CP2042XF

Group: 2 Days

Characteristics

PRR Tolerance					1
SDS Tolerance			3		
Frogeye Leaf spot	N/A				
SWM Tolerance			3		
Iron Chlorosis				2	

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

- Standalone variety offers strong yield potential
- Works well on IDC-prone fields
- Excellent PRR and strong IDC tolerance
- Acceptable standability

CP2128X

Group: 2.1 Days

Characteristics

PRR Tolerance				
SDS Tolerance			2	
Frogeye Leaf spot	N/A			
SWM Tolerance				1
Iron Chlorosis			3	

Height	M	Canopy Type	Int/Bush
Emergence	2	Standability	1
BSR Tolerance	N/A		

- Durable Roundup Ready 2 Xtend® variety with excellent standability and strong agronomics
- Excellent SWM tolerance
- Strong SDS and PRR tolerance
- Acceptable IDC tolerance

KEY

Scale

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NEW

CP2122E

Group: 2.1 Days

Characteristics

	Not Recommended		Excellent	
PRR Tolerance			2	
SDS Tolerance		3		
Frogeye Leaf spot	N/A			
SWM Tolerance			2	
Iron Chlorosis		3		

Height	M	Canopy Type	-
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

NEW

CP2240XF

Group: 2.2 Days

**Characteristics**

	Not Recommended		Excellent	
PRR Tolerance	N/A			
SDS Tolerance		3		
Frogeye Leaf spot	N/A			
SWM Tolerance	N/A			
Iron Chlorosis		3		

Height	MT	Canopy Type	-
Emergence	2	Standability	3
BSR Tolerance	N/A		

- WinPak® variety consisting of CP2242XF and CP2342XF
- High yield potential with strong emergence
- Acceptable SDS, IDC and standability
- Not recommended in heavy SWM or BSR prone acres

NEW

CP2220E

Group: 2.2 Days

**Characteristics**

	Not Recommended		Excellent	
PRR Tolerance		3		
SDS Tolerance		3		
Frogeye Leaf spot	N/A			
SWM Tolerance		3		
Iron Chlorosis			2	

Height	MT	Canopy Type	-
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

NEW

CP2200X

Group: 2.2 Days

**Characteristics**

	Not Recommended		Excellent	
PRR Tolerance		3		
SDS Tolerance	N/A			
Frogeye Leaf spot	N/A			
SWM Tolerance	N/A			
Iron Chlorosis			2	

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

- WinPak® variety consisting of CP2128X and CP2219X
- Versatile product combined with high yield potential
- Strong emergence and standability
- Acceptable IDC and PRR tolerance

CP2322E

Group: 2.3 Days

**Characteristics**

	Not Recommended		Excellent	
PRR Tolerance			2	
SDS Tolerance				1
Frogeye Leaf spot	N/A			
SWM Tolerance			2	
Iron Chlorosis			2	

Height	M	Canopy Type	-
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

CP2450XF

Group: 2.4 Days

**Characteristics**

	Not Recommended		Excellent	
PRR Tolerance		3		
SDS Tolerance		4		
Frogeye Leaf spot	N/A			
SWM Tolerance		3		
Iron Chlorosis		3		

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

- WinPak® variety consisting of CP2442XF and CP2452XF
- High yield potential; solid agronomics
- Acceptable IDC, SWM and PRR
- Manage on SDS acres

KEY**Scale**

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- 4 = Manage
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CP2400X

Group: 2.4 Days

ROUNDUP READY 2

X TEND

SOYBEANS

WinPak

WINFIELD UNITED

Characteristics

PRR Tolerance			3		
SDS Tolerance	N/A				
Frogeye Leaf spot	N/A				
SWM Tolerance		4			
Iron Chlorosis			3		

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

- WinPak® variety consisting of CP2487X and CP2578X
- Western variety best-positioned in well-drained, fertile soils
- Excellent emergence and BSR resistance; acceptable IDC rating and strong stress tolerance
- Manage for areas with heavy SWM pressure

UPGRADED

CP2520E

Group: 2.5 Days

Enlist E3

WinPak

WINFIELD UNITED

Characteristics

PRR Tolerance				2	
SDS Tolerance		4			
Frogeye Leaf spot	N/A				
SWM Tolerance		4			
Iron Chlorosis				2	

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

- Upgraded WinPak® variety consisting of CP2422E and CP2521E
- Best-suited for productive prairie soils; strong performance east to west
- Excellent stress tolerance with strong IDC and emergence
- Manage SWM and standability

NEW

CROPLAN

CP2642XF

Group: 2.6 Days

X TENDFLEX

SOYBEANS

Characteristics

PRR Tolerance				2	
SDS Tolerance			3		
Frogeye Leaf spot	N/A				
SWM Tolerance		4			
Iron Chlorosis				2	

Height	M	Canopy Type	Bushy
Emergence	1	Standability	3
BSR Tolerance	1		

- Single line variety with solid agronomic package
- High-yield potential variety performs from east to west
- Acceptable standability and SDS tolerance
- Caution on SWM-prone fields

NEW

CROPLAN

CP2742XF

Group: 2.7 Days

X TENDFLEX

SOYBEANS

Characteristics

PRR Tolerance				2	
SDS Tolerance					1
Frogeye Leaf spot			3		
SWM Tolerance	N/A				
Iron Chlorosis			3		

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

- Single line variety with solid agronomic package
- Excellent SDS, with strong PRR tolerance and emergence
- Acceptable standability, frogeye and IDC

NEW

CROPLAN

CP2842XF

Group: 2.8 Days

X TENDFLEX

SOYBEANS

Characteristics

PRR Tolerance					
SDS Tolerance	N/A				
Frogeye Leaf spot	N/A				
SWM Tolerance	N/A				
Iron Chlorosis	N/A				

Height	MT	Canopy Type	N/A
Emergence	2	Standability	3
BSR Tolerance	N/A		

- Single line variety with high yield potential in well drained, loamy soils
- Best placed on moderately to well drained soils
- Top-end yield potential in offensive environments
- Manage PRR and SDS with seed treatments as needed

NEW

CROPLAN

CP2822E

Group: 2.8 Days

Enlist E3

WinPak

WINFIELD UNITED

Characteristics

PRR Tolerance				2	
SDS Tolerance			3		
Frogeye Leaf spot	N/A				
SWM Tolerance	N/A				
Iron Chlorosis			3		

Height	MT	Canopy Type	-
Emergence	2	Standability	2
BSR Tolerance	NG		

- Single line variety with solid agronomic package
- Strong PRR, stress tolerance and standability
- Acceptable IDC and SDS tolerance

KEY

Scale

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

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UPGRADED



CP2920E

Group: 2.9 Days

Characteristics

	Not Recommended				Excellent			
PRR Tolerance							2	
SDS Tolerance	N/A							
Frogeye Leaf spot	N/A							
SWM Tolerance	N/A							
Iron Chlorosis							2	

Height	MT	Canopy Type	-
Emergence	1	Standability	2
BSR Tolerance	N/A		

- WinPak® variety consisting of CP2829E and CP2922E
- Versatile product with ability to cross a wide range of yield environments and soil types
- High yield potential variety paired with an upgraded defensive line to bring strong PRR and excellent SDS tolerance
- Manage for SWM in susceptible environments

NEW

CP3022E

Group: 3 Days



Characteristics

	Not Recommended				Excellent			
PRR Tolerance							2	
SDS Tolerance							2	
Frogeye Leaf spot	N/A							
SWM Tolerance			4					
Iron Chlorosis							2	

Height	M	Canopy Type	-
Emergence	1	Standability	2
BSR Tolerance	N/A		

- High-yield potential variety with solid defensive characteristics
- Versatile variety with performance potential on high-end to tough acres
- Strong PRR, SDS and IDC tolerance
- Manage for SWM in susceptible environments

CP3057XS

Group: 3 Days

Characteristics

	Not Recommended				Excellent			
PRR Tolerance			4					
SDS Tolerance							2	
Frogeye Leaf spot	N/A							
SWM Tolerance	N/A							
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



CP3120E

Group: 3.1 Days



WinPak®

Characteristics

	Not Recommended				Excellent			
PRR Tolerance							2	
SDS Tolerance			4					
Frogeye Leaf spot				3				
SWM Tolerance			4					
Iron Chlorosis							2	

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

- WinPak® variety consisting of CP3121E and CP3131E
- Excellent stress tolerance allows movement east to west
- Strong IDC and PRR tolerance
- Acceptable standability and FELS tolerance

NEW

CP3140XF

Group: 3.1 Days

WinPak®

Characteristics

	Not Recommended				Excellent			
PRR Tolerance	N/A							
SDS Tolerance							2	
Frogeye Leaf spot	N/A							
SWM Tolerance	N/A							
Iron Chlorosis			4					

Height	MT	Canopy Type	-
Emergence	2	Standability	2
BSR Tolerance	N/A		

- WinPak® variety consisting of CP3142XF and CP3242XF
- Versatile product with high yield potential and solid defensive characteristics
- Strong SDS tolerance and taller plant type to gain height in stressed environments
- Manage for IDC and BSR in susceptible environments

NEW



CP3252XF

Group: 3.2 Days

Characteristics

	Not Recommended				Excellent			
PRR Tolerance			4					
SDS Tolerance								1
Frogeye Leaf spot	N/A							
SWM Tolerance	N/A							
Iron Chlorosis			4					

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

- Offensive variety with excellent standability and appearance late season
- Best placed in well drained, moderate to high yield environments
- Excellent standability and SDS tolerance
- Manage for PRR and IDC in susceptible environments

NEW

CP3320E

Group: 3.3 Days



Characteristics

	Not Recommended			Excellent		
PRR Tolerance				2		
SDS Tolerance			3			
Frogeye Leaf spot			3			
SWM Tolerance		4				
Iron Chlorosis			3			

Height	MT	Canopy Type	-
Emergence	1	Standability	3
BSR Tolerance	N/A		

- 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

NEW



CP3442XF

Group: 3.4 Days



Characteristics

	Not Recommended			Excellent		
PRR Tolerance						1
SDS Tolerance						1
Frogeye Leaf spot						1
SWM Tolerance	N/A					
Iron Chlorosis			3			

Height	T	Canopy Type	Int
Emergence	1	Standability	3
BSR Tolerance	N/A		

- High yield potential single line with excellent PRR, SDS, and FELS tolerance
- Best performance central and east with ability to excel across soil types and yield environments
- Excellent defensive package for eastern environments with Rps1k gene present for PRR
- Acceptable IDC and standability late season

NEW



CP3422ES

Group: 3.4 Days

Characteristics

	Not Recommended			Excellent		
PRR Tolerance				2		
SDS Tolerance				2		
Frogeye Leaf spot			3			
SWM Tolerance			3			
Iron Chlorosis				2		

Height	MT	Canopy Type	-
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

CP3556X

Group: 3.5 Days

Characteristics

	Not Recommended			Excellent		
PRR Tolerance				2		
SDS Tolerance			3			
Frogeye Leaf spot	N/A					
SWM Tolerance	N/A					
Iron Chlorosis			3			

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

- Also available in WinPak® CP3450X
- Versatile variety with high yield potential
- Strong PRR and BSR tolerance
- Acceptable IDC and SDS tolerance

UPGRADED



CP3620E

Group: 3.6 Days

Characteristics

	Not Recommended			Excellent		
PRR Tolerance				2		
SDS Tolerance				2		
Frogeye Leaf spot		4				
SWM Tolerance		4				
Iron Chlorosis	N/A					

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

- WinPak® variety consisting of CP3621E and CP3622E
- Upgraded national product with improved overall yield potential, versatility and solid defensive characteristics
- Strong standability late season; strong PRR and SDS tolerance
- Manage for FELS in susceptible environments

CP3621E

Group: 3.6 Days

Characteristics

	Not Recommended			Excellent		
PRR Tolerance				2		
SDS Tolerance				2		
Frogeye Leaf spot		4				
SWM Tolerance		4				
Iron Chlorosis	N/A					

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

- Single line variety also found in CP3620E WinPak®
- Versatile variety that performs well east to west
- Strong PRR, SDS, and stress tolerance
- Manage for FELS in susceptible environments

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.



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

NEW



CP3650XF

Group: 3.6 Days



Characteristics

	Not Recommended	Excellent
PRR Tolerance	N/A	
SDS Tolerance		2
Frogeye Leaf spot	N/A	
SWM Tolerance	N/A	
Iron Chlorosis	N/A	

Height	MT	Canopy Type	-
Emergence	2	Standability	3
BSR Tolerance	N/A		

- New WinPak® variety consisting of CP3642XFS and CP3742XF
- Versatile, high-yield potential variety that moves well east to west across varying soil types
- Strong SDS tolerance
- Manage populations across high performing acres for standability

NEW

CP3752XF

Group: 3.7 Days



Characteristics

	Not Recommended	Excellent
PRR Tolerance		2
SDS Tolerance		1
Frogeye Leaf spot	4	
Southern Stem Canker		1
Root-Knot Nematode	N/A	

Height	MT	Canopy Type	Int
Emergence	1	Standability	1
BSR Tolerance	N/A		

- Standalone variety with dependable defensive package
- Versatile variety ideally placed central and west
- Combination of excellent emergence, standability, SDS and SSC tolerance
- Acceptable FELS tolerance - manage areas with issues

NEW

CP3722ES

Group: 3.7 Days



Characteristics

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

Height	M	Canopy Type	-
Emergence	2	Standability	2
BSR Tolerance	N/A		

- Versatile variety with solid late season appearance and strong standability
- National line that moves well east to west and into mid-south
- Strong SDS tolerance
- Not recommended in fields with a history of RKN

NEW



CP3822ES

Group: 3.7 Days



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	-
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

CP3806XS

Group: 3.8 Days

Characteristics

	Not Recommended	Excellent
PRR Tolerance	4	
SDS Tolerance		2
Frogeye Leaf spot	3	
Southern Stem Canker	4	
Root-Knot Nematode	4	

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

- Excluder variety with STS® tolerance; well-suited for high-pH soils
- Strong performance from Neb. to the East Coast
- Offers strong emergence, disease tolerance and standability
- Manage for stem canker and RKN

NEW

CP3940XF

Group: 3.9 Days

Characteristics

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

Height	MT	Canopy Type	-
Emergence	2	Standability	2
BSR Tolerance	N/A		

- Winpak® variety consisting of CP3842XF and CP3941XF
- Broadly adapted east to west and across yield levels
- Manage placement in areas with RKN

KEY

Scale

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



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

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

UPGRADED

CP3920E

Group: 3.9 Days

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	2
BSR Tolerance	N/A		

- WinPak® variety consisting of CP4029E with upgrade to CP3922E
- Stable WinPak® variety that can perform across soil types and yield environments
- Excellent emergence and stress tolerance
- Manage for SDS and BSR in susceptible fields

CP4041XFS

Group: 4 Days

Characteristics

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

Height	T	Canopy Type	Int
Emergence	1	Standability	3
BSR Tolerance	N/A		

- High yield potential variety across planting dates
- Best placed on central acres with high yield potential
- Excellent emergence; resistance to SSC and SCN
- Manage for SDS, white mold and PRR

NEW

CP4142XFS

Group: 4 Days

Characteristics

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

Height	M	Canopy Type	N/A
Emergence	2	Standability	1
BSR Tolerance	N/A		

- STS*-tolerant variety with excellent yield potential across environments
- Position central, east and west
- Excellent standability and emergence; resistant to SSC
- Manage placement on RKN-prone acres

NEW

CP4122E

Group: 4.1 Days

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	-
Emergence	1	Standability	2
BSR Tolerance	N/A		

- 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

**CP4117XS**

Group: 4.1 Days

Characteristics

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

Height	M	Canopy Type	Int/Bush
Emergence	3	Standability	2
BSR Tolerance	N/A		

- Also available in WinPak® variety CP4150XS
- Top-end yield potential; moves across soil types and yield environments
- Intermediate-bushy plant with strong standability and excellent stress tolerance
- Fungicide application recommended to manage FELS; manage for RKN

NEW

CP4322ES

Group: 4.3 Days

Characteristics

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

Height	MT	Canopy Type	-
Emergence	1	Standability	1
BSR Tolerance	N/A		

- Component of CP4320ES WinPak® variety
- STS*-tolerant variety with high yield potential and stability for tough environments
- Medium-tall variety with excellent emergence and standability
- Manage placement on RKN-prone acres

NEW

CP4320ES

Group: 4.3 Days

Characteristics

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

Height	MT	Canopy Type	-
Emergence	1	Standability	1
BSR Tolerance	N/A		

- STS® WinPak® variety consisting of CP4331ES and CP4322ES
- Broadly adapted with ability to handle tougher conditions and various soil types
- Excellent emergence and standability
- Manage placement on RKN-prone acres

CP4516XS

Group: 4.5 Days

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
Emergence	2	Standability	2
BSR Tolerance	N/A		

- STS® and excluder variety
- Widely adaptable across environments
- Intermediate line with excellent SSC and FELS tolerance
- Manage populations to improve standability

CP4520XS

Group: 4.5 Days

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	Int
Emergence	2	Standability	2
BSR Tolerance	N/A		

- WinPak® variety consisting of CP4516XS and CP4619XS
- Strong PRR, SDS and FELS tolerance
- Strong standability

NEW

**CP4422ES**

Group: 4.5 Days

Characteristics

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

Height	MT	Canopy Type	-
Emergence	2	Standability	3
BSR Tolerance	N/A		

- Enlist E3® variety stacked with STS®-tolerance
- Excluder widely adaptable across the Mid-South, East Coast and West
- Resistant to SSC; strong FELS and SDS tolerance
- Manage for RKN and SCN in high pressure areas

CP4521E

Group: 4.5 Days

**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	N/A
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

CP4541XFS

Group: 4.6 Days

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	N/A		

- 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

CP4811XS

Group: 4.8 Days



Characteristics

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

Height	M	Canopy Type	Int
Emergence	2	Standability	2
BSR Tolerance	N/A		

- STS*-tolerant variety
- Strong SDS and stem canker tolerance
- Medium plant height; strong FELS tolerance
- Manage placement in RKN-prone acres

CROPLAN CP4825X

Group: 4.8 Days

Characteristics

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

Height	M	Canopy Type	Int
Emergence	1	Standability	1
BSR Tolerance	N/A		

- Versatile Roundup Ready 2 Xtend* variety with great top-end yield potential
- Highly adapted variety that moves across all soil types
- Excluder with excellent emergence and SSC tolerance; strong FELS tolerance
- Can have late-season green stems

CP4841XFS

Group: 4.8 Days

Characteristics

	Not Recommended			Excellent		
PRR Tolerance			3			
SDS Tolerance		4				
Frogeye Leaf spot	N/A					
Southern Stem Canker						1
Root-Knot Nematode	5					

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

- STS*-tolerant excluder variety
- Best positioned in the East and in the West on most soil types
- Acceptable standability; SCN resistant
- Manage PRR, SDS, SSC and RKN

NEW

CP4822ES

Group: 4.9 Days

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	-
Emergence	2	Standability	2
BSR Tolerance	N/A		

- 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

CROPLAN CP4921ES

Group: 4.9 Days

Characteristics

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

Height	MT	Canopy Type	Int/Nar
Emergence	1	Standability	3
BSR Tolerance	N/A		

- Enlist E3* STS* variety designed for tough yield environments
- Strong FELS tolerance; excellent emergence in variable conditions
- Strong stress tolerance and acceptable standability
- Manage placement in RKN-prone acres

CP5221X

Group: 5.2 Days

Characteristics

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

Height	M	Canopy Type	Nar
Emergence	1	Standability	1
BSR Tolerance	N/A		

- Medium-narrow plant adaptable across many soil types
- Strong emergence and standability
- Acceptable tolerance to PRR, SCN and SSC
- Acceptable tolerance to RKN

CP5427X

Group: 5.4 Days

Characteristics

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

Height	M	Canopy Type	Int
Emergence	2	Standability	1
BSR Tolerance	N/A		

- Determinate soybean with intermediate plant type
- Position on loams to mixed soil types in the West and Delta
- Resistant to both southern and peanut RKN; excellent SSC and FELS tolerance; excellent standability
- Not recommended in SDS-prone areas

CP5548X

Group: 5.5 Days



Characteristics

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

Height	T	Canopy Type	Int/Bush
Emergence	1	Standability	4
BSR Tolerance	N/A		

- Determinate, excluder and Peking variety with top-end yield potential
- Best-suited for the Delta and East Coast across most soil types
- Resistant to both peanut and southern RKN; excellent FELS rating; tolerance to metribuzin
- Tall variety; manage populations to improve standability

CP6208X

Group: 6.2 Days

Characteristics

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

Height	M	Canopy Type	-
Emergence	3	Standability	1
BSR Tolerance	N/A		

- Excluder; attractive tawny/tan determinate type
- Performs best in the Delta to the East Coast
- Narrow plant with excellent standability; resistance for RKN and SSC
- Acceptable FELS tolerance; manage with fungicide



CP6841XF

Group: 6.8 Days



Characteristics

	Not Recommended			Excellent		
PRR Tolerance			3			
SDS Tolerance	N/A					
Frogeye Leaf spot		4				
Southern Stem Canker					1	
Root-Knot Nematode					1	

Height	M	Canopy Type	Bush
Emergence	1	Standability	2
BSR Tolerance	N/A		

- Stable yield potential variety
- Position across East Coast on most soil types
- Excellent emergence and strong standability; resistant to SSC and RKN
- Manage FEL and PRR in areas of concern



CP7221X

Group: 7.2 Days



Characteristics

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

Height	M	Canopy Type	Int/Bush
Emergence	1	Standability	2
BSR Tolerance	N/A		

- Excellent uniform variety for East Coast
- Excluder with med/bushy plant type
- Excellent tolerance to RKN and SSC; acceptable FELS tolerance
- Medium plant height with strong standability



SOYBEAN



WinPak® Variety Components

SCN Resistant Source
Determinate/Indeterminate
Relative Maturity

PRR Gene

Chloride Tolerance
SDS Tolerance
PRR Tolerance

Southern Stem Canker
Iron Chlorosis
SWM Tolerance

Root-Knot Nematode
Fragryae Leaf Spot
Emergence

Stress Tolerance
Standability

Canopy Type

Plant Height
Flower Color

Pod Color

Hilum Color

ROUNDUP READY 2 XTEND®/XTENDFLEX®/ROUNDUP READY 2 YIELD® – RM: 0.0-0.8

NEW	CP00312X	0.03	IND	NG	Rps1c	1	N/A	N/A	2	N/A	2	1	N/A	N/A	2	1	N/A	Int	M	P	LTW	BR	IY
	CP00777X*	0.07	IND	P188.788	Rps1c	1	N/A	Includer	3	5	2	N/A	N/A	N/A	1	1	2	Int/Nar	M	P	LTW	BR	BL
NEW	CP00842XF	0.08	IND	P188.788	Rps1c	2	N/A	N/A	N/A	2	N/A	N/A	N/A	2	2	N/A	Int	M	P	LTW	TN	BL	
	CP00847X	0.08	IND	P188.788	Rps1k	1	N/A	Includer	3	1	2	N/A	N/A	N/A	1	3	1	Int/Nar	MT	P	TW	BR	BL
	CP00926X	0.09	IND	NG	Rps1k	3	N/A	Includer	3	2	3	N/A	N/A	N/A	1	3	3	Int	M	P	TW	BR	BL
NEW	CP0242XF	0.2	IND	NG	Rps1c	4	N/A	N/A	2	1	2	N/A	N/A	N/A	1	4	N/A	Int/Bush	MT	P	TW	BR	BL
	CP0264RR	0.2	IND	NG	Rps1c	3	N/A	Includer	3	N/A	5	N/A	N/A	N/A	3	1	1	Int	M	P	TW/LTW	TN	BL
	CP0337X	0.3	IND	P188.788	Rps1c	2	N/A	Includer	3	4	1	N/A	N/A	N/A	1	3	1	Int/Nar	M	P	TW	BR	BR
	CP0400X	0.4	IND	P188.788	Rps3a/NG	2	N/A	Includer	3	N/A	2	N/A	N/A	N/A	2	1	N/A	Int	M	P	LTW	BR/TN	BL/BR
	CP0411X*	0.4	IND	P188.788	NG	2	N/A	Includer	3	N/A	2	N/A	N/A	N/A	2	1	N/A	Int	MS	P	LTW	TN	BL
	CP0426X	0.4	IND	P188.788	Rps3a	1	N/A	Includer	3	4	2	N/A	N/A	N/A	1	1	1	Int	M	P	LTW	BR	BR
NEW	CP0542XF	0.5	IND	P188.788	Rps1c	2	3	N/A	3	N/A	4	1	N/A	N/A	2	2	N/A	Int/Bush	MT	P	LTW	TN	IY
	CP0678X*	0.6	IND	P188.788	NG	1	N/A	Includer	3	4	2	N/A	N/A	N/A	1	3	1	Int	MT	P	LTW	BR	BL
	CP0700X	0.7	IND	P188.788	Rps1c/NG	2	N/A	Includer	3	4	2	N/A	N/A	N/A	2	2	2	Int	M	P	LTW	BR	BL
	CP0740XF	0.7	IND	P188.788	Rps1c.3a/H3a	2	N/A	Includer/N/A	3	1	2	N/A	N/A	N/A	1	3	N/A	Int	MT	P	TW/LTW	BR	BL
	CP0741XF*	0.7	IND	P188.788	HRps3a	2	N/A	Includer	3	1	2	N/A	N/A	5	1	3	2	Int	M	P	LTW	BR	BL
	CP0751XF	0.7	IND	P188.788	Rps1c.3a	2	N/A	N/A	3	1	2	N/A	N/A	N/A	1	3	N/A	Int	MT	P	TW	BR	BL
	CP0878X*	0.8	IND	P188.788	Rps1c	3	N/A	Includer	3	3	2	N/A	N/A	N/A	3	1	3	Int	M	P	LTW	BR	BL

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 Pig® 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~
- 4 = Moderately Susceptible
- 5 = Susceptible

4 Canopy Type

- Nar = Narrow
- Int = Intermediate
- Bush = Bushy

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.



WinPaK® Variety Components

SCN Resistant Source
Relative Maturity

PRR Gene

Chloride Tolerance
SDS Tolerance

SWM Tolerance
BSR Tolerance

Southern Stem Canker
Iron Chlorosis
Root-Knot Nematode
Frogeye Leaf Spot

Emergence
Standability
Stress Tolerance

Canopy Type
Plant Height
Flower Color

Pod Color
Hilum Color

ROUNDUP READY 2 XTEND®/XTENDFLEX®/ROUNDUP READY 2 YIELD® – RM: 0.9-1.8

NEW	CP0940XF	CP0942XF*/CP1042XF*	0.9	IND	P188.788	HRps3a/NG	3	N/A	Includer/N/A	2	4	2	N/A	N/A	N/A	1	2	N/A	Int/Bush	MT	P	LTW	BR/TN	BR	
NEW	CP0942XF*		0.9	IND	P188.788	NG	4	N/A	N/A	2	5	1	N/A	N/A	N/A	1	2	N/A	Int/Bush	MT	P	LTW	BR	BR	
	CP0957RR		0.9	IND	PEKING	Rps1k.3a	3	N/A	Includer	1	3	3	N/A	N/A	N/A	1	1	1	Int/Nar	M	P	GR	BR	BF	
NEW	CP1042XF*		1	IND	P188.788	HRps3a	2	N/A	Includer	2	3	3	N/A	N/A	N/A	1	2	2	Int/Bush	MT	P	LTW	TN	BR	
	CP1078X*		1	IND	P188.788	NG	2	N/A	Includer	3	4	1	N/A	N/A	N/A	1	2	1	Int	MT	P	LTW	TN	BR	
	CP1100X	CP1078X*/CP1111X	1.1	IND	P188.788	NG	2	N/A	Includer	3	3	2	N/A	N/A	N/A	1	2	N/A	Int	MT	P	LTW	BR/TN	BR	
	CP1111X		1.1	IND	P188.788	NG	1	N/A	Includer	2	1	2	N/A	N/A	N/A	1	1	N/A	Int	M	P	LTW	BR	BR	
NEW	CP1240XF	CP1242XF*/CP1341XF	1.2	IND	P188.788	Rps1c.H3a	2	3	Includer/N/A	3	2	3	N/A	N/A	N/A	1	2	N/A	Int/Bush	MT	P	LTW	BR	BL	
NEW	CP1242XF*		1.2	IND	P188.788	HRps3a	2	3	Includer	2	1	2	N/A	N/A	N/A	1	1	2	Int	MT	P	LTW	BR	BL	
	CP1341XF		1.3	IND	P188.788	Rps1c	2	3	N/A		3	3	3	N/A	N/A	N/A	1	3	N/A	Int/Bush	MT	P	LTW	BR	BL
	CP1400X	CP1411X*/CP1578X*	1.4	IND	P188.788	Rps1c.1k.3a/H1c	3	N/A	Includer	3	4	3	N/A	N/A	N/A	1	2	N/A	Int/Bush	M	P	LTW	BR	BL	
	CP1411X*		1.4	IND	P188.788	Rps1c/1k.3a	3	N/A	Includer	3	4	3	N/A	N/A	N/A	1	2	N/A	Int/Bush	M	P	LTW	BR	BL	
NEW	CP1542XF*		1.5	IND	P188.788	Rps3a	1	3	N/A	2	N/A	3	1	N/A	N/A	2	2	N/A	Int	MT	P	LTW	BR	BR	
	CP1578X*		1.5	IND	P188.788	HRps1c	2	N/A	Includer	3	3	3	N/A	N/A	N/A	1	1	1	Int	M	P	LTW	BR	BL	
	CP1600X	CP1578X*/CP1788X*	1.6	IND	P188.788	HRps1c	2	N/A	Includer	2	2	3	N/A	N/A	N/A	1	1	2	Int	M	P	LTW	BR	BL/BR	
	CP1611X		1.6	IND	P188.788	HRps1c/1k	3	2	Includer	2	1	3	N/A	N/A	N/A	1	1	N/A	Int	M	P	GR	TN	IB	
NEW	CP1640XF	CP1542XF*/CP1742XF	1.6	IND	P188.788	Rps1c.3a	2	3	N/A		3	N/A	3	1	N/A	N/A	2	2	N/A	Int/Nar	T	P	LTW	BR	BR
NEW	CP1742XF		1.7	IND	P188.788	Rps1c	2	2	N/A		3	N/A	2	1	N/A	N/A	2	1	N/A	Int/Nar	T	P	LTW	BR	BR
	CP1788X*		1.7	IND	P188.788	Rps1c	2	N/A	Includer	1	1	2	N/A	N/A	N/A	1	1	3	Int	M	P	LTW	BR	BR	
	CP1827X		1.8	IND	P188.788	Rps1a.3a	3	3	Includer	2	1	2	N/A	N/A	N/A	1	1	1	Int/Nar	MT	P	GR	BR	BF	

KEY

Scale

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- Ng = No gene present

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HRps = Heterozygous segregating Rps occurrence

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- 1 = Resistant
- 2 = Moderately Resistant
- 3 = Moderately Resistant~
- 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 Pod Color

- TN = Tan
- BR = Brown

8 Hilum Color

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

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SOYBEAN



WinPaK® Variety Components

SCN Resistant Source
Relative Maturity

PRR Gene

SDS Tolerance
Chloride Tolerance

SWM Tolerance
BSR Tolerance

Southern Stem Canker
Iron Chlorosis

Root-Knot Nematode
Emergence

Stress Tolerance
Canopy Type

Plant Height
Flower Color

Pod Color
Hilum Color

ROUNDUP READY 2 XTEND®/XTENDFLEX®/ROUNDUP READY 2 YIELD® – RM: 1.9-2.9

CP1960X	CP1827X/CP2088X*	1.9	IND	PI88.788	Ros1a.3a	3	3	Includer	2	1	2	N/A	N/A	N/A	1	1	1	Int/Nar	MT	P	GR	BR	BF
NEW CP2042XF		2	IND	PI88.788	Ros3a	1	3	N/A	3	3	2	N/A	N/A	N/A	2	3	2	Int	MT	P	GR	TN	IB
CP2088X*		2	IND	PI88.788	Ros1a.3a	3	3	Includer	1	1	2	N/A	N/A	N/A	1	1	1	Int/Nar	MT	P	GR	BR	BF
CP2128X		2.1	IND	PI88.788	Ros1c	2	2	Includer	1	N/A	3	N/A	N/A	N/A	2	1	N/A	Int/Bush	M	W	LTW	BR	BL
CP2200X	CP2128X/CP2219X*	2.2	IND	PI88.788	Ros1c/1k	3	N/A	Includer	N/A	N/A	2	N/A	N/A	N/A	2	2	N/A	Int/Bush	M	PW	GR/LTW	BR/TN	BL/IB
CP2219X*		2.2	IND	PI88.788	Ros1k	3	N/A	Includer	N/A	1	1	N/A	N/A	N/A	2	2	N/A	Int	M	P	GR	TN	IB
NEW CP2240XF	CP242XF*/CP2342XF*	2.2	IND	PI88.788	Ros1c.3a/NG	N/A	3	N/A	N/A	N/A	3	1	N/A	N/A	2	3	N/A	Int/Bush	MT	P	GR	BR/TN	BF/IB
NEW CP2242XF*		2.2	IND	PI88.788	NG	1	2	N/A	N/A	N/A	2	1	2	N/A	2	3	N/A	Int	M	P	GR	TN	IB
NEW CP2342XF*		2.3	IND	PI88.788	Ros1c.3a	N/A	3	N/A	4	1	4	1	N/A	N/A	1	3	N/A	Int/Bush	MT	P	GR	BR	BF
CP2400X	CP2487X*/CP2578X*	2.4	IND	PI88.788	Ros1c/NG	3	N/A	Includer	4	1	3	N/A	N/A	N/A	1	2	2	Int/Bush	MT	P	GR/LTW	BR/TN	BL/IB
NEW CP2442XF*		2.4	IND	PI88.788	Ros1c	2	3	N/A	3	1	2	N/A	N/A	N/A	2	2	2	Int	MT	P	GR	TN	GR
NEW CP2450XF	CP2442XF*/CP2452XF*	2.4	IND	PI88.788	Ros1c	3	4	N/A	3	1	3	N/A	N/A	N/A	2	2	N/A	Int/Bush	MT	P	GR	BR/TN	GR/IB
NEW CP2452XF*		2.4	IND	PI88.788	Ros1c	3	4	N/A	2	1	3	1	N/A	N/A	1	2	N/A	Int/Bush	T	P	GR	BR	IB
CP2487X*		2.4	IND	PI88.788	NG	3	3	Includer	4	1	3	N/A	N/A	N/A	1	3	1	Int	M	P	LTW	TN	BL
CP2578X*		2.5	IND	PI88.788	Ros1c	3	N/A	Includer	4	1	2	N/A	N/A	N/A	1	1	2	Int/Bush	MT	P	GR	BR	IB
NEW CP2640XF	CP2642XF*/CP2652XF*	2.6	IND	PI88.788	Ros1c/NG	2	3	Excluder/N/A	N/A	1	2	N/A	N/A	N/A	2	3	N/A	Int/Bush	MT	P	GR	TN	BF/GR
NEW CP2642XF*		2.6	IND	PI88.788	Ros1c	2	3	Excluder	4	1	2	N/A	N/A	N/A	1	3	N/A	Bush	M	P	GR	TN	GR
NEW CP2652XF*		2.6	IND	PI88.788	NG	2	3	N/A	N/A	1	2	N/A	N/A	N/A	2	2	2	Int/Bush	MT	P	GR	TN	BF
NEW CP27142XF		2.7	IND	PI88.788	Ros1c	2	1	N/A	N/A	N/A	3	1	3	N/A	2	3	N/A	Int	MT	W	LTW	BR	BL
NEW CP2842XF		2.8	IND	PI88.788	NG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	2	3	N/A	MT	P	GR	TN	BF

KEY

- Scale**
1 = Excellent
2 = Strong
3 = Acceptable
4 = Manage
5 = Not Recommended
N6 = No gene present
- 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
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- 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
- 8 Pod Color**
TN = Tan
BR = Brown

- 7 Pubescence Type**
GR = Gray
TW = Tawny
LTW = Light Tawny
- 9 Hilum Color**
YE = Yellow/Clear
BL = Gray
BR = Black
IB = Imperfect Black
BR = Brown
BF = Buff
SL = Slate
TN = Tan

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SOYBEAN



WinPak® Variety Components

SCN Resistant Source
Determinate/Indeterminate
Relative Maturity

PRR Gene

SSS Tolerance
Chloride Tolerance
PRR Tolerance

SWM Tolerance
BSM Tolerance
Iron Chlorosis

Root-Knot Nematode
Troyes Leaf Spot
Emergence

Stress Tolerance
Canopy Type
Plant Height

Pubescence Type
Flower Color
Pod Color

Hilum Color

ROUNDUP READY 2 XTEND®/XTENDFLEX®/ROUNDUP READY 2 YIELD® – RM: 3.0-3.9

NEW	CP3057XS		3	IND	PI88.788	HRps1c	4	2	Includer	N/A	1	1	N/A	N/A	2	3	1	Int	M	P	LTW	TN	BL	
NEW	CP3140XF	CP3142XF*/CP3242XF*	3.1	IND	PI88.788	Rps1c.3a/1c	N/A	2	Inc/Exc	N/A	N/A	4	N/A	N/A	N/A	2	2	N/A	Int/Bush	MT	P	GR	BR	BF/IB
NEW	CP3142XF*		3.1	IND	PI88.788	Rps1c.3a	N/A	1	Excluder	N/A	2	4	1	N/A	N/A	1	1	N/A	Int/Bush	T	P	GR	BR	IB
NEW	CP3242XF*		3.2	IND	PI88.788	Rps1c	2	2	Includer	N/A	NG	3	N/A	3	5	2	2	2	Int	MT	P	GR	BR	BF
NEW	CP3252XF		3.2	IND	PI88.788	NG	4	1	Includer	N/A	1	4	1	N/A	N/A	1	1	N/A	Int	M	P	GR	TN	IB
NEW	CP3442XF		3.4	IND	PI88.788	Rps1k	1	1	N/A	N/A	N/A	3	1	1	N/A	1	3	N/A	Int	T	P	LTW	TN	BL
NEW	CP3556X		3.5	IND	PI88.788	Rps1c	2	3	Includer	N/A	2	3	N/A	N/A	N/A	1	2	1	Int/Bush	M	P	GR	BR	IB
NEW	CP3642XFS*		3.6	IND	PI88.788	NG	N/A	2	Includer	N/A	N/A	N/A	N/A	2	5	2	3	N/A	N/A	MT	P	LTW	BR	BL
NEW	CP3650XF	CP3642XFS*/CP3742XF*	3.6	IND	PI88.788	NG	N/A	2	Includer	N/A	N/A	N/A	N/A	N/A	N/A	2	3	N/A	N/A	MT	P	LTW	BR/TN	BL
NEW	CP3742XF*		3.7	IND	PI88.788	NG	3	1	Includer	N/A	1	5	1	N/A	N/A	1	2	N/A	Int/Bush	MT	P	LTW	TN	BL
NEW	CP3752XF		3.7	IND	PI88.788	Rps1c	2	1	N/A	N/A	N/A	2	1	4	N/A	1	1	N/A	Int	MT	P	LTW	BR	BL
NEW	CP3806XS		3.8	IND	PI88.788	Rps1c	4	2	Excluder	5	2	1	4	3	4	2	2	1	Int/Bush	M	W	GR	BR	IB
NEW	CP3940XF	CP3842XF/CP3941XF	3.9	IND	PI88.788	NG	3	2	Includer/N/A	N/A	N/A	N/A	1	N/A	5	2	2	N/A	Int/Bush	MT	P	LTW	BR	BL
NEW	CP3941XFS*		3.9	IND	PI88.788	NG	2	2	Includer	N/A	NG	N/A	1	N/A	5	1	2	1	Bush	T	P	LTW	BR	BL

KEY

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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–
- 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

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
- IT** = Imperfect Yellow

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SOYBEAN



WinPak® Variety Components

SCN Resistant Source
Determinate/Indeterminate
Relative Maturity

PRR Gene

Chloride Tolerance
SDS Tolerance
PRR Tolerance

SWM Tolerance
BSM Tolerance
Iron Chlorosis

Root-Knot Nematode
Frogeye Leaf Spot

Emergence
Stress Tolerance

Canopy Type

Plant Height
Flower Color

Pod Color

Hilum Color

ROUNDUP READY 2 XTEND®/XTENDFLEX®/ROUNDUP READY 2 YIELD® – RM: 4.0-4.9

NEW	CP3842XF*	4	IND	PI88.788	NG	3	1	N/A	N/A	4	1	1	5	2	1	N/A	Int/Bush	MT	P	LTW	BR	BL	
	CP4041XFS	4	IND	PI88.788	Rps1c	3	3	Includer	3	N/A	5	1	N/A	5	1	3	N/A	Int	T	P	GR	TN	IB
	CP4117XS	4.1	IND	PI88.788	NG	1	2	Includer	N/A	N/A	3	5	5	3	2	1	Int/Bush	M	P	GR	TN	BL	
NEW	CP4142XFS	4	IND	PI88.788	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	5	2	1	N/A	N/A	M	W	LTW	BR	BL	
	CP4516XS	4.5	IND	PI88.788	Rps1a	2	2	Excluder	N/A	N/A	1	1	5	2	2	2	Int	MT	W	TW	BR	BL	
	CP4520XS	4.5	IND	PI88.788	Rps1a/1c	2	2	Excluder	N/A	N/A	1	2	5	2	2	2	Int	MT	PW	TW/LTW	BR	BL	
	CP4541XFS	4.6	IND	PI88.788	Rps1c	3	2	Excluder	N/A	N/A	1	N/A	5	1	3	N/A	Int/Bush	T	P	LTW	BR	BL	
	CP4619XS*	4.6	IND	PI88.788	Rps1c	2	1	Excluder	N/A	N/A	1	2	5	2	2	1	Int	M	P	LTW	TN	BL	
	CP4811XS	4.8	IND	PI88.788	Rps1c	3	1	Excluder	N/A	N/A	1	2	5	2	2	N/A	Int	M	P	LTW	TN	BL	
	CP4825X	4.8	IND	PI88.788	Rps1a	1	1	Excluder	N/A	N/A	1	2	5	1	1	1	Int	M	P	LTW	TN	BL	
	CP4841XFS	4.8	IND	PI88.788	Rps1a	3	4	Includer	N/A	N/A	1	N/A	5	1	2	N/A	Int	MT	W	TW	BR	BL	

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1 = Resistant
2 = Moderately Resistant
3 = Moderately Resistant-
Moderately Susceptible
4 = Moderately Susceptible
5 = Susceptible

4 Canopy Type

Nar = Narrow
Int = Intermediate
Bush = Bushy
T = Tall
M = Medium
S = Short

5 Flower Color

P = Purple
W = White

6 Pod Color

TN = Tan
BR = Brown

7 Pubescence Type

GR = Gray
TW = Tan
LTW = Light Tan

8 Hilum Color

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

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SOYBEAN



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SCN Resistant Source 1					PRR Gene 2					Chlorite Tolerance					SWM Tolerance					Iron Chlorosis					Root-Knot Nematode 3					Emergence					Stress Tolerance					Canopy Type 4					Plant Height 5					Flower Color 6					Pod Color 7					Hilum Color 8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Determinate/Indeterminate					PRR Tolerance					SOS Tolerance					BSR Tolerance					Frogeye Leaf Spot 3					Standability					Growth Type					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress Tolerance					Stress 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KEY

Scale

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

Product descriptions and ratings are generated from AnswerPkg® 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
HRRs = 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
- T = Tall
- M = Medium
- S = Short

6 Flower Color

- P = Purple
- W = White

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
- TY = 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.

WinPaK® Variety Components

SCN Resistant Source
Relative Maturity

PRR Gene

Chloride Tolerance
SDS Tolerance
PRR Tolerance

Southern Stem Canker
Iron Chlorosis
SWM Tolerance
BSM Tolerance

Root-Knot Nematode
Fragrancy Leaf Spot
Emergence
Stress Tolerance

Canopy Type
Plant Height

Pubescent Type
Flower Color
Pod Color

Hilum Color

ENLIST E3®: 0.0-1.9

NEW	CP00729E	0.07	IND	P188.788	Rps1a	3	N/A	Includer	3	NG	2	N/A	N/A	1	3	3	Int	M	P	GR	BR	BF	
NEW	CP03320E	0.3	IND	P188.788	Rps1c/NG	3	N/A	Includer	3	NG	3	N/A	N/A	1	2	3	Int	M	PW	GR	TN	BF	
NEW	CP03322E*	0.3	IND	P188.788	Rps1c	2	N/A	Includer	2	NG	3	N/A	N/A	5	1	1	3	Int	M	P	GR	TN	BF
	CP03329E	0.3	IND	P188.788	NG	3	N/A	Includer	4	NG	2	1	N/A	N/A	1	2	2	Int	M	W	GR	TN	BF
	CP0520E	0.5	IND	P188.788/NG	Rps3a	2	N/A	Includer	3	1	2	N/A	N/A	1	2	2	Int/Bush	M	P	GR	BR/TN	BF	
NEW	CP0522E*	0.5	IND	P188.788	Rps3a	1	N/A	Includer	3	1	2	N/A	N/A	5	1	2	2	Int	M	P	GR	BR	BF
	CP0529E	0.5	IND	P188.788	Rps3a	2	N/A	Includer	4	1	3	N/A	N/A	N/A	1	2	1	Int/Bush	M	P	GR	TN	BF
	CP0721E	0.7	IND	P188.788	Rps1c/3a	1	N/A	Includer	2	NG	2	1	N/A	N/A	1	2	1	Int	MT	P	GR	BR	IB
	CP0820E	0.8	IND	P188.788	Rps1c,3a/NG	2	N/A	Includer/Excluder	2	NG	2	N/A	N/A	N/A	1	2	1	Int	M	P	GR	BR/TN	BF/IB
NEW	CP0822E*	0.8	IND	P188.788	NG	2	N/A	Excluder	2	NG	2	N/A	N/A	5	1	1	2	Int	M	P	GR	TN	BF
	CP1120E	1.1	IND	P188.788	Rps1c/NG	2	2	Includer/Excluder	3	NG	2	N/A	N/A	N/A	1	2	2	Int	MT	P	GR	BR/TN	IB
	CP1121E	1.1	IND	P188.788	NG	2	2	Includer	3	NG	2	1	N/A	N/A	1	2	1	Int	MT	P	GR	BR	IB
NEW	CP1222E*	1.2	IND	P188.788	Rps1c	2	2	Excluder	3	NG	2	N/A	N/A	5	1	2	2	Int	MT	P	GR	TN	IB
NEW	CP1422E*	1.4	IND	P188.788	NG	2	2	Includer	3	1	3	N/A	N/A	5	1	2	2	Int	MT	P	L7W	TN	BL
NEW	CP1422E*	1.4	IND	P188.788	Rps3a/NG	2	2	Includer	3	1	3	N/A	N/A	5	1	2	2	Int	MT	P	GR/L7W	TN	BF/BL
NEW	CP1430E	1.4	IND	P188.788	Rps3a	1	2	Includer	3	1	2	N/A	N/A	5	1	2	2	Int	M	P	GR	TN	BF
NEW	CP1522E	1.5	IND	P188.788	Rps3a	2	3	Includer	2	NG	2	N/A	N/A	N/A	1	2	2	Int	M	P	GR	BR	IB
	CP1721E	1.7	IND	P188.788	Rps1k	1	2	Includer	3	3	2	N/A	N/A	5	1	2	1	Int	MT	P	GR	TN	BF
NEW	CP1722E*	1.7	IND	P188.788	Rps3a	1	2	Includer	3	3	2	N/A	N/A	5	1	2	1	Int	MT	P	GR	TN	BF
NEW	CP1822E*	1.8	IND	P188.788	Rps1c	3	3	N/A	1	2	3	1	N/A	N/A	2	2	N/A	Int	M	P	GR	BR	IB
NEW	CP1830E	1.8	IND	P188.788	Rps1c/3a	2	3	Includer/N/A	2	3	3	N/A	N/A	N/A	2	2	N/A	Int	MT	P	GR	BR/TN	BF/IB

KEY

Scale
1 = Excellent
2 = Strong
3 = Acceptable
4 = Manage
5 = Not Recommended
N6 = No gene present

1 SCN Resistant Source
Peking = These varieties contain
SCN resistance genes
from the Peking soybean
breeding lines
P188.788 = These varieties contain
SCN resistance genes
from the P188.788
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
TV = 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
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 This symbol indicates that there
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SOYBEAN



WinPak® Variety Components

SCN Resistant Source
Relative Maturity

PRR Gene

Chloride Tolerance
SDS Tolerance
PRR Tolerance

SWM Tolerance
BSR Tolerance
Southern Stem Canker
Iron Chlorosis

Root-Knot Nematode
Frogeye Leaf Spot
Emergence

Stress Tolerance
Canopy Type
Plant Height

Pubescence Type
Flower Color
Pod Color

Hilum Color

ENLIST E3®: 2.0-3.2

NEW	CP2122E	2.1	IND	P188-788	Rps1c	2	3	N/A	2	2	3	1	N/A	N/A	2	2	N/A	Int	M	P	GR	BR	IB
NEW	CP2220E	2.2	IND	P188-788	Rps1c/NG	3	3	Includer/N/A	3	2	2	N/A	N/A	N/A	2	2	N/A	Int	MT	PW	GR	BR/TN	BF/IB
NEW	CP2222E*	2.2	IND	P188-788	Rps1c	3	3	N/A	3	2	2	1	N/A	N/A	2	2	N/A	Int	MT	P	GR	BR	IB
NEW	CP2232E*	2.2	IND	P188-788	NG	2	2	Includer	2	1	2	N/A	N/A	N/A	2	2	2	Int	MT	W	GR	TN	BF
NEW	CP2322E	2.3	IND	P188-788	Rps1c	2	1	N/A	2	2	2	1	N/A	N/A	2	2	N/A	Int	M	P	GR	BR	IB
NEW	CP2422E*	2.4	IND	P188-788	Rps1k	2	3	N/A	3	1	2	N/A	3	N/A	2	3	1	Int	MT	W	GR	TN	BF
NEW	CP2520E	2.5	IND	P188-788	Rps1k/NG	2	4	Includer/N/A	4	1	2	N/A	N/A	N/A	2	4	1	Int	MT	P/W	GR	BR/TN	BF/IB
NEW	CP2521E*	2.5	IND	P188-788	NG	2	4	Includer	4	1	1	N/A	N/A	N/A	1	4	1	Int	MT	P	GR	BR	IB
NEW	CP2822E	2.8	IND	P188-788	Rps1k	2	3	N/A	N/A	NG	3	N/A	N/A	N/A	2	2	2	Int/Bush	MT	P	GR	BR	IB
NEW	CP2829E*	2.8	IND	P188-788	Rps1k	1	N/A	Includer	N/A	1	2	N/A	N/A	N/A	1	2	1	Int/Bush	MT	W	GR	TN	BF
NEW	CP2920E	2.9	IND	P188-788	Rps1k,1c/1k	2	N/A	Includer/N/A	N/A	N/A	2	N/A	N/A	N/A	1	2	N/A	Int/Bush	MT	W	GR	TN	BF
NEW	CP2922E*	2.9	IND	P188-788	Rps1k,3a	2	1	N/A	4	N/A	2	1	N/A	N/A	1	2	N/A	Int/Bush	M	W	GR	TN	BF
NEW	CP3022E	3.0	IND	P188-788	Rps1k,3a	2	2	N/A	4	N/A	2	1	N/A	N/A	1	2	N/A	Int/Bush	M	W	GR	TN	BF
NEW	CP3120E	3.1	IND	P188-788	Rps1c/NG	2	4	Includer	4	N/A	2	1	3	N/A	2	3	1	Int/Bush	MT	W	GR/LTW	BR	BF/BR
NEW	CP3121E*	3.1	IND	P188-788	NG	2	4	Includer	3	NG	2	1	4	N/A	2	2	1	Int/Bush	MT	W	LTW	BR	BR
NEW	CP3131E*	3.1	IND	P188-788	Rps1c	1	3	Includer	4	3	2	1	1	N/A	1	3	1	Int/Bush	MT	W	GR	BR	BF
NEW	CP3222E*	3.2	IND	P188-788	NG	2	2	Includer	4	NG	3	N/A	2	N/A	1	2	1	Bush	MT	P	GR	TN	IB

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1 SCN Resistant Source

Peking = Three varieties contain SCN resistance genes from the Peking soybean breeding lines
P188-788 = Three varieties contain SCN resistance genes from the P188-788 soybean breeding lines

2 PRR Gene

Rps = Resistance to Phytophthora sojae
HRRs = Heterozygous segregating Rps occurrence

3 Southern Stem Canker and Root-Knot Nematode

- 1 = Resistant
- 2 = Moderately Resistant
- 3 = Moderately Resistant~
- 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
TY = Imperfect Yellow

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WinPaK® Variety Components																																																	
		Determinate/Indeterminate		Relative Maturity		PRR Gene		Chloride Tolerance		SDS Tolerance		PRR Tolerance		SWM Tolerance		BSR Tolerance		Southern Stem Canker		Iron Chlorosis		Root-Knot Nematode		Fragrancy Leaf Spot		Emergence		Stress Tolerance		Canopy Type		Plant Height		Pubescence Color		Flower Color		Pod Color		Hilum Color									
		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19											
ENLIST E3®: 3.3-4.9																																																	
NEW	CP3320E	CP3222E*/CP3321E*	3.3	IND	PI88.788	NG	2	3	Includer	4	N/A	3	N/A	3	N/A	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	N/A	1	3	1	Bush	MT	P	LTW	BR	BR																									
NEW	CP3422E		3.4	IND	PI88.788	NG	2	2	Includer	3	1	2	N/A	3	N/A	1	2	1	Int	MT	P	LTW	BR	BL																									
	CP3620E	CP3621E/CP3622ES*	3.6	IND	PI88.788	Rps1k	2	2	Includer	4	1	N/A	N/A	4	N/A	2	2	2	Int/Bush	MT	P	GR/LTW	BR/TN	BL/IB																									
	CP3621E		3.6	IND	PI88.788	Rps1k	2	2	Includer	4	1	N/A	1	4	N/A	2	2	1	Bush	MT	P	GR	TN	IB																									
NEW	CP3622ES*		3.6	IND	PI88.788	Rps1k	2	2	Includer	4	1	3	N/A	3	N/A	2	2	2	Int	MT	P	LTW	BR	BL																									
NEW	CP3722ES		3.7	IND	PI88.788	NG	N/A	2	N/A	N/A	N/A	N/A	N/A	5	2	2	2	N/A	N/A	M	W	GR	TN	BF																									
NEW	CP3822ES		3.7	IND	PI88.788	Rps1c	2	1	N/A	5	3	2	1	1	N/A	1	2	N/A	Int/Bush	MT	W	GR	TN	BF																									
	CP3920E	CP3922E*/CP4029E*	3.9	IND	PI88.788	Rps1k/NG	2	3	Includer	N/A	N/A	2	1	3	N/A	1	2	2	Int	MT	W	GR/LTW	BR/TN	BR/BF																									
NEW	CP3922E*		3.9	IND	PI88.788	Rps1k	2	3	Includer	N/A	NG	2	1	3	N/A	1	1	2	Int	MT	W	LTW	TN	BR																									
	CP4029E*		4	IND	PI88.788	NG	2	2	Includer	N/A	5	2	1	2	N/A	1	2	1	Int	MT	W	GR	BR	BF																									
NEW	CP4122E		4.1	IND	PI88.788	NG	3	3	Includer	N/A	N/A	N/A	N/A	2	5	1	2	N/A	Int/Bush	MT	W	LTW	BR	BR																									
NEW	CP4320ES	CP4331ES*/CP4322ES	4.3	IND	PI88.788	NG	3	3	Includer	N/A	N/A	N/A	1	2	5	1	1	N/A	Int	MT	PW	GR	BR	BF/IB																									
NEW	CP4322ES		4.3	IND	PI88.788	NG	3	3	Includer	N/A	N/A	N/A	1	2	5	1	1	N/A	Int	MT	P	GR	BR	IB																									
	CP4331ES*		4.3	IND	PI88.788	NG	2	2	Includer	N/A	N/A	2	1	2	5	1	1	2	Int	MT	W	GR	BR	BF																									
NEW	CP4422ES		4.5	IND	NG	N/A	N/A	3	N/A	N/A	N/A	N/A	3	5	2	3	N/A	N/A	MT	P	GR	BR	GR																										
	CP4521E		4.5	IND	PI88.788	Rps1a	2	2	Includer	N/A	NG	N/A	1	2	5	1	2	N/A	N/A	MT	P	GR	TN	IB																									
NEW	CP4822ES		4.9	IND	PI88.788	NG	3	3	Excluder	N/A	N/A	N/A	N/A	2	N/A	2	2	N/A	Int/Bush	MT	W	GR	BR	BF																									
	CP4921ES		4.9	IND	PI88.788	NG	3	3	Includer	N/A	N/A	N/A	1	1	5	1	3	2	Int/Nar	MT	W	GR	BR	BF																									

SCN Resistant Source									
PRR Gene									
Southern Stem Canker and Root-Knot Nematode									
Canopy Type									
Flower Color									
Pod Color									
Hilum Color									
Peking = These varieties contain SCN resistance genes from the Peking soybean breeding lines									
Rps = Resistance to Phytophthora sojae									
HRps = Heterozygous segregating Rps occurrence									
Nar = Narrow									
Int = Intermediate									
Bush = Bushy									
P = Purple									
W = White									
TN = Tan									
BR = Brown									
1 = Resistant									
2 = Moderately Resistant									
3 = Moderately Resistant~									
Moderately Susceptible									
N/A = Not Recommended									
T = Tall									
M = Medium									
S = Short									
GR = Gray									
TW = Tawny									
LTW = Light Tawny									
YE = Yellow/Clear									
BL = Black									
IB = Imperfect Black									
BR = Brown									
BF = Buff									
SL = Slate									
TN = Tan									

KEY

Scale

1 = Excellent

2 = Strong

3 = Acceptable

4 = Manage

5 = Not Recommended

NG = No gene present

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

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.



Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____



Going the extra mile isn't extra to us.

Our dedication goes way beyond a handshake or a pat on the back. We're fully committed to you and the success of your alfalfa crop from day one.

That means we'll work closely with you to help you select the best genetics for your field — pairing new traits with the latest technologies to give you your very best chance to produce higher-quality feed and optimize tonnage.

Meeting your expectations? Heck, we're more interested in beating them.

KEY TAKEAWAYS

- 1 Choose varieties with the traits that fit your fields and management.
- 2 Use coated seed to help you improve stand establishment and seed efficiency.
- 3 Manage in-season by Reading the Stand and harvesting and storing properly.

VARIETY SELECTION

FALL DORMANCY (FD) AND WINTERHARDINESS (WH)

- A higher FD number equals higher yield potential. A lower WH number equals more cold tolerance and stand persistence.
- Independent of breeding efforts, lower FD (more dormant) provides a significant increase in fiber digestibility potential.

PEST RESISTANCE

► Anthracnose Disease

- A severe stem and crown disease that causes defoliation. Multiple races, including a new race 5, can be present in late season.
- Varieties are now available with multi-race high resistance.
- It occurs most often under warm, moist conditions.
- It causes yield loss of up to 25%.
- Susceptible plants have large, sunken oval-to diamond-shaped lesions.
- Lesions can enlarge to girdle or kill plant. Girdled stems can exhibit a shepherd's hook.

► Aphanomyces Root Rot Disease

- Infects roots causing seedling stunting, reduced nodulation and poor root development.
- Commonly found in soils that are saturated, poorly drained, compacted or have limited water dispersal.
- Visual symptoms can include gray, water-soaked roots, yellowed cotyledons, and stunted growth that can result in limited yield production or stand failure.

- Varieties are now available with enhanced multi-race high resistance.

► Potato Leafhopper (PLH)

- Small, light-green insect that feeds on alfalfa plants, causing leaf tips to display a V-shaped yellowing.
- Varieties with glandular hairs provide natural nonpreference feeding for PLH.
- Commonly found in the Plains, Midwest and East; most severe in new seedlings and summer regrowth that causes yield reduction.

► Nematodes

- Microscopic roundworms (several identified species) that live in the soil, surface irrigation water, alfalfa roots and crown tissue.
- Can reduce yield and stand life and cause secondary infections from other diseases. Control them by planting a high-resistance alfalfa variety.
- Commonly found throughout most of the West and Plains.

► High-Salinity Soils

- Greenhouse tests provide baseline indicators of a varieties ability to germinate in high salinity conditions. Salt breeding nurseries provide greater insights to variety selection based on its ability to mitigate high-salinity stress conditions with more predictable performance for on-farm potential.
- Soils vary. Saline: high soluble salts. Sodic: high sodium ion content. Alkaline: soil pH that is higher than optimum (pH>8.0).
- Commonly found in the western half of the U.S.

► Aphids

- Can be a problem in dry periods; controlled by other predators in cool and/or wet periods.
- The blue aphid is the most damaging in the Southern Plains to the Southwest.

IN-SEASON MANAGEMENT

NEW SEEDING AND STAND ESTABLISHMENT

- Plant into a firm seedbed to control seed depth; seed-to-soil contact is crucial.
- Planting rates do not need to be adjusted for coated seed since bulk density is higher.
- The planting rate for alfalfa varies from region to region, but generally 18 to 20 lbs. per acre is recommended with a goal of about 25 plants per square foot at the end of the seeding year.

ESTABLISHED STANDS: READING THE STAND

- Each spring, determine potential winter damage or winterkill.
- Follow the Reading the Stand program to evaluate the alfalfa stand density and crown health of each field to determine current and future yield potential.

WEED CONTROL

- Control weeds early for a high-producing pure alfalfa stand. Roundup Ready® Alfalfa provides farmers with more flexible management strategies.

INSECT AND DISEASE CONTROL

- Control insects such as aphids (spotted, blue, pea, cowpea), alfalfa weevils and leafhoppers.
- Manage foliar leaf diseases and anthracnose.
- Choose alfalfa varieties with built-in resistance and use a spray application to control as necessary.

NUTRIENT MANAGEMENT

- Alfalfa requires a neutral soil pH (6.8 to 7.2) for high production. Take soil and plant tissue tests to monitor macronutrients and micronutrients.
- A healthy alfalfa plant will have a luxury supply of potassium, boron, sulfur and phosphorus.

HARVEST MANAGEMENT

- Manage leaf loss in-season with fungicide application and during harvest from over-handling during raking, merging, chopping or baling. New Leaf Percentage Test available to estimate leaf content in your alfalfa. See your CROPLAN® alfalfa dealer for more information.
- Wheel traffic can increase soil compaction and crown damage, leading to reduced crop regrowth and yield loss.

ALFALFA

2 of 2



COATED SEED

IMPROVE SEEDLING EFFICIENCY WITH COATED SEED

- Provides an ideal microenvironment with better imbibition (water uptake) and germination.
- Facilitates and enhances the addition of seed treatments/inoculants, which are applied by weight, not per seed; therefore, higher rates are applied on coated seed.
- Keeps treatments/inoculants close to or bound to the seed for more complete coverage.
- Increases vigor under disease pressure.
- Purdue reported an average 30% increase in seedling success for coated seed.¹

SEED COATING

► GroZone® plus Advanced Coating® Zn 34%

- Rhizobium bacteria to fix nitrogen.
- Micronutrient package to provide zinc and manganese.
- Ascend® PGR to promote early seedling growth.
- Apron XL® fungicide to help protect seedlings from root diseases such as phytophthora during establishment.
- Stamina® fungicide to provide additional protection to multiple races of aphanomyces root rot disease.
- Provides an average 30% increase in resistance to aphanomyces root rot as compared to standard treated commercial 9% coat.²

1. Alfalfa and Red Clover Stand Establishment Forage Management Day at Feldun-Purdue Agricultural Center, August 9, 2018. Seeding Date: May 2, 2018. Data collected on June 29, 2018.

2. Data from FGI trials in West Salem, Wis., 2018.

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

4. Data from an FGI trial in West Salem, Wis., comparing three cuttings at 35-day intervals to four cuttings at 28-day intervals. 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.

TRAITS

HARVXTRA® ALFALFA³

HarvXtra® Alfalfa with Roundup Ready® Technology is one of the most advanced alfalfa traits currently available, providing extra flexibility when it comes to cutting without sacrificing forage quality or yield potential.

- Gives you a more flexible cutting window to help manage your operation, putting you in control of your cutting schedule.
- Delivers a higher RFQ³ and NDFd³ than conventional varieties cut on the same day.
- Achieve up to 20% higher yield at harvest⁴ by lengthening your cutting window up to 10 days.

ROUNDUP READY® ALFALFA

- Offers application flexibility for greater weed-control options.
- Helps deliver a higher percentage of pure alfalfa for more high-quality hay and haylage.
- Delivers exceptional weed control and crop safety.

CONVENTIONAL ALFALFA

- Conventional alfalfa breeding techniques have provided strong advancements in yield production, stand persistence, and insect and disease resistance.
- For more than three decades, alfalfa breeders have used conventional alfalfa breeding techniques to select for improved fiber digestibility (e.g., LegenDairy and RR Presteez lines).
 - These varieties show an incremental improvement in fiber digestibility when compared to nonselected varieties.

ALFALFA FOR ORGANIC FORAGE PRODUCTION

- Alfalfa products that were developed through conventional breeding and were not the result of genetic engineering.*
- Approved varieties meet industry standards for LLP (low-level presence of bio-tech traits) and are noted on our variety detail pages.



APEX™ GREEN SEED COATING

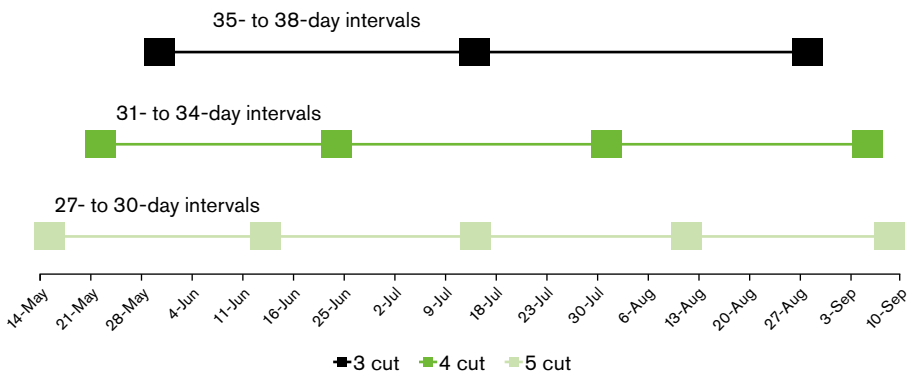
- OMRI Listed® for organic use.
- Includes natural micronutrients and nitrogen-fixing rhizobia in an organic hydration coating that maximizes water absorption.

FLEXIBILITY OF HARVXTRA® ALFALFA HAS NEVER BEEN MORE IMPORTANT

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

- Harvest first cutting ~28" (to avoid lodging), usually around May 25-30 in the Midwest.
- Delay summer cutting(s).
- Timely final harvest improves stand persistence; last cutting around Sept. 1 in northern regions and Sept. 5 in southern regions allow at least 500 growing degree days (GDD) before experiencing a killing frost of ≤25°F.
- Avoid mid-late October cuttings.

HARVXTRA® CUTTING SCHEDULE





HVX Tundra II

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



Characteristics

	Not Recommended			Excellent		
Yield Index				2		
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.

- 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
Dormancy: 4
Winterhardiness: 2



Characteristics

	Not Recommended			Excellent		
Yield Index				2		
Persistence Index					1	
Feed Quality*					1	
Disease Resistance				2		
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; excellent yield or forage quality potential with the HarvXtra® Alfalfa trait
- Good disease package provides exceptional 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
Dormancy: 4.2
Winterhardiness: 1.7



Characteristics

	Not Recommended			Excellent		
Yield Index					1	
Persistence Index					1	
Feed Quality*					1	
Disease Resistance					1	
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; exceptional soil disease resistance to help improve root and plant health
- Highest resistance (HR+) rating to multi-race Aphanomyces root rot disease (races 1, 2 and EMR); resistant (R) to multi-race anthracnose (including new race 5)
- Excellent quality and yield potential with a 3- to 5-cut flexible harvest system based on geography

NEW



HVX MegaTron AA

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



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 to support highest yield and quality potential
- Highest resistance (HR+) rating to multi-race Aphanomyces root rot disease (races 1, 2 and EMR); HR+ to multi-race anthracnose disease (including race 5)
- Exceptional yield potential ideal with a 3- to 5-cut flexible harvest system based on geography



HVX 620RR Brand

Regions: South|West
Dormancy: 6
Winterhardiness: -



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 now 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: Central|East|North|West
Dormancy: 7.9
Winterhardiness: -



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 disease 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

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

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CROPLAN Graze N Hay 3.10RR

WINFIELD UNITED

Regions: North|West

Dormancy: 2.9

Winterhardness: 1.8



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 winterhardness 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

WINFIELD UNITED

Regions: Central|East|North|West

Dormancy: 3.2

Winterhardness: 1.2



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

WINFIELD UNITED

Regions: Central|East|North

Dormancy: 3.9

Winterhardness: 1.8



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

CROPLAN RR AphaTron 2XT

WINFIELD UNITED

Regions: Central|East|North|West

Dormancy: 4

Winterhardness: 1.5



Characteristics

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

- Excellent 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 EMR
- Provides high yield and excellent forage quality potential under a 4- to 5-cut haylage or aggressive hay management system

CROPLAN RR Stratica

WINFIELD UNITED

Regions: Central|East|North|West

Dormancy: 4.3

Winterhardness: 2



Characteristics

	Not Recommended			Excellent		
Yield Index						1
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 winterhardness; ideally suited for a 4- to 5-cut haylage or aggressive hay management system

CROPLAN RR NemaStar

WINFIELD UNITED

Regions: West

Dormancy: 4.9

Winterhardness: 2.8



Characteristics

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

- Management and growth pattern is similar to Nimbus with the added benefit of the Roundup Ready® trait
- Developed and tested for high performance in field trials heavily infested with nematodes; high resistance 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

KEY

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RR Saltiva

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



Characteristics

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

- Exceptional performance in tough soils with high saline conditions
- Exceptional 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 Tonnica

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



Characteristics

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

- 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
Dormancy: 6
Winterhardiness: -



Characteristics

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

- 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
Dormancy: 8.5
Winterhardiness: -



Characteristics

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

- 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
Dormancy: 2
Winterhardiness: 2



Characteristics

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

- 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



MP 1000 Brand

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



Characteristics

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

- 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
- Available with Apex™ Green Seed Coating; OMRI Listed® for organic use

KEY

Scale

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

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NEW



LegenDairy AA

Regions: Central|East|North|West

Dormancy: 3.4

Winterhardiness: 1.1

Characteristics

	Not Recommended		Excellent	
Yield Index				1
Persistence Index				1
Feed Quality				1
Disease Resistance				1
Insect Resistance			2	
Nematode Resistance	5			

- The next generation of LegenDairy; the added AA disease resistance has advanced yield potential to new levels
- Highest resistance (HR+) rating to multi-race Aphanomyces root rot disease (races 1, 2, and EMR); 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



Rebound AA

Regions: Central|East|North|West

Dormancy: 4.4

Winterhardiness: 1.7

Characteristics

	Not Recommended		Excellent	
Yield Index				1
Persistence Index				1
Feed Quality			2	
Disease Resistance				1
Insect Resistance		3		
Nematode Resistance	5			

- Packs a punch with AA disease resistance providing exceptional yield potential
- Highest resistance (HR+) rating to multi-race Aphanomyces root rot disease (races 1, 2 and EMR); 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



TrailBlazer XHH

Regions: Central|East|North

Dormancy: 4

Winterhardiness: 3

Characteristics

	Not Recommended		Excellent	
Yield Index		3		
Persistence Index		3		
Feed Quality		3		
Disease Resistance		3		
Insect Resistance		3	2	
Nematode Resistance	5			

- 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



Gunner

Regions: Central|East|North|South|West

Dormancy: 4.9

Winterhardiness: 1.2

Characteristics

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

- 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- to optional 6-cut hay or haylage harvest schedule
- Available with Apex™ Green Seed Coating; OMRI Listed® for organic use



Gunner AA

Regions: Central|East|North|South|West

Dormancy: 4.8

Winterhardiness: 1.2

Characteristics

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

- Outstanding AA disease resistance combined with maximum yield potential
- High resistance (HR+) to multi-race Aphanomyces root rot disease (races 1, 2, and EMR); HR+ to multi-race anthracnose disease (including race 5)
- Very early spring growth, fast regrowth and late fall growth; ideal for aggressive 5- to optional 6-cut hay or haylage harvest schedule



Nimbus

Regions: Central|North|West

Dormancy: 5

Winterhardiness: 2.2

Characteristics

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

- 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

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.

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.



Artesian Sun 6.3

Regions: South|West
Dormancy: 6
Winterhardiness: 3.1

Characteristics

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

- 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 Quest®

Regions: South|West
Dormancy: 9
Winterhardiness: -

Characteristics

	Not Recommended				Excellent			
Yield Index								1
Persistence Index							2	
Feed Quality				3				
Disease Resistance				5				
Insect Resistance								1
Nematode Resistance								1

- 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 California, Arizona and New Mexico with exceptional stand persistence for numerous harvests per year



Sun Titan

Regions: South|West
Dormancy: 8.4
Winterhardiness: -

Characteristics

	Not Recommended				Excellent			
Yield Index								1
Persistence Index								1
Feed Quality							2	
Disease Resistance				5				
Insect Resistance								1
Nematode Resistance								1

- 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

KEY

Scale

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

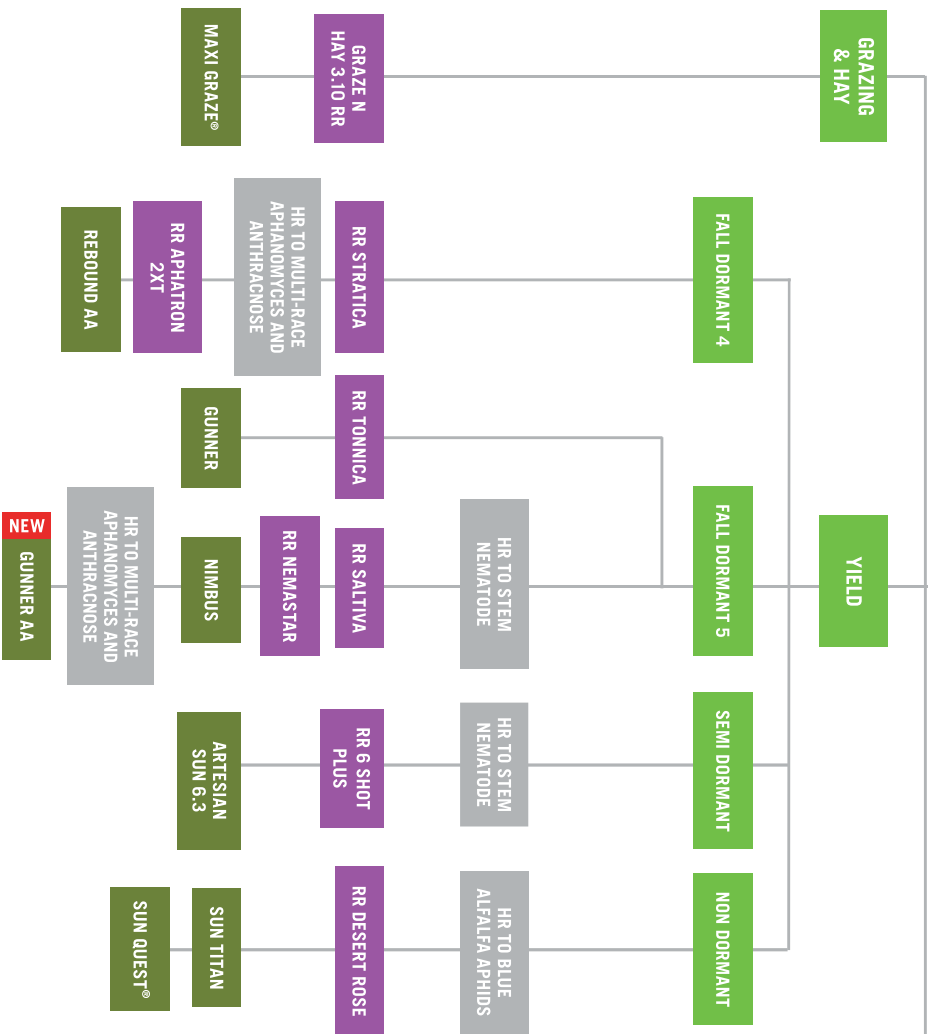
Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

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ALFALFA VARIETY PLACEMENT¹

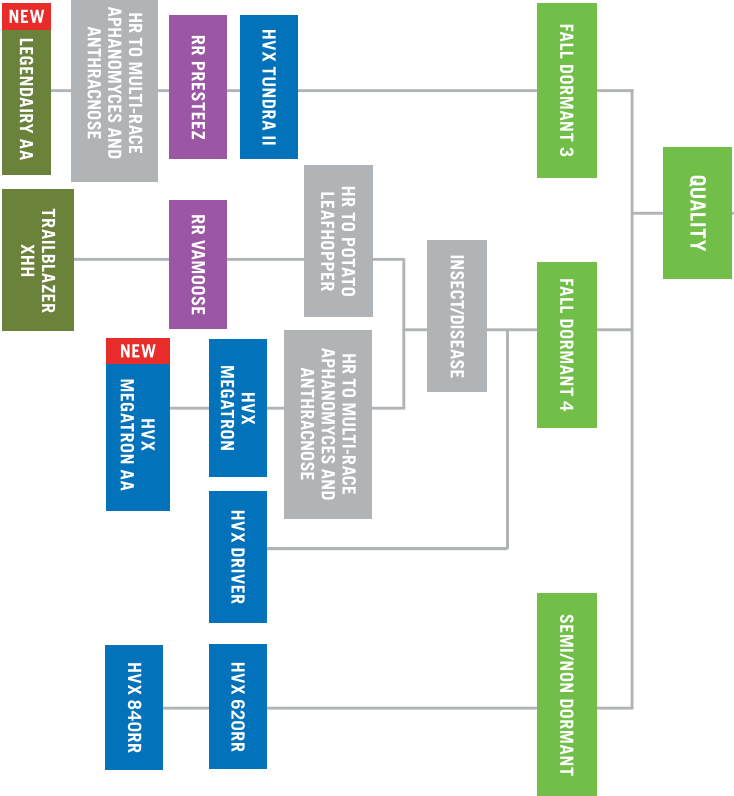
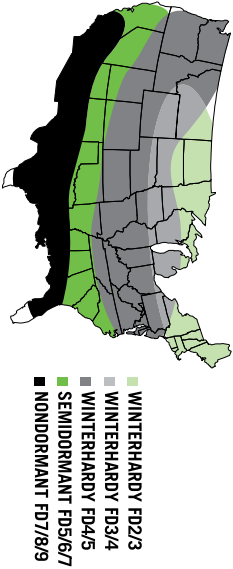
The map can be used to determine which alfalfa varieties are recommended for your area's climate challenges. Also, use the chart below to place the recommended variety to help manage common diseases and pests in your area, and to match quality to your desired cutting frequency.

- HARVYTRA[®] ALFALFA VARIETIES
- ROUNDUP READY[®] VARIETIES
- CONVENTIONAL VARIETIES
- VARIETIES WITH ADDITIONAL INSECT AND DISEASE RESISTANCE



PRODUCT DORMANCY MAP²

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



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

Train
 Fall Dormancy
 Winter Hardiness
 Feed Quality Index
 Persistence Index
 Grazing Tolerance
 Bred Hay (Dr-Yellow)
 Haylage (Regrain)
 Phytonhlor A Root Rot
 Potato Leafhopper
 Aphonomys Race 1
 Aphonomys Race 2
 Multi-Race (CMR)
 Anthracnose Enhanced
 Bacterial Wilt
 Anthracnose Multi-Race
 Fusarium Wilt
 Spotted Alfalfa Aphid
 Blue Alfalfa Aphid
 Stem Nematode
 Salt Germination Tolerance

HARVXTRA®/ROUNDUP READY® ALFALFA																			
HVX Tundra II	HarvXtra	3.3	1.2	2	1	H1	3	1	2	HR	-	HR	R	R	HR	HR	-	HR	-
HVX HarvaTron	HarvXtra	3.9	2.1	3	2	H2	3	2	2	HR	-	HR	HR	-	HR	HR	-	MR	R
HVX Driver	HarvXtra	4.0	2.0	2	1	H2	4	2	1	HR	-	HR	-	-	HR	HR	-	R	-
HVX MegaTron	HarvXtra	4.2	1.7	1	1	H2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	R	HR	-
NEW HVX MegaTron AA	HarvXtra	4.4	1.4	1	1	H2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	R	-
HVX 620RR Brand	HarvXtra	6.0	-	2	2	H3	5	1	1	HR	-	R	-	-	MR	R	-	HR	-
HVX 840RR Brand	HarvXtra	7.9	-	2	1	H3	5	1	1	R	-	-	-	-	R	R	-	R	-
Graze N Hay 3.10RR	Roundup Ready	2.9	1.8	3	1	3	1	1	1	4	HR	-	HR	-	HR	HR	-	HR	-
RR Presteez	Roundup Ready	3.2	1.2	2	1	1	3	1	2	HR	-	HR	-	-	HR	HR	-	HR	-
RR Vamoose	Roundup Ready	3.9	1.8	3	1	3	1	1	1	4	HR	HR	-	-	HR	HR	-	HR	-
RR Aphatron 2XT	Roundup Ready	4.0	1.5	1	1	2	4	2	1	HR	-	HR	HR	R	HR	HR	-	HR	-
RR Stratica	Roundup Ready	4.3	2.0	1	2	3	4	2	1	HR	-	HR	-	-	HR	HR	-	HR	-
RR Saltiva	Roundup Ready	4.8	2.5	1	2	3	4	1	1	HR	-	HR	-	-	HR	HR	-	HR	-
RR NemaStar	Roundup Ready	4.9	2.8	1	2	1	3	2	1	HR	-	HR	-	-	HR	HR	-	HR	-
RR Tomnica	Roundup Ready	5.0	2.0	1	2	3	4	2	1	HR	-	HR	-	-	HR	HR	-	HR	-
RR 6 Shot Plus	Roundup Ready	6.0	-	1	2	3	4	1	1	HR	-	R	-	-	R	HR	-	HR	-
RR Desert Rose	Roundup Ready	8.5	-	1	2	3	5	1	1	HR	-	-	-	-	MR	HR	-	HR	-

KEY

Scale

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- 2 = Strong
- 3 = Acceptable
- 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

6 = 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.

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

Train
 Winterhardness
 Feed Quality Index
 Persistence Index
 Grazing Tolerance
 Baled Hay (Dr-Yellow)
 Haylage (Regrrowth)
 Phytonthiora Root Rot
 Potato Leafhopper
 Aphanomyces Race 1
 Aphanomyces Race 2
 Multi-Race (CMR)
 Anthracnose Enhanced
 Bacterial Wilt
 Anthracnose Multi-Race
 Fusarium Wilt
 Verticillium Wilt
 Spotted Alfalfa Aphid
 Blue Alfalfa Aphid
 Stem Nematode
 Salt Germination Tolerance

CONVENTIONAL ALFALFA																			
Maxi Graze®	Conventional	2.0	2.0	3	1	3	1	4	HR	-	R	-	-	HR	R	-	HR	R	-
MP 1000 BRAND	Conventional	3.0	3.0	3	3	3	3	2	3	HR	-	R	-	-	HR	HR	-	HR	R
LEGENDARY XHD	Conventional	3.2	1.2	2	1	1	3	1	2	HR	-	HR	-	-	HR	HR	-	HR	R
LEGENDARY AA	Conventional	3.4	1.1	1	1	1	3	1	1	HR	-	HR+	HR+	HR	HR+	HR	HR	R	R
TRAILBLAZER XHH	Conventional	4.0	3.0	3	3	3	4	1	3	HR	HR	HR	-	-	HR	HR	-	HR	R
REBOUND 6XT	Conventional	4.3	1.5	1	1	2	4	2	1	HR	-	HR	HR	R	HR	HR	-	HR	R
REBOUND AA	Conventional	4.4	1.7	1	1	2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	HR	R
GUNNER AA	Conventional	4.8	1.2	1	1	2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	HR	R
GUNNER	Conventional	4.9	1.2	2	1	2	4	2	1	HR	-	HR	-	-	HR	HR	-	HR	R
NIMBUS	Conventional	5.0	2.2	1	2	2	4	1	1	HR	-	HR	-	-	HR	HR	-	HR	R
ARTESIAN SUN 6.3	Conventional	6.0	3.1	1	2	3	4	1	1	HR	-	HR	-	-	R	HR	-	HR	R
SUN TITAN	Conventional	8.4	-	1	1	2	5	1	1	HR	-	-	-	-	MR	R	-	HR	MR
SUN QUEST®	Conventional	9.0	-	1	2	3	5	1	1	MR	-	-	-	-	MR	R	-	R	-

KEY

Scale

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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.

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



Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

CORN SILAGE



Shortcuts. You don't take them; neither do we.

You have questions about how to improve corn silage yield. Together, we'll find the answers. We partner with you to select our Data Proven (high quality x high tonnage) silage products, diagnose pest problems and figure out your exact plant nutrition needs throughout the growing season. We understand the importance of having the right levels of quality nutrients in your silage. This is good news for you. It's even better news for your corn silage crop.

KEY TAKEAWAYS

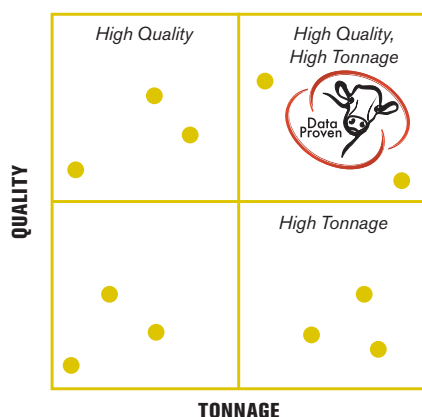
- 1 Select hybrids based on forage quality and tonnage needs.
- 2 Properly harvest and store your crop.

SELECT HYBRIDS FOR QUALITY AND TONNAGE

This scatter graph illustrates yield as tonnage per acre on the horizontal axis and milk per ton as quality on the vertical axis. The lines through the center represent the trial average.

Each year, replicated corn silage trials are planted at Answer Plot® locations nationwide. After harvest, data is compiled and summarized over multiple years and locations to provide a performance snapshot.

Considering both nutrient requirements and agronomic factors during hybrid selection is an important risk-management tool for corn silage products. CROPLAN® corn silage hybrids that consistently perform in this high-quality and high-tonnage quadrant are marked with the Data Proven logo.



Your nutritionist can determine the parameters for nutrient needs, and your WinField United representative can use Answer Plot® data in the R7® Tool to help position each hybrid for optimal performance based on multiple variables.

SEE HOW SEED MEASURES UP

The CHT function of the R7® Tool uses Answer Plot® program data to compare CROPLAN® seed products, as well as seed from other major companies, to see how they are projected to perform in fields like yours. CHT charts show how various hybrids are projected to perform at high and low plant populations when compared to the following categories:*

- Yield
- Milk per acre
- NDFD
- Starch

*Other categories are available.

SILAGEFIRST® SEED LINE DELIVERS

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

LEAFY HYBRIDS

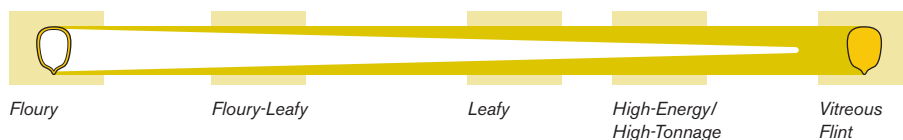
- Leafy stalks are thicker and more digestible, with larger ears to produce more energy.

FLOURY-LEAFY HYBRIDS

- At feedout, flourey-leafy products effectively bridge the gap between the previous year's corn silage pile and the current year's feed.
- Leafy and flourey-leafy hybrids may not contain a high level of total starch, but have a softer kernel texture that is easily broken during the chopping, storage and chewing process. This allows starch to be readily digested for more available energy.

HIGH-ENERGY/HIGH-TONNAGE HYBRIDS

- These hybrids have more flexibility in harvest and feedout as grain or high-energy/high-tonnage silage when used in combination with leafy and flourey-leafy hybrids.
- These are appropriate for feeding after the 120+ day post-ensiling period, when they reach optimum starch and fiber digestibility.



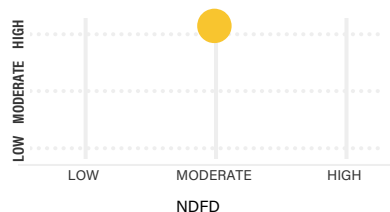
CROPLAN CP184RR

Relative Maturity: 80 Days



Tonnage vs NDFD

Tonnage



- 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				

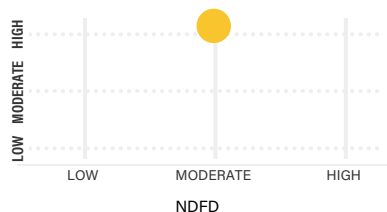
CROPLAN CP2790VT2P/RIB

Relative Maturity: 87 Days



Tonnage vs NDFD

Tonnage



- 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

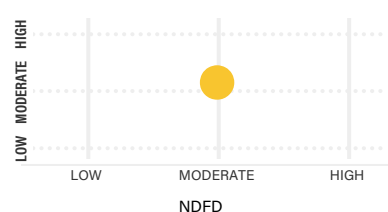
[VT2P/RIB]*

Relative Maturity: 89 Days



Tonnage vs NDFD

Tonnage



- 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

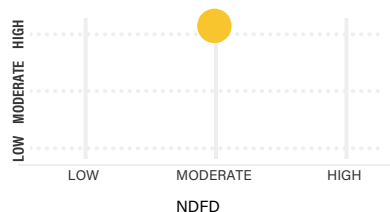
[RR]

Relative Maturity: 89 Days



Tonnage vs NDFD

Tonnage



- 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			

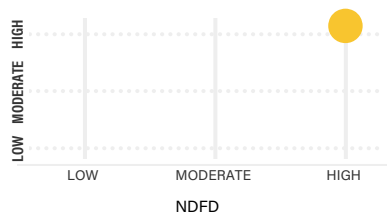
CROPLAN CP3200SRR

Relative Maturity: 93 Days



Tonnage vs NDFD

Tonnage



- Flouxy 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 medium to 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		

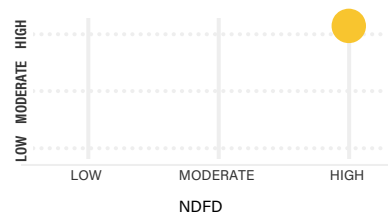
CROPLAN CP3490VT2P/RIB

Relative Maturity: 94 Days



Tonnage vs NDFD

Tonnage



- 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			

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.

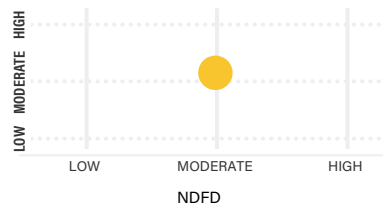
CROPLAN CP3399SS/RIB

[VT2P/RIB]*

Relative Maturity: 94 Days

SmartStax
RIB COMPLETE**Tonnage vs NDFD**

Tonnage



- 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

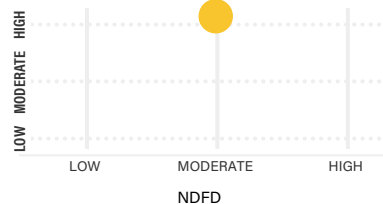
	Not Recommended			Excellent		
Seedling Vigor				2		
Drought Tolerance				2		
Root Strength				2		
Tonnage Potential			3			
Milk/Acre			3			
Starch			3			

CROPLAN CP3499VT2P/RIB

Relative Maturity: 94 Days

VTDoublePRO
RIB COMPLETE**Tonnage vs NDFD**

Tonnage



- Excellent consistency in all yield environments from east to west
- Offers strong roots, stalks and staygreen
- Some ear flex, although great stress tolerance allows for higher planting populations

Characteristics

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

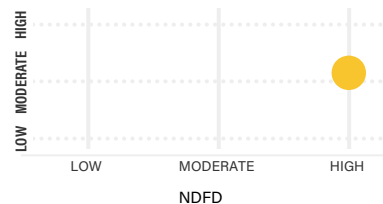
CROPLAN CP3575VT2P/RIB

[VT2P/RIB]*

Relative Maturity: 95 Days

SmartStax
RIB COMPLETE**VTDoublePRO**
RIB COMPLETE**Tonnage vs NDFD**

Tonnage



- 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

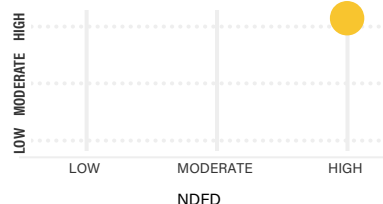
	Not Recommended			Excellent		
Seedling Vigor				2		
Drought Tolerance			3			
Root Strength				2		
Tonnage Potential			3			
Milk/Acre			3			
Starch			3			

CROPLAN CP3795VT2P/RIB

Relative Maturity: 97 Days

VTDoublePRO
RIB COMPLETE**Tonnage vs NDFD**

Tonnage



- Large plant with good digestibility ratings
- Improved Goss's wilt tolerance over 3899; strong stalks, roots and seedling vigor
- Low response to fungicide
- Optimize yield potential with enhanced nitrogen management

Characteristics

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

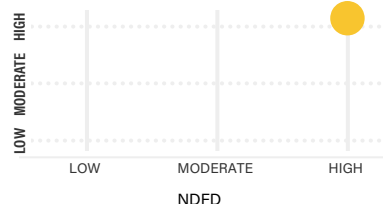
CROPLAN CP3735SS/RIB

[VT2P/RIB]*

Relative Maturity: 97 Days

SmartStax
RIB COMPLETE**Tonnage vs NDFD**

Tonnage



- 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

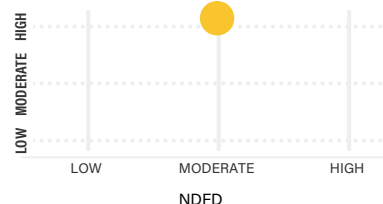
	Not Recommended			Excellent		
Seedling Vigor					1	
Drought Tolerance			3			
Root Strength				2		
Tonnage Potential				2		
Milk/Acre					1	
Starch			3			

CROPLAN CP3899VT2P/RIB

Relative Maturity: 98 Days

VTDoublePRO
RIB COMPLETE**Tonnage vs NDFD**

Tonnage



- 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		

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



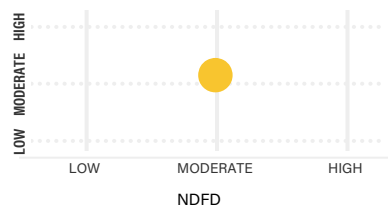
CP3980VT2P/RIB

Relative Maturity: 99 Days



Tonnage vs NDFD

Tonnage



- 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
- Low response to nitrogen provides consistent performance across variable soils
- Harvest timely to avoid excess drydown

Characteristics

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



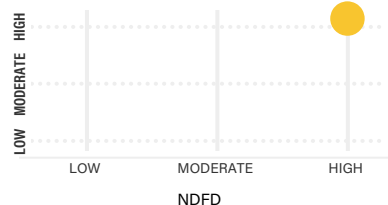
CP4099SS/RIB

Relative Maturity: 100 Days



Tonnage vs NDFD

Tonnage



- 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		
Seeding Vigor					1	
Drought Tolerance				2		
Root Strength					1	
Tonnage Potential				2		
Milk/Acre				2		
Starch			3			



CP4079SS/RIB

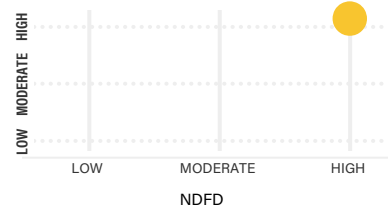
[VT2P/RIB]*

Relative Maturity: 100 Days



Tonnage vs NDFD

Tonnage



- 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		
Seeding Vigor				2		
Drought Tolerance				2		
Root Strength					1	
Tonnage Potential				2		
Milk/Acre				2		
Starch			3			



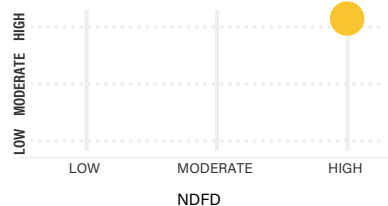
CP4100SVT2P/RIB

Relative Maturity: 101 Days



Tonnage vs NDFD

Tonnage



- 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		
Seeding Vigor			5			
Drought Tolerance				2		
Root Strength				2		
Tonnage Potential					1	
Milk/Acre					1	
Starch		4				



CP4188VT2P/RIB

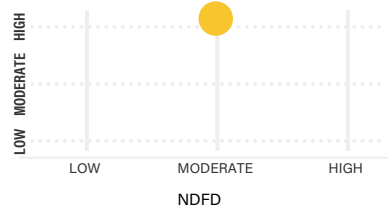
[SS/RIB*, CONV]

Relative Maturity: 101 Days



Tonnage vs NDFD

Tonnage



- 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

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



CP4199SS/RIB

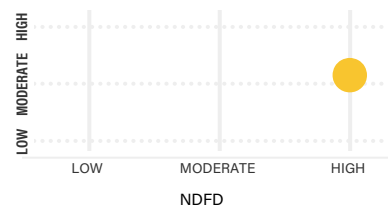
[VT2P/RIB]*

Relative Maturity: 101 Days



Tonnage vs NDFD

Tonnage



- Dual-purpose hybrid adapted to fields with variable soils
- Excellent heat and drought tolerance
- Offensive product also performs well in lower-yielding environments
- Offers a bit more ear flex than 4099

Characteristics

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

KEY

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

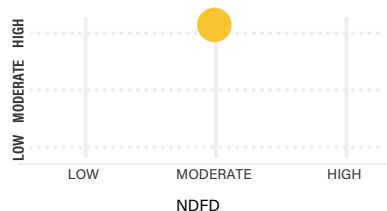
CROPLAN CP4242SS/RIB

[VT2P/RIB]*

Relative Maturity: 102 Days

**Tonnage vs NDFD**

Tonnage



- Excellent consistency from east to west
- Solid agronomics with acceptable staygreen; strong stalks, roots and Goss's wilt tolerance
- Has nice ear flex for low-to-medium densities

Characteristics

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

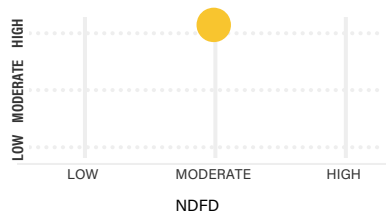
CROPLAN CP4203SS/RIB

[VT2P/RIB]*

Relative Maturity: 102 Days

**Tonnage vs NDFD**

Tonnage



- Medium-height hybrid with very high tonnage-potential
- Tolerates heat well; excellent greensnap tolerance
- Works well across most yield environments
- Optimize yield with enhanced nitrogen management

Characteristics

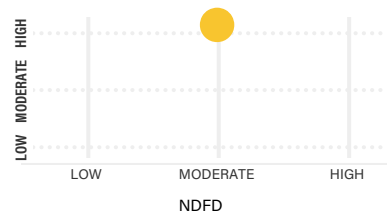
	Not Recommended			Excellent		
Seedling Vigor			3			
Drought Tolerance				2		
Root Strength				2		
Tonnage Potential						1
Milk/Acre						1
Starch			3			

CROPLAN CP4819AS3000GT

Relative Maturity: 103 Days

**Tonnage vs NDFD**

Tonnage



- Tall hybrid with high tonnage potential
- Medium ear placement and solid agronomics
- Highly responsive to nitrogen fertility
- Excellent Goss's wilt tolerance

Characteristics

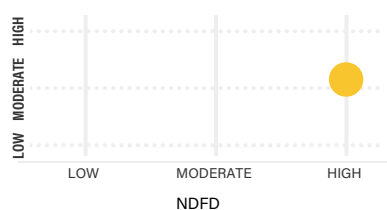
	Not Recommended			Excellent		
Seedling Vigor				2		
Drought Tolerance				2		
Root Strength				2		
Tonnage Potential				2		
Milk/Acre				2		
Starch			3			

CROPLAN CP4444VT2P

Relative Maturity: 104 Days

**Tonnage vs NDFD**

Tonnage



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

Characteristics

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

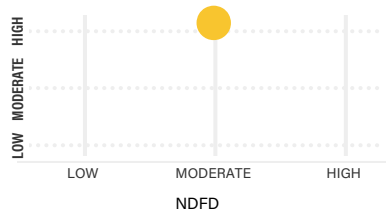
CROPLAN CP4488SS/RIB

[VT2P/RIB]*

Relative Maturity: 104 Days

**Tonnage vs NDFD**

Tonnage



- Best-positioned in high-yield environments
- Solid roots and good Goss's wilt tolerance
- High response to population, nitrogen and fungicide; well-adapted to corn-on-corn acres
- Tall hybrid with acceptable stalks

Characteristics

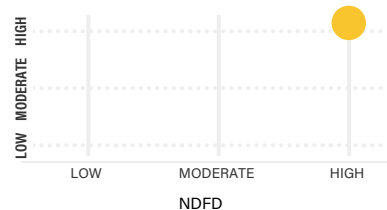
	Not Recommended			Excellent		
Seedling Vigor			3			
Drought Tolerance				2		
Root Strength				2		
Tonnage Potential				2		
Milk/Acre				2		
Starch				2		1

CROPLAN CP4676SS/RIB

Relative Maturity: 106 Days

**Tonnage vs NDFD**

Tonnage



- 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 with GLS pressure

Characteristics

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

KEY

Scale

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



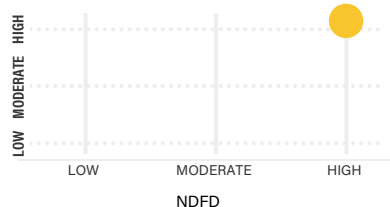
CP4600SSS/RIB

Relative Maturity: 106 Days



Tonnage vs NDFD

Tonnage



- Leafy top performer in Answer Plot® research plots for two years at 106-day maturity
- Very tall hybrid with erect dark-green leaves
- Large flex ears with soft kernels; best in productive, high-fertility soils

Characteristics

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



CP4791AS3111

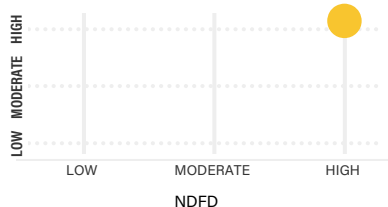
[ASGT]

Relative Maturity: 107 Days



Tonnage vs NDFD

Tonnage



- Medium-tall silage hybrid with great late-staygreen agronomics
- Tough hybrid; semi-flexed ear handles droughty soils and corn-on-corn acres
- High-starch hybrid; doesn't need high populations
- Excellent disease package, including for gray leaf spot and Goss's wilt

Characteristics

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



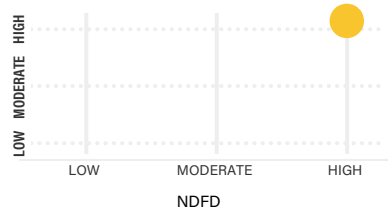
CP5000SAS3122-EZ

Relative Maturity: 110 Days



Tonnage vs NDFD

Tonnage



- Very tall hybrid with girthy stalks that deliver high tonnage potential
- Strong performer with medium-high population and high nitrogen rates
- Keep north of 109-day zone as full-season; best east of Iowa and the Pacific Northwest
- Avoid overpopulating and poorly drained heavy clay soils

Characteristics

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



CP5073SS/RIB

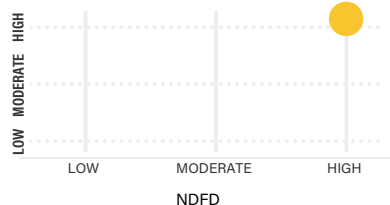
[VT2P/RIB]*

Relative Maturity: 110 Days



Tonnage vs NDFD

Tonnage



- 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		



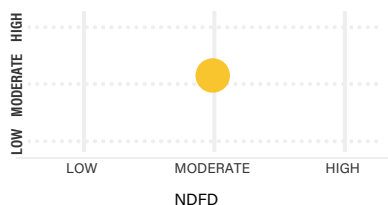
CP6110VT2P/RIB

Relative Maturity: 110 Days



Tonnage vs NDFD

Tonnage



- 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	



CP5115SS/RIB

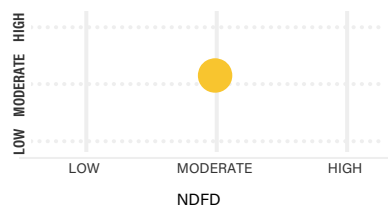
[VT2P/RIB]*

Relative Maturity: 111 Days



Tonnage vs NDFD

Tonnage



- 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		

KEY

Scale

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CP5290DGV2P/RIB

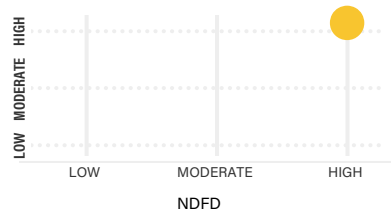
[SS/RIB]*

Relative Maturity: 112 Days



Tonnage vs NDFD

Tonnage



- Versatile hybrid allows for a range of populations and yield environments.
- High-tonnage hybrid with the DroughtGard* trait
- Excels at high populations with high nitrogen rates
- Very good agronomics, but will benefit from fungicides

Characteristics

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



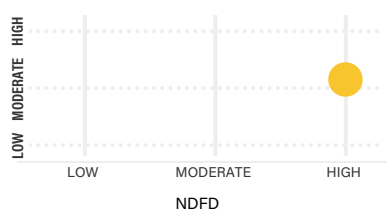
CP5277AS3220-EZ

Relative Maturity: 112 Days



Tonnage vs NDFD

Tonnage



- Consistent high-yielding product has solid performance east to west
- Medium-tall plant with solid agronomics, plant health, staygreen and grain quality
- Optimize yield potential with moderate plus populations; needs fungicide and nitrogen management

Characteristics

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



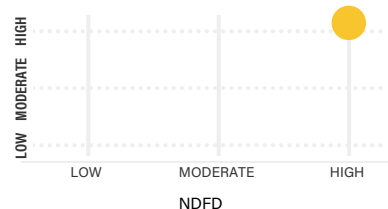
CP5244VT2P/RIB

Relative Maturity: 112 Days



Tonnage vs NDFD

Tonnage



- 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



CP5370SS/RIB

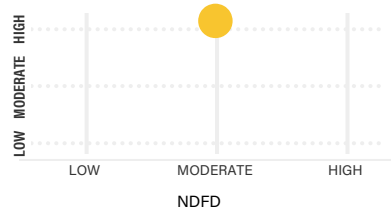
[VT2P/RIB]*

Relative Maturity: 113 Days



Tonnage vs NDFD

Tonnage



- 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		



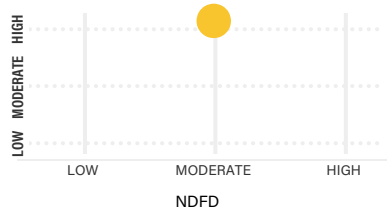
CP5550VT2P/RIB

Relative Maturity: 115 Days



Tonnage vs NDFD

Tonnage



- 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				



CP5678VT2P/RIB

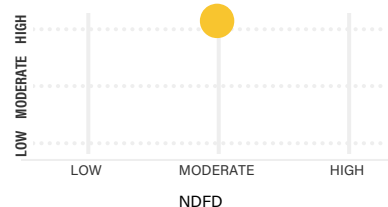
[SS/RIB]*

Relative Maturity: 116 Days



Tonnage vs NDFD

Tonnage



- 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			

KEY

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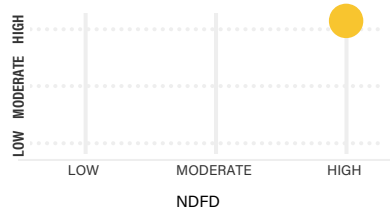
CP5700SVT2P/RIB

Relative Maturity: 117 Days



Tonnage vs NDFD

Tonnage



- Top hybrid in silage trials for both tonnage 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		



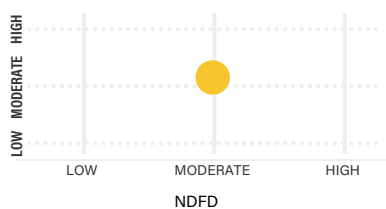
CP5789VT2P/RIB

Relative Maturity: 117 Days



Tonnage vs NDFD

Tonnage



- 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	



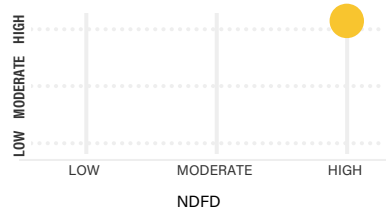
CP5900SVT2P/RIB

Relative Maturity: 119 Days



Tonnage vs NDFD

Tonnage



- 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

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

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BRAND																								Calibrate® Fiber Rating ⁷	
CP184RR	80	M-T	M	FL	E	16-18	M	L	H	M	2	2	2	3	1	3	2	3	3	3	4	3	4	S	-
NEW CP2790VT2P/RIB*	87	M-T	M	SF	E	16-18	L	M	M	H	1	2	3	1	-	2	3	3	3	3	1	3	3	N/A	N/A
CP2845SS/RIB*	89	M-T	M	SF	E	16-18	H	H	L	H	1	1	3	1	1	1	3	3	4	3	2	2	4	MS	MS
CP2965VT2P/RIB*	89	M	M	SF	M	14-16	M	H	L	M	1	2	3	2	-	2	2	3	3	3	3	3	2	MF	M
NEW CP3200SRR	93	T	M	FL	M	14-16	N/A	N/A	N/A	N/A	2	2	2	2	-	1	1	2	2	2	2	3	3	MF	MF
CP3399SS/RIB*	94	M	M	SF	M	16-18	M	H	M	M	2	2	2	2	1	2	3	3	4	3	3	3	4	MS	MS
CP3499VT2P/RIB*	94	M-S	M-L	SF	L	16-18	M	M	M	M	1	2	2	2	-	2	2	3	3	3	3	3	2	MF	M
NEW CP3490VT2P/RIB	94	M-T	M-H	SF	M-L	18-20	M	L	M	H	1	3	3	2	-	1	1	2	3	3	2	3	2	M	M
CP3575VT2P/RIB*	95	M	M	SF	M-L	16-18	H	H	M	M	2	2	2	2	3	1	2	3	3	1	3	3	1	M	M
CP3735SS/RIB*	97	M	M	SF	M	16-18	M	H	M	M	1	2	2	3	-	2	1	1	3	3	3	2	1	MF	MF
CP3795VT2P/RIB*	97	M-T	M-H	SF	M-L	16-18	M	H	M	M	2	2	3	1	1	1	2	2	2	3	4	3	1	M	MS
CP3899VT2P/RIB*	98	M-T	M-H	SF	L	16-20	H	H	M	M	1	2	2	2	1	3	1	1	3	3	2	3	3	MF	M
NEW CP3980VT2P/RIB	99	M-T	M-H	SF	M	14-16	M	L	L	M	2	1	3	3	-	3	3	3	3	2	1	3	3	M	MS
CP4099SS/RIB*	100	M-T	M	SF	L	16-20	H	H	M	H	1	1	3	2	1	3	2	2	2	3	3	3	3	S	MS
CP4079SS/RIB*	100	M-T	M	SF	M	14-16	M	H	H	M	2	1	3	2	-	2	2	2	2	2	3	3	2	M	MF
CP4100SVT2P/RIB*	101	T	M	SF	M	16-18	N/A	N/A	N/A	M	3	2	-	2	2	2	1	1	2	3	4	3	2	MF	MF
CP4188VT2P/RIB*	101	M	M	SF	M	16-18	M	M	L	M	1	1	1	2	-	1	2	3	2	3	2	2	2	MS	MS
CP4199SS/RIB*	101	M	M	SF	M	16-18	H	M	M	M	1	1	3	1	1	2	3	2	2	2	3	3	2	MF	MF
CP4188VT2P/RIB*	101	M	M	SF	M	16-18	M	M	L	M	1	1	1	2	-	1	2	3	2	3	2	2	2	M	MS
CP4242SS/RIB*	102	M-T	M	FL	M	14-16	M	L	L	L	2	2	3	2	2	2	2	3	4	2	1	3	4	-	-
CP4203SS/RIB*	102	M	M	SF	M	14-16	H	H	H	M	3	2	3	2	-	1	1	3	3	3	3	2	1	M	MS
CP4819AS3000GT	103	T	M-H	FL	M	16-18	M	H	M	M	2	2	3	2	1	2	2	2	3	3	3	3	3	MF	-

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- XI = Extra tall
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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/RTCC/RTF Ratings

- L = Low Response
M = Moderate Response
H = High Response
TBD = to be tested in 2021

6 Calibrate® Starch Rating

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

7 Calibrate® Fiber Rating

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

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 RIM guidelines and refuge configurations to preserve the benefits and insect protection of these technology crops.

BRAND	Relative Maturity	Plant Height 1	Ear Height 2	Ear Flex 3	Flower Date 4	Kernel Rows	Population (RP) 5	Response to Nitrogen (RM) 6	Response to Corn (RTCC) 7	Fungicide (RTF) 8	Seeding to Root Strength 9	Drought Tolerance	Early Planting	Late Planting	Tonnage Potential	# Milk/Acre	% NDTD	% NDF	% Starch	% Crude Protein	Calibrate® Starch Rating 10	Calibrate® Fiber Rating 11				
	CP4819AS3000GT*	103	T	M-H	FL	M	16-18	M	H	M	M	2	2	3	2	1	2	2	2	3	3	3	M			
	CP4444VT2P	104	T	M-H	SF	M-L	14-16	H	L	H	L	1	2	3	3	-	-	3	3	2	1	1	4	M		
	CP4488SS/RIB*	104	T	M-H	SF	M	16-18	H	H	H	H	3	2	3	2	2	2	2	2	4	3	1	3	M		
	CP4488SS/RIB*	104	T	M-H	SF	M	16-18	H	H	H	H	3	2	3	2	2	2	2	2	4	3	1	3	M		
	CP4676SS/RIB*	106	M	M	SF	M	16-18	M	H	H	H	M	1	3	1	3	-	-	2	2	1	2	3	2	1	M
	CP4600SSS/RIB*	106	T	M	FL	M	16-18	N/A	N/A	N/A	N/A	2	2	-	3	2	2	2	2	2	4	4	3	3	M	
	CP4676SS/RIB*	106	M	M	SF	M	16-18	M	H	H	H	M	1	3	1	3	-	-	2	2	1	2	3	2	1	M
	CP4791AS3111	107	M-T	M	SF	M	16-18	M	M	L	H	M	3	2	2	3	2	2	1	1	1	3	3	3	1	M
	CP5000SAS3122-EZ*	110	T	H	SF	M	14-16	N/A	N/A	N/A	H	H	2	4	-	1	1	2	2	2	2	2	3	2	3	2
CP5073SS/RIB*	110	M	M-H	SF	M	16-18	M	H	H	H	H	1	2	2	2	-	-	1	2	2	2	2	2	1	2	M
CP6110VT2P/RIB*	110	M	M	SF	M	16-18	M	M	M	M	M	2	1	2	1	1	2	3	3	3	2	1	4	3	M	
CP5073SS/RIB*	110	M	M-H	SF	M	16-18	M	H	H	H	H	1	2	2	2	-	-	1	2	2	2	2	1	2	M	
CP5115SS/RIB*	111	M-T	M-H	SF	M-L	18-20	H	H	H	H	M	1	1	-	2	-	-	3	3	3	2	2	3	3	3	M
CP5290D6VT2P/RIB*	112	M	M	SF	M	14-16	H	H	H	M	H	1	3	3	3	2	2	1	2	2	3	3	3	3	3	M
CP5277AS3220-EZ	112	M-T	M-H	SF	E	14-16	H	H	H	L	H	2	2	2	2	1	1	3	3	1	3	3	3	3	-	-
CP5244VT2P/RIB	112	M-T	M-H	SF	E	16-18	M	M	M	L	M	2	2	3	2	-	-	1	1	2	2	1	3	3	3	M
CP5370SS/RIB*	113	T	M-H	SF	M	18-20	H	H	H	L	M	1	1	3	2	1	1	2	2	3	2	2	3	3	3	M
CP5500VT2P/RIB*	115	M-T	M-H	SF	M	14-16	M	M	L	M	M	2	2	3	2	-	-	1	1	3	4	4	3	2	2	M
CP5678VT2P/RIB*	116	M	M	SF	M	14-16	M	H	H	M	M	3	3	3	2	3	2	2	2	4	4	3	2	2	2	M
CP5700SVT2P/RIB*	117	M-T	M	SF	M	16-18	M	H	H	M	M	2	2	2	3	1	2	1	1	2	4	4	2	2	2	M
CP5789VT2P/RIB*	117	T	M-H	SF	M	16-18	H	M	M	M	H	2	1	1	2	2	2	3	3	4	3	3	3	3	3	M
CP5900SVT2P/RIB*	119	T	M-H	SF	M	16-18	M	H	H	H	N/A	2	3	1	2	1	1	1	1	2	3	4	1	2	2	M

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Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

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Attributes _____

Placement _____

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Placement _____

FORAGE SORGHUM



More tonnage potential and not an ounce of excuses.

You hear a lot of talk about how to improve tonnage. Soon enough, it all starts to sound the same. We know what you want most: bottom-line results. Our job is to help you get those results with the right forage sorghum genetics. It's how we deliver the best nutrition, high total plant digestibility, and the specific traits that optimize production and quality.

We put all of this expertise into a comprehensive, season-long plan that's long on results and never filled with excuses.

KEY TAKEAWAYS

- 1 Select the right forage type for your operation.
- 2 Choose a hybrid that has the traits you need.
- 3 Practice in-season management for optimal production.

SELECT THE RIGHT FORAGE TYPE

► 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, which is 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.
- The nutritional value potential is comparable to corn silage.
- Trait available in the following forage types: forage sorghum, sorghum x sudan, pearl millet.

BRACHYTIC TRAIT

- Shorter stature and high leaf-to-stem ratio due to reduced internode length.
- Excellent standability and tillering.
- 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; it will then enter the 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.
- Use 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; treat 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.

IN-SEASON MANAGEMENT

TREATED SEED

► Seed Safener Treatment

Helps protect seed against preemergence herbicide applications, some herbicide carry-over or residual, and some grass herbicides.

► Systemic Insecticide Treatment

Effective on aboveground insects, such as early sugarcane aphid, for roughly 40 days.

► Base Seed Treatment

Pearl millet hybrids include a base seed treatment only.

WEED CONTROL

Herbicides for forage sorghums are limited to bromoxynil, atrazine, metolachlor or 2,4-D.¹

- Metolachlor, by itself or in combination with atrazine, is the recommended preemergence herbicide.
- There are no postemergence grass herbicides.
- Broadleaf postemergence herbicides include 2,4-D, bromoxynil and Huskie® herbicide.
- The best way to control weeds is to start with clean ground and get the crop up and shading the soil as quickly as possible.

FERTILITY

- Sorghums require 1 to 1.25 units of nitrogen per growing day. Apply at a 5:1 ratio of nitrogen to sulfur to help the plant convert nitrogen to protein.
- Stressed plants will not convert nitrate into usable protein, resulting in high concentrations of nitrates in the plant. High nitrates can be toxic if fed to cattle.

FEEDING/HARVEST MANAGEMENT

FORAGE SORGHUM

- Harvest at late-milk to soft-dough stage.
- Single-cut for silage when plant reaches 67% to 72% whole plant moisture.
- Forage sorghums can be harvested after frost in the North for silage.
- Manage harvest moisture to meet operational needs, consider swath and wilt method in order to chop at the proper whole plant moisture.

SORGHUM X SUDAN

- Optimal harvest timing is 40 days or 40 inches tall.
- Dry hay in the Plains, West, South and Southwest; haylage or baleage in the Midwest, East and Southeast.
- Start summer grazing when plants reach 18 to 24 inches. Remove animals when two nodes are left above the ground.
- Forage quality and yield can be maximized at flag leaf stage.

PEARL MILLET

- Optimal harvest timing is 40 days or 40 inches tall.
- No prussic acid and highly digestible makes this a great choice for horse feed.
- Fine stalks allow the ability to make dry hay in areas with high summer humidity.
- Start summer grazing when plants reach 18 to 24 inches. Remove animals when there is six-inches of stubble height. Forage quality and yield can be maximized at flag leaf stage.

1. Read all labels before application.

NEW



BMR 3212

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

Characteristics

	Not Recommended			Excellent		
Stress Tolerance			3			
Forage Quality					1	
Disease Tolerance				2		
Hay		4				
Silage					1	
Grazing		4				

- Early-maturing forage sorghum hybrid with excellent yield potential
- 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



IQ 3501

Regions: Central|South|West
Maturity: Mid

Characteristics

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

- 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
- Recommended seeding rate: 50,000 to 60,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

NEW



3531 BMR Leafy

Regions: Central|South|West
Maturity: Mid

Characteristics

	Not Recommended			Excellent		
Stress Tolerance				2		
Forage Quality					1	
Disease Tolerance					1	
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.
- Mid-maturity variety with excellent combination of yield potential and quality
- Combining the brachytic dwarf traits with excellent stalks, standability is excellent with a 6-7 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



3681 AT

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

Characteristics

	Not Recommended			Excellent		
Stress Tolerance				2		
Forage Quality			3			
Disease Tolerance					1	
Hay		5				
Silage					1	
Grazing		5				

- 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

NEW



3731 BMR Leafy

Regions: Central|South|West
Maturity: Late

Characteristics

	Not Recommended			Excellent		
Stress Tolerance				2		
Forage Quality					1	
Disease Tolerance					1	
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 6-7 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



Greentreat® 1531

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

Characteristics

	Not Recommended			Excellent		
Stress Tolerance					1	
Forage Quality					1	
Disease Tolerance				2		
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)

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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

CROPLAN

WINFIELD UNITED

Greencrest® 1731

Regions: Central|East|North|South|West

Maturity: Heads at ~60 days

Characteristics

	Not Recommended	Excellent
Stress Tolerance	3	
Forage Quality	2	
Disease Tolerance	3	
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
- Ideal for hay or grazing 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

WINFIELD UNITED

NEW

GUARDIAN AT

Regions: Central|East|North|South|West

Maturity: Heads at ~60 days

Characteristics

	Not Recommended	Excellent
Stress Tolerance	3	
Forage Quality	2	
Disease Tolerance	3	
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

WINFIELD UNITED

Greencrest® 1923

Regions: Central|East|North|South|West

Maturity: photoperiod sensitive

Characteristics

	Not Recommended	Excellent
Stress Tolerance	2	
Forage Quality	3	
Disease Tolerance	3	
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)

CROPLAN

WINFIELD UNITED

NEW

Honey Sweet AT

Regions: Central|East|North|South|West

Maturity: heads at ~50 days

Characteristics

	Not Recommended	Excellent
Stress Tolerance	2	
Forage Quality	4	
Disease Tolerance	2	
Hay	2	
Silage	2	
Grazing	1	

- 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

WINFIELD UNITED

PM 4611 BMR

Regions: Central|East|North|South|West

Maturity: Heads at ~50 days

Characteristics

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

- 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

WINFIELD UNITED

NEW

PM 4612 BMR

Regions: Central|East|North|South|West

Maturity: Heads at ~50 days

Characteristics

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

- 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)

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NEW



PM 4507 PM

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

Characteristics

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

- 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)

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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

	Maturity	Seeding Rate per Acre	Seeding Depth	Average Seeds per Lb (x1000)	Soil Temperature at Planting	Forage Quality	Drought Stress	Heat Stress	Sugarcane Aphid Tolerance	Cold Tolerance	Wet Soils	Hay	Baleage	Silage	Grazing		
FORAGE SORGHUM HYBRIDS																	
NEW BMR 3212	Early	60-70K seeds	1-1 1/2"	15.5	60	Y	1	2	3	2	-	3	2	4	4	1	4
1Q 3501	Mid	50-60K seeds	1-1 1/2"	15	60	N	2	1	2	1	-	3	2	5	5	1	5
NEW 3531 BMR Leafy	Mid	60-100K seeds	1-1 1/2"	15	60	Y	1	1	2	1	-	3	2	5	5	1	5
NEW 3681 AT	Mid/Late	60-70K seeds	1-1 1/2"	15	60	N	3	1	2	1	2	3	2	5	5	1	5
NEW 3731 BMR Leafy	Late	60-100K seeds	1-1 1/2"	15	60	Y	1	1	2	1	-	3	2	5	5	1	5
SORGHUM X SUDAN HYBRIDS																	
Greentreat® 1531	Heads at ~50 days	20-25 lbs	1"	14	60	Y	1	1	1	2	-	3	3	1	1	3	1
Greentreat® 1731	Heads at ~60 days	20-25 lbs	1"	16.5	60	Y	2	3	3	3	-	3	3	1	1	3	1
NEW 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
NEW DYNAMIC	Photoperiod sensitive	20-25 lbs	1"	15	60	Y	2	2	2	2	-	3	3	2	1	2	1
NEW 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	5	1
NEW PM 4612 BMR	Heads at ~50 days	10-15 lbs	3/4"	60	65	Y	1	2	1	2	1	4	3	1	2	5	1
NEW PM 4507 PM	Heads at ~50 days	10-15 lbs	3/4"	60	65	N	1	2	2	2	1	4	3	1	1	5	1

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



Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

SPRING CANOLA



The right plan never stops working.

There's no quit in you. And we've got some of the industry-leading innovations to make sure there's no quit in your spring canola crop. Like the latest solutions to disease issues, resistance to clubroot and blackleg, and the crop safety and weed-control features in TruFlex™ canola with Roundup Ready® Technology. Plus, established products like Roundup Ready® Spring Canola and the LibertyLink® system deliver outstanding yield potential, excellent crop safety and easier management.

Sound like a plan?

KEY TAKEAWAYS

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

CHOOSE THE RIGHT GENETICS AND TRAITS FOR YOUR ENVIRONMENT

- ▶ The CROPLAN® seed canola portfolio 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.



LIBERTYLINK® CANOLA SYSTEM

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

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

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

- Achieve better weed control and crop safety compared to Roundup Ready® Canola for improved yield potential.

MANAGE DISEASE

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

BLACKLEG

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

CLUBROOT

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

Taking these steps can help slow the spread of clubroot:

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

LUMIDERM™ INSECTICIDE SEED TREATMENT

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

6 TIPS FOR STRAIGHT-CUTTING CANOLA

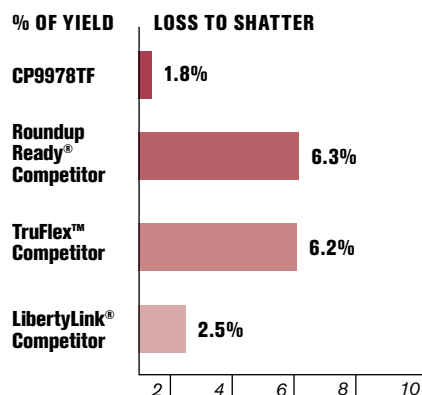
- 1 Select a hybrid with an adequate shatter score that's better suited for straight-cutting.
- 2 Control weeds and diseases in every field.
- 3 Ensure a uniform stand; proper seeding rates will help.
- 4 Harvest in a timely manner, as soon as the seed is dry enough to store.
- 5 If the field is variable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




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


CROPLAN® SEED DELIVERS AN EXCELLENT SHATTER SCORE¹

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



Source: 2019 Canola Shattering Variety Trial. Northern Resources, Roseau, Minn.
1. Results not statistically significant and may vary. Because of factors outside of WinField United's control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.



CP930RR
 Spring Canola




Characteristics

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

- 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



CP955RR
 Spring Canola




Characteristics

	Not Recommended			Excellent		
Oil Content						1
Drought Tolerance					2	
Lodging					2	
Straight Cutting			3			

- Excellent yield potential in high-yield environments
- Outstanding oil content
- Good for straight-cutting; good shatter scores
- First clubroot-resistant CROPLAN® hybrid



CP9919RR
 Spring Canola




Characteristics

	Not Recommended			Excellent		
Oil Content					2	
Drought Tolerance						1
Lodging			3			
Straight Cutting			3			

- Earliest product in the CROPLAN® lineup
- High performance in heat- and/or moisture-stressed environments; pairs well with CP930RR
- Moves west very well
- Use with CP955RR to spread workload



CP9978TF
 Spring Canola




Characteristics

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

- Excellent for straight-cutting with one of the industry's leading shatter and pod drop scores
- TruFlex™ hybrid for optimal crop safety at high rates and a wide application window
- Excellent yield potential
- LepR3, RlmS provide enhanced blackleg resistance



CP7130LL
 Spring Canola




Characteristics

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

- Liberty® herbicide tolerance provides an excellent alternative herbicide system
- Top yield potential LL EXP product with very good shatter in 2020 Answer Plot® trial testing
- Very good standability along with good shatter for straight cut systems
- Blackleg and clubroot resistance


CP7144LL
 Spring Canola



Characteristics

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

- Liberty® herbicide tolerance provides an excellent alternative herbicide system
- Excellent shatter tolerance and lodging scores for straight cut systems
- High yield potential across environments
- Industry leading clubroot resistance



SPRING CANOLA

	Herbicide Tolerance Trait	Type	Common Seed Size Range	Days to Flower	Days to Maturity	Height 1	Resistance Group 2	Major Resistance Gene(s)* 3	Clubroot 5	Response to Population (RTP) 6	Oil Content	Vigor	Lodging	Drought Tolerance		
ROUNDUP READY® CANOLA																
CP930RR	Roundup Ready	Hybrid	90-120,000	45	90	S	R	C	Rlm3	S	1	1	L	1	3	1
CP955RR	Roundup Ready	Hybrid	100-115,000	46	93	M	R	C	Rlm3	R-2,3,5,6,8	1	2	L	2	3	2
CP9919RR	Roundup Ready	Hybrid	110-115,000	43	88	S	R	A	Rlm1, Rlm3	S	2	1	M	3	3	1
TRUFLEX™ CANOLA																
CP9978TF	TruFlex	Hybrid	100-115,000	46	93	M-S	R	A, G	LepR3, RlmS	S	2	1	M	1	1	2
LIBERTYLINK® CANOLA																
NEW CP7130LL	LibertyLink	Hybrid	90-120,000	48	95	M	R	Muti	Muti	R-2,3,5,6,8	2	1	N/A	2	2	2
NEW CP7144LL	LibertyLink	Hybrid	90-120,000	48	95	M	R	Muti	Muti	R-3A,2B,5X,2,3,5,6,8	2	1	N/A	2	1	2

KEY

Scale

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

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
- E
- E1
- F
- G
- H
- X

4 Blackleg Major Resistance Gene(s)*

- Rlm1 or LepR3
- Rlm1
- Rlm3
- LepR1
- Rlm4
- Rlm7
- Rlm9
- RlmS
- LepR2
- QTL
- Unknown

5 Clubroot

- R = Resistant; clubroot genes are effective against pathotypes 2, 2B, 3, 3A, 5, 5X, 6 and 8

6 RTP Ratings

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

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

*Major resistance gene groups are subject to change.



Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

Product Name _____
Attributes _____

Placement _____

WINTER CANOLA



Getting top yield takes hard work, not guesswork.

You work hard to reach the yield potential you want. We use local and national data to determine the best way for you to achieve winterhardy canola.

We offer four types of winter canola: Roundup Ready® Canola and Roundup Ready® Canola that is sulfonylurea residual tolerant (SURT), as well as conventional canola and conventional with G2Flex™ technology. These are critical traits of winter canola that thrive in various cropping systems.

All that work is worth it. Sound like a plan?

KEY TAKEAWAYS

- 1 CROPLAN® seed offers a choice of two herbicide-tolerant trait systems, as well as rotational flexibility with G2Flex™ technology.
- 2 Proper row spacing and plant-to-plant spacing are important.
- 3 Practice good nutrient management, especially with nitrogen, sulfur and boron.
- 4 Implement planting for winterhardiness strategies.

USE CUTTING-EDGE WEED CONTROL

CROPLAN® seed offers two herbicide management systems.

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.
- In field trials, SURT products provided improved crop safety from previous wheat crops with a long-residual sulfonylurea herbicide.
- Canola is susceptible to many broadleaf herbicides with a long residual life.



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.

Pursuit® and Beyond® herbicides, two Group 2 products commonly used in both pulse and wheat production, often prohibit canola from being added to a rotation. And many wheat-fallow rotations have traditionally utilized Group 2 products like Ally® and Glean® herbicide, which can prevent growers from working canola into their rotation for more than 4 years. G2Flex™ canola has been successfully cultivated in field trials where a Group 2 herbicide was applied on the previous wheat crop, in the same soils where other oilseeds failed to produce. This will allow more producers the opportunity to try winter canola.

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



PLANT AT THE RIGHT POPULATION

Low plant densities can cause yield and weed-control problems.

Evaluations at Answer Plot® trials have led us to recommend a seeding rate of 4 to 5 lbs. per acre to establish 8 to 12 plants per square foot. In poor planting conditions, however, the seeding rate should be increased.¹

TIPS ON ROW SPACING

- The most common spacing is 6 to 10 inches, which is often higher-yielding.
- Plug every other row of the seeder to make 12- to 20-inch rows and to increase stand establishment.
- Using a 30-inch planter is another option; however, 30-inch rows can reduce yield potential. Reduce crowding by decreasing the seeding rate to around 4 lbs. per acre.

MONITOR NUTRIENT LEVELS

The fertility required for a 2,000 lb. canola crop is:

- 100 to 130 lbs. of nitrogen
 - 50 lbs. of phosphorus
 - 100 lbs. of potassium
 - 30 lbs. of sulfur
- Use caution when applying nutrients at seeding because canola is sensitive to fertilizer salts. Applying nutrients through top-dressing or prior to seeding is the safest method.

TIPS ON PLANTING FOR WINTERHARDINESS

1. Canola should be planted six weeks before the first killing frost date for the area (less than 25 degrees Fahrenheit).
2. Seeding date is important to establishing a crop that has sufficient growth for good winterhardiness.
3. Late planting does not allow for sufficient root reserves to maximize winter survival.
4. Better winterhardiness can be achieved by planting into a clean seedbed that's free of crop residue. Crop residue can elevate plant crowns and expose them to more temperature fluctuations and winterkill.

1. Because of factors outside of WinField United's control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.





CP115WRR

Winter Canola



Characteristics

	Not Recommended			Excellent		
Oil Content				2		
Drought Tolerance					1	
Lodging				2		
Winterhardiness				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



CP225WRR

Winter Canola



Characteristics

	Not Recommended			Excellent		
Oil Content					1	
Drought Tolerance				2		
Lodging				2		
Winterhardiness				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.



CP320WRR

Winter Canola



Characteristics

	Not Recommended			Excellent		
Oil Content					1	
Drought Tolerance				2		
Lodging				2		
Winterhardiness					1	

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

NEW



CP1022WC

Winter Canola

Characteristics

	Not Recommended			Excellent		
Oil Content					1	
Drought Tolerance					1	
Lodging				2		
Winterhardiness					1	

- G2FLEX™ (Group-2 Flexible) residual tolerance technology allows canola to be planted in soil with Group 2 herbicide residuals
- Extremely winter-hardy conventional with excellent yield potential for northern environments
- Consistent yield performance across environments
- Very good standability for harvest flexibility

NEW



CP1077WC

Winter Canola

Characteristics

	Not Recommended			Excellent		
Oil Content					1	
Drought Tolerance				2		
Lodging				2		
Winterhardiness				2		

- Excellent yield potential in more offensive environments
- Excellent pod shatter resistance for straight-cut opportunities
- Excels across multiple northern regions
- Taller product with good standability

NEW



CP1066WC

Winter Canola

Characteristics

	Not Recommended			Excellent		
Oil Content					1	
Drought Tolerance				2		
Lodging					1	
Winterhardiness					1	

- Excellent yield potential; very good performance across 2020 National Winter Canola Variety Trials
- Excellent winterhardiness ratings, among the top in the industry
- Very good lodging tolerance
- Consistent performer across environments and management styles

KEY

Scale

- 1 = Excellent
- 2 = Strong
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- 4 = Manage
- 5 = Not Recommended

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WINTER CANOLA

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

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¹ Height Ratings

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- T = Tall
- M = Medium
- S = Short



Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

SUNFLOWER



Target your markets and hold nothing back.

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

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

KEY TAKEAWAYS

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

ACHIEVE YOUR MARKETING OBJECTIVES

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

OIL-TYPE SUNFLOWER

► High Oleic

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

► NuSun®

Standard for the oil market.

► Hulling

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

► Birdseed

Regional markets throughout the United States for all oil types.

**Contracting buyers' current high oleic percent rate.*

CONSIDER SEED SIZE AND COATING

SUNFLOWER SEED SIZE

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

PROSUN™ PRECISE SEED COATING

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

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

CHOOSE THE RIGHT TRAITS

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

CONTROL WEEDS

BEYOND® AND EXPRESS® HERBICIDES

- Both traits have advanced yield potential.
- Both require preemergence herbicide treatments (Spartan® Charge, BroadAxe® or Prowl® H₂O) or preplant-incorporated herbicides (Framework®, Prowl® H₂O or Sonalan®) to combat kochia and Russian thistle.
- Both are a Group 2 herbicide mode of action.
- The DuPont™ ExpressSun® trait is tolerant to Express® herbicide.
- The Clearfield® Production System is tolerant to Beyond® herbicide.

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



CP432E

ExpressSun® Sunflower



Characteristics

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

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



CP450E

ExpressSun® Sunflower



Characteristics

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

- Excellent yield potential; great compliment to CP455E
- Top performer in stressed environments
- Stronger standability than CP455E; good hybrid to plant early
- DMR PI 8; resistant to all common U.S. races of downy mildew



CP455E

ExpressSun® Sunflower



Characteristics

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

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



CP4909E

ExpressSun® Sunflower



Characteristics

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

- Top-end yield potential in high-yield environments; use caution on droughty soils
- Unique genetic diversity in the ExpressSun® lineup
- Short stature for excellent standability
- Great stalk strength but doubles/triples may cause lodging



CP545CL

Clearfield® Sunflower



Characteristics

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

- Outstanding yield and high oil-per-acre potential
- Mid-maturity with strong overall disease package
- DMR PI 6; resistant to most common U.S. races of downy mildew
- Increased staygreen and slower drydown in cooler environments



CP3845

Conventional Sunflower

Characteristics

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

- 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

KEY

Scale

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- 3 = Acceptable
- 4 = Manage
- 5 = Not Recommended

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CROPLAN

CP7919CL

WINFIELD

WINFIELD

Clearfield® Sunflower

Clearfield

Production System for Sunflower

Characteristics

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

- High yield potential, oil and oleic levels
- Above-average disease tolerance
- DMR PI 6; resistant to most common U.S. races of downy mildew
- Full maturity; plant early when utilizing north of I-94 in Minnesota, North Dakota and Montana

CROPLAN

CP4157E

WINFIELD

WINFIELD

ExpressSun® Sunflower

DuPont

ExpressSun

NuSun

Characteristics

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

- Very high yield potential with best performance in offensive environments
- Excellent Phomopsis tolerance
- Good roots and stalks on a medium-tall stature provide solid late-season standability
- DMR PI 6; resistant to most common U.S. races of downy mildew

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.

Common Planting Seed Size			Downy Mildew Resistance			Height			Drought Tolerance		
High Oleic	NucSun®	Dehulling	Days to Maturity	Phomopsis	Sclerotinia	Oil Content	Oleic Content	Drydown	Stalk Strength		
1	1	1	2								
EXPRESSSUN® SUNFLOWER											
CP432E	•	•	2, 3, 4	89	Pl 8	3	3	Short	4	N/A	1 2 2 2
CP450E	•	•	2, 3, 4	94	Pl 8	2	2	Med-Short	3	1	2 1 1 1
CP455E	•	•	2, 3, 4	94	Pl 6	2	2	Med-Short	2	1	1 2 2 2
CP4909E	•	•	2, P3, 3, 4	91	-	3	2	Med-Short	3	N/A	1 2 4
NEW CP4157E	•	TBD	3, 4	94	Pl 6	1	2	Med-Tall	3	N/A	2 2 3
CLEARFIELD® SUNFLOWER											
CP545CL	•	•	2, P3, 3, 4	94	Pl 6	3	2	Medium	3	N/A	3 1 2
CP7919CL	•	•	2, 3, 4	98	Pl 6	1	3	Med-Tall	2	2	3 2 2
CONVENTIONAL SUNFLOWER											
CP3845	•	•	3, 4	96	-	4	5	Med-Short	1	1	2 2 2 4

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

Pl 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.

Pl 6 gene = This gene is resistant to races prevalent before 2005; it is susceptible to races 314, 704, 714, 734 and 774.

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

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

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

SUNFLOWER



Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

HARD RED SPRING WHEAT



Managing for high performance leads to optimal results.

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

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

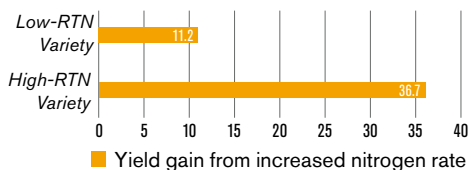
KEY TAKEAWAYS

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

MANAGE YOUR VARIETY'S RESPONSE-TO-NITROGEN (RTN) SCORE¹

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

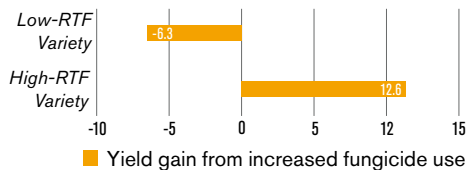
► RTN Yield Response Variance — 25.5 bu/A



USE RESPONSE-TO-FUNGICIDE (RTF) SCORES TO AID DECISION-MAKING¹

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

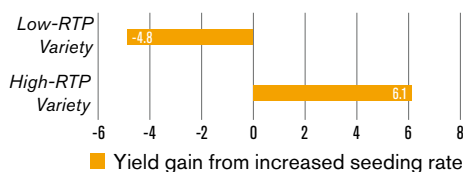
► RTF Yield Response Variance — 18.9 bu/A



OPTIMIZE SEEDING RATE BY VARIETY¹

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

► RTP Yield Response Variance — 10.9 bu/A



SEEDING RATE CHART²

Example of how to use the chart:

1. Select total planting seed.
Example: 1.4 million seeds per acre
2. Select seeds per pound.
Example: 13,000
3. Determine recommended seeding rate.
Example: 108 lbs. per acre

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

- ① MILLION SEEDS PER ACRE
- ② PLANTS PER ACRE
- ③ PLANTS PER SQUARE FOOT

TOTAL PLANTING SEED ①		SEED SIZE: SEEDS PER POUND					FINAL STAND ②		PLANTS/SQ FT ③
		PURE LIVE SEED ①	11,000	12,000	13,000	14,000			
0.8	0.8	73	67	62	57	53	0.7	15.6	
1.0	1.0	91	83	77	71	67	0.9	19.5	
1.2	1.1	109	100	92	86	80	1.0	23.4	
1.4	1.3	127	117	108	100	93	1.2	27.3	
1.6	1.5	145	133	123	114	107	1.4	31.2	
1.8	1.7	164	150	138	129	120	1.5	35.1	
2.0	1.9	182	167	154	143	133	1.7	39.0	
2.2	2.1	200	183	169	157	147	1.9	42.9	

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

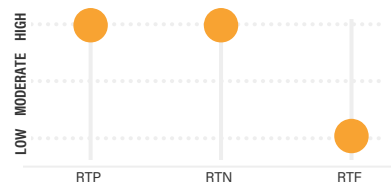
2. Because of factors outside of WinField United's control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.



CP3419

Hard Red Spring

Response Scores



Characteristics

	Not Recommended			Excellent		
Standability						1
Fusarium Head Blight					2	
Test Weight			3			
Protein		4				

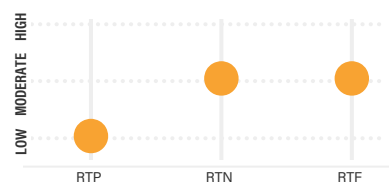
- Outstanding yield potential under high-management and irrigated acres
- Excellent standability allows for increased nitrogen to maintain protein
- Solid disease package; best stripe rust tolerance in CROPLAN® lineup
- Later heading but finishes fast; head ripens faster than plant



CP3530

Hard Red Spring

Response Scores



Characteristics

	Not Recommended			Excellent		
Standability		4				
Fusarium Head Blight					2	
Test Weight			3			
Protein				2		

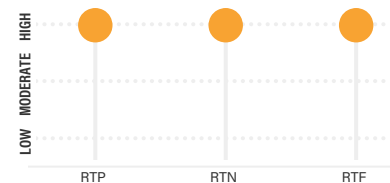
- Excellent yield potential and strong protein
- Performs best at low-to-medium populations and split-application nitrogen management
- Strong fusarium head blight and leaf disease tolerance; acceptable bacterial blight tolerance
- Utilize moderate to low populations on highly productive soils



CP3915

Hard Red Spring

Response Scores



Characteristics

	Not Recommended			Excellent		
Standability					2	
Fusarium Head Blight					2	
Test Weight					2	
Protein					2	

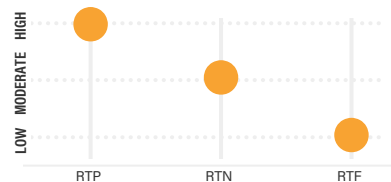
- High yield and protein potential that can increase with additional N
- Excellent agronomics, very good BLS tolerance and straw strength
- Excels under higher yield environments; stable in lower yielding environments
- High response to population, recommended @ 1.4-1.7 M seeds/acre



CP3910

Hard Red Spring

Response Scores



Characteristics

	Not Recommended			Excellent		
Standability					2	
Fusarium Head Blight			3			
Test Weight					2	
Protein					2	

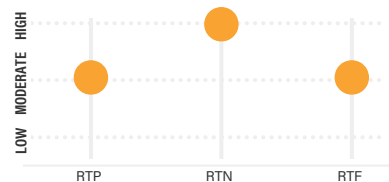
- Very good yield to protein; higher protein/A is achieved with higher populations
- Strong on more stressed soils of the Western Dakotas and Montana
- Earliest wheat product in lineup with shorter plant type for good harvestability and less trash
- Very good stem rust, but BLS can impact yields



CP3055

Hard Red Spring

Response Scores



Characteristics

	Not Recommended			Excellent		
Standability						1
Fusarium Head Blight			3			
Test Weight			4			
Protein			4			

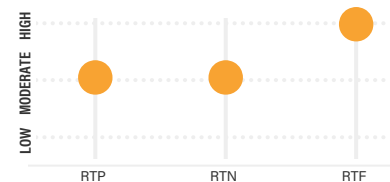
- New Genetics to the CROPLAN® lineup and the industry
- Extremely high yield potential with acceptable protein rating
- Strong disease package on a very large plant; extremely large flag leaf
- High response to increased nitrogen; great candidate for split-applications; very strong standability



CP3099A

Hard Red Spring

Response Scores



Characteristics

	Not Recommended			Excellent		
Standability						1
Fusarium Head Blight					2	
Test Weight			3			
Protein	5					

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

KEY

Scale

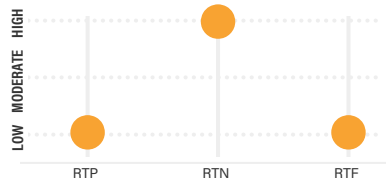
- 1 = Excellent
- 2 = Strong
- 3 = Acceptable
- 4 = Manage
- 5 = Not Recommended

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
WINFIELD
UNITED**CP3119A**

Hard Red Spring

Response Scores**Characteristics**

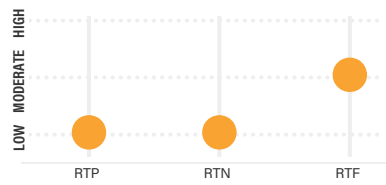
	Not Recommended			Excellent		
Standability	■	■	■	■	■	1
Fusarium Head Blight	■	■	■	2	■	
Test Weight	■	4	■	■	■	
Protein	■	4	■	■	■	

- Full-season awnless product with very high yield potential
- Very large, healthy plant; good standability and large flag leaf to drive grain fill
- High yield potential; lower-protein can be improved with N management
- Extended-season wheat with longer grain-fill gives higher yield potential

NEW

CROPLAN
WINFIELD
UNITED**CP3188**

Hard Red Spring

Response Scores**Characteristics**

	Not Recommended			Excellent		
Standability	■	■	3	■	■	
Fusarium Head Blight	■	■	■	2	■	
Test Weight	■	■	■	2	■	
Protein	■	4	■	■	■	

- Out-yielded all commercial checks in 2020 Answer Plot® testing
- Excellent performance on tough acres (lower OM, drought)
- Low response to population; seeding at 1.3M or below can help maintain yield and protect standability
- Low response to nitrogen drives stability across environments

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

VARIETY	Wheat Class																Wheat Stem Sawfly		
	Days to Heading	Days to Maturity	Height	Standability	Test Weight	Baking Quality	Response to Population (RTP)	Response to Nitrogen (RTN)	Placement on Irrigation	Fusarium Head Blight	Leaf Rust	Stem Rust	Stripe Rust	Leaf Disease	Wheat Stem Streak				
CP3419	Hard Red	58	85	M	1	3	4	4	H	H	L	1	2	3	1	2	5	N/A	
CP3530	Hard Red	57	87	T	4	3	2	3	L	M	M	4	2	2	1	3	2	3	N/A
CP3915	Hard Red	55	86	M	2	2	2	2	H	H	H	1	2	1	1	N/A	3	1	3
CP3910	Hard Red	54	85	M	2	2	2	2	H	M	L	2	3	3	1	3	3	5	N/A
CP3055	Hard Red	61	92	T	1	4	4	N/A	M	H	M	1	3	2	2	N/A	2	3	N/A
CP3099A	Hard Red	61	92	T	1	3	5	N/A	M	M	H	1	2	2	2	N/A	2	2	N/A
NEW CP3119A	Hard Red	62	96	T	1	4	4	N/A	L	H	L	1	2	2	2	N/A	2	2	N/A
NEW CP3188	Hard Red	55	85	T	3	2	4	N/A	L	L	M	3	2	2	2	N/A	2	1	N/A

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/RTM/RTF Ratings

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

2 Height

- S = Short
- M = Medium
- T = Tall

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



Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

HARD RED WINTER WHEAT

1 of 2



Built tough to handle whatever comes your way.

Growing hard red winter wheat is not for the faint of heart. Good thing the varieties offered by CROPLAN® seed are built to handle the rugged conditions found in the Central Plains Wheat Belt. As an innovator with a 20-year history in this space, you can count on CROPLAN® seed as the solid constant in an often-chaotic hard red winter wheat marketplace. We're credible. We're innovative. And the quality of our seed performance is backed by solid data.

KEY TAKEAWAYS

- 1 New CoAXium® varieties provide an innovative and comprehensive solution for controlling tough grassy weeds.
- 2 Apply nitrogen strategically throughout the season.
- 3 Plant at the right population for optimal varietal performance.
- 4 Know your variety's response-to-fungicide score and manage that variety accordingly.

REVOLUTIONARY GRASSY WEED CONTROL

CROPLAN® seed is pleased to offer two CoAXium® varieties. Created by wheat farmers for wheat farmers, the CoAXium® Wheat Production System provides cost-effective, excellent control of annual and perennial grasses, higher quality grain, and increased yield potential.

This system 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.



A WINNING EQUATION

ELITE VARIETIES

+

PATENTED HERBICIDE-TOLERANT TRAIT

+

NEW HERBICIDE

+

STEWARDSHIP PROGRAM

=

A REVOLUTIONARY SYSTEM

SMART SOLUTION FOR THE TOUGHEST WEEDS

When used in conjunction with CoAXium® varieties, Aggressor® herbicide is a valuable new tool for consistent control of tough weeds in wheat—including ALS-resistant biotypes. Aggressor® provides systemic and selective broad-spectrum control of these problem grasses:

- Bromus species, including ALS-resistant biotypes
- Feral and cereal rye
- Jointed goatgrass, including ALS-resistant biotypes
- Wild oats
- Volunteer cereals

TECHNOLOGY WORTH PRESERVING

To ensure the success of the system, farmers are required to adhere to the CoAXium® Wheat Production System Grower Stewardship Agreement, which outlines policies on product rates, crop rotation best practices and product use limitations over time. Policies include:

- Do not use the CoAXium® Wheat Production System more than two years in a row, and rotate with Group 2 or Group 15 herbicide modes of action in annual crop winter wheat.
- Rotate herbicide modes of action between crop cycles, especially between Glyphosate, Group 1 and Group 2 herbicides.
- Herbicide-tolerance traits in cereals are not cross tolerant, so good farm management and record keeping is required.
- Do not allow grassy weed escapes to go to seed.
- The use of Certified Seed is required.

FOLLOW THESE MANAGEMENT PRACTICES

1. Aggressor® herbicide is the only legal and registered Group 1 ACCase inhibitor for use in CoAXium® wheat.
 - » Do not use Clethodim herbicide on CoAXium® wheat.
2. Group 1 modes of action benefit from:
 - » Good spray coverage: Spray with minimum 15gpa carrier with medium droplet size to get deep coverage on tough to cover grass. Delivering more droplets in the ideal droplet diameter spectrum.
 - » Oil adjuvants: 0.5gal Superb® HC/100gal water OR 0.5gal Destiny® HC/100gal water OR 0.5gal StrikeLock®/100gal water
 - » Deposition: 2 to 4oz InterLock®/Acre OR 6.4oz MasterLock®/Acre
3. To avoid possible crop injury, do not apply Aggressor® to CoAXium® Wheat Production System and varieties with the AXigen® trait when extreme cold temperatures (less than 40° F maximum daytime temperature) are expected within 1 week of application.
4. Do not tank-mix MCPA amine, 2,4-D amine or Metribuzin with Aggressor® herbicide.
5. Make sure that the broadleaf herbicides are approved to be used with MSO or COC's.

HARD RED WINTER WHEAT

2 of 2



MANAGE YOUR VARIETY'S RESPONSE-TO-NITROGEN (RTN) SCORE

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

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

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

OPTIMIZE SEEDING RATE BY VARIETY

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

SEEDING RATE CHART¹

Example of how to use the chart:

1. Select total planting seed.
Example: 1.4 million seeds per acre
2. Select seeds per pound.
Example: 13,000
3. Determine recommended seeding rate.
Example: 108 lbs. per acre

Calculation assumptions:

Germ: 95%

Survivability: 10%

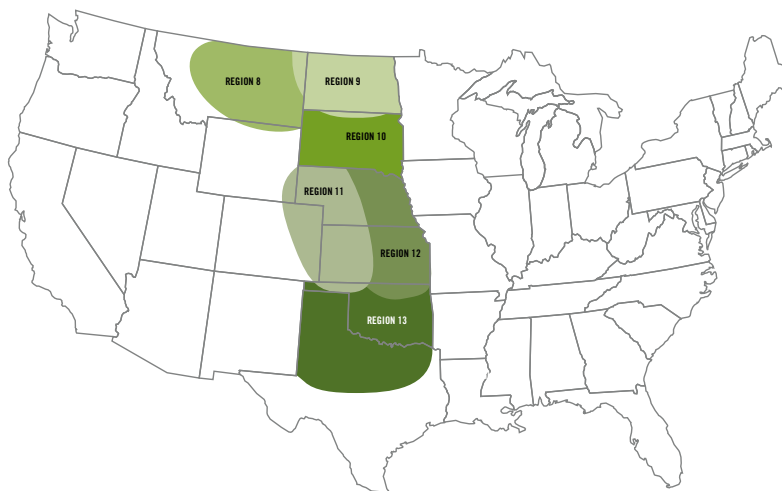
Total stand loss: 15%

① MILLION SEEDS PER ACRE

② PLANTS PER ACRE

③ PLANTS PER SQUARE FOOT

		SEED SIZE: SEEDS PER POUND						
TOTAL PLANTING SEED ①	PURE LIVE SEED ①	11,000	12,000	13,000	14,000	15,000	FINAL STAND ②	PLANTS/SQ FT ③
0.8	0.8	73	67	62	57	53	0.7	15.6
1.0	1.0	91	83	77	71	67	0.9	19.5
1.2	1.1	109	100	92	86	80	1.0	23.4
1.4	1.3	127	117	108	100	93	1.2	27.3
1.6	1.5	145	133	123	114	107	1.4	31.2
1.8	1.7	164	150	138	129	120	1.5	35.1
2.0	1.9	182	167	154	143	133	1.7	39.0
2.2	2.1	200	183	169	157	147	1.9	42.9
SEEDING RATE (LBS/A)								



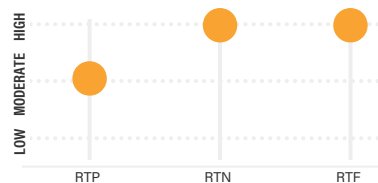
1. Because of factors outside of WinField United's control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.



CP7909

Hard Red Winter

Response Scores



Characteristics

	Not Recommended					Excellent				
Standability					3					
Fusarium Head Blight			4							
Test Weight				3						
Protein									1	
Winterhardiness									1	

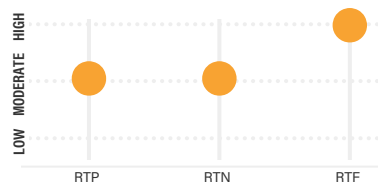
- Excellent yield potential with high protein potential
- Very good winterhardiness
- Broad adaptation over a variety of conditions; outstanding yield potential in high-yield environments
- Excellent soilborne mosaic virus resistance



CP7869

Hard Red Winter

Response Scores



Characteristics

	Not Recommended					Excellent				
Standability					2					
Fusarium Head Blight				3						
Test Weight					2					
Protein					2					
Winterhardiness					2					

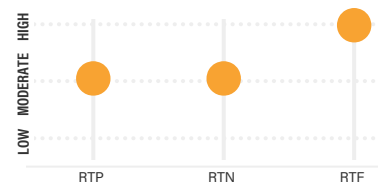
- High yield potential and strong stress tolerance
- Excellent standability; push nitrogen to maintain adequate protein
- Best fit is on well-managed dryland or irrigated acres
- Acceptable fusarium head blight tolerance; excellent stripe, stem and leaf rust tolerance



CP7010

Hard Red Winter

Response Scores



Characteristics

	Not Recommended					Excellent				
Standability					2					
Fusarium Head Blight				3						
Test Weight									1	
Protein					2					
Winterhardiness				3						

- Excellent yield potential with consistent performance on dryland and irrigated acres
- Versatile product with excellent test weight and strong standability
- Broadly adapted for usage from Kansas to Central Texas
- Manage for mosaic and stripe rust; acceptable Hessian Fly rating

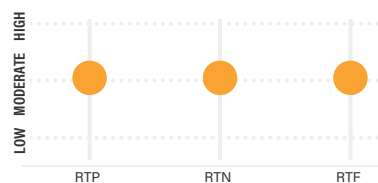


CP7017AX

Hard Red Winter



Response Scores



Characteristics

	Not Recommended					Excellent				
Standability					2					
Fusarium Head Blight									1	
Test Weight				3						
Protein										
Winterhardiness				3					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
- Use fungicide to manage in areas with history of leaf rust

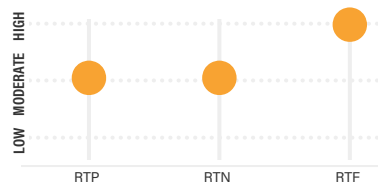


CP7050AX

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
- 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



CONVENTIONAL WHEAT																								
Wheat Class		Regions of Adaptation			Maturity 1	Height 2	Test Weight	Standability	Seed Size Range (Seeds/Lb)	Response to Population (RTp)	Response to Nitrogen (RTN) 3	Response to Fungicide (RTF) 3	Protein	Leaf Rust	Stripe Rust	Powdery Mildew	Septoria Leaf Resistance	Stagonospora Blume Blotch	Leaf Disease	Barley Yellow Blotch	Fusarium Head Blight	Hessian Fly Resistance	Wheat Stem Sawfly	Placement on Irrigation
CP7909	Hard Red	8, 9, 10, 11, 13	3	MT	3	3	Y	N/A	1	M	H	H	1	3	4	N/A	N/A	2	N/A	N/A	4	N/A	N/A	1
CP7869	Hard Red	8, 10, 11, 12, 13	5	M	2	2	Y	N/A	2	M	M	H	2	1	1	N/A	N/A	1	N/A	N/A	3	N/A	N/A	1
CP7010	Hard Red	11, 12, 13	3	MT	1	2	Y	N/A	3	M	M	H	2	2	3	4	N/A	3	N/A	N/A	3	3	N/A	1
COAXIUM® WHEAT																								
CP7017AX	Hard Red	8, 9, 10, 11, 12, 13	3	M	3	2	Y	N/A	1	M	M	M	3	3	2	N/A	N/A	2	N/A	N/A	1	N/A	N/A	1
CP7050AX	Hard Red	8, 9, 10, 11, 12	1	M	2	2	Y	N/A	2	M	M	H	1	2	1	N/A	N/A	3	N/A	N/A	2	N/A	N/A	2

KEY Scale

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

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

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

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



Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

SOFT RED WINTER WHEAT



You don't get better yield by hoping for it.

If you grow soft red winter wheat, you know it's all about yield potential. At CROPLAN® seed, we have the Answer Plot® data to back up the performance of our soft red winter wheat varieties — disease-resistant racehorse varieties you can count on.

Each CROPLAN® soft red winter wheat variety has a response-to score, so you can choose the seed that'll help you achieve your yield goals. We're a legacy brand in the industry for notable soft red winter wheat performance. Let us help you reach your potential.

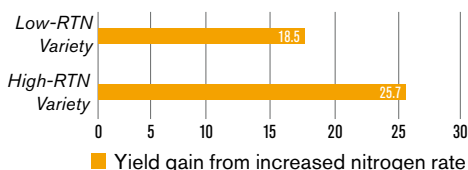
KEY TAKEAWAYS

- 1 Top-dress nitrogen on responsive genetics for added potential.
- 2 Plant at the right population for optimal varietal performance.
- 3 Know your variety's response-to-fungicide score and manage that variety accordingly.

MANAGE YOUR VARIETY'S RESPONSE-TO-NITROGEN (RTN) SCORE¹

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

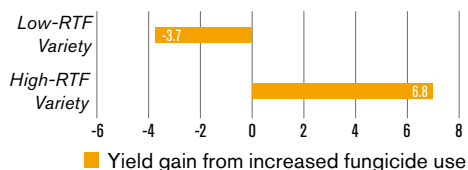
► RTN Yield Response Variance — 7.2 bu/A



USE RESPONSE-TO-FUNGICIDE (RTF) SCORES TO AID DECISION-MAKING¹

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

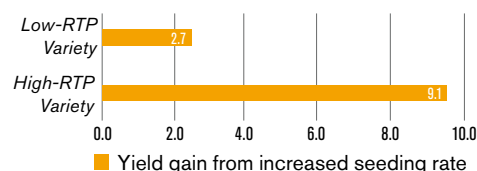
► RTF Yield Response Variance — 10.5 bu/A



OPTIMIZE SEEDING RATE BY VARIETY¹

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

► RTP Yield Response Variance — 6.4 bu/A



SEEDING RATE CHART²

Example of how to use the chart:

1. Select total planting seed.
Example: 1.4 million seeds per acre
2. Select seeds per pound.
Example: 13,000
3. Determine recommended seeding rate.
Example: 108 lbs. per acre

Calculation assumptions:

Germ: 95%

Survivability: 10%

Total stand loss: 15%

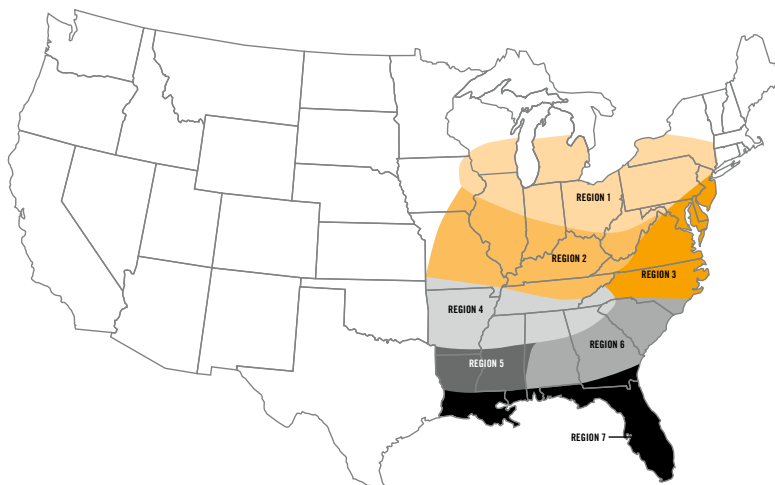
① MILLION SEEDS PER ACRE

② PLANTS PER ACRE

③ PLANTS PER SQUARE FOOT

TOTAL PLANTING SEED ①		SEED SIZE: SEEDS PER POUND					FINAL STAND ②		PLANTS/SQ FT ③	
		PURE LIVE SEED ①	11,000	12,000	13,000	14,000				
g rate.		0.8	0.8	73	67	62	57	53	0.7	15.6
		1.0	1.0	91	83	77	71	67	0.9	19.5
		1.2	1.1	109	100	92	86	80	1.0	23.4
		1.4	1.3	127	117	108	100	93	1.2	27.3
		1.6	1.5	145	133	123	114	107	1.4	31.2
		1.8	1.7	164	150	138	129	120	1.5	35.1
		2.0	1.9	182	167	154	143	133	1.7	39.0
		2.2	2.1	200	183	169	157	147	1.9	42.9
		SEEDING RATE (LBS/A)								

SEEDING RATE (LBS/A)

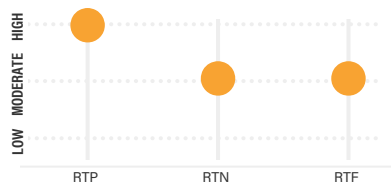


1. Response ranges show the importance of how varieties respond to each management practice to help ensure the highest yield potential. 2019 nationwide Answer Plot® data.

2. Because of factors outside of WinField United's control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.

CROPLAN **CP9606**
Soft Red Winter

Response Scores



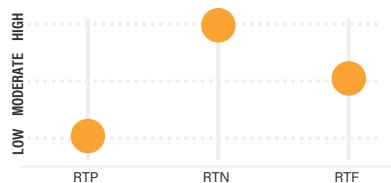
Characteristics

	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 **CP8550**
Soft Red Winter

Response Scores



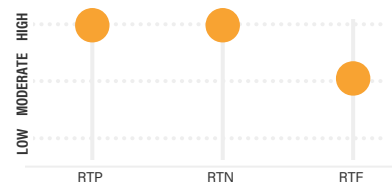
Characteristics

	Not Recommended			Excellent		
Standability				2		
Fusarium Head Blight					1	
Test Weight					1	
Winterhardiness				2		

- State-of-the-art fusarium head blight resistance
- Excellent yield potential; responds to lower populations and higher nitrogen
- Outstanding test weight and stripe rust tolerance
- Tall variety has good straw yield potential, but is awned

CROPLAN **CP9415**
Soft Red Winter

Response Scores



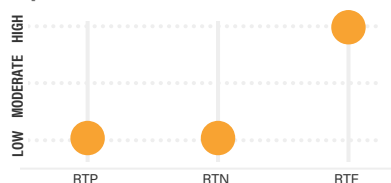
Characteristics

	Not Recommended			Excellent		
Standability					1	
Fusarium Head Blight						
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



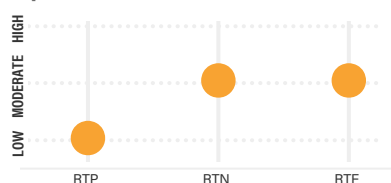
Characteristics

	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



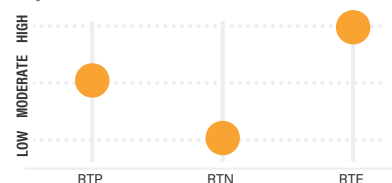
Characteristics

	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

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

CP8007

WINFIELD UNITED

Soft Red Winter

Response Scores

LOW

MODERATE

HIGH

RTP

RTN

RTF

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

CROPLAN

CP8045

WINFIELD UNITED

Soft Red Winter

Response Scores - To Be Determined

LOW

MODERATE

HIGH

RTP

RTN

RTF

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

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



VARIETY	Wheat Class										Regions of Adaptation										Seed Size Range (Seeds/Lb)										Response to Fungicide [RTE] (3)										Response to Nitrogen [RTN] (3)										Response to Population [RTP] (3)										Winterhardness										Placement on Irrigation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	Maturity (1)		Height (2)		Test Weight		Standability		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		Amins		

KEY Scale

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- 4 = Manage
- 5 = Not Recommended

1 Maturity

- 1 = Early
- 5 = Late

2 Height

- S = Short
- M = Medium
- T = Tall

3 RTP/RTM/RTF Ratings

- L = Low Response
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- H = High Response

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Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

Product Name _____

Attributes _____

Placement _____

SEED TREATMENTS

1 of 2



Warden® CX

By WINFIELD UNITED

WARDEN® CX SEED TREATMENT HELPS PROTECT YIELD POTENTIAL FROM THE START

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

EARLY-SEASON ADVANTAGES

Warden® CX seed treatment features the following crop protection advantages over untreated seed:

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

ADDITIONAL ADVANTAGES

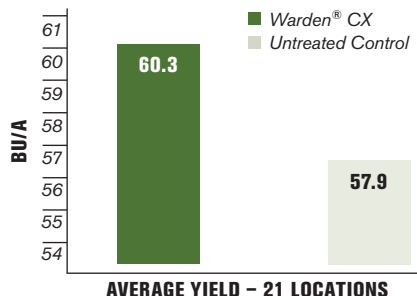
- Incorporates the active ingredient from Cruiser® insecticide, an industry standard for seed-applied insect protection, delivering the patented vigor effect (U.S. Patent number 6,753,296).
- Improves seed handling and flowability.

OUTSTANDING DISEASE PROTECTION

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

WARDEN® CX SEED TREATMENT HAS BEEN SHOWN TO IMPROVE PLANT STANDS, REGARDLESS OF PLANTING DATE¹

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



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

1. Because of factors outside of WinField United's control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.

DISEASES AND INSECTS CONTROLLED

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

DAMPING-OFF AND SEED ROTS

- *Fusarium*
- *Pythium*
- *Phytophthora*
- *Rhizoctonia*

ROOT ROT

- *Phomopsis**
- *Sclerotinia**
- *Phytophthora*

*Suppression only.

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

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

PAIR WARDEN® CX WITH AN INOCULANT

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

SEED TREATMENTS

2 of 2



Fortivent® Plus

By WINFIELD UNITED

EARLY-SEASON INSECT AND DISEASE CONTROL WITH OPTIMIZED PLANT VIGOR

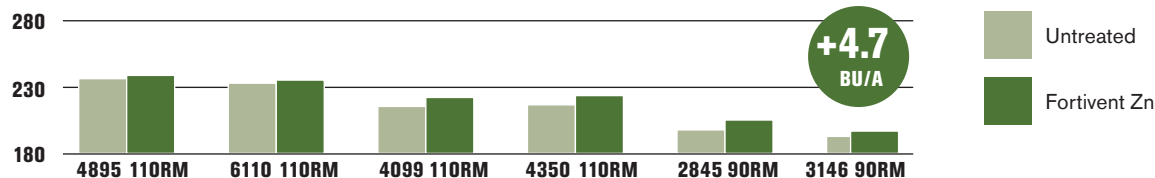
Fortivent® Plus seed treatment combines the early-season insect control of Poncho® VOTiVO® seed treatment, INTEGO® Solo fungicide for enhanced *Pythium* control and Fortivent Zn for early-season corn vigor. The Poncho® insecticide at a rate of 500 mg active ingredient combined with the nematode control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

► Fortivent® Plus Features and Benefits

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

YIELD ADVANTAGE

► Fortivent Zn – 2018 Answer Plot® Testing



Active Ingredients*	Rates
Insecticide	
Clothianidin	500
*Clothianidin	1,250
Base Fungicides (Acceleron® Seed Treatment)	
Fluoxastrobin	0.24 fl. oz./100 lbs. of seed
Prothioconazole	0.24 fl. oz./100 lbs. of seed
Metalaxyl	0.10 fl. oz./100 lbs. of seed
Ethaboxam (INTEGO® Solo)	0.20 fl. oz./100 lbs. of seed
Nematicide	
Poncho® VOTiVO® - 500	2.7 fl. oz./80,000 seeds

*Always read and follow label instructions.

TECHNOLOGY



INNOVATIVE TECHNOLOGY

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

CORN TRAITS

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

SmartStax® technology helps protect corn against ear-feeding insects.



SMARTSTAX® RIB COMPLETE® CORN BLEND

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

► Aboveground Control

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

► Belowground Control

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

► Roundup Ready® 2 Technology and LibertyLink® Traits Together

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

► The First Single-Bag Refuge Solution

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



► SmartStax® RIB Complete® Corn Blend Benefits

- Controls key above- and belowground insects.
- Provides optimal yield protection with two ways to control corn rootworm and corn earworm.
- Includes a blend of 95% traited and 5% refuge seed with no separate, structured refuge required in the corn-growing area.
- Offers a truly simple refuge-in-a-bag solution — just fill your planter and go.

► Bringing New Germplasm to Market Faster

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



VT DOUBLE PRO® RIB COMPLETE® CORN BLEND

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

► VT Double PRO® RIB Complete® Corn Blend Benefits

- Optimal yield protection with two ways to control corn earworm.
- A blend of 95% traited and 5% refuge seed with no separate, structured refuge required in corn-growing areas.
- The truly simple refuge-in-a-bag solution — just fill your planter and go.

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TECHNOLOGY



THE TRULY SIMPLE REFUGE-IN-A-BAG SOLUTION

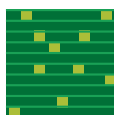
RIB Complete® is a single-bag refuge solution for farmers. With RIB Complete® corn blend, the refuge seed is distributed in the bag along with seeds containing B.t. traits, allowing farmers to plant an entire field with just one product. Farmers in the Corn Belt will no longer need to plant a structured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



20% refuge



5% refuge



5% refuge in the bag



UNLOCK MORE PROFITABILITY POTENTIAL

Built on the high-yielding Roundup Ready 2 Xtend® technology, XtendFlex® soybeans offer proven performance potential and herbicide tolerance to dicamba, glyphosate and glufosinate. These three modes of action give farmers control over 337 weeds¹ and up to 14 days of soil activity on certain small-seeded broadleaf weeds from XtendiMax® herbicide and VaporGrip® Technology, a restricted use pesticide.²

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



AN EASY FIT FOR YOUR OPERATION

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

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

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



DROUGHTGARD® HYBRIDS

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

► Traits Available With DroughtGard® Hybrids

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

► Advantages of DroughtGard® Hybrids

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

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



ROUNDUP READY® CORN 2 SYSTEM

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



ROUNDUP READY 2 XTEND® SOYBEANS

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

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

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

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

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

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

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TECHNOLOGY



ROUNDUP READY 2 YIELD® SOYBEANS

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

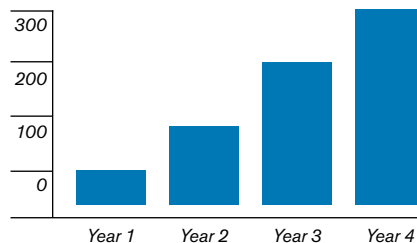
Research demonstrates a significant yield increase with Roundup Ready 2 Yield® soybeans over Roundup Ready® soybeans, with the same simple, dependable weed control as the Roundup Ready® Soybean System.¹

► Powerful Performance

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

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

CUMULATIVE NUMBER OF ROUNDUP READY 2 YIELD® VARIETIES



1. Roundup Ready 2 Yield® soybeans yield higher than Roundup Ready® soybeans, based on 73 Monsanto field trials (17 to 20 per year) from 2004 to 2007. The four-year average percentage increase for Roundup Ready 2 Yield® equals 8.63, with a 95% confidence interval of 6.8% to 10.5% advantage from Roundup Ready 2 Yield®.

2. Data as of October 29, 2012. Includes all breeding and commercial strip trial data. All head-to-head comparisons are within a +/-0.4 day maturity. Data represents the top-performing Roundup Ready 2 Yield® products (with a minimum of 30 comparisons per product) versus competitive Pioneer® and NK® brands with Roundup Ready® by state.

ACCELERON® PROMOTES STRONG EARLY-SEASON GROWTH



ACCELERON® SEED APPLIED SOLUTIONS FOR CORN

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

► Insect and Disease Protection for Corn

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

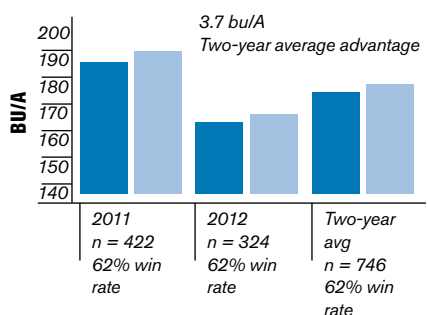
Disease-Fighting Protection: Excellent control of soilborne and seedborne disease, including *Fusarium*, *Rhizoctonia* and *Pythium*.

► Poncho®/VOTiVO® for Corn, Soybeans and Cotton

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

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

► Two-Year Performance



■ Acceleron® Seed Applied Solutions for corn
 ■ Acceleron® Seed Applied Solutions for corn with Poncho®/VOTiVO®

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

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TECHNOLOGY



ECONOMICAL, CONSISTENT HERCULEX® YIELD PROTECTION

Herculex® *Insect Protection* technology helps top-performing hybrids achieve their highest performance potential.



HERCULEX® XTRA

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

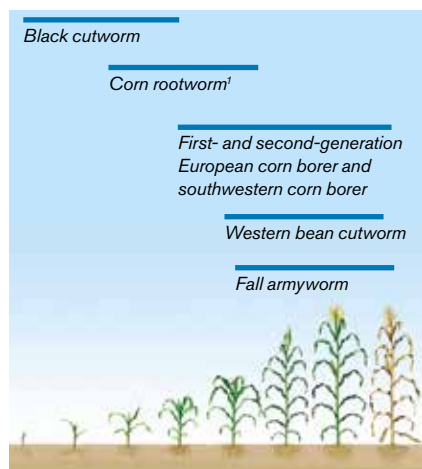
Herculex® XTRA is stacked with LibertyLink® technology, offering the ability to use a cost-effective, alternative weed-control option such as Liberty® herbicide or a conventional herbicide program. Herculex® XTRA is an effective corn insect management trait option for greater profit potential.



HERCULEX® I

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

HERCULEX® XTRA AND HERCULEX® I DELIVER A WIDE WINDOW OF PROTECTION



CROP AND GRAIN MARKETING STEWARDSHIP

Dow AgroSciences is a member of Excellence Through Stewardship® (ETS). Dow AgroSciences products are commercialized in accordance with ETS product launch stewardship guidance and Dow AgroSciences Product Launch Stewardship Policy. No crop or material produced from this product can be exported to, used, processed or sold across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. For further information about your crop or grain marketing options, contact DAS at 877-4-TRAITS (877-487-2487). Information regarding the regulatory and market status of agricultural biotechnology products can be found at www.biotradestatus.com.

Properly managing trait technology is key to preserving it as a long-term crop protection tool. Growers who fail to comply with insect resistance management (IRM) requirements risk losing access to this product. To help preserve the effectiveness of B.t. corn technologies, growers planting B.t. corn technologies are required to follow an IRM Plan. Consult the Corn Product Use Guide for appropriate refuge configuration options. Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Technology Use Agreement and Product Use Guide. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements. For complete details on IRM requirements for hybrids with B.t. technology, including refuge examples and important information on the use of insecticides on refuge and B.t. corn acres, please consult the appropriate Product Use Guide. Go to www.corteva.us/Resources/trait-stewardship.html to download the latest Dow AgroSciences Corn Product Use Guide.

Herculex® Insect Protection technology by Dow AgroSciences and Pioneer® Hi-Bred. Herculex® and the Herculex® logo are trademarks of The Dow Chemical Company ("Dow") or an affiliated company of Dow. Bayer CropScience LP, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709. Always read and follow label instructions. Liberty®, LibertyLink® and the Water Droplet Design are registered trademarks of Bayer. Liberty® is not registered in all states. For additional product information, call toll-free 1-866-99-BAYER (1-866-992-2937) or visit our website at www.BayerCropScience.us.

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

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TECHNOLOGY



BREAKTHROUGH AGRISURE® TRAIT TECHNOLOGY

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

AGRISURE ARTESIAN®

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

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

AGRISURE ARTESIAN® ADVANTAGE



Elkville, Ill., 2012

AGRISURE VIPTERA®

- More control of more insects for more yield potential.

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

► Agrisure Viptera® 3111

Above- and belowground insect control.

► Agrisure Viptera® 3220 E-Z Refuge®

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

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

AGRISURE VIPTERA® TRAIT PERFORMANCE ON WESTERN BEAN CUTWORM¹



Hybrid with the
Agrisure Viptera® trait

Hybrid without the
Agrisure Viptera® trait

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

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TECHNOLOGY



ACHIEVE REAL YIELDS WITH THE LIBERTYLINK® SYSTEM

The LibertyLink® trait and Liberty® herbicide offer a broad-spectrum weed-control program and an effective resistance-management tool.

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

Liberty®

LIBERTY® HERBICIDE

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

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

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

LIBERTYLINK® SYSTEM



► LibertyLink® Soybeans¹

The LibertyLink® system combines the high-performing LibertyLink® trait with the power of Liberty® herbicide for proven excellent yield performance. The system provides excellent weed control with greater flexibility and convenience.

Features & Benefits

- Excellent yield performance
- High-performing genetics, protected by excellent weed control, to ensure weeds are better controlled to reduce their drain on yield
- 2+ bu/A advantage over Asgrow® Roundup Ready 2 Xtend® in over 2,100 observations¹

► LibertyLink® Corn

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

► InVigor® LibertyLink® Canola

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

1. Yield shown summarizes average of LibertyLink® and Asgrow® RRRxtend varieties entered across the Midwest, Delta, Northeast and the Southwest.

Liberty
Herbicide

LIBERTY LINK®
LIBERTY LINK® GT27®
Enlist®
XtendFlex®
Systems

FREEDOM FOR LIFE ON.

Your Land. Your Legacy. Your Liberty.

Liberty herbicide is here to help your soybean fields flourish with:

- **Trait Flexibility:** Across LibertyLink®, LibertyLink® GT27®, Enlist®, and XtendFlex® trait systems
- **Excellent Weed Control:** Providing unmatched convenience and greater application flexibility
- **Backed by the Liberty Herbicide Weed Control Guarantee:** Proven formulation, proudly formulated & packaged in the USA

To learn more, visit: yourliberty-herbicide.com

BASF
We create chemistry.

Results based on five years of trials where Liberty herbicide is applied according to S.T.O.P. Weeds with Liberty herbicide guidelines and as part of a resistance weed control program. Results are effective against a broad spectrum of weeds. LibertyLink® and LibertyLink® are registered trademarks of BASF. © 2017 BASF Corporation. All rights reserved.

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TECHNOLOGY



CALIBRATE® TECHNOLOGIES

KNOW THE QUALITY OF YOUR FORAGES

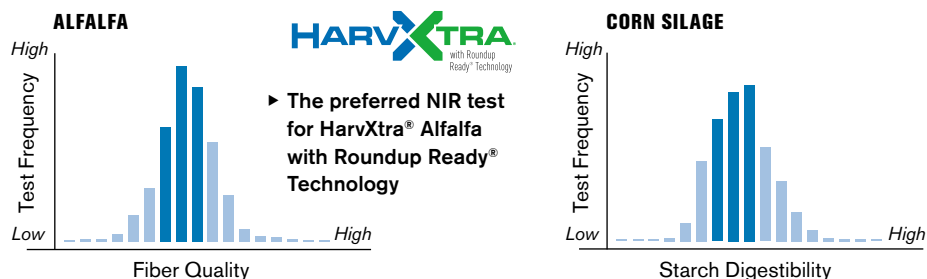
Variation in any dairy feeding program can cause underperformance: lost milk production, lower feed efficiency and lower profit potential. Calibrate® fiber and starch quality tests are designed to reduce the impact of nutrition variation in feedstuffs and allow more value to be obtained from forages,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

Calibrate® patented forage quality tests are designed to:

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

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

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



CALIBRATE® PATENTED FORAGE QUALITY TESTS OFFER EXCEPTIONAL DIGESTIBILITY INFORMATION

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

CALIBRATE® HIGH QUALITY FORAGE ANALYSIS FOR ALFALFA

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

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



TECHNOLOGY



THE KEMIN® NUTRISAVE® SYSTEM HELPS OPTIMIZE FORAGE QUALITY

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

ACID-BASED PRODUCTS

- **Fresh CUT® Plus Liquid Hay Preservative**
Applied to hay baled at up to 25% moisture. The blend of acids helps control the growth of mold and wild yeast, preventing bale heating and preserving nutrients.
- **Silage SAVOR® Plus Liquid and Silage SAVOR® Dry Silage Preservatives**
These forage preservatives are applied to ensiled crops before storage. The acid blends are used to prevent mold and wild yeast growth, allowing for improved fermentation.
- **Myco CURB® Liquid and Dry Mold Inhibitors**
Designed to prevent mold growth on stored grain, feed and feed ingredients. For more than 35 years, Myco CURB® has been the gold standard for mold control.
- **Ultra CURB® Liquid and Dry Mold Inhibitors**
These products contain a powerful blend of four organic acids designed to control heating in total mixed rations (TMRs).

BENEFITS OF THE NUTRISAVE® PROGRAM AND PRODUCTS

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

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

KEY FEATURES OF USING NUTRISAVE® PRODUCTS

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

PROVEN PERFORMANCE WITH NUTRISAVE® PRODUCTS AND PROGRAMS

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

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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.

SOYBEAN AND CANOLA PIRACY

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

INSECT RESISTANCE MANAGEMENT

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



Think Before You Bin Run

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®, Roundup Ready 2 Xtend® and XtendFlex® soybean varieties typically have a higher yield opportunity than Roundup Ready® soybean varieties.

Cleanout Loss Loss of seed and/or shrink occurs during the seed cleaning and handling processes for bin-run seed.

Seed Treatment Costs Treating your seed will add costs—both the cost of the treatment and the application of that treatment.

Lost Income Every bushel of saved seed you plant is a bushel you're not selling as commodity grain.

Increased Seed Management If you plan to save and bin-run Roundup Ready® 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 more information on seed intellectual property protection, or to anonymously report a tip, please call 1-866-99-BAYER. For a list of relevant patents visit www.monsantotechnology.com

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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 Roundup Ready® 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 Roundup Ready® 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 **Roundup Ready® technology**, glyphosate and dicamba. **Glufosinate** will kill crops that are not tolerant to glufosinate. **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.

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SIPA
Seed Innovation & Protection Alliance

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.

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TECHNOLOGY



CORN INSECT RESISTANCE MANAGEMENT OVERVIEW¹

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

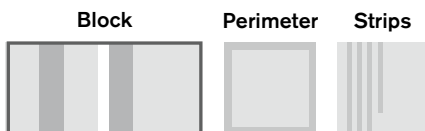
- 20% required for some B.t. products (20 acres of refuge for every 80 acres of B.t.)
- 5% only for SmartStax[®] and VT Double PRO[®] (5 acres of refuge for every 95 acres of B.t.)

► 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.



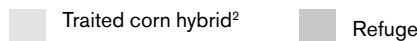
3 REFUGE PLANTING

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.

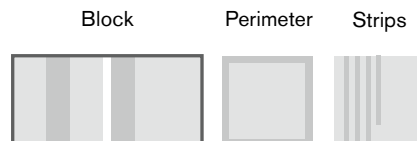
4 TREATMENT

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



► In-Field Configuration Examples



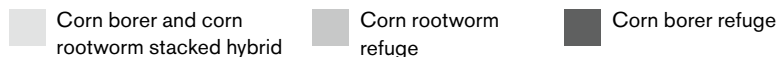
Minimum of four rows

► Adjacent-Field Configuration Examples



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

SEPARATE REFUGE CONFIGURATIONS



► Block



≤ 1/2 mile

≤ 1/2 mile

► Perimeter



≤ 1/2 mile

► Strips



≤ 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.

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TECHNOLOGY



REFUGE REQUIREMENTS FOR BIOTECH CORN PRODUCTS^{1, 2}

	% NON-B.T. REFUGE	CONFIGURATIONS	REFUGE LOCATION
SMARTSTAX[®] RIB COMPLETE[®] CORN BLEND³	5% in the bag	—	No separate planted refuge is required
VT DOUBLE PRO[®] RIB COMPLETE[®] CORN BLEND³	5% in the bag	—	No separate planted refuge is required
DROUGHTGARD[®] HYBRIDS WITH VT DOUBLE PRO[®] RIB COMPLETE[®] CORN BLEND³	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 VIPTERA[®]	20% corn-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Agrisure Viptera [®] field; if adjacent, may be separated by a road, path, ditch, etc., but not another field
AGRISURE[®] 3000GT, AGRISURE[®] CB/LL/RW	20% corn-growing areas; 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Agrisure [®] 3000GT or Agrisure [®] CB/LL/RW field; if adjacent, may be separated by a road, path, ditch, etc., but not another field
AGRISURE[®] GT/CB/LL, AGRISURE[®] CB/LL	20% corn-growing areas; 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within, adjacent to or within 1/2 mile from Agrisure [®] GT/CB/LL or Agrisure [®] CB/LL 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[®], 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>

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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 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.

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.



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.



GENERAL DISCLAIMERS

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

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

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

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

NOTICE: DO NOT APPLY ANY HERBICIDE TO SEED IN THE ROUNDUP READY® XTEND CROP SYSTEM UNLESS IT HAS A PRODUCT LABEL SPECIFICALLY AUTHORIZING THAT USE. TO USE A HERBICIDE IN ANY MANNER INCONSISTENT WITH ITS LABELING IS A VIOLATION OF FEDERAL LAW. REFER TO THE BAYER TECHNOLOGY USE GUIDE FOR DETAILS AND RECOMMENDATIONS ON USING APPROVED HERBICIDES ON SEED IN THE ROUNDUP READY® XTEND CROP SYSTEM.

SOYBEAN AND CANOLA PIRACY

Seed containing a patented trait can only be used to plant a single commercial crop. It is unlawful to save and replant seed from that crop. Examples of seed containing a patented trait include but are not limited to Roundup Ready 2 Yield® 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: <https://tug.bayer.com>. U.S. patents for Bayer technologies can be found at the following webpage: <http://www.monsantotechnology.com>

ALFALFA

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

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